



प्रज्ञानं ब्रह्म



INSPIRED BY LIFE

Self Study Report 2015

Vol. 1B (Annexures)

Submitted to

**National Assessment and Accreditation Council (NAAC)
for Re-accreditation**



Submitted by

Manipal Academy of Higher Education

Manipal - 576 104, Karnataka

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ANNEXURE 1.1

Plan for Academic design and Development of syllabus – new programmes

#	Name of the activities	Duration	Responsibility	Remarks
1	Design and development of the curriculum with the help of the proposer for a new program		Faculty members/ HoD/ Chairman	
2	Collection of input for the design of curriculum from the concerned faculty members	1 month	Faculty members/ HoD/ Chairperson	
3	Review of input	2 weeks	HoD/ Chairperson	
4	Request to start the programme to be sent to Registrar	2 weeks	HoD/ Chairperson	
5	Preliminary meeting at the University, where the input as per format will be tabled/discussed and reviewed. Outcome should be a structured syllabus as per the scope described earlier	1 month	Deputy Registrar	
6	Submission of the copy of minutes of Preliminary meeting to Deputy Registrar	1 week	Chairperson	
7	Formation of BoS and appointment of Chairperson if applicable	1 month	Registrar	
8	Review of output of discussion of Preliminary meeting against the design	1 month	Chairperson	
9	Sending the syllabus to external experts for their comments/validation	1 month	Chairperson	
10	Collection of comments	1 month	Chairperson	
11	Submission of syllabus with external validation to Deputy Registrar	2 weeks	Chairperson	
12	BoS meeting for final approval of syllabus	1 month	Deputy Registrar	
13	Submission of minutes of BoS meeting and three copies of final syllabus/curriculum to Deputy Registrar	1 week	Chairperson	
14	Approval by Academic Senate	Next Senate meeting	Registrar/ Deputy Registrar	

Input Format for Design and Syllabus

Title and duration of the programme:

Department and Institution:

Name and signature of the Chairperson/HoD:

Date:

#	Name	Designation and Department	Acceptable	Non-acceptable	Modifications required/suggested	Any other remarks	Signature
1							
2							
3							
4							
5							
6							
7							

ANNEXURE 1.2

MU Admissions - New Programmes			
2011 - Total 13			
1	BA Culinary Arts	8	MOT Mental Health
2	Bachelor of Architecture (B Arch) – Interior Design	9	MPT Sports and Clinical Biomechanics
3	Bachelor of Library and Information Science	10	MS - Dual Degree, LU, UK
4	BBM Financial Markets	11	MS in High Performance Computing
5	BBM Professional	12	MS Virtualization and Computing Technology
6	B Sc Renal Replacement Therapy and Dialysis Technology	13	MSc Renal Replacement Therapy and Dialysis Technology
7	Certificate in Fashion Design and Information		
2012 - Total 31			
1	BA Interior Design	17	M Pharm Drug Regulatory Affairs
2	Bachelor of Hotel Management, Travel and Tourism	18	M Sc Cardiac Catherization and Interventional Technology
3	B Sc Perfusion Technology	19	M Sc Echocardiography
4	Certificate course in Fashion Design and Information Technology	20	M Sc Nanoscience and Technology
5	Certificate course in Library and Information Science	21	M Sc Pharmaceutical Medicine
6	Certificate in Fashion Design and Technology	22	M Sc Tech (Business Management Systems)
7	DM Nephrology	23	M Tech Biochemical
8	Fellowship in Critical Care	24	M Tech in Chemical Engineering (Dual- degree)
9	Fellowship in Diabetes	25	M Tech in Industrial Pollution Control (Dual Degree)
10	Fellowship in Genetics	26	M Tech Industrial Pollution and Control
11	Fellowship in Neonatology	27	PG Diploma in Cellular and Molecular Diagnostics
12	MA English	28	PG Diploma in Film Art
13	Master of Library and Information Science	29	PG Diploma in Jewellery Sales and Retail Operations

14	Master of Public Health - Environment and Occupational Health	30	PG Diploma in Photonics
15	Masters in Film Art and Film Making – Dual- degree	31	Executive M Arch
16	MD (Immuno Haematology and Blood Transfusion)		
2013 - Total 24			
1	DM Nephrology	13	Diploma in Fashion Design
2	MD (Immuno hematology & Blood Transfusion)	14	Certificate course in Fashion Design & Information Technology (CFDIT)
3	Fellowship in Clinical Genetics	15	MSc Tech (Groep T, Leven, Belgium) Dual Degree
4	Fellowship in Diabetes	16	Postgraduate Diploma in Jewellery Sales & Retail Operations
5	Fellowship in Neonatology	17	MA in National Security Studies
6	BSc Perfusion Technology (PFT)	18	MA in European Studies (Dual Degree)
7	Bachelor of Health Sciences (BHSc)	19	MA in Sociology
8	MSc Cardiac Cath & Intervention Technology	20	MSc Nanoscience & Technology
9	MSc Library and Information Science	21	MSc Biophysics
10	Lateral MSc Library and Information Science	22	MPharm Industrial Pharmacy
11	BA in Interior Design/Bachelors of Design (Fashion Design)/Bachelors of Science (Fashion Design-Couture)	23	PG Diploma in Dental Materials (MPL Campus)
12	Executive March (Advanced Design)	24	BHMTT
2014 - Total 12			
1	Certificate Course in Nanoscience & Technology	7	Master of Business Administration - Healthcare Management
2	Certificate Course in Laser Applications in Biology and Medicine	8	MSc Clinical Psychology
3	MSc Information Sciences (IS)	9	MSc Exercise and Sports Science
4	MSc Health Informatics - Health Care IT Management	10	B.Sc. Animation
5	MSc Health Informatics - Software Development & Management	11	Certificate Program in Clinical Embryology
6	March Urban Design and Development	12	MSc in Genetics Counseling

ANNEXURE 1.3

MU ADMISSIONS- CERTIFICATE COURSES	
#	Courses – Total 16
1	PG Certificate Course in Oral Implantology
2	PG Certificate Course in Aesthetic Dentistry
3	PG Certificate Course in Laser Dentistry
4	PG Certificate Course in Panchakarma
5	Certificate Course in Animation Technology
6	Certificate Course in Biostatistics, Epidemiology and Research Methodology
7	Certificate Course in Library and Information Science
8	Certificate Course in Public Health
9	Certificate Course in Global Health
10	Certificate course in Laser Application in Biology & Medicine
11	PG Certificate course in Restorative Dentistry
12	Certificate Program in Clinical Embryology
13	Certificate Course in German
14	Certificate Course in Spanish
15	Certificate Course in Nanoscience & Technology
16	Certificate Course in Fashion Design and Information Technology (CFDIT)

MANIPAL UNIVERSITY
INTERNATIONAL ADMISSION'S OFFICE

Objectives of the Department

Increase in applications

Help the international student with admission formalities and other day to day requirements

Staff of the department

Director, Admissions

Deputy Director, International Admissions

Senior Clerk – 1

Clerks – 2

General Duty Worker – 1

Manipal University admits 15 per cent of the total seats under Foreign/NRI category to various courses it offers. At present we have students from over 50 countries presently pursuing their higher education at Manipal University.

International Admissions Office at Manipal University handles the admission of Foreign/NRI students and helps the Foreign/NRI students with admission and other required formalities.

Foreign/NRI students are accepted based on the eligibility requirements prescribed by the Statutory Bodies like Medical Council of India, Dental Council of India, Indian Nursing Council, Pharmacy Council of India, All India Council for Technical Education, etc., as well as by the Manipal University and Association of Indian Universities, New Delhi.

Admission Procedure

- Collection of updated information related to constituent institutions/departments, programme fee, fee refund rules, eligibility, hostels, from all institutions, departments, finance, hostels, etc.
- Compiling and layout of the brochure
- Printing of brochure with the above information after verification
- Uploading the admission details in the website: www.manipal.edu
- Receiving of application and documents by post or online

- Planning for promotional activities like Education Shows/Fairs, online marketing, advertisements, etc.
- Estimating the budget for various promotional activities

Registration – Registration process includes the following work:

- Entering the data of the application into our programme and generating/allotting application numbers to candidates
- Communicating with the students/parents about the application numbers allotted and the procedure of admission, documents required, etc.
- Communicating to candidates/parents if the student is not eligible for the programme

Provisional Admission process includes the following:

- Issuing of letter of offer/provisional admission to eligible candidates
- Country-wise merit list for MBBS programme and thereafter issuing of offer/provisional admission letters as per the merit list

Confirmed Admission refers to the following processes:

- Allocating roll numbers to students who have remitted the first year programme fee/tuition fee
- Issuing of confirmed admission letter
- Writing to the concerned Embassy/Consulates directly in case student has difficulty in obtaining the Student Visa

Final Information Package

- Things to do on arrival, which includes a map of Manipal, academic calendar, dress code, health and safety instructions, information regarding registration with the Foreigner's Registration Office (FRO) for Registration Certificates and Registration Permits
- List of confirmed students to the Chief Warden for allotment of hostel accommodation
- List of confirmed students to the heads of institutions/departments

Final Registration

- Verification and collection of original marks sheets/transcripts and other documents as listed in the confirmed admission letter
- Issuing Admission Order

- Arranging for opening of Bank Account with State Bank of India
- Registration with the Foreigner's Registration Office within 14 days of entry to India to obtain RC and RP
- Dispatch of original mark sheets/transcripts and other documents to the concerned institutions/departments

Other Procedures include the following:

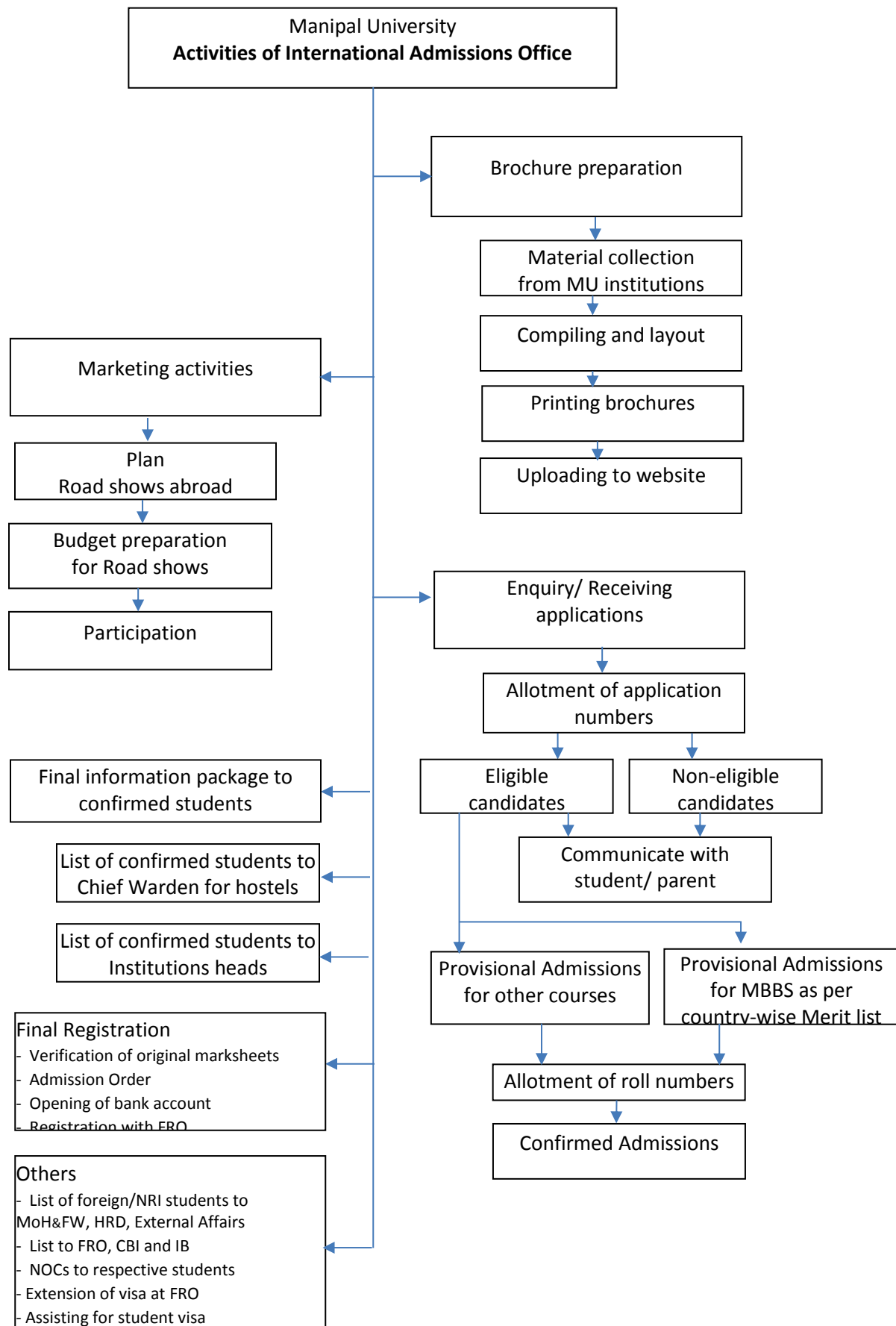
- Forwarding the list of Foreign/NRI students admitted along with the required documents to the Ministry of Health and Family Welfare, Ministry of Human Resource Development, Ministry of External Affairs, Government of Indian to obtain 'No Objection Certificates'
- Forwarding the list of Foreign/NRI students admitted to FRO's office, CBI and Intelligence Bureau in Udupi/Mangalore
- Arranging to forward the NOC's received from the Ministry to the respective students
- Helping the students to apply for extension of Student Visa at the FRO
- Issuing Eligibility Certificate and arranging to collect Bonafide Certificates from institutions/departments for students who wish to apply and get Student Visa when they go home on vacation
- Any other day-to-day issues of foreign/NRI students

Promotional Activities to increase applications of Foreign/NRI students

The International Admissions Office participates in promotional activities like Education Shows/Fairs in different countries especially in the gulf, and communicates information through online marketing, and advertisements in various newspapers abroad in close coordination with the outsourced agencies within the budget.

Manipal University has participated in the Educations Shows/Fairs at Bahrain, Sri Lanka, Kuwait, Dubai and Sultanate of Oman in the year 2012-13

In Kenya, Manipal University has opened its Student Information Centre and nominated representative to provide information to the prospective students and collect the applications



ANNEXURE 1.5

INTER-DISCIPLINARY PROGRAMMES

1. DEPARTMENT OF EUROPEAN STUDIES:

- Masters in European Studies and Management involving Department of Geopolitics and International Relations, and T A Pai Management Institute (TAPMI)
- MA European Studies starting in the academic year 2013 is also an inter-disciplinary programme with specializations in international relations, economics and business, culture and society

2. SCHOOL OF INFORMATION SCIENCES:

- MSc Tech in Medical Software, MSc Tech in IT Management are the two, offering inter-disciplinary subjects to the students of Manipal University
- M.Sc Tech in Medical Software was started in the year 1998 and has produced approximately 250 students who have proved successful in their career by applying IT skills in medical domain
- M.Sc Tech in IT Management was started in the year 2010 and has produced approximately 30 students who have proved successful in their career by applying management skills in IT domain

3. DEPARTMENT OF ATOMIC AND MOLECULAR PHYSICS

- Course on Entrepreneurship development offered by this department is supported by School of Information Sciences

4. MANIPAL COLLEGE OF NURSING, MANIPAL

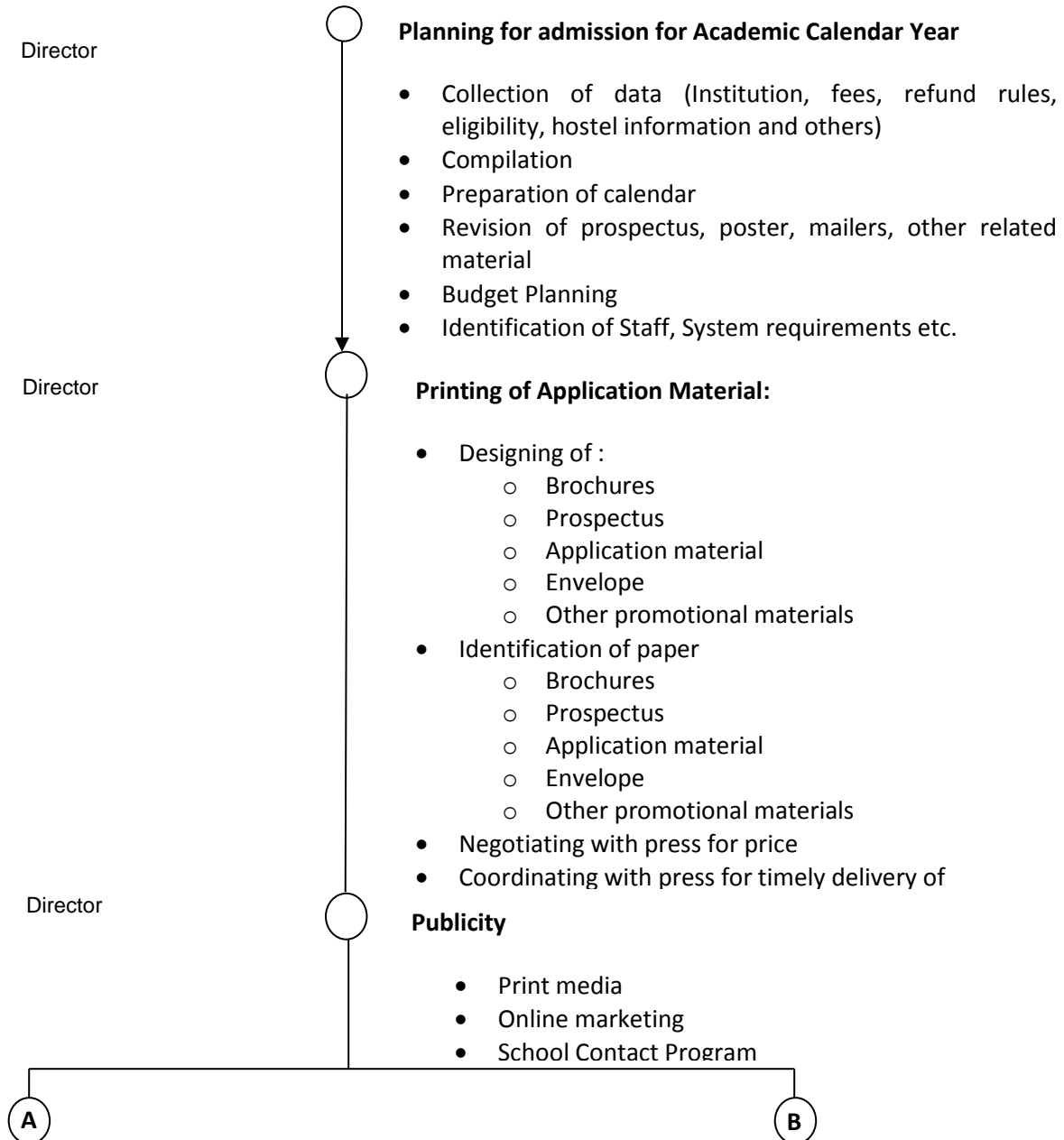
- Classes for Bachelor of Physiotherapy students on Basic Nursing and First Aid
- Minor ailment management programmes for respiratory therapy students so as to provide first line management in times of emergency.

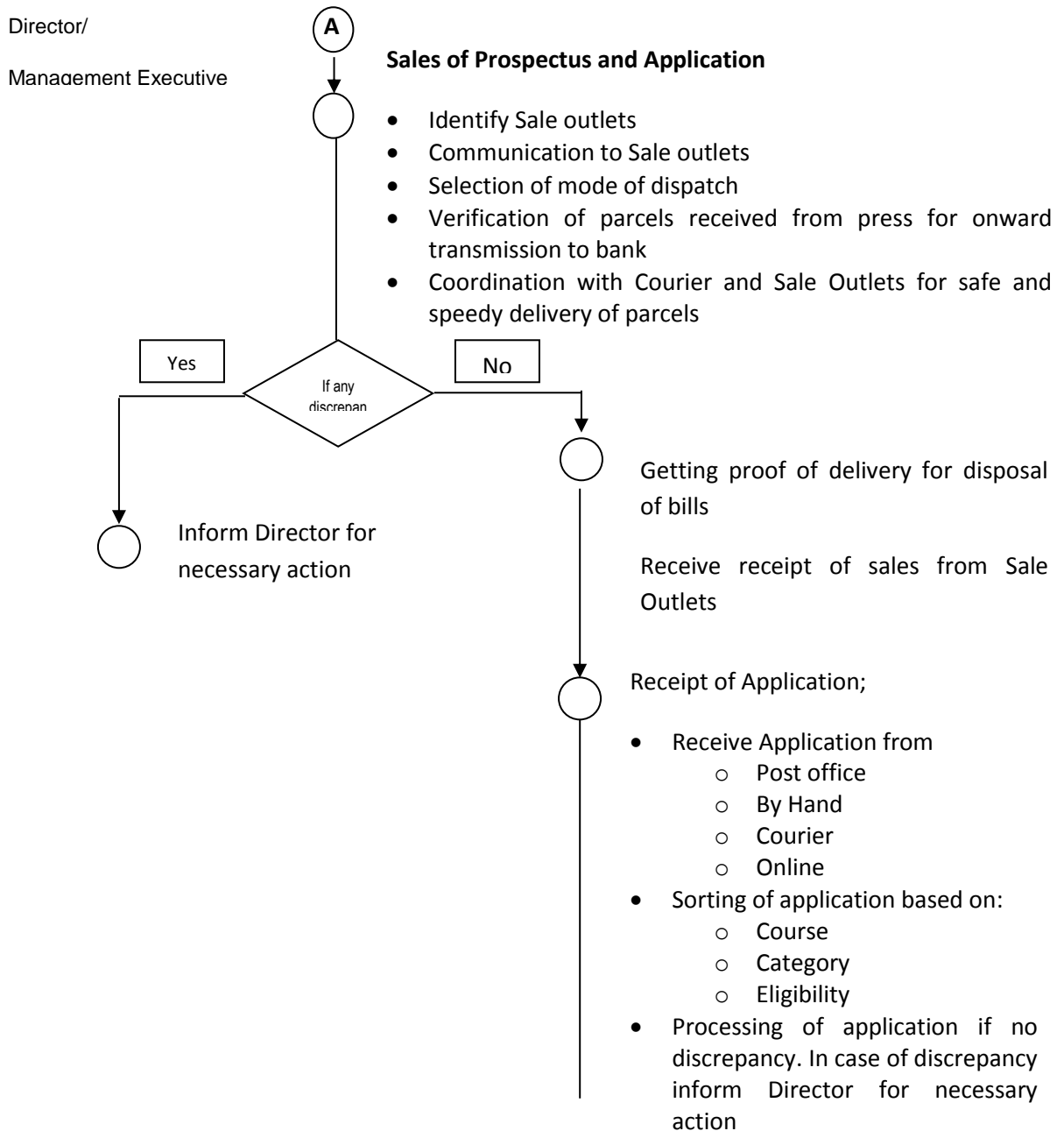
5. WELCOMGROUP GRADUATE SCHOOL OF HOTEL ADMINISTRATION

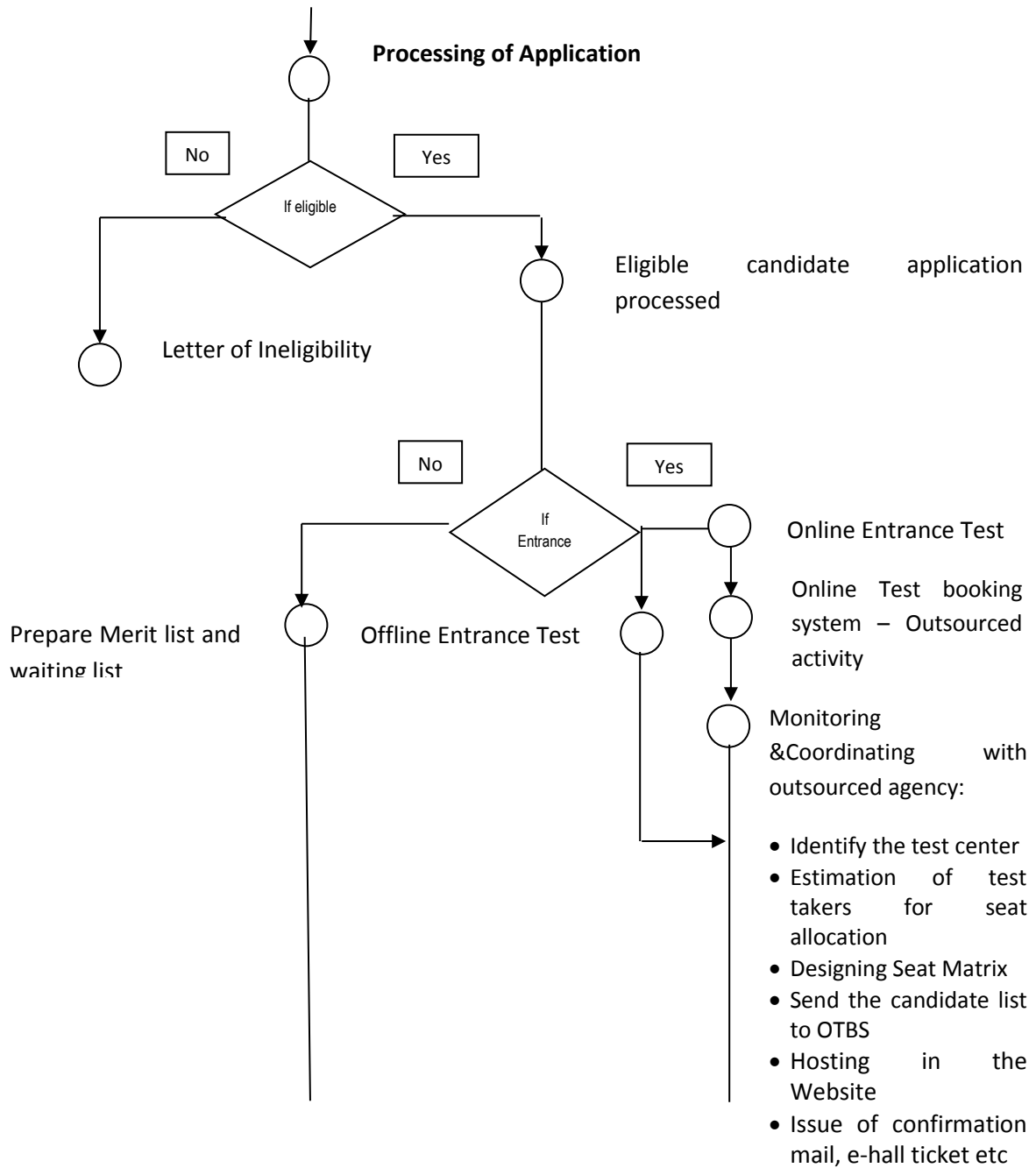
- MSc in Hospitality and Tourism is interdisciplinary and also Bachelor of Hospitality Management, Travel and Tourism (BHMTT)

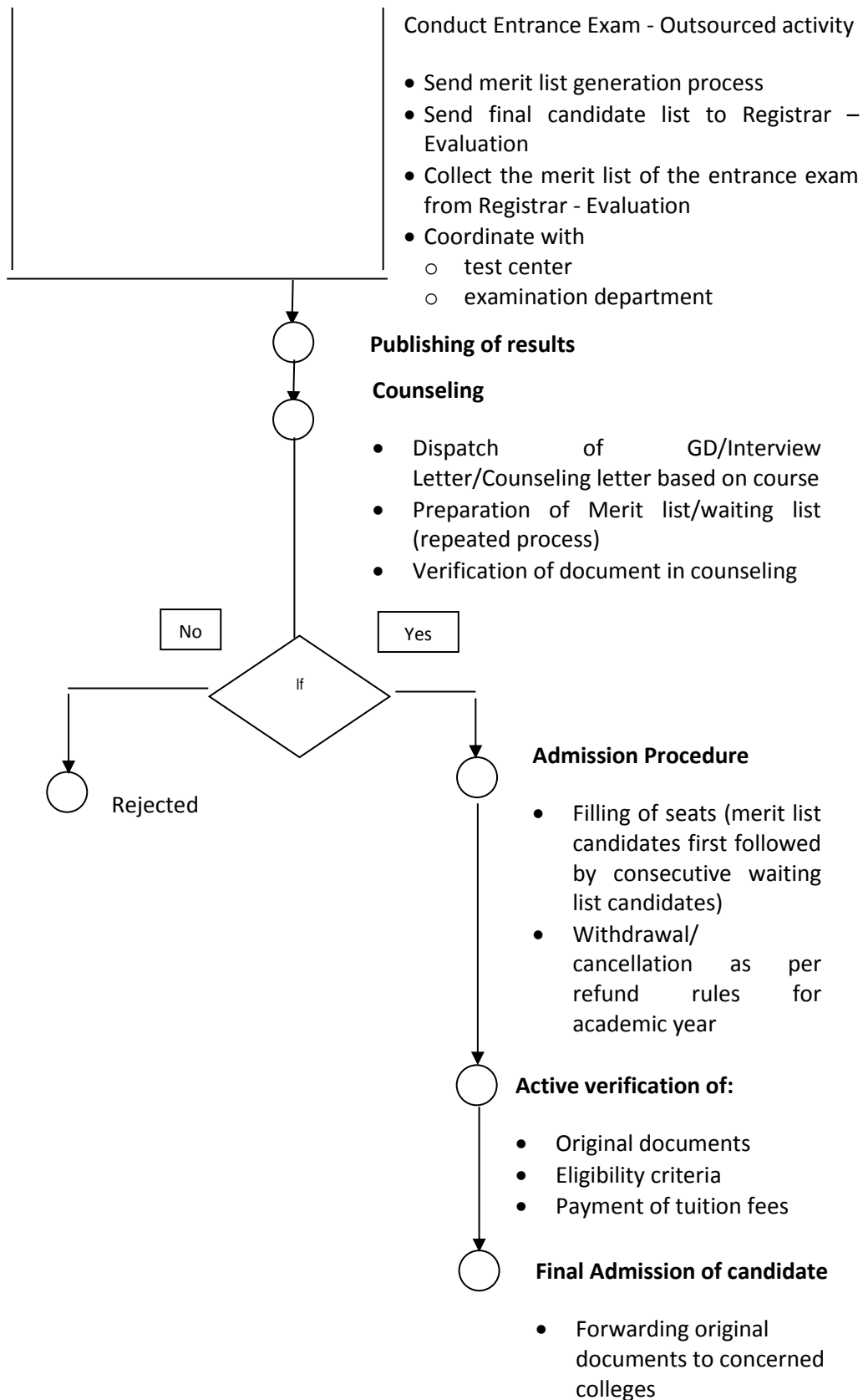
ANNEXURE 2.1a

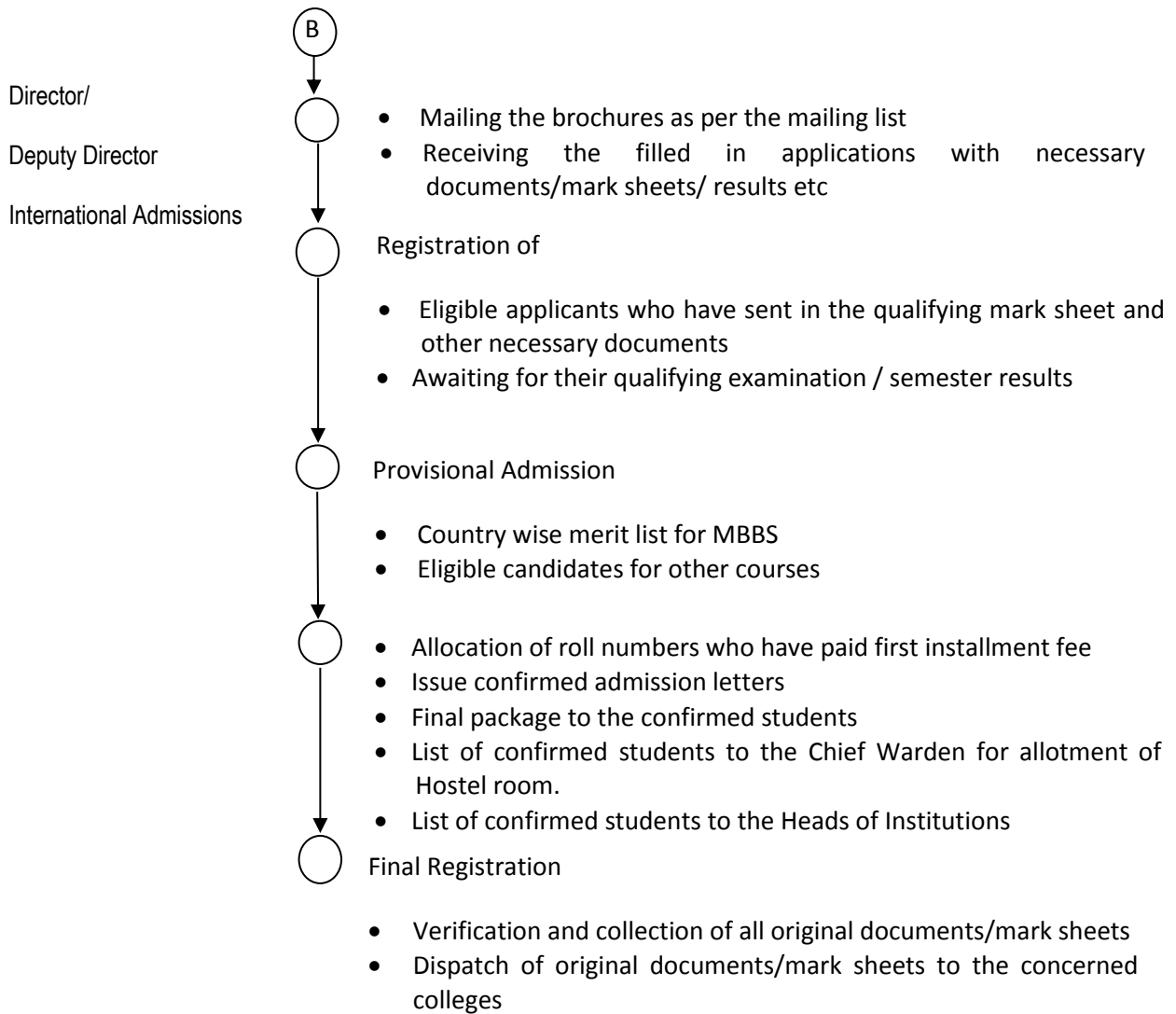
ADMISSION PROCESS











ANNEXURE 2.2

MANIPAL UNIVERSITY – MULTI -CENTRIC ONLINE COUNSELLING

Manipal University (MU) **Online Counselling System** for Engineering allows candidates to attend counselling from different venues in India, and complete the admission formalities to any of the three universities of Manipal Group, in real time, in a secure and transparent way. Currently, many universities either use single center for counseling or force-fit candidates to courses based on priorities.

Details of the Programme/Project/Initiative

Online counselling is for the students to take admission for Engineering at one of the three Manipal Group Universities namely Manipal University, Manipal, Manipal University, Jaipur and Sikkim Manipal University, Sikkim. Online counseling takes place across four venues: Manipal, Bangalore, Majitar (Sikkim) and Jaipur. The students can attend the counselling from any of the four venues, to choose a branch in real time out of 30 available branches at any of the three universities as per his/her rank order secured in the Common Online Entrance Exam conducted together for all three universities.

Brief Description

Candidate selects the counselling venue from the list of Centers available in the online test booking system before they download the e-hall ticket. The rank, counselling schedule, venue and other relevant details, are made available on the MU website, along with the announcement of results. Candidates need to ensure that they fulfill all the eligibility requirements mentioned in the prospectus before they report for counselling. Candidates attend the counselling venue based on the schedule posted on MU website.

The software tracks and enforces the following counselling steps:

1) Registration: Verification of biometrics (fingerprints), photograph, original documents substantiating eligibility requirements. The candidate can appear for counselling at any Counselling Center and select the institution and branch of his choice as per his/her secured rank order.

2) Seat Allotment: Students are offered admission based on the rank order (pre-loaded into the system). The student selects a campus and branch based on availability. The software auto-generates roll number based on allotted institute.

3)Finance: Capturing of fee details: Cheque/drafts/cash/bankers cheque

4)Printing Admission Order: This has all the details of step2 and step 3 along with reporting location, date and time.

Waitlist (optional): Candidate can decide to be waitlisted for a multiple programmes across the three universities. Admitted students also avail this feature.

Objectives

1. Transparency in admission process
2. Seamless counseling process across multiple counseling centers
3. Data availability, consistency and good user experience across counseling centers
4. Saves efforts, time and costs of students and their parents in terms of travel and stay
5. Flexibility to add more counselling centers for future releases
6. Customized view of available seat matrix
7. Report generation for integration with existing products: finance, waitlist
8. High Availability: Continue to operate even in the event of system or network failures

Target group*

Students across India and eligible NRIs, who are applying for engineering seats under general merit category and have appeared in the Common Online Entrance Exam conducted for all three universities of Manipal Group.

Geographical Reach*

The application is hosted in a cloud, which would help extending the reach to different parts of India and abroad also. However the system is currently functional in four centers as mentioned above.

Date from which the project became operational*

June, 2012

Five achievements of the Programme/Project/Initiative

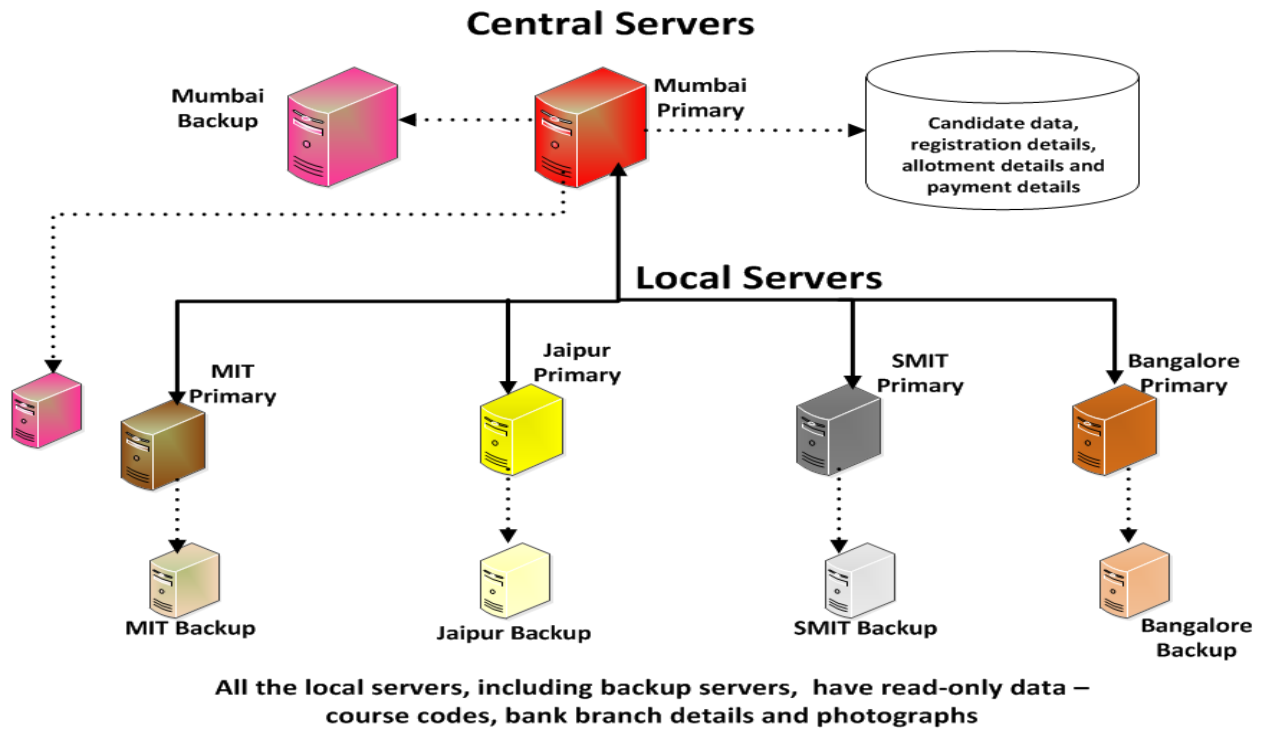
1. Distributed access to counselling software across counselling venues
2. User having single view of the process ensuring transparency in admission process
3. Highly reliable with data replication spanning multiple cities
4. Integration friendly to other software products in the University
5. Auto-generation of reports – end of day and end of event

5 major challenges faced while implementing the Project/Programme/Initiative and how they were overcome?

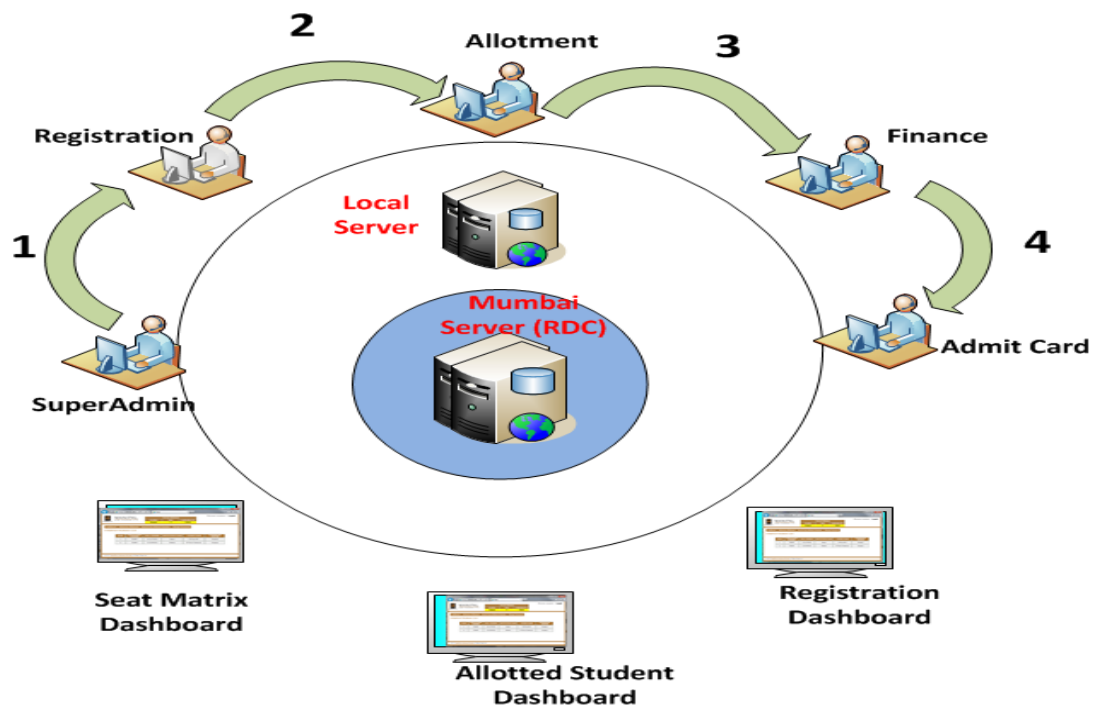
1. **Network connectivity:** MPLS and multiple modes of accessing the data Center in Mumbai
2. **Consistent view across multiple venues:** All venues access data from central location at Reliance Data Center, Mumbai.
3. **Integration with legacy software:** ETL (Extract-Transform-Load) model to extract data from MySQL, customize and export the data in Excel format.
4. **Training the user community:** Earlier releases were used to train and get feedback from the users. This also helped in avoiding any surprises in counselling, Customizing dashboards and automating the report generation process
5. **Disaster recovery:** Backup servers were setup at Mumbai and also at Manipal to cater to any system or network related failures.

Process Diagram

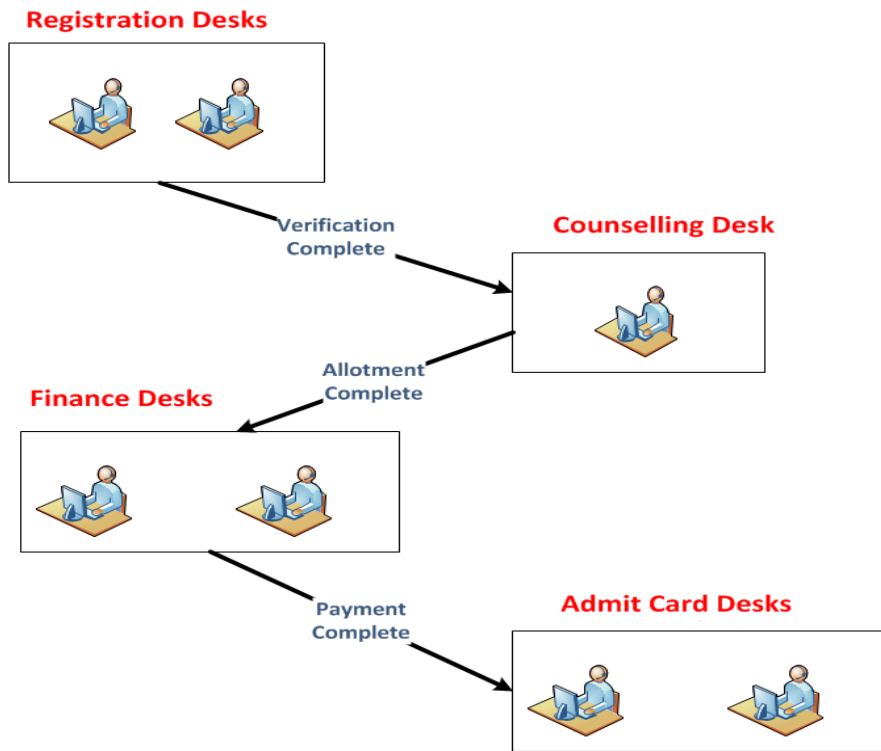
a. Deployment architecture



b. Counseling Center View



c. Candidate Process flow:



ANNEXURE 2.3

SCHOLARSHIPS

With the objective of encouraging meritorious students and academic excellence, many scholarships are offered to deserving candidates. The quantum of scholarship and the number of scholarships are subject to change from time to time. Changes, if any will be updated in our website.

MERIT-CUM-MEANS SCHOLARSHIP

Candidates admitted to MBBS course within the first 500 ranks and BDS, BTech & BPharm courses within the first 1000 ranks of the respective merit list are offered merit-cum-means scholarship. Scholarship amount shall be determined based on the parent's annual income (from all sources) as mentioned below:

Parents' annual income	Scholarship on course fee
Upto Rs.3 lakhs	100 %
Above Rs.3 lakhs upto Rs.5 lakhs	90 %
Above Rs.5 lakhs upto Rs.7.5 lakhs	75 %
Above Rs7.5 lakhs upto Rs.10 lakhs	50 %
Above Rs 10 lakhs upto Rs.12.5 lakhs	25 %
Above Rs.12.5 lakhs	10 %

*Candidates need to pay a nominal amount of 5% of course fees or 5% of total family income as yearly installment, whichever is minimum.

The merit-cum-means scholarships are subject to 5% of the general category intake and will cover only the course fee payable for the particular course of study. The candidate will however be required to pay the appropriate first year course fee (excluding scholarship amount), registration fee payable at the time of counseling/admission. This scholarship will not cover the expenses such as hostel accommodation, books etc.

Eligible candidates should produce attested photocopy of the Income Tax (IT) return form for proof of parents' income at the time of counselling/admission. Non-working parent should produce a notarized affidavit indicating that they are not employed.

NOTE: The award of the merit-cum-means Scholarship for the subsequent years will be same as given at the time of admission in the first year. The percentage of scholarship amount will be constant throughout the course duration, irrespective of changes in income group.

Continuation of scholarship for subsequent years will be based on academic performance of the student in the university exam.

AICTE SCHOLARSHIP: AICTE has introduced the scheme on tuition fee (course fee includes tuition and other fee) waiver for economically backward and physically handicapped meritorious students to Bachelor's programmes in Technology, Pharmacy and Hotel Management. The proposed scheme will be applicable only to the students with parents' annual income (from all sources) less than Rs. 4.5 lakhs. Eligible candidates should produce the family income certificate by the concerned Tahsildar or attested photocopy of the Income Tax return form at the time of counseling. Non working parent should produce a notarized affidavit indicating that they are not employed.

NOTE: Such scholarships are subject to availability and will not exceed 5% of the total intake. As the number of scholarship has been considered based on the intake of the particular BTech branch, if any student changes the branch in the second year then he/she is not eligible for the scholarship. In pursuance of the policy framework for promotion of post graduate education and research in Engineering & Technology of MHRD, AICTE provides financial assistance to the GATE qualified enrolled for MTech/MPharm course.

ITC SCHOLARSHIP: ITC Hotel Limited has also instituted scholarship worth Rs 3.5 lakhs to the BHM students excelling in operational subjects and for the best all-round graduating students.

TEACHING ASSISTANTSHIPS: Teaching assistantships are available to meritorious students joining MTech and MSc Tech courses with a monthly remuneration of upto Rs 5000.

SCHOLARSHIP FOR KONKANI SPEAKING STUDENTS: 10 % tuition fee waiver for admission to all courses of Manipal University for Konkani Speaking students only. They have to pay other fee as well as remaining tuition fee. Eligible students need to apply separately after the admission. However, these candidates should pay the full fee at the time of admission and the fee waiver will be given separately after scrutinizing their eligibility. The waiver will be 25% for those students joining Allied Health Sciences or Nursing courses. This would be applicable to General Category only.

SCHOLARSHIPS FOR ACADEMY OF GENERAL EDUCATION STUDENTS (SAGES)

There are a few seats reserved for students who have studied their two years of PUC for undergraduate courses or qualifying examination (all years/semesters) for other courses in any of the following AGE colleges:

- Mahatma Gandhi Memorial College, Udupi
- Sri Bhuvanendra College, Karkala
- Bhandarkar's Arts and Science College, Kundapura
- Vijaya College, Mulki

- Sri Mahaveera College, Moodibidri
- Sri JCBM College, Sringeri
- Dr. TMA Pai Polytechnic, Manipal
- SNM Polytechnic, Moodibidri

Admission will be done as per the admission criteria mentioned for the respective course. The award of scholarship amount will be based on the percentage of marks secured in the qualifying examination (as per the eligibility requirement of the course) and parents' annual income. In addition to the above mentioned scholarship students are also eligible for Interest Subsidy on Education Loan scholarship.

SCHOLARSHIPS FOR SCHOOL OF INFORMATION SCIENCE STUDENTS

- Manipal University offers scholarships in the form of 50% tuition fee concession for top 10% of students admitted to the respective post graduate programmes at School of Information Science based on Manipal University Online Entrance Test (MUOET), from the academic year 2011. During the academic year 2012-13, twenty one (21) scholarships were awarded. There must be atleast 20 students in respective programme for the scholarship.
- Students from School of Information Science were awarded with scholarships from GE Healthcare and NXP Semiconductors. GE had offered 18 Scholarships from 2001 to 2008 and NXP had offered 17 Scholarships from 2005 to 2008, to the students of School of Information Science.

SCHOLARSHIPS FOR NURSING STUDENTS

Manipal University offers merit cum means scholarships for students joining BSc Nursing courses. To be eligible, candidate should have secured above 80% in Physics, Chemistry, Biology and English in 10+2 board examination. Scholarship amount shall be determined based on the parent's annual income (from all sources) as mentioned below:

Parents' annual incomr	Scholarship on course fee
Upto Rs.5 lakhs	50 %
Above Rs.5 lakhs upto Rs.7.5 lakhs	40 %
Above Rs.7.5 lakhs upto Rs.10 lakhs	30 %
Above Rs 10 lakhs upto Rs.12.5 lakhs	20 %
Above Rs.12.5 lakhs	10 %

The above scholarship is applicable only to general category students and will cover only the course fee payable for the particular course of study. The students will however be required to pay the remaining first year course fee (excluding scholarship amount) and registration fee

payable at the time of counseling/admission. The candidate should submit their 10+2 marks card at the time of admission to avail this scholarship. This scholarship will not cover the expenses such as hostel accommodation, books etc.

Eligible candidates should produce attested photocopy of the latest Income Tax (IT) return form for proof of parent's income. Non-working parent should produce a notarized affidavit indication that they are not employed.

NOTE: The award of this scholarship for the subsequent years will be based on the performance of the candidate in the university examinations. They will have to obtain minimum aggregate 65% marks in each academic year with pass in all subjects.

KADAMBI SCHOLARSHIP: Two scholarships of Rs 30,000 each for Medical/Dental science and engineering science is given for the final year students who are good in both academics and sports.

ANNEXURE 2.4

Kasturba Medical College, Manipal

Orientation Programme

Date: August 1, 2012

Venue: Chaitya Hall, Hotel Fortune Inn Valley View, Manipal

Programme Details**MORNING SESSION**

09:00.: Assembly

09:01: Floral Tribute to Padmashree Late DrTMA Pai

09:05: Welcome address: DrG Pradeep Kumar, Associate Dean, KMC

09:10: Address: DrPSripathi Rao, Dean, KMC

09:30: Introduction of faculty members: Dr. P Sripathi Rao, Dean, KMC

09:35: Administration of Oath: DrPSripathi Rao, Dean, KMC

09:40: What is expected of a medical student?:DrPSripathi Rao, Dean, KMC

09:50: Hospital facilities: Dr Padmaraj Hegde, DeputyMedical Superintendent, KH

10:00: MU Guidance Centre: DrIndiraBairy, Director, Student Affairs, MU

10:15 to 10:30:**COFFEE BREAK**

10:30: Curriculum outline: DrG Pradeep Kumar, Associate Dean, KMC

10:45: The beginning of a career in Medicine: Stress and coping: DrPSVN Sharma,
Professor and Head, Department of Psychiatry, KMC, Manipal

11:05: Library facilities: DrShivananda Bhat, SrLibrarian, Health Sciences Library

11:20: Students Council: MsVandhanaRajgopal, President, Students' Council, KMC

11:30: Presentation by SBI officials on SBI Combo Card and Student loan facilities

11:45:**DISPERSE**

AFTERNOON SESSION

14:15to 17:00: Meeting with Teacher Guardians in their respective Departments

Master of Ceremony: DrPragna Rao, Professor and Head, Department of Biochemistry, KMC

MELAKA MANIPAL MEDICAL COLLEGE (MANIPAL CAMPUS)**March 2013 ADMISSIONS****ORIENTATION PROGRAMME****Programme**

- Date** : Wednesday, March 20, 2013
- Venue** : Chaitya Hall, Fortune Inn Valley View
- 8.45** : **Registration**
- 9.00** : **Welcome to Manipal**
(Multimedia presentation)
- 9.15** : **Programme outline**
Dr Ullas Kamath, Dean, Faculty of Medicine, MMMC (ManipalCampus)
- 9.45** : **Student brochure**
Dr. Annamma Kurien, Associate Dean, Faculty of Medicine, MMMC
(Manipal Campus)
- 10.00** : **Multimedia presentation**

MEET YOUR MENTOR

- Date** : Wednesday, March 20, 2013
- Time** : 10.30 am
- Venue** : Helpdesk, Fortune Inn Valley View

Welcome By Batch 31

- Date** : Wednesday, March 20, 2013
- Time** : 14.00
- Venue** : Chaitya Hall, Fortune Inn Valley View

ANNEXURE 2.5

STUDENT EVALUATION OF TEACHING

Name: Batch:

Subject:

Please answer each question accurately. If you feel you cannot answer a particular question leave it out and go to the next question. Your responses will remain anonymous.

Circle the number which most closely corresponds to your views about each statement.

Thank you for your assistance with this evaluation.

		Strongly Agree	Agree	Uncertain	Disagree	Strongly Disagree
1	Communicated effectively	5	4	3	2	1
2	Teaching style made note taking easy	5	4	3	2	1
3	Enthusiastic about teaching this course	5	4	3	2	1
4	Stimulated my interest in this subject	5	4	3	2	1
5	Interested in students	5	4	3	2	1
6	Accessible to student outside classes	5	4	3	2	1
7	Encouraged students to express ideas	5	4	3	2	1
8	Well organized	5	4	3	2	1
9	Confident	5	4	3	2	1
10	Clear explanations given	5	4	3	2	1

Other comments:

STUDENT EVALUATION OF FACULTY

 Faculty member's Name: _____ Designation: _____

Department: _____ Date of appraisal: _____

Subjects taught by the faculty member: _____

This evaluation is mainly to improve the performance of the faculty member. Kindly do participate wholeheartedly. The evaluation will be treated highly confidential.

Assessment about Teacher	Score values (Tick the appropriate column)				
	(5)	(4)	(3)	(2)	(1)
Knowledge of the subject	Has kept abreast with the latest developments in the field	Has kept abreast with most of the developments in the field	Has good knowledge of the job	Has sufficient knowledge of the job	Has superficial Knowledge
Lecture content	The lecture content is always meticulously prepared to suit the level of the class and the time available	The lecture content is usually prepared to suit the level of the class within the time available	The lecture content is adequately prepared	The contents are at times above/below the level of the class which tends to make it difficult/boring for the class	The content is not commensurate with the level of the class
Teaching style	Has clear and audible voice. Follows a logical sequence makes lectures interesting with the use of training aids	Is clear and audible. Follows fairly logical sequence, usually makes use of the training aids	Is fairly clear and audible. Is usually logical in sequence. Make adequate use of training aids	At times tends to lose clarity/audibility. Is not very logical. Occasionally uses training aids	Is not clear/audible, does not follow logical sequence/rarely uses training aids.
Class Participation	Ensures class involvement by discussion/question, answer etc.	Class involvement is mostly obtained	Class involvement is normally obtained	Classes tend to be monotonous. Discussions are only in the form of doubts of the students	Class participation is virtually non-existent
Assignments	Assignments are well planned, relevant and integrated with teaching on a regular basis	Assignments are well planned, continuous and relevant but not	Assignments are well planned but given once in a while.	Assignments are not planned and relevant and given once in a while	No assignments

		integrated with teaching			
Assessment	Very fair and objective in assessment and gives regular feedback and monitor student improvement on a continuous basis	Objective in assessment and gives developmental feedback to students	Assessment is carried out but the feedback is not discussed unless requested	Subjective in assessment and Feedback	Subjective in assessment and mostly shows favoritism among the students
Enthusiasm	Extremely enthusiastic about teaching the subjects and other relevant fields	Enthusiastic about teaching the subjects but limit only to the subject	Fairly enthusiastic about teaching the subjects	Shows somewhat enthusiasm in teaching the subjects	No enthusiasm and generally deviates from the subjects
Accessibility	Accessible to students for individual/ group discussion outside the class hours at all times	Accessible to students for individual/ group discussion outside the class hours for limited period	Accessible to students for individual/ group discussion outside class hours for limited period with prior intimation	Accessible but do not encourage individual/group discussion outside the class hours.	Not accessible to students for individual and group discussion outside the class hours
Mentoring	Is a role model, capable of setting high standards	Is a willing mentor, adding value wherever needed	Is able to step into the role of a mentor to a certain extent and add value wherever possible	Understands the importance of mentoring however is not ready to take on the role of mentor	Does not see mentoring as a process that could help in development of students
Leadership qualities	Inspires students and create an excitement and optimism among the students	Empowers students to maximize performance	Identifies and addresses gaps in students' performances	Facilitates achievement of students' performances	Meets students' fundamental needs

Any other comments/remarks:

ANNEXURE 2.6 a

KASTURBA MEDICAL COLLEGE MANIPAL

Complete time table:

Tentative time table for first M.B.B.S students of 2012 -2013 Batch, Classes start on 1 st August 2012							
Days	8:00 am – 9:00 am	9:00 am – 10:00 am	10:30 am -11:30 am	11:30 am – 12:30 pm	2:00 pm – 3:00 pm	3:00 pm – 4:00 pm	4:00 pm - 5:00 pm
Monday	Physiology Lecture	Anatomy Lecture	Physiology Lecture	Biochemistry Lecture	Anatomy Dissection	Anatomy Dissection	Anatomy Dissection
Tuesday	Biochemistry Lecture	Anatomy	Histology Practicals – Batch A	Anatomy Dissection	Anatomy Dissection	Anatomy Dissection	
			Physiology Practicals – Batch B				
			Anatomy Demonstration- Batch C				
			Biochemistry Practicals – Batch D				
Wednesday	Physiology Lecture	Biochemistry Lecture	Physiology Practicals – Batch A	Anatomy Dissection	Anatomy Dissection	Anatomy Dissection	
			Histology Practicals – Batch B				
			Biochemistry Practicals – Batch C				
			Anatomy Demonstration- Batch D				
Thursday	Biochemistry Lecture	Anatomy Lecture	Histology Practicals – Batch D	Anatomy Dissection	Anatomy Dissection	Anatomy Dissection	
			Physiology Practicals – Batch C				
			Biochemistry Practicals – Batch A				
			Anatomy Demonstration- Batch B				
Friday	Physiology Lecture	Anatomy Lecture	Histology Practicals – Batch A	Integrated Teaching	Integrated Teaching	Integrated Teaching	
			Physiology Practicals – Batch B				
			Biochemistry Practicals – Batch D				
			Anatomy Demonstration- Batch C				
Saturday	Physiology Lecture	Biochemistry Lecture	Physiology Lecture	Anatomy Lecture	Physiology / Biochemistry Lecture	Community medicine	Community medicine

Batch	Venue for lectures
I Batch: Sl. No 1 to 125	Lecture Hall Ga Interact – Ground Floor
II Batch: Sl. No 126 onwards	Lecture Hall Gb Interact – Ground Floor

Batches for Practicals

Batch A	Batch B	Batch C	Batch D	Venue for physiology tutorials
Sl. No	Sl. No	Sl. No	Sl. No	Interact lecture Hall No
1-62	63-125	126-187	188-250	Ga, Gb, Gc

Theory Time Table for Second MBBS(III Semester) from 1.8.2012 to 23.11.2012						
Time table for Batch A: Sl. No. 1 to 126						
Time Days	8:00 am – 9:00 am	9:00 am – 01:00 pm		2:00 pm – 3:00 pm	3:00 pm – 4:00 pm	4:00 pm - 5:00 pm
Monday	Medicine	Clinical Assignments	Lunch Interval	Pathology	Microbiology Practicals	
Tuesday	Pharmacology	-do-		Microbiology	Pathology Practicals	
Wednesday	Surgery	-do-		Community Medicine	Surgery	Forensic Medicine
Thursday	Community Medicine	-do-		Forensic Medicine	Pharmacology Practicals	
Friday	Pharmacology	-do-		Microbiology	Medicine	Pathology
Saturday	Forensic Medicine	-do-		Pathology	Pharmacology	Microbiology
& Integrated Teaching**						
Sessional Will be held from 24.11.2012 to 15.12.2012						

** Integrated Teaching Schedule Notified separately

Venue for classes: Lecture Hall No. 2a, Second Floor, Interact.

Theory Time Table for Second MBBS(III Semester) from 1.8.2012 to 23.11.2012						
Time table for Batch B: Sl. No. 127 Onwards						
Time Days	8:00 am – 9:00 am	9:00 am – 01:00 pm		2:00 pm – 3:00 pm	3:00 pm – 4:00 pm	4:00 pm -5:00 pm
Monday	Surgery	Clinical Assignments	Lunch Interval	Microbiology	Pharmacology	Pathology
Tuesday	Medicine	-do-		Forensic Medicine	Pathology	Microbiology
Wednesday	Forensic Medicine	-do-		Medicine	Microbiology Practicals	
Thursday	Pharmacology	-do-		Community Medicine	Pathology Practicals	
Friday	Surgery	-do-		Forensic Medicine	Pharmacology Practicals	
Saturday	Community Medicine	-do-		Microbiology	Pathology	Pharmacology
& Integrated Teaching**						
Sessional Will be held from 24.11.2012 to 15.12.2012						

** Integrated Teaching Schedule Notified separately

Venue for classes: Lecture Hall No. 2b, Second Floor, Interact.

Theory Time Table for Second MBBS(IV Semester) from 8.1.2012 to 19.5.2012						
Time table for Batch A: Sl. No. 1 to 125						
Time Days	8:00 am – 9:00 am	9:00 am – 01:00 pm		2:00 pm – 3:00 pm	3:00 pm – 4:00 pm	4:00 pm – 5:00 pm
Monday	Forensic Medicine	Clinical Assignments	Lunch Interval	Pharmacology	Pathology Practicals	
Tuesday	Medicine	-do-		Pathology	Pharmacology Practicals	
Wednesday	Community Medicine	-do-		Microbiology	Microbiology Practicals	
Thursday	Microbiology	-do-		Pathology	Forensic Medicine Practicals	
Friday	Surgery	-do-		Pharmacology	Community Medicine Practicals	
Saturday	Pharmacology	-do-		Community Medicine	Microbiology	Pathology
Sessional Will be held from 21.5.2012 to 7.6.2012						

Venue for classes: Lecture Hall No. 1a, First Floor, Interact.

Theory Time Table for Second MBBS(IV Semester) from 8.1.2012 to 19.5.2012						
Time table for Batch B: Sl. No. 126 onwards						
Time Days	8:00 am – 9:00 am	9:00 am – 01:00 pm		2:00 pm – 3:00 pm	3:00 pm – 4:00 pm	4:00 pm – 5:00 pm
Monday	Surgery	Clinical Assignments	Lunch Interval	Microbiology	Microbiology Practicals	
Tuesday	Pharmacology	-do-		Pathology	Forensic Medicine Practicals	
Wednesday	Forensic Medicine	-do-		Community Medicine	Pathology Practicals	
Thursday	Pharmacology	-do-		Microbiology	Pharmacology Practicals	
Friday	Microbiology	-do-		Pathology	Community Medicine Practicals	
Saturday	Community Medicine	-do-		Medicine	Pharmacology	Pathology
Sessional Will be held from 21.5.2012 to 7.6.2012						

Venue for classes: Lecture Hall No. 1b, First Floor, Interact.

Theory Time Table for Second MBBS (V Semester) from 8.6.2012 to 24.10.2012						
Time table for Batch A: Sl. No. 1 to 125						
Time Days	8:00 am – 9:00 am	9:00 am – 01:00 pm		2:00 pm – 3:00 pm	3:00 pm – 4:00 pm	4:00 pm - 5:00 pm
Monday	Microbiology	Clinical Assignments	Lunch Interval	Pathology	Pharmacology Practicals	
Tuesday	Forensic Medicine	-do-		Pharmacology	Microbiology Practicals	
Wednesday	Surgery	-do-		Pharmacology	Pathology Practicals	
Thursday	Pharmacology	-do-		Microbiology	Pathology	O.B.G
Friday	Medicine	-do-		Pathology	Forensic Medicine Practicals	
Saturday	Microbiology	-do-			Integrated Teaching Path/ moco/Pharmac/ Forensic/Com.med.	
Sessional Will be held from 25.10.2012 to 7.11.2012						

Venue for classes: Lecture Hall No. 1a, First Floor, Interact.

Theory Time Table for Second MBBS (V Semester) from 16.1.2012 to 31.5.2012						
Time Table for Batch B: Sl. No. 126 onwards						
Time Days	8:00 am – 9:00 am	9:00 am – 01:00 pm		2:00 pm – 3:00 pm	3:00 pm – 4:00 pm	4:00 pm - 5:00 pm
Monday	Surgery	Clinical Assignments	Lunch Interval	Microbiology	Pathology Practicals	
Tuesday	Microbiology	-do-		Pathology	Pharmacology Practicals	
Wednesday	Pharmacology	-do-		Pathology	Forensic Medicine Practicals	
Thursday	Forensic Medicine	-do-		Pharmacology	Microbiology Practicals	
Friday	Pharmacology	-do-		Pathology	Microbiology	O.B.G
Saturday	Medicine	-do-			Integrated Teaching Path/ moco/Pharmac/ Forensic/Com.med.	
Sessional Will be held from 25.10.2012 to 7.11.2012						

Venue for classes: Lecture Hall No. 1b, First Floor, Interact

Theory Time Table for Final MBBS (VI Semester) from 16.1.2012 to 31.5.2012						
Time Table for Batch A: Sl. No. 1 to 126						
Time Days	8:00 am – 9:00 am	9:00 am – 01:00 pm		2:00 pm – 3:00 pm	3:00 pm – 4:00 pm	4:00 pm – 5:00 pm
Monday	Community Medicine	Clinical Assignments	Lunch Interval	Medicine	Community Medicine Practicals	
Tuesday	Ophthalmology	-do-		E.N.T	CLINICAL POSTINGS	
Wednesday	E.N.T	-do-		O.B.G		
Thursday	Surgery	-do-		Community Medicine		
Friday	Medicine	-do-		Ophthalmology		
Saturday	O.B.G	-do-		Surgery		
Sessional Will be held from 1.6.2012 to 15.6.2012						

Venue for classes: Lecture Hall No. 1c, First Floor, Interact

Theory Time Table for Final MBBS (VI Semester) from 16.1.2012 to 31.5.2012						
Time Table for Batch B: Sl. No. 127 Onwards						
Time Days	8:00 am – 9:00 am	9:00 am – 01:00 pm		2:00 pm – 3:00 pm	3:00 pm – 4:00 pm	4:00 pm – 5:00 pm
Monday	Ophthalmology	Clinical Assignments	Lunch Interval	Community Medicine	Community Medicine Practicals	
Tuesday	E.N.T	-do-		Ophthalmology	CLINICAL POSTINGS	
Wednesday	Surgery	-do-		Medicine		
Thursday	Community Medicine	-do-		O.B.G		
Friday	O.B.G	-do-		Surgery		
Saturday	Medicine	-do-		E.N.T		
Sessional Will be held from 1.6.2012 to 15.6.2012						

Venue for classes: Lecture Hall No. 1d, First Floor, Interact

Theory Time Table for Final MBBS (VII Semester) from 16.6.2012 to 29.10.2012						
Time Table for Batch A: Sl. No. 1 to 126						
Time Days	8:00 am – 9:00 am	9:00 am – 01:00 pm		2:00 pm – 3:00 pm	3:00 pm – 4:00 pm	4:00 pm – 5:00 pm
Monday	Community Medicine	Clinical Assignments	Lunch Interval	Surgery (neuro)	Pediatrics	O.B.G
Tuesday	Urology	-do-		Community Medicine	Community Medicine Practicals	
Wednesday	Medicine	-do-		O.B.G	*Radiotherapy /**Radio diagnosis	Ophthalmology

Thursday	Ophthalmology	-do-		Medicine	E.N.T	Surgery
Friday	Community Medicine	-do-		E.N.T	Medicine	Ophthalmology
Saturday	Surgery (pl. surgery)	-do-		E.N.T	Skin & VD	O.B.G

Sessional Will be held from 30.10.2012 to 15.11.2012

*Radiotherapy -16.6.2012 TO 23.8.2012

**Radio diagnosis – 24.8.2012 TO 29.10.2012. Venue for classes: Lecture Hall
No. 1c, First Floor, Interact

Theory Time Table for Final MBBS (VII Semester) from 16.6.2012 to 29.10.2012						
Time Table for Batch B: Sl. No. 127 Onwards						
Time Days	8:00 am – 9:00 am	9:00 am – 01:00 pm		2:00 pm – 3:00 pm	3:00 pm – 4:00 pm	4:00 pm -500 pm
Monday	Surgery (Urology)	Clinical Assignment s	Lunch Interva l	Medicine	Community Medicine	*Radiotherapy /**Radio diagnosis
Tuesday	Surgery (pl. surgery)	-do-		O.B.G	Community Medicine Practicals	
Wednesda y	Community Medicine	-do-		Medicine	O.B.G	E.N.T
Thursday	E.N.T	-do-		Skin & VD	Medicine	Ophthalmolog y
Friday	Pediatrics	-do-		Surgery	Ophthalmolo gy	Community Medicine
Saturday	Ophthalmolog y	-do-		Surgery (neuro)	E.N.T	O.B.G

Sessional Will be held from 30.10.2012 to 15.11.2012

*Radiotherapy -16.6.2012 TO 23.8.2012

**Radio diagnosis – 24.8.2012 TO 29.10.2012. Venue for classes: Lecture Hall
No. 1d, First Floor, Interact

Theory Time Table for Final MBBS (VII Semester) from 22.1.2012 to 13.6.2012					
Time Table for Batch A: Sl. No. 1 TO 123					
Time Days	8:00 am – 9:00 am	9:00 am – 01:00 pm		2:00 pm – 3:00 pm	3:00 pm - 500 pm
Monday	Orthopedics	Clinical Assignments	Lunch Interval	Psychiatry	Seminars / Case Discussion (Clinical Postings)
Tuesday	Surgery	-do-		Medicine	
Wednesday	O.B.G	-do-		Surgery (paed. surgery)	
Thursday	Medicine	-do-		O.B.G	
Friday	O.B.G	-do-		Pediatrics	
Saturday	Surgery	-do-		Pul. Medicine	

Sessional Will be held from 14.6.2012 to 21.6.2012

Venue for classes: Lecture Hall No. Gc, Ground Floor, Interact

Theory Time Table for Final MBBS (VII Semester) from 22.1.2012 to 13.6.2012					
Time Table for Batch B: Sl. No. 124 Onwards					
Time Days	8:00 am – 9:00 am	9:00 am – 01:00 pm		2:00 pm – 3:00 pm	3:00 pm - 500 pm
Monday	Surgery	Clinical Assignments	Lunch Interval	O.B.G	Seminars / Case Discussion (Clinical Postings)
Tuesday	Orthopedics	-do-		Psychiatry	
Wednesday	Medicine	-do-		Pul. Medicine	
Thursday	O.B.G	-do-		Medicine	
Friday	Surgery	-do-		Surgery (paed. surgery)	
Saturday	O.B.G	-do-		Pediatrics	
Sessional Will be held from 14.6.2012 to 21.6.2012					

Venue for classes: Lecture Hall No. Gd, Ground Floor, Interact

Theory Time Table for Final MBBS (IX Semester) from 22.6.2012 to 30.11.2012					
Time Table for Batch Batch A: Sl. No. 1 TO 123					
Time Days	8:00 am – 9:00 am	9:00 am – 01:00 pm		2:00 pm – 3:00 pm	3:00 pm - 500 pm
Monday	Medicine	Clinical Assignments	Lunch Interval	-----	Seminars / Case Discussion (Clinical Postings)
Tuesday	O.B.G	-do-		Surgery	
Wednesday	Orthopedics	-do-		O.B.G	
Thursday	Pediatrics	-do-		O.B.G	
Friday	Surgery (CTS)	-do-		-----	
Saturday	Anesthesiology	-do-		-----	
Sessional Will be held from 1.12.2012 to 21.12.2012					

Venue for classes: Lecture Hall No. Gc, Ground Floor, Interact

Theory Time Table for Final MBBS (IX Semester) from 22.6.2012 to 30.11.2012					
Time Table for Batch B: Sl. No. 124 onwards					
Time Days	8:00 am – 9:00 am	9:00 am – 01:00 pm		2:00 pm – 3:00 pm	3:00 pm - 500 pm
Monday	Orthopedics	Clinical Assignments	Lunch Interval	Surgery	Seminars / Case Discussion (Clinical Postings)
Tuesday	Surgery (CTS)	-do-		-----	
Wednesday	O.B.G	-do-		-----	
Thursday	Anesthesiology	-do-		O.B.G	
Friday	Medicine	-do-		O.B.G	
Saturday	Pediatrics	-do-		-----	
Sessional Will be held from 1.12.2012 to 21.12.2012					

Venue for classes: Lecture Hall No. Gd, Ground Floor, Interact

Preliminary M.Sc. Time Table with effect from 8th August 2012				
DAY	9.00 am to 10.00 am	10.30 am to 11.30 am	11.30 am to 12.30 pm	2.00 pm to 4.00 pm
MONDAY	Physiology Lecture	Biochemistry Lecture	Anatomy Lecture	---
TUESDAY	Physiology Lecture	Biochemistry Lecture	Anatomy Lecture	Biochemistry Discussion/Practicals
WEDNESDAY	Anatomy Lecture	Anatomy Dissection		Physiology Practicals
THURSDAY	Anatomy Lecture	Biochemistry Lecture	Physiology Lecture	Histology Practicals
FRIDAY	Physiology Lecture	Biochemistry Lecture	Anatomy Lecture	Biochemistry Practicals
SATURDAY	---	---	---	---

- Number of didactic lectures: 4020 hours (For full 4 ½ years)
- Number of students in each class: The batch size of MBBS is 250 divided in batches of **125 each**
- Number of medical procedures that the students get to see: Medical students are exposed to all routine and emergency procedures during their clinical postings. They will be doing procedures under the supervision of a faculty member during their internship training.
- Details of the labour theatre, operating rooms, treatment rooms in medicine, post-operative and post-natal care facilities:

No. of Operation Theatres	26	Orthopaedics – 5 Surgery – 12 Urology – 5 Ophthalmology – 2 Family Planning – 1 O.B.G. – 1
Details of ICU beds	ICU/ICCU - 110	ICU General – 73 ICCU Cardiology – 18 ICCU CTS – 6 ICCU Neuro Sciences – 13
	NICU – 30 ICU Burn Unit – 12 Surgical Intensive Care area – 13 Paediatric Intensive Card area - 16	
	ICU for others respiratory diseases - 6	Equipment available are Spirometer, bronchoscope, Heart lung stimulator
Labour rooms	13	

e. Mannequins for student teaching:

MEDICAL SIMULATION CAPITAL ITEM STOCK		
SL No	Items	QTY
1	Adult Airway Management Trainer	4
2	Arterial Stick Arm Kit	2
3	ALS Simulator	2
4	B.P. Training Arm	4
5	Baby Umbi	1
6	Baby Stap	1
7	Baby Ivy	1
8	Baby Arterial Trainer	1
9	Baby Hippy Trainer	1
10	Baby Anne	14
11	BPC Flowmeter	2
12	Choking Charlie	1
13	Cricoid Stick Trainer	1
14	Chestor Chest	1
15	Delux Difficult Airway Trainer	1
16	Enema andCatheterization trainer	2
17	Femoral Access Trainer	1
18	Fundus Skill Assessment Trainer	2
19	Heart Sim	4
20	Infant Intubation Trainer	1
21	Little Anne	6
22	Little Anne with AED	5
23	Laerdal ALS Baby Trainer	1
24	Laryngo Scope Adult	4 Set
25	Laryngoscope Paed	3 Set
26	Male Multi venous IV Trainer	4
27	NG Tube and Trachea Care Trainer	2
28	Neonatal Intubation Trainer	1
29	Neonatal Resuscitation Baby	1
30	Nita Newborn	1
31	Paediatric Intubation Trainer	1
32	Pneumothorax Trainer	1

33	Peter PICC Line	1
34	Paediatric Multivenous IV Training Arm	2
35	Prompt Birthing Simulator standard	1
36	Podium	1
37	Resuscitator Adult	10
38	Resuscitator Neonatal	10+1
39	Resusci Baby with Skill Guide	1
40	Resusci Junior with Skill Guide	1
41	Resusci Anne with Skill Reporter	1
42	Sim Man STD	1
43	Sim Man Trauma Module	1
44	SimMan Nursing Module	1

- f. Number of students inside the theatres at a given time: Students are posted in batches of about 12-15 to different surgical units. When a unit has OT, students attend OT and observe procedure.
- g. Number of procedures in the theatres per week, month and year:

KASTURBA HOSPITAL			
MADHAVA NAGAR, MANIPAL			
OPERATIONS STATISTICS FROM 01/01/2012 TO 31/12/2012			
SL. NO.	DESCRIPTION	OPERATIONS	
		MAJOR	MINOR
1	YEARLY	17902	11004
2	MONTHLY(12 months)	1492	917

Out –Patient Teaching

- a. Number of students: Students are posted in batches of 12-15 in different medical and surgical units. When a unit has OPD, the students attend OPD
- b. Average attendance: New and old cases:

**KASTURBA HOSPITAL
MADHAVI NAGAR, MANIPAL
OUTPATIENT STATISTICS FOR 2011-12 (UPTO AUGUST)**

		2011		
SL. NO.	DESCRIPTION	NEW	REPEAT	TOTAL
1	YEARLY	143656	490231	633887
2	MONTHLY(12 months)	11971	40853	52824
3	WEEKLY(52 weeks)	2763	9428	12190
4	DAILY(305 DAYS)	471	1607	2078

		2012		
SL. NO.	DESCRIPTION	NEW	REPEAT	TOTAL
1	YEARLY	144975	463835	608810
2	MONTHLY(12 months)	12081	38653	50734
3	WEEKLY(52 weeks)	2788	8920	11708
4	DAILY(302 DAYS)	480	1536	2016

c. Total period of posting for UG students in the OP: Every unit has got four to five OP days per month. 12-15 students posted in a specific unit attend OP clinics when they are posted in OPD.

d. Special clinics and their details:

Kasturba Hospital, Manipal has emerged as a premier healthcare institution providing quality tertiary care to patients - both domestic and international. Kasturba Hospital, with 2050 beds, is one of the largest healthcare centres in India. This is the teaching hospital attached to Kasturba Medical College, Manipal a constituent unit of Manipal University.

The state-of-the-art facilities across every department and sophisticated diagnostic and therapeutic care at an affordable cost are the basis of in-patient treatment at Kasturba Hospital.

Kasturba Hospital is the first Medical College Hospital in Karnataka to get the prestigious Accreditation from National Accreditation Board for Hospitals and Healthcare Providers (NABH) on 14 September 2009.

It is ISO 9001:2008 and ISO 14000 certified for QMS/ EMS displaying the strong commitment to continuously improve the quality of services provided to the patients.

The pharmacy of Kasturba Hospital has an updated generic-based formulary providing higher quality and affordable drugs. Kasturba Hospital expanded its services with an exclusive Trauma and Emergency Centre with diagnostic facilities for emergency services under one roof to provide the patients with excellent care at the earliest.

Integrated Mother and Child Centre opened for comprehensive care of Women, children and neonates with all the latest and sophisticated facilities.

Services available

Orthopaedics	Gastroenterology	General Surgery
Neurology	Obstetrics &Gynaecology	General Medicine
Neuro Surgery	Anaesthesiology	Psychiatry
Cardiology	Paediatrics	Clinical Psychology
Cardiothoracic Surgery	Paediatric Surgery	Radio Diagnosis
Medical Oncology	Neonatology	Interventional Radiology
Paediatric Hematology Oncology	Ophthalmology	Dental Surgery
Surgical Oncology	ENT	Physiotherapy
Radiotherapy and Oncology	Plastic Surgery	Occupational Therapy
Nuclear Medicine	Chest and Allergy	Speech and Hearing
Urology	Skin and STD	Artificial Limb Centre
Nephrology	Clinical Genetics	Ayurveda
In-Vitro Fertilization (MARC)		Yoga

DIABETES CLINIC

Prevalence of diabetes in India is increasing by great proportions. One out of every six patients in any medicine OPD suffers from diabetes. Uncontrolled diabetes leads to many complications involving the heart, kidney, eyes, nerves and brain leading to permanent disabilities and mortality. Care of diabetes does not end with prescribing drugs.

We are committed to provide comprehensive care to our diabetics in collaboration with physiotherapists for foot care and exercise, and nutritionists regarding healthy and balanced dietary advice. Ophthalmologists, Nephrologists and Cardiologists are involved to manage diabetic complications. In addition, educators help patients in day-to-day management of their disease.

HYPERTENSION CLINIC

In this era of economic affluence, lifestyle associated diseases have emerged to be a threat to mankind. Along with diabetes and obesity, hypertension is the most important cause of morbidity and mortality. The goal of this hypertension clinic is to provide comprehensive evaluation of hypertension, lifestyle modification and patient education thereby improving overall quality of life of hypertensive patients.

GERIATRIC CLINIC

There is tremendous increase in ageing population requiring medical care. Generally this population suffers from multiple medical problems like diabetes mellitus, hypertension, psychological problems, joint and mobility problems. Caring of elderly is a highly specialized service involving multiple disciplines. In order to provide a quality comprehensive care for elderly population (age > 65 years), Geriatric clinic is started in the department of medicine in collaboration with Psychiatry and allied science departments.

COPD CLINIC

Chronic obstructive pulmonary disease is the fourth leading cause of death all over the world. Smoking is the most important risk factor for COPD. Multidisciplinary approach to the management of COPD - combining expert medical services with nutritional counselling, respiratory therapy, oxygen education, COPD awareness and smoking cessation with psychologists' assistance is the need of the hour. We also highlight the importance of pneumococcal and influenza vaccination to these patients.

IMMUNOLOGY CLINIC

The goal of the immunology clinic is to provide a comprehensive evaluation and consultative services for patients with joint problems like rheumatoid arthritis and related diseases. These diseases require regular follow up and expert care which will be provided by the clinic. Physiotherapy and occupational therapy services will be available for patients attending this clinic.

THYROID CLINIC

Thyroid disorders are one of the most common endocrine diseases in India. If undetected it can lead to severe complications including death. So we are planning to start thyroid clinic to set up preventive strategies, provide health education and efficient management of thyroid diseases which requires regular monitoring thyroid function tests.

HIV CLINIC

HIV is a disease which is rapidly spreading among the communities all over India. HIV clinic is organized twice weekly as per schedule. It will involve comprehensive care of all HIV positive patients including counselling, education and management issues and social aspects. HIV patients and their care givers are counselled about preventive aspects of HIV.

OBESITY CLINIC

Excess body weight is a multifactorial medical problem predisposing the person to various diseases and compromising quality of life. Overweight, obesity and unhealthy life style are spreading in epidemic proportion across the social and geographical strata. Prevention, intervention and systematic management of body weight and healthy lifestyle are the key for the effective management of most of the chronic diseases. In this background Manipal weight optimization and lifestyle centre is being established. We will guide you to maintain ideal weight and live a healthy joyful life.

BREAST CLINIC

The Three components of the breast awareness initiative are:

1. Breast Self Examination (BSE)
2. Clinical Breast Examination (CBE)
3. Mammography

BREAST SELF EXAMINATION (BSE)

Breast Self Examination is an informed systematic examination that you do yourself. The goal of BSE is to become familiar with the way your breasts look and feel to you and become aware of what is normal and abnormal in your breast. Then, if anything changes you are more likely to notice it earlier so you can see your doctor as soon as possible. At your first appointment in the Breast Clinic you would be shown how to do BSE

Women over 20 years should perform BSE once a month. BSE is best done when they are least tender (usually 5-10 days from the first day of the menstrual period). If you no longer have periods, pick another day each month that will remind you to do BSE. If you are breast feeding, empty your breasts before performing BSE.

CLINICAL BREAST EXAMINATION (CBE)

Clinical Breast Examination is done by a doctor. Women between the ages of 20 and 39 should undergo CBE once every 1-3 years. Women of age 40 and above should have CBE every year.

MAMMOGRAPHY

A mammogram is a low dose x-ray of the breasts in two views. A mammogram should be done every 1-3 years starting at age 40.

e. **Casualty training and night emergencies:** Students in fifth semester in batches of 25 are posted in casualty during morning hours. Students in final year eighth semester in batches of three students are posted in casualty to observe night emergencies.

f. **Organization of OP teaching:** 12-15 students posted in a specific unit attend OP clinics when they are posted in OPD. They observe out-patient cases under the supervision of a consultant. Three cubicles with five students each. 1-2 cases are managed on OP basis are discussed by a consultant.

Hospital Teaching

a. Coordinator of hospital teaching: DrP Sampath Kumar, Associate Dean

b. Institute – Hospital distance: The teaching hospital (Kasturba Hospital) is attached to the College and is located within the campus

c. Resident staff: Accommodation for staff and students inside: Rooms have been provided for students and faculty members on duty. Junior residents are provided with accommodation in hostels in the campus which is a five-minute walking distance from the hospital. During duty day, junior residents stay in hospital in duty rooms provided by each department.

d. Total Number of beds in different sections including the sub-specialty beds:

Kasturba Hospital, Manipal

Bed Distribution Matrix

Sl.No	Basic Speciality		
	Departments	Units	Beds
1	Medicine	9	280
2	Surgery	8	240
3	Orthopedics	5	150
4	OB & GYN	5	150
5	Pediatrics	5	120
6	Psychiatry*	1	60
7	PTCD	2	50
8	Dermatology	1	60
9	Ophthalmology	2	60
10	ENT	2	60
	Sub Total (A)		1230

SUPER SPECIALITY BEDS DISTRIBUTION			
	UNIT	Units	TOTAL
1	Neurosurgery	1	20
2	Neurology	1	20
3	Cardiology	3	20
4	Cardiothoracic Surgery	1	20
5	Urology	3	45
6	Radiotherapy	2	60
7	Pediatrics Surgery	1	20
8	Plastic Surgery	1	20
9	Nephrology	1	20
10	Gastroenterology	1	20
11	Medical Oncology	1	16
12	PED Oncology	1	8
13	Surgical Oncology	1	30
	Sub Total (B)		319
	ICU Beds		194
	Super deluxe		3
	Deluxe		17
	Special		81
	Semi Special		84
	Semi Pvt*		54
	Sub Total (C)		433
	Isolation		15
	SM6 & Extra Beds		35
	Sub Total (D)		50
	Total		2032

e. Average number of students at a time in a given ward; their seniority and class: Average number in each ward varies at different time. Most of the times, around 50 students are posted in wards. 25 students in first and second clinical year of training, another 25 are in final year of their training.

f. Number of hours that the student spends in the ward per day: Minimum of three hours by an undergraduate and 8 - 10 hours by an intern and postgraduate

g. Number of hours that the staff spends in the wards: Six hours

Clinical teaching

a. Time table for Bedside clinics:

K M C, Manipal
CLINICAL POSTINGS
AS PER THE MCI REGULATIONS – 1997

SUBJECTS	SEMESTER							Total Weeks
	3 rd	4 th	5 th	6 th	7 th	8 th	9 th	
General Medicine	6	6	-	4	-	4	6	26
Paediatrics	-	-	-	-	4	4	4	12
PTCD	-	-	2	-	-	-	-	02
Skin & VD	-	-	4	-	-	-	-	04
Psychiatry	-	-	4	-	-	-	-	04
Radio Diagnosis	-	-	2	-	-	-	-	02
General Surgery	6	6	-	4	-	4	6	26
Orthopaedics	-	-	-	-	4	4	2	10
Ophthalmology	-	-	-	4	4	-	-	08
E.N.T.	-	-	-	4	4	-	-	08
O.B.G. including Family Planning	2	4	4	4	-	4	6	24
Community Medicine	4	4	-	-	4	-	-	12
Casualty	-	-	2	-	-	-	-	02
Dental	-	-	2	-	-	-	-	02
TOTAL	18	20	20	20	20	20	24	142

MORNING CLINICAL POSTING SCHEDULE FOR SECOND and FINAL MBBS STUDENTS

Third Semester

From Date	To Date	A	B	C
01/08/2011	15/08/2011	MED	SUR	FPL
16/08/2011	15/09/2011	MED	SUR	COM
16/09/2011	15/10/2011	SUR	COM	MED
16/10/2011	31/10/2011	SUR	FPL	MED
01/11/2011	30/11/2011	COM	MED	SUR
01/12/2011	15/12/2011	FPL	MED	SUR
	COM - Community Medicine			
	FPL - Family Planning			
	MED - Medicine			
	SUR - Surgery			

Fourth Semester

From Date	To Date	A1	A2	B1	B2
08/01/2012	07/02/2012	MED	SUR	OBG	COM
08/02/2012	07/03/2012	SUR	OBG	COM	MED
08/03/2012	07/04/2012	OBG	COM	MED	SUR
08/04/2012	07/05/2012	COM	MED	SUR	OBG
08/05/2012	22/05/2012	SUR	SUR	MED	MED
23/05/2012	07/06/2012	MED	MED	SUR	SUR

COM - Community Medicine
 MED - Medicine
 OBG - OBG
 SUR - Surgery

Fifth Semester

From Date	To Date	A1	A2	B1	B2	C1	C2	D1	D2	E1	E2
08/06/2012	22/06/2012	DRM	DRM	PSY	PSY	OBG	OBG	PLM	RD	CAS	DEN
23/06/2012	07/07/2012	DRM	DRM	PSY	PSY	OBG	OBG	RD	PLM	DEN	CAS
08/07/2012	22/07/2012	PSY	PSY	OBG	OBG	PLM	RD	CAS	DEN	DRM	DRM
23/07/2012	07/08/2012	PSY	PSY	OBG	OBG	RD	PLM	DEN	CAS	DRM	DRM
08/08/2012	22/08/2012	OBG	OBG	PLM	RD	CAS	DEN	DRM	DRM	PSY	PSY
23/08/2012	07/09/2012	OBG	OBG	RD	PLM	DEN	CAS	DRM	DRM	PSY	PSY
08/09/2012	22/09/2012	PLM	RD	CAS	DEN	DRM	DRM	PSY	PSY	OBG	OBG
23/09/2012	07/10/2012	RD	PLM	DEN	CAS	DRM	DRM	PSY	PSY	OBG	OBG
08/10/2012	22/10/2012	CAS	DEN	DRM	DRM	PSY	PSY	OBG	OBG	PLM	RD
23/10/2012	07/11/2012	DEN	CAS	DRM	DRM	PSY	PSY	OBG	OBG	RD	PLM

CAS – Casualty
 DEN - Dental
 DRM - Dermatology
 OBG - OBG
 PLM - Pulmonary Medicine
 PSY - Psychiatry
 RD- Radio Diagnosis

Sixth Semester

From Date	To Date	A	B	C	D	E
16/01/2013	15/02/2013	MED	SUR	OPH	ENT	OBG
16/02/2013	15/03/2013	SUR	OPH	ENT	OBG	MED
16/03/2013	15/04/2013	OPH	ENT	OBG	MED	SUR
16/04/2013	15/05/2013	ENT	OBG	MED	SUR	OPH
16/05/2013	15/06/2013	OBG	MED	SUR	OPH	ENT

ENT - ENT
 MED - Medicine
 OBG - OBG
 OPH - Ophthalmology
 SUR - Surgery

Seventh Semester

From Date	To Date	A	B	C	D	E
16/06/2013	15/07/2013	ENT	PED	ORT	COM	OPH
16/07/2013	15/08/2013	PED	ORT	COM	OPH	ENT
16/08/2013	15/09/2013	ORT	COM	OPH	ENT	PED
16/09/2013	15/10/2013	COM	OPH	ENT	PED	ORT
16/10/2013	15/11/2013	OPH	ENT	PED	ORT	COM

COM - Community Medicine

ENT - ENT

OPH - Ophthalmology

ORT - Orthopaedics

PED - Paediatrics

Eighth Semester

From Date	To Date	A	B	C	D	E
22/01/2014	21/02/2014	ORT	OBG	PED	MED	SUR
22/02/2014	21/03/2014	OBG	PED	MED	SUR	ORT
22/03/2014	21/04/2014	PED	MED	SUR	ORT	OBG
22/04/2014	21/05/2014	MED	SUR	ORT	OBG	PED
22/05/2014	21/06/2014	SUR	ORT	OBG	PED	MED

MED - Medicine

OBG - OBG

ORT - Orthopaedics

PED - Paediatrics

SUR - Surgery

Ninth Semester

From Date	To Date	A	B	C	D
22/06/2014	21/07/2014	MED	SUR	OBG	PED
22/07/2014	21/08/2014	SUR	OBG	PED	MED
22/08/2014	21/09/2014	OBG	PED	MED	SUR
22/09/2014	21/10/2014	PED	MED	SUR	OBG
22/10/2014	06/11/2014	SUR	OBG	ORT	MED
07/11/2014	21/11/2014	OBG	ORT	MED	SUR
22/11/2014	06/12/2014	ORT	MED	SUR	OBG
07/12/2014	21/12/2014	MED	SUR	OBG	ORT

MED - Medicine

OBG - OBG

ORT - Orthopaedics

PED - Paediatrics

SUR - Surgery

**AFTERNOON CLINICAL POSTINGS SCHEDULE
FOR Sixth, Eighth and Ninth SEMESTERS**

December 15, 2011

AFTERNOON POSTINGS IN CLINICAL SPECIALITIES FOR FINAL MBBS (VI SEMESTER) FROM 16.1.2012 TO 31.5.2012, TUESDAY TO SATURDAY BETWEEN 3 and 5 PM						
PERIOD	BATCHES					
FROM TO	A	B	C	D	E	F
16.01.2012 – 07.02.2012	RT	NMD	PHY	*OCC/ SPEECH	ENT	OPH
08.02.2012 – 28.02.2012	NMD	PHY	*OCC/ SPEECH	ENT	OPH	RT
01.03.2012 – 22.03.2012	PHY	*OCC/ SPEECH	ENT	OPH	RT	NMD
23.03.2012 – 15.04.2012	*OCC/ SPEECH	ENT	OPH	RT	NMD	PHY
16.04.2012 – 07.05.2012	ENT	OPH	RT	NMD	PHY	*OCC/ SPEECH
08.05.2012 – 31.05.2012	OPH	RT	NMD	PHY	*OCC/ SPEECH	ENT
ENT –E.N.T. NMD –NUCLEAR MEDICINE OCC –OCCUPATIONAL THERAPY SPEECH - SPEECH and HEARING			OPH – OPHTHALMOLOGY PHY –PHYSIOTHERAPY RT-RADIOTHERAPY			
*OCC/SPEECH: First half OCC and Second half SPEECH						
NOTE: Attendance in these departments will be counted under clinical postings.						

December 16, 2011

CLINICAL/TUTORIAL POSTINGS FOR FINAL MBBS (VIII SEMESTER) STUDENTS FROM 22.01.2012 TO 06.6.2012 (3.00 pm to 5.00 pm)										
PERIOD	BATCHES									
FROM TO	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5
22.01.2012 – 15.02.2012 Monday to Thursday	Med	Med	Med	Med	---	Surg	Surg	Surg	Surg	---
Friday and Saturday	---	---	---	---	Ped	---	---	---	---	---
Mon, Tue, Fri and Saturday	---	---	---	---	---	---	---	---	---	OBG

16.02.2012 – 07.03.2012 Monday to Thursday	Med	Med	---	---	Med	Surg	Surg	---	---	Surg
Friday and Saturday	---	---	Ped	Ped	---	---	---	---	---	---
Mon, Tue, Fri and Saturday	---	---	---	---	---	---	---	OBG	OBG	---
08.03.2012 – 31.03.2012 Monday to Thursday	---	---	Med	Med	Med	---	---	Surg	Surg	Surg
Friday and Saturday	Ped	Ped	---	---	---	---	---	---	---	---
Mon, Tue, Fri and Saturday	---	---	---	---	---	OBG	OBG	---	---	---
01.04.2012 – 21.04.2012 Monday to Thursday	Surg	Surg	Surg	Surg	---	Med	Med	Med	Med	---
Friday and Saturday	---	---	---	---	---	---	---	---	---	Ped
Mon, Tue, Fri and Saturday	---	---	---	---	OBG	---	---	---	---	---
22.04.2012 – 15.05.2012 Monday to Thursday	Surg	Surg	---	---	Surg	Med	Med	---	---	Med
Friday and Saturday	---	---	---	---	---	---	---	Ped	Ped	---
Mon, Tue, Fri and Saturday	---	---	OBG	OBG	---	---	---	---	---	---
16.05.2012 – 06.06.2012 Monday to Thursday	---	---	Surg	Surg	Surg	---	---	Med	Med	Med
Friday and Saturday	---	---	---	---	---	Ped	Ped	---	---	---
Mon, Tue, Fri and Saturday	OBG	OBG	---	---	---	---	---	---	---	---

May18 , 2012

CLINICAL/TUTORIAL POSTINGS FOR FINAL MBBS										
(IX SEMESTER) STUDENTS FROM 22.06.2012 TO 21.11.2012										
(3.00 pm to 5.00 pm)										
PERIOD	BATCHES									
FROM TO	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5
22.06.2012 – 17.07.2012 Monday to Thursday	Med	Med	Med	Med	---	Surg	Surg	Surg	Surg	---
Friday and Saturday	---	---	---	---	Ped	---	---	---	---	---
Mon, Tue, Fri and Saturday	---	---	---	---	---	---	---	---	---	OBG
18.07.2012 – 11.08.2012 Monday to Thursday	Med	Med	---	---	Med	Surg	Surg	---	---	Surg
Friday and Saturday	---	---	Ped	Ped	---	---	---	---	---	---
Mon, Tue, Fri and Saturday	---	---	---	---	---	---	---	OBG	OBG	---
12.08.2012 – 05.09.2012 Monday to Thursday	---	---	Med	Med	Med	---	---	Surg	Surg	Surg
Friday and Saturday	Ped	Ped	---	---	---	---	---	---	---	---
Mon, Tue, Fri and Saturday	---	---	---	---	---	OBG	OBG	---	---	---
06.09.2012 – 30.09.2012 Monday to Thursday	Surg	Surg	Surg	Surg	---	Med	Med	Med	Med	---
Friday and Saturday	---	---	---	---	---	---	---	---	---	Ped
Mon, Tue, Fri and Saturday	---	---	---	---	OBG	---	---	---	---	---
01.10.2012 – 26.10.2012 Monday to Thursday	Surg	Surg	---	---	Surg	Med	Med	---	---	Med
Friday and Saturday	---	---	---	---	---	---	---	Ped	Ped	---
Mon, Tue, Fri and Saturday	---	---	OBG	OBG	---	---	---	---	---	---

27.10.2012 – 21.11.2012 Monday to Thursday	---	---	Surg	Surg	Surg	---	---	Med	Med	Med
Friday and Saturday	---	---	---	---	---	Ped	Ped	---	---	---
Mon, Tue, Fri and Saturday	OBG	OBG	---	---	---	---	---	---	---	---

- b.** Details of student Case sheets: Students posted in wards have to work at least 1 case daily. At the end of postings minimum of 25 case sheets to be written.
- c.** Corrected case-sheets: by whom?: Case sheets of each day are corrected by teaching staff (Professor/Associate Professor/Assistant Professor) who takes clinical teaching that day.
- d.** Periodic assessment of clinical acumen: frequency, modalities and review: Students are assessed continuously during training; during each presentation students are assessed by a faculty member. The students are given feedback at the end of every bedside clinic session. End of postings examinations are conducted in all departments by attending faculty members. The teaching faculty member keeps track of students' performance and gives regular feedback to the departmental head.
- e.** Clinico-pathological conferences: Junior residents are encouraged to attend review care meetings. Departmental teaching programme for Post graduates include CPC.
- f.** Frequency and details of student participation: Review care meeting is held on last working day of every month. CPC are regularly held each month in departments as part of teaching programmes.
- g.** Details of postgraduate grand rounds: Unit head/Professor will hold grand round every week after admission day.
- h.** Sub-specialty training facilities for UGs and PGs: Kasturba Hospital, Manipal has all the major sub-specialties in Medicine and Surgery. The students who are posted to Medicine and Surgery units are rotated in all the respective sub-specialties.

ANNEXURE 2.6 b

Timetable for all batches in Melaka Campus (MBBS)**1. BATCH 24 (Year 5 Sem 10) timetable.****a. As this batch is in Year 5, they have Clinical Postings only**

MELAKA-MANIPAL MEDICAL COLLEGE				
TIMETABLE FOR SEMESTER 9 & 10, BATCH 24				
SENIOR CLERKSHIP				
Day / Time	8.00 am - 12.30 pm		2.00 pm - 5.00 pm	
Monday	Ward Rounds /Clinics / Tutorials/ Ward Work		PBL / Tutorial/ Ward Work	
Tuesday	Ward Rounds /Clinics / Tutorials/ Ward Work		Tutorial/ Ward Work	
Wednesday	Ward Rounds /Clinics / Tutorials/ Ward Work		Common Programme / SDL / E-Learning	
Thursday	Ward Rounds /Clinics / Tutorials/ Ward Work		PBL / Tutorial/ Ward Work / *	
Friday	Ward Rounds /Clinics / Tutorials/ Ward Work		PBL / Tutorial/ Ward Work	
				5.00 pm - 11.00 pm : Night Duty as required
	* Radiology Program: (4.00 pm - 5.00 pm)			

2. BATCH 25 (yr 5 Sem 9) timetable.**a. As this batch is in Year 5, they have Clinical Postings only**

TIMETABLE FOR SEMESTER 9 & 10, BATCH 25				
SENIOR CLERKSHIP				
Day / Time	8.00 am - 12.30 pm		2.00 pm - 5.00 pm	
Monday	Ward Rounds /Clinics / Tutorials/ Ward Work		PBL / Tutorial/ Ward Work	
Tuesday	Ward Rounds /Clinics / Tutorials/ Ward Work		Tutorial/ Ward Work	
Wednesday	Ward Rounds /Clinics / Tutorials/ Ward Work		Common Programme / SDL / E-Learning	
Thursday	Ward Rounds /Clinics / Tutorials/ Ward Work		PBL / Tutorial/ Ward Work / *	
Friday	Ward Rounds /Clinics / Tutorials/ Ward Work		PBL / Tutorial/ Ward Work	
				5.00 pm - 11.00 pm : Night Duty as required
	* Radiology Program: (4.00 pm - 5.00 pm)			

3. Batch 26 – (Year 4 Sem 8)**a. Timetable**

Day / Time	8.00 am - 12.30 pm				2.00 pm - 5.00 pm		
	8.00 am - 9.00 am	9.00 am - 10.00 am	10.30 am - 11.30 am	11.30 am - 12.30 pm	2.00 pm - 3.00 pm	3.00 pm - 4.00 pm	4.00 pm - 5.00 pm
Monday	Medicine	Orthopaedics	O&G	Psychiatry/ SDL/E-Learning/ Med. Ethics	Comm.Medicine	Paediatrics/ SDL/E-Learning/ Med. Ethics	Surgery**
	(Class Room 6, 8th Floor, Acad. Block II)	(Class Room 6, 8th Floor, Acad. Block II)	(Class Room 6, 8th Floor, Acad. Block II)	(Class Room 6, 8th Floor, Acad. Block II)	(Class Room 6, 8th Floor, Acad. Block II)	(Class Room 6, 8th Floor, Acad. Block II)	(Class Room 6, 8th Floor, Acad. Block II)
	Clinics				Clinics/PBL/Tutorial		
Tuesday	Clinics				Clinics/PBL/Tutorial		
Wednesday	Clinics				Clinics/PBL/Tutorial	5.30 pm - 7.30 pm	
						MQA	
						(Lecture Theatre 2)	
Thursday	Clinics				Clinics/PBL/Tutorial		
Friday	Clinics				Clinics/PBL/Tutorial		

b. Number of didactic lectures: **Batch 24: None,**
Batch 25: None
Batch 26: 9.5 hours per week

c. Number of students in each class: **Batch 24: 104**
Batch 25: 149
Batch 26: 131

ANNEXURE 2.7

GENERAL BENEFITS/ WELFARE		
#	Benefits to employees	Particulars
1	Conference Facilities	<p>Details To provide more opportunities to project Manipal University through more participation and scientific presentations in professional conferences</p> <p>Who is Eligible All faculty members at the rank of Lecturer and above</p> <p>Particulars Financial assistance of up to Rs 50,000 per year</p> <p>Additional Remarks Faculty members below the rank of Professor/additional professors must present a paper/poster in the conference and must carry the name of Manipal University along with the name of the author, Department and Institution</p>
2	Incentive Awards for Faculty Research and Scientific Publications	<p>Details To recognize research contribution of faculty members and research scientists and also to increase quantum of research and quality of research, Manipal University has brought in this scheme.</p> <p>Who is Eligible –All permanent faculty members and research scientists of Manipal University institutions. – Faculty members must upload the research papers in the digital repository (e-Prints) of Manipal University</p> <p>Details – Cash incentive of Rs 24000 for 24 points or – Economy airfare and registration fee for an international conference as per the provisions in the policy</p> <p>Additional Remarks – Points are as per the provisions in the policy – Faculty members/research scientists who opt for international conference do not receive the cash award</p>
3	Proportion of grant paid to faculty members as	<p>Award and distribution of Research Incentives</p> <p>(i) Research Incentive will be five per cent of the allocable amount if the institutional overheads are less than 10per cent of the project cost and 10 per cent if the overheads are 10 per cent or more of the project cost.</p>

	incentive for attracting external funding Award	<p>Research grants with no overheads are eligible for five per cent incentive. However, researchers are encouraged to include institutional overheads in the grant budgets.</p> <p>(ii) Principal Investigator will be entitled for 70 per cent of the Incentive while the remaining 30per cent shall be equally distributed among the co-investigators.</p> <p>(iii) The maximum limit for any faculty shall be Rs 15 lakh per year. The amount will be payable over the period of the grant.</p> <p>(iv) There will be only one Principal Investigator and faculty members assisting the Principal Investigator with any other title/s will be treated as Co- Investigators for the purpose of calculation of the Incentive.</p> <p>(v) If there is no Principal Investigator, the Incentive shall be shared equally among the co-investigators.</p> <p>(vi) Principal and Co-Investigators from outside University institutions will not be eligible for the incentive.</p>
4	Dr. T M A Pai Gold Medal for outstanding research	<p>a. Dr. TMA Pai Centennial Gold Medal for Outstanding Research is presented for the best research work done by any of the faculty members during the year.</p> <p>b. A panel constituted by the Vice-Chancellor will select the award winner.</p> <p>c. The recipient of the awards will be presented with a gold medal and a citation and also a cash award of Rs.5000/-</p> <p>d. The awards/prizes other than cash awards for articles and research papers will be presented in conjunction with the University's convocation ceremony or on the college graduation day or at any other function of University.</p>
5	Good Teacher Award	<p>Who is Eligible</p> <p>One good teacher for every 30 teachers per year in an Institution will be evaluated by at least 75 per cent of the students of the class and the teacher should get rank I, II or III by a minimum of 25 per cent of the students who have participated in the teacher evaluation programme</p> <p>Details</p> <p>Award of Rs. 5000/- along with a plaque and a certificate</p> <p>Additional Remarks</p> <p>Teachers who get Good Teacher Award will be "ineligible" to receive the award for one year.</p>

6	Dr. TMA Pai Endowment Chairs	<p>Detail Purpose of this is to attract recognise and retain scholars who are acknowledged by their peers as being eminent in their fields.</p> <p>Additional Remarks: -Chairs will have enough academic freedom to pursue research work, teaching and other innovative programs - Selection committee will fix a quantum of financial incentive to be paid to the chair (up to Rs 10 lakhs per annum)</p>
7	Subscription to Professional Society	<p>Who is Eligible Faculty members at the level of Professors/Additional professors and as per terms of employment of employees engaged under Management engagement policy</p> <p>Details Rs. 2000 per year (restricted to one professional society in India)</p> <p>Additional Remarks The amount allowable for a membership fee to a society abroad will be the actual amount in Indian Rupees or Rs. 2000 whichever is less</p>
8	Seed Money	<p>Details: This has been introduced to promote research among young faculty members and to encourage in attracting research fund</p> <p>Who is Eligible Faculties up to the cadre of Associate Professor with age limit of 45 years</p> <p>Amount Applicable: Rs. 25000 to be provided for project to be spent on specifies project activities</p>
9	Interest Subsidy on Utility/housing Loan	<p>Details Manipal University provides for subsidy in interest on housing/utility loan to its faculty members in order to assist them in purchase of House property/ construction of house/purchase of vehicles/professional equipment /household appliances</p> <p>Who is Eligible Assistant Professors with two years of service</p> <p>What is our contribution Interest subsidy at 4 per cent will be calculated on the eligible amount of loan limit of up to a maximum limit of Rs. 5,00,000/-</p>

		<p>Who is Eligible Associate Professors with two years of service</p> <p>What is our contribution Interest subsidy at 4per cent will be calculated on the eligible amount of loan limit of up to a maximum limit of Rs. 7,50,000/-</p>
		<p>Who is Eligible Additional Professors and above with at least one year of service</p> <p>What is our contribution Interest subsidy at 4per cent will be calculated on the eligible amount of loan up to a maximum limit of up to Rs. 10,00,000/-</p>
10	Reimbursement of tuition fee of employees towards higher education from SMUDE	<p>Details Higher education policy has been introduced to assist the employees to obtain higher education which would enable them to function efficiently and effectively.</p> <p>Who is eligible All regular confirmed employees of Manipal University and its constituent institutions</p> <p>Amount of reimbursement 50 percent of the tuition fee paid by employees</p>
11	School Fees Reimbursement for Children studying in schools/college under Manipal Group	<p>Details This policy provides reimbursement of children's educational expenses. Reimbursement is permitted up to standard XII or its equivalent course of study in a college. The privilege of reimbursement is restricted to two children subject to terms and conditions.</p> <p>Who is Eligible All regular employees of Manipal University, its constituent institutions and associated hospitals.</p> <p>What is our contribution</p> <ul style="list-style-type: none"> - For students studying in standard up to X: 75 per cent of the tuition fees, maintenance fee and development fee subject to the ceiling of Rs. 7,500 per annum - For students studying in Standard XI - XII - reimbursement of Tuition fee, maintenance fee and development fee subject to the ceiling of Rs. 2,500 per annum -Not applicable for children who are repeaters (failed students)

12	Scholarship arrangement for Children/Spouse's Higher education under MU Institutions	<p>Details</p> <p>This policy provides award of scholarship for employees' children and/or spouse on the regular rolls of Manipal University studying/enrolling in various courses viz., certificate/diploma/degree/postgraduate at Manipal University</p> <p>Requests for receiving scholarship from Manipal Foundation for higher education courses in Manipal University institutions will be accepted from the employees' children and/or spouse and forwarded to the Foundation for disbursement in eligible cases</p> <p>Who is Eligible</p> <p>–All employees who are on regular rolls for at least three years at the time of admission</p> <p>What is our contribution</p> <p>If,</p> <table border="1"> <thead> <tr> <th>#</th> <th>Total Family Income</th> <th>Tuition fee Scholarship</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Up to 3 lakhs</td> <td>100%*</td> </tr> <tr> <td>2.</td> <td>Above 3 lakhs to 5 lakhs</td> <td>90%</td> </tr> <tr> <td>3.</td> <td>Above 5 lakhs to 7.5 lakhs</td> <td>75%</td> </tr> <tr> <td>4.</td> <td>Above 7.5 lakhs to 10 lakhs</td> <td>50%</td> </tr> <tr> <td>5.</td> <td>Above Rs 10 lakhs to 12.5 lakhs</td> <td>25%</td> </tr> <tr> <td>6.</td> <td>Above 12.5 lakhs</td> <td>10%</td> </tr> </tbody> </table> <p>* Candidates need to pay a nominal amount of 5% of course fee or 5% of family income whichever is minimum</p> <p>Additional Remarks</p> <p>Students who have secured admissions up to 2010 - 2011 are eligible for 50 per cent scholarship on tuition fee</p>	#	Total Family Income	Tuition fee Scholarship	1.	Up to 3 lakhs	100%*	2.	Above 3 lakhs to 5 lakhs	90%	3.	Above 5 lakhs to 7.5 lakhs	75%	4.	Above 7.5 lakhs to 10 lakhs	50%	5.	Above Rs 10 lakhs to 12.5 lakhs	25%	6.	Above 12.5 lakhs	10%
#	Total Family Income	Tuition fee Scholarship																					
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6.	Above 12.5 lakhs	10%																					
13	Earned Leave Encashment	<p>Who is Eligible</p> <p>All confirmed employees of Manipal University, its constituent institutions and associated hospitals</p> <p>What is our contribution</p> <p>Automated leave encashment every year in excess of 120 days (maximum accumulation limit)</p> <p>Pay components for Encashment:</p> <p>For teaching staff: Basic + Academic grade pay</p> <p>For Management staff: Basic Pay</p> <p>For non-teaching staff: All pay components except HRA</p>																					

14	Sodexo Coupons in lieu of Variable Allowance	<p>Details Provision for tax benefit</p> <hr/> <p>Who is Eligible All employees of Manipal University, its constituent colleges and associated hospitals who are eligible to opt for Sodexo coupons in lieu of equivalent variable pay for tax benefits.</p> <p>Details Rs. 500/1000/1300 per month (Meal vouchers) Rs. 2000/3000/5000 per annum (gift vouchers)</p>
15	Institutional Accommodation subject to availability (rental charges to be borne by the employee)	<p>Who is Eligible All faculty members of Manipal University and its constituent institutions</p> <p>Details Accommodation provided on subsidized rates as per the provisions</p> <p>Additional Remarks Staff member who is in possession of own housing within a radius of seven kilo meters from the campus is not eligible for allotment</p>
16	Valley Club Facility	<p>Details Facilities like swimming pool, dining etc.</p> <hr/> <p>Who is Eligible Officials and Faculty members at the level of Assistant Professors and above along with their family</p> <p>What is our contribution Rs. 500 per month of Membership fee + service tax</p> <p>What does the employee have to Contribute Rs. 250 per month of Membership fee + service tax</p> <p>Additional Remarks Concession in the food bills</p>
17	Recreational and sports Facility (MARENA)	<p>Details To provide for excellent recreational facility and to ensure wellness and health of its employees, Manipal University has constructed a Recreational and Sports Facility: MARENA in Manipal and Mangalore (with facilities like gymnasium, jogging track, basketball court, cricket, football, simulated games, badminton court, squash court, steam and sauna etc.)</p> <hr/> <p>Who is Eligible All faculty, staff and students of Manipal University and its constituent institutions</p> <p>Details</p>

		<p>- Concessional Membership fee as per norms (presently Rs.6000 per annum for faculty and staff)</p> <p>- Provisions made to enroll family members (dependents) also with additional premium of Rs. 3000 per annum per dependents.</p>
18	CUG plan (AIRTEL)	<p>Details Provides for reimbursement of cell phone bills of all Heads of Institutions and officials of Manipal University</p> <p>Who is Eligible All Heads of Institutions and officials of Manipal University</p>
19	Laptop for faculty members	<p>Who is Eligible Faculty members at the rank of Lecturer and Above are provided with laptops during their tenure at Manipal University</p>
20	Internet Data Card	<p>Details Heads of Institutions are provided with data card for easy and quick access to internet facility</p> <p>Who is Eligible All HoI's of Manipal University</p>
21	Blackberry Connection	<p>Who is Eligible: Top Management officials and Heads of Institutions of KMC, (Manipal and Mangalore) and MIT, Manipal</p>
22	Leave Travel Concession	<p>Who is Eligible Faculty members at the rank of Assistant Professor - Senior Scale / Senior Scale Lecturer and Above</p> <p>Details One month's basic salary per year</p> <p>Additional Remarks While claiming LTC, copy of the Travel ticket should be produced for tax benefits.</p>
LEAVE RULES		
#	Benefits to employees	Particulars
1	Casual Leave	<p>Details 12 days of casual leave during the calendar year</p>
2	Compensatory Leave	<p>Details 13 days of compensatory leave in a calendar year</p>
3	Commuted Leave	<p>Details 5 days of commuted leave for every completed year</p>

4	Earned Leave	Details 24 days per annum (calculated on monthly basis @ 2 per month)
5	Vacation Leave	Details Any period of the institutional recess which exceeds 15 days in duration shall be treated as vacation. Faculties in vacation department may avail vacation leave in lieu of earned leave / paid leave
6	Maternity Leave	Details As per the provisions of Maternity Act 1961 Who is Eligible Every married women employee whether permanent or otherwise is entitled to maternity benefits provided she has worked for a period of not less than 80 days in twelve months immediately preceding the date of her expected delivery. Particulars - 90 days of maternity leave with pay - Maternity leave is restricted for two living children
7	Special Casual Leave	Who is Eligible Special Casual Leave not exceeding 15 days in a calendar year may be granted to all faculty members of Manipal University and its constituent institutions at the level of assistant lectures and above Details - To attend conferences/workshops/seminars - Examination related duties in other universities - Attend out station inspection duties and any other work assigned by the regulatory / accrediting bodies - to attend academic work related to higher studies
8	Special Leave	This leave available to employees to undergo sterilization. For Female employees: – Leave 14 days including intervening Sundays and holidays for Female employees for self-sterilisation For Male employees: – Leave for 6 working days for male employees for self-sterilisation - Leave for 7 days including Sundays and holidays for spouse sterilisation.
9	Study Leave: a. Short Term Fellowship Leave	Details Short Term Fellowship leave is to be used for visits to academic centers for clinical research or teaching activities. This facility may be extended to other institutions if it is geographically and financially feasible.

		<p>Who is Eligible</p> <p>Faculty members who have completed minimum of three years of service in any institutions under Manipal University</p> <p>Particulars</p> <p>Leave at credit will be utilized for this purpose maximum of three months as per the provisions</p>
10	<p>Study Leave:</p> <p>b. Long Term Fellowship Leave</p>	<p>Details</p> <p>Long Term Fellowship leave is to be utilized for obtaining advanced training, in specialized areas, which may or may not lead to a degree or diploma.</p>
		<p>Who is Eligible</p> <p>Faculty Members who have completed a minimum of five years of service in any institutions under Manipal University</p> <p>Details</p> <ul style="list-style-type: none"> - Two years of leave may be sanctioned as per the provisions - No pay / financial support during the leave period - Faculty availing Long term fellowship leave should execute two years of service bond for every year of leave. - Require to render bank guarantee for an amount of one month salary.
11	<p>Sabbatical Leave</p>	<p>Details</p> <p>Sabbatical Leave is to be utilized for the purpose of engaging in academic and or professional pursuit at an institutions of outstanding academic merits</p>
		<p>Who is Eligible</p> <p>Only confirmed faculty members at the level of associate professors and above</p> <p>Details</p> <ul style="list-style-type: none"> -One year leave for 10 years of service in any of the constituent Institutions. In special cases 2 years of leave for 15 years of service. -Basic pay and academic grade pay will be paid during this leave period - This leave period will be considered for seniority - Faculty availing this leave should execute service bond for double the duration of leave. - Require to render bank guarantee for an amount of one month salary.
12	<p>Overseas Assignment Leave</p>	<p>Details</p> <p>Overseas Assignment Leave shall be utilized for the purpose of an employment in any of the Manipal Group Institutions/ Organizations across the World</p>

		<p>Who is Eligible All faculty members of Manipal University and its constituent institutions</p> <p>Details -Leave period will be counted for seniority and considered for promotions -No Pay / allowances will be admissible during this leave - There will not be any service agreement attached to this leave</p>
13	Duty Leave	<p>Details Duty Leave may be granted to the teaching employees of the University and its constituent institutions to attend official duties on deputation from the University/Institution (or) to attend submission/presentation of research proposal/progress report/final report with external funding agencies (or) to attend meetings organized by the regulatory bodies in connection with the academic matters.</p>
SOCIAL SECURITY		
#	Benefits to employees	Particulars
1	Medicare Facility	<p>Details This policy provides hospital-based prepaid plan offered by Manipal University through its network of associated hospitals. It is instituted primarily for the benefit of the employees and employee's dependents. The prepaid health plan assists in extending medical facilities for both In Patient and Out Patient for the entire family, subject to limits pre-specified.</p> <p>Who is Eligible All employees of Manipal University, its constituent colleges and associated hospitals</p> <p>What is our contribution 50 per cent of the premium of employee, his / her spouse and two children up to the age of 24</p> <p>What does the employee have to Contribute 50 per cent of the premium</p> <p>Additional Remarks Dependent parents can also be covered by paying applicable extra premium in full</p>
2	Group Term Life Insurance	<p>Details To provide a coverage of social security in the event of an unfortunate demise of the employee: Coverage limit: Teaching staff: 50 lakhs Non-teaching staff: 10 lakhs</p>

		<p>Who is Eligible All employees of Manipal University, its constituent Institutions and associated hospitals</p> <p>What is our contribution - Teaching staff below the cadre of Lecturer : 80% of the premium - Teaching staff in the cadre of Lecturer and above : 50% of the premium - Non teaching staff – 80% of the premium</p> <p>What does the employee have to Contribute - Teaching staff below the cadre of Lecturer : 20% of the premium - Teaching staff in the cadre of Lecturer and above : 50% of the premium - Non teaching staff – 20% of the premium</p>
3	Group Personal Accident Insurance Scheme	<p>Details To provide coverage of social security in the event of a disablement due to accidents of the employee. 1. Permanent Disablement up to Rs. 10 Lakh each. 2. Permanent partial disability compensation is as per the provisions</p> <p>Who is Eligible All employees of Manipal University, its constituent Institutions and associated hospitals</p> <p>What is our contribution - Teaching staff below the cadre of Lecturer : 80% of the premium - Teaching staff in the cadre of Lecturer and above : 50% of the premium - Non teaching staff – 80% of the premium</p> <p>What does the employee have to Contribute - Teaching staff below the cadre of Lecturer : 80% of the premium - Teaching staff in the cadre of Lecturer and above : 50% of the premium - Non teaching staff – 80% of the premium</p>
4	Provident Fund Scheme Pension Fund Scheme EDLI Scheme	<p>Details To provide retirement benefits to employees as per the statutory provisions under the Employee’s Provident Fund and Miscellaneous Provisions Act 1952, any amendments from the government from time to time will be incorporated.</p> <p>Who is Eligible All employees of Manipal University, its constituent colleges and associated hospitals</p> <p>What is our contribution 12 per cent of the basic pay + Academic Grade Pay + Special Pay + Consolidated Pay</p> <p>What does the employee have to Contribute 12 per cent of the basic pay + Academic Grade Pay + Special Pay + Consolidated Pay</p> <p>Additional Remarks - Out of Management contribution 8.33 per cent of salary or Rs. 1250 whichever is less will be credited to pension scheme - In case of death of employee, the nominee will get Employee deposit linked insurance amount of Rs. 362000</p>

5	Gratuity	<p>Details To provide service benefits to employees as per the provisions of Payment of Gratuity Act 1972</p> <p>Who is Eligible All employees of Manipal University, its constituent colleges and associated hospitals who have completed five years of service</p> <p>What is our contribution 15 days basic salary per year for every completed year of service at the time of superannuation / resignation subject to completion of 5 years of service.</p> <p>What does the employee have to Contribute Not Applicable</p> <p>Additional Remarks Maximum Limit up to: 10 lakh</p>
6	Employees State Insurance Scheme (ESIS)	<p>Details A comprehensive Social Security Scheme designed to protect the employees in the organized sector against the event of sickness, maternity, disablement and death due to injury and to provide medical care to the insured employees and their family. As per the provisions of Employee State Insurance Act 1948</p> <p>Who is Eligible All employees of Manipal University, its constituent colleges and associated hospitals, with a gross salary of less than Rs. 15001</p> <p>What is our contribution 4.75 per cent of the Gross Salary is paid as contribution towards ESI</p> <p>What does the employee have to Contribute 1.75 per cent of the Gross Salary is paid as contribution towards ESI by the employee</p>

ANNEXURE 2.8a

Institution wise Faculty Achievement details (2011-2014)

#	College/ Dept	Name of the faculty	Awards / Recognition	Year
1	SOAHS	Ramesh S Ve	Gold Medal for Best innovation at the Innovators Competition for DST-Lockheed Martin India Innovation Growth Programme 2013. April 29- May 2 nd 2013, Federation of Indian Chambers of Commerce and Industry, New Delhi	2013
2			Indo-US Public Health Research Fellowship 2013. 6 month PublicHealth Research fellowship a supported by Indo-US Science and technology forum and Public Health Federation of India. Fellowship starts November 2013 at Dana Center for Preventive Ophthalmology; Wilmer Eye Institute, Johns Hopkins University, Baltimore	2013
3		Jyothi Thomas	“Australian Leadership Awards Fellowship” funded by Brien Holden Vision Institute Foundation, University of New South Wales, Sydney	2013
4		Dr. G Arun Maiya	UKIERI (UK-India Educational Research Initiative) travel grant by British Council in 2012. First Indian PT to get the grant	2012
5			Certified Clinical exercise specialist workshop and certification program of American College of Sports Medicine (ACSM) in Singapore 2011	2011
6		Mr. Manikandan	Third Prize for the innovative product titled ‘Reaction timer for assessing lower limb (leg) reaction time’ in the First Innovation Day event organized by Manipal University on December 2012	2012
7	SOAHS	Mr. Kalyan	Won best innovative idea for presenting the idea on Innovation day for the prototype presentation on Speech enabled chest vibrometer.	
8			Best idea award for the prototype on integrated respiratory apparatus	
9		Dr. B Rajashekhar	CARF & Prof. Bellur Rajashekhar Chair in Head & Neck Cancer Research and Voice Restoration at Manipal University,	
10			Laryngology and Voice Association (SLP) award	2013

11			Dr. Manoharan Oration award, TANISHA, Yercaud	
12			Acoustic Society of India Oration award	
13		Dr. UV Aithal	Alumni Award 2011, Alumni Association of U Kamala Bai High School, Kadiyali, Udupi)	2011
14		Dr. Shivani Tiwari	Received Travel grant/award from Science and Engineering Research Board (SERB), Department of Science and Technology, Government of India, to attend and present my research at the 51st Annual Meet of Academy of Aphasia held at Lucerne Switzerland during 19 - 23 October 2013	2013
15		Mr. Shovan Saha	Received “Professional Excellence Award” from All India Occupational therapist Association (AIOTA) at the 50 th Annual National Conference of AIOTA (OTICON 2013) as recognition of his outstanding contribution to occupational therapy and AIOTA	2013
16			selected as Hand therapy Educator by International Societies for hand Therapy. November 2012	2012
17			Certificate Course In Hand Splinting recognized as post graduate hand therapy education program by International Federation of Societies for Hand Therapy	
18		Dr. Sebestina Anita D’souza	awarded as a Winner of Best Scientific Paper for Kamala V. Nimbkar Trophy on the subject of “ Computer Related Injuries: Awareness & Health Behaviors in Computer Users ” in the 48 th Annual National Conference of AIOTA Organized by Tamil Nadu Branch of AIOTA at Anna Auditorium, Chepauk, Chennai, on 9 th , 10 th & 11 th of January 2011.	2011
19		Mrs. Vinita Acharya	Awarded the best entry in the contest “It happened in my classroom” organized in connection with teachers day celebration, 2013	2013
20		Saleena Ummer	Won best paper award for the platform presentation in the International Conference on Bioscience, Biochemistry and Bioinformatics, 2012 at Chennai in 2012	2012

21		Dr. Shivanand Bhushan	Prestigious award of MICNM (Member of Indian College of Nuclear Medicine) – An academic wing of Society of Nuclear Medicine for year 2012 . Award felicitation held during ICNM convocation on 13th Dec 2013 at Mumbai	2012	
22		Dr Fiddy Davis	Distinguished Service Award – Research by the Indian Association of Physiotherapists at the national conference 2015	2015	
23	SOLS	Prof K Satyamorthy	Honorary Professor, School of Chemistry and Molecular Biosciences, University of Queensland, Brisbane, Australia		
24			Erasmus Mundus Professor, France, EU – 2011 – 2014.	2011-14	
25			Dr. P.A.Kurup Memorial Endowment Award	2013	
26			Dr TMA Pai Endowment Chair in Translational Genome Science		
27		Prof PM Gopinath	GSF prize awarded by the Council for Radiation and Environmental Research, Germany		
28			Fellow, Alexander von Humboldt Foundation, Germany		
29			Expert in the SAP (Special Assistance Programme) of UGC, New Delhi. Guru Nanak Dev University, Amritsar		
30			Received Dr. L. D. Sanghvi Oration Award, given once in two years, by the Indian Society of Human Genetics		
31			Dr. Sanjiban Chakrabarty	Best Research Paper at Manipal Research Colloquium	2014
32			Dr. Manjunath Joshi	Best poster award: Indo-US symposium on “Mass spectrometry based metabolomics in disease biology” Trivandrum, India.	2014
33		Dr. Vidhu Sankar	Best Paper Presentation award at the National Symposium on Innovative and	2011	

		Babu	Modern Technologies for Agricultural Productivity, Food Security and Environmental Management held at Saffron Boutique Hotel, Mangalore, Karnataka during July 22-23, 2011 for the paper entitled “ <i>Spathoglottisplicata</i> - An orchid with superior decarboxylation efficiency”	
34			Best Oral Presentation Award in 8 th National Symposium “Noni for Sustainable Wellness” organized by International Society for Noni Science and World Noni Research Foundation held at GKVK Campus, University of Agricultural Sciences, Bangalore, Karnataka on October 29-30, 2013 for the paper entitled “Time Reliant Functional Assays substantiate Chemopreventive & Radioprotective prospective of <i>Morindacitrifolia</i> L. (Noni) Fruit Extract	2013
35			Fast Track Young Scientist Grant from Science and Engineering Research Board (SERB), Department of Science and Technology, Government of India- 2012-2015	2012 - 15
36		Dr. Shama Prasada K	International travel fellowship by DBT, Government of India to attend 10th Asia Pacific Conference on Human Genetics, Held at Kuala Lumpur, Malaysia, 5-8, December, 2012	2012
37			Certificate of appreciation for Young Investigator Award at 10th APCHG, December 5-8, 2012, Kuala Lumpur, Malaysia	2012
38		Dr. Bobby Paul	Received best paper award in International Conference on Computational Methods in Engineering and Health Sciences, Organized by the Director research, Manipal University, 17-19 December, 2014	2014
39		Mr. Sandeep Mallya	Won the 3 rd prize in the poster competition in the Indo-US Bilateral Workshops & Conferences on "Big Data Analysis and Translation in Disease Biology" held at New Delhi during January 18-22, 2015	2015
40	STATIS TICS	Dr. N. Sreekumaran Nair	T.M.A Pai endowment chair for systematic review evidence in public health for the second consecutive year	

41		Dr. Shreemathi S Mayya	Awarded Presented a paper entitled 'Publications of dissertations: Quality, Quantity and the Associated Factors' during the 2nd International Conference of Higher Education Research on February 25-26, 2014 at the Ritz-Carlton, Kuala Lumpur, Malaysia and received best paper award	2014
42	Public Health department	Ms. Shammy Shiri	a best paper award in an International Conference at Indonesia	2012
43		Ms Shammy Shiri	a best presenter award in an International Conference at Phuket Thailand.	2014
44		Dr. Sanjay M. Pattanshetty	Executive Board Member- Asian Health Literacy Association, Geneva office.	2014
45	Manipal College of Nursing, Manipal	Dr. Anice George	International institute of education and management New Delhi Awarded the Glory of Excellence award for outstanding achievement in the field of Education on March 2015	2015
46			Maximum publication award 2014 by Manipal College of Nursing Manipal	2014
47			Best Poster Award National Conference on Redesigning Clinical Teaching – Role of a Clinical Teacher organized by MIMS College of Nursing, Calicut during January 4-5, 2011, Topic: Care Plan concept Map: An innovative strategy for clinical teaching to improve critical thinking.	2011
48			Best Poster Award National Conference on Redesigning Clinical Teaching – Role of a Clinical Teacher organized by MIMS College of Nursing, Calicut during January 4-5, 2011., Topic: Clinical Teaching in a Teacher Student Practice Clinic. (Mr. Vishnu Renjith)	2011
49			Dr. Judith A Noronha	Distinguished alumni Award, Fr. Muller's College of Nursing, November 2012
50	Awarded best Poster First international patient safety conference was organized by Sultan Qaboos University Sultanate of Oman on 31 st January to 2 nd February 2011, Topic : Patient safety : A shared responsibility of patient care.	2011		

51		Mrs. Sonia R B Souza: Awarded Best Paper Presentation	Awarded Best Paper Presentation International conference on transcultural nursing organized by Manipal College of Nursing Manipal on 12/11/2011, Topic: An Explorative study on sociocultural taboos and misconceptions regarding food conceptions during pregnancy among tribal Women Karnataka	2011
52		Mrs. Jyothi R K	Stood first in the Scientific Paper Presentation competition International Conference on Transcultural Nursing organized by MCON, Manipal; Mangalore & Bangalore during November 09-11, 2011 held at SyndicateBank Golden Jubilee Auditorium, Manipal. Topic: Effectiveness of Pranayama on cancer related fatigue among breast cancer patients receiving radiotherapy.	2011
53		Mrs. Sheela Shetty	1. Best Paper Award International conference on Transcultural Nursing organized on 9-11 November 2011 by MCON Manipal Topic: Maternal beliefs and practices related to feeding and height status of children	2011
54		Dr. Erna Judith Roach	Awarded 1st Prize: Best Oral Presenter USM International Nursing Conference 2011 organized by Nursing Programme, School of Health Sciences, Health Campus, Universiti Sains Malaysia held during June 14-15, 2011, Topic: An evaluative study on quality life and impact of an educational package on childhood bronchial asthma for months of asthmatic children	2011
55		Mrs. Latha T	Best Paper Award in the National Conference. National Conference on 'Redesigning Clinical Teaching – Role of a Clinical	2011

			Teacher' organized by MIMS College of Nursing, Calicut held during January 4-5, 2011 at MIMS Hospital Auditorium, Calicut, Topic: Interpretive Evaluation in Nursing Education	
56			Secured 1st prize Dept. of Child Health Nursing, MCON, Manipal & Dept. of Paediatrics, KMC, Manipal jointly organized World Breastfeeding Week-2011 on August 03, 2011 at KH, Manipal. Theme: Talk to me: Breastfeeding-A 3D Experience., Topic: Talk to me: Breastfeeding-1 3D Experience.	2011
57		Ms. Preethy Jawahar	Best Paper Presentation International Conference on Transcultural Nursing organized by MCON, Manipal; Mangalore & Bangalore during November 09-11, 2011 held at SyndicateBank Golden Jubilee Auditorium, Manipal, Topic: Perception on death and dying among nursing students.	2011
58		Mr. Vishnu Renjith	Secured First Place in the event: Event Scientific Paper Presentation-Healthcon conducted by the Department of Nursing for the Inter-Collegiate event 'Gardenia Bat & Bol-2011 held on March 24, 2011 at Garden City College, Bangalore, Topic: Bio-psychosocial wellbeing of elderly	2011
59			Best Poster Award. National Conference on Redesigning Clinical Teaching – Role of a Clinical Teacher organized by MIMS College of Nursing, Calicut during January 4-5, 2011, Topic: Care Plan concept Mapping.	2011
60		Mrs. Leena Sequira	Secured third prize for the paper presentation on “a survey on risk assessment of renal failure among	2014

			hypertensive and diabetics in udupi district, India at 2 nd USM international Nursing Conference was organized on 17 th & 18 th August 2014, organized by Nursing programme school of health sciences health campus, USM.Malaysia	
61			Secured First prize for the paper presentation on “A study to assess the reference range of estimated Glomerular Filtration Rate (eGFR) in Healthy South Indian Males –and identify clients with Chronic Renal Failure (stage I and above) with hypertension and diabetes or both - A pilot study” at Epidemiology of chronic diseases –nursing research perspective was organized on Oct 25th - 27th 2013 by Nursing Research Society of India and Manikala Topawala Institute of Nursing. Gujarat	2013
62			Best Paper on : Nurses role in taking care of a client undergoing haemodialysis- a case study at National level conference on “Clinical Governance in Nursing – the key to excellence in patient care on Nov 24-25 2014 by organized by Madras Medical Mission, Madras	2014
63		Dr. Kasturi R Adiga	Awarded II Prize Non Communicable disease workshop was organized by Manipal University and University of Alabama Birmingham USA, on 13 th and 14 th February 2011, Topic: Effectiveness on PTP in improving knowledge on lead poisoning among primary school children:	2011
64		Mrs. Sangeetha P	2nd International Conference and 7th National Annual Conference of Society for Wound care CON organized on 11 to 13th October 2013 by JIPMER,	2013

			Pondicherry ,Topic: The incidence and demographics of child abuse	
65	MCOODS – MANGAL ORE	Dr. Sharan Saldanha	First place for Scientific Poster presentation titled at the 67 th Indian Dental Conference held at Hyderabad	2014
66		Dr. Nandita K.P	SECOND PRIZE for her E-POSTER PRESENTATION o at 12 th Indian Association of Forensic Odontology (IAFO) National Conference held at Dehradun	2014
67		Dr. Amitha J. Lewis	FIRST PRIZE for her POSTER PRESENTATION at the 42 nd IDA Karnataka State Dental Conference held at Mangalore	2014
68		Dr. Mithun Pai BH	Best Abstract Award at the 19 th National Conference of Indian Association of Public Health Dentistry (IAPHD) held at Amrita School of Dentistry, AIMS, Kochi	2014
69		Mrs. Prashanthi Madhyastha	II Prize for Poster Presentation at “Dentistry 2014” held at Bangalore	2014
70			FIRST PRIZE for her E-POSTER PRESENTATION o at 12 th Indian Association of Forensic Odontology (IAFO) National Conference held at Dehradun	
71		Dr. Karthik Shetty	Best Indian Dental Association Local Branch Secretary Award for the year 2014 at the 42 nd IDA Karnataka State Dental Conference held at Mangalore	2014
72	Manipal College of Pharmaceutical Sciences, Manipal	Mr Vamshi Krishna T, Department of Pharmaceutics	Achieved second best oral presentation award for presenting “Formulation and evaluation of multiparticulate dosage forms of rifampicin and isoniazid with improved rifampicin stability” at “National Conference on Innovations and Trends in Pharmaceutical Sciences”, Nirmala College of Pharmacy, Mangalagiri, Guntur, Andhra Pradesh on March 29, 2014	2014

73	Dr M K Unnikrishnan, Department of Pharmacy Practice	awarded with Cold Spring Harbor Laboratory fellowship (\$535.00 USD) for attending and presenting poster at the 79th Cold Spring Harbor Symposium on Quantitative Biology: Cognition, Meetings & Courses Program, New York, U.S. during 28 May - 2 June, 2014	2014
74		Teacher of the year award for Excellence in Teaching and Research 2012.	2012
75		Indian National Science Academy Travel Award for Attending and delivering an invited talk at the 16th Evolutionary Biology Meeting, Marseilles, France, 18th to 21st September 2012	2012
76		Prof. B.M. Mithal Memorial Award for Best Paper published in IJPER 2011.	2011
77		Dr N Udupa, former Principal MCOPS and present Director of Research (health Sciences), Manipal University and Dr M K Unnikrishnan (Professor and Head, Department of Pharmacy Practice)	awarded the prestigious Dr T M A Pai Endowment Chair for their contribution to academics and research. Under this, meritorious postgraduate students will be able to pursue their doctoral studies
78	Dr. N.Udupa	Prof C J Shishoo Award in October 2012 for his research in pharmaceutical Sciences initiated by Association of Pharmaceutical Teachers of India (APTI), October 2012.	2012
79		Acharya P. C. Ray Gold Medal Award for great achievement and service to Profession of Pharmacy by Indian Pharmaceutical Association (IPA), November 2012	2012
80		Schroff Memorial National Award for Contribution as a scientist and drug	2012

			researcher by Indian Hospital Pharmacists Association (IHPA), December 2012	
81			Pharmacy Teacher of the year award for the year 2008-09 was conferred by 54th Indian Pharmaceutical Congress Trust, Pune in the month of June 2010.	2011
82			Prestigious 8th STARS Award of American Association of Government College of Pharmacy (Bengaluru) Alumni, New York, USA for “Excellence in Academic Research” for the year 2011	2011
83			Talented Scientist Award in recognition of his outstanding contribution in the field of Pharmaceutical Sciences at International level during 3rd International Conference on Medicinal Plants and Herbal Products held at University of Colombo, Sri Lanka during December 19-21, 2011	2011
84		Dr Rekha Shenoy, Department of Pharmacology	received the “Second Prize” in scientific poster presentation in NCADDD at Trichy in July 2014.	2014
85		Dr K S Chandrashekar, Department of Pharmacognosy	has won the 2nd prize in poster presentation at Vatayana – 2014, National seminar on Neuro – Degenerative Conditions and Nuero-Lesions held at Bangalore on August 15, 2014	2014
86		Dr K S Chandrashekar, Dr Girish Pai and Ms Daksha Gupta	received certificate of Merit in Dr P D Sethi Annual Award 2013 for the paper entitled Invitro Antidiabetic activity of Pentacyclic Tritrapenoids and Fatty acid Esters from Bauhinia Purpurea	2014
87		Dr Usha Y Nayak, Department of Pharmaceutics	won first prize for poster preseantation in the International Conference on Innovations and Future Reseach Dimensions on Anobio Pharmaceutical Technology during Ocober 7- 8, 2014	2014
88			Awarded “First Prize in poster presentation” for the paper entitled	2014

			‘Development & evaluation of Risperidone liposomes for brain targeting’ in the TEQIP II & DBT sponsored International Conference on the Innovations & Future Research Dimensions on Nanobio Pharmaceutical Technology held at the Dept of Pharmaceutical Technology (Centre for Excellence in Nanobio Translational Research), Anna University, BIT Campus, Tiruchirapalli during October 7-8, 2014.	
89			“First Prize in poster presentation” entitled, Nanotechnology in Anti-HIV Therapy, A poster competition for “AIDS FREE INDIA-HYPE or HOPE” event organized by community development committee, Manipal University Association of Pharmacy Students in Collaboration with ISPOR, MUSC, held on November 30, 2014 (World Aids Day).	2014
90			Second prize for the Poster entitled “Gastro Retentive Pulsative Release Lercanidipine HCL formulations : Development, Evaluation in Vivo Buoyancy and Pharmacokinetic study” during International Humboldt Kolleg on the Bench to Bedside Translational Research Potential Benefits of Interdisciplinary collaboration November 15 – 17, 2013	2013
91		Dr Richard Lobo, Department of Pharmacognosy	Won the third prize for the poster presentation during the National Seminar on Medicinal Plants/Dravyaguna “Hastaamalaka 2014” organized by Muniyal Institute of Ayurveda Medical Sciences, Manipal held on November 12, 2014.	2014

92	Dr Srinivas Mutalik, Department of Pharmaceutics	attended as Keynote speaker in the 1st International conference on Pharmaceutics and Pharmaceutical sciences held at, Pullman Surabaya City Centre, Indonesia, during November 14 – 15, 2014	2014
93		Awarded with prestigious “Young Pharmacy Teacher of the Year 2013” award by Association of Pharmacy Teacher of India (APTI) in 18th APTI National Convention held at Rajahmundry, A P during October 25 - 27, 2013. Dr Mutalik has also received Award for Research Publication (ARP) by VGST (Vision Group on Science and Technology), Department of IT, BT and S&T, Government of Karnataka for the year 2012-13	2013
94		served as Poster Author in the Poster Walkway of Discovery at “6th Bangalore INDIA NANO – 2013	2014
95		Best M Pharm Dissertation Award: M. Pharm dissertation (Curcumin loaded nanoparticulate drug delivery system for the treatment of inflammatory bowel disease; Student: Neelam Suthar) has been received Ist Runner-up prize in “All India Level Rajnibhai V Patel Best M. Pharm. Thesis Competition” conducted by Troikaa Pharmaceuticals Limited, Ahemedabad during 2012-13.	2012-13
96		Award for Best Research Paper 2012-13; Awarded by Vision Group for Science and Technology (VGST), Department of Science and Technology, Government of Karnataka State, India	2012-13
97		Young Scientist Award in 5th ICMPHP (International Conference on Medicinal Plants and Herbal Products) conducted in	2013

			Manipal from 25-27, January 2013.	
98			Best Poster Award in 5th IAPST National Convention, held at Manipal on 5th Nov 2012.	2012
99	Dr Jayesh Mudgal, Department of Pharmacology		awarded First Prize for poster presentation in the 4th National Conference of the Society of Biological Scientists of India (SOBSI) held during November 18 – 20, 2014 at Yenepoya University, Mangalore	2014
100			First Prize” in scientific poster presentation in the 4th National Conference of the Society of Biological Scientists of India (SOBSI) held duringm November 18 -20, 2014 at Yenepoya University, Mangalore.	
101	Dr Prashanth B Musmade, Department of Pharmaceutical Quality Assurance		won the frist prize for the poster presentation during scientific sessions of 19th Annual National Convention of Association of Pharmaceutical Teachers of India on “Emerging Trends in Pharmacy profession and education” held during November 28 – 30, 2014.	2014
102	Dr Shaila A Lewis, Department of Pharmaceutics		won the second prize for the poster presentation during scientific sessions of 19th Annual National Convention of Association of Pharmaceutical Teachers of India on “Emerging Trends in Pharmacy profession and education” in the subject Pharmacology held during November 28 – 30, 2014	2014
103			Best poster award for the poster entitled “Quercetin as CYP3A4 inhibitor for improved oral bioavailability of Felodipine” at APTICON 2014 on the theme “Emerging trends in Pharmacy profession and education” organized by Pune Region Pharmacy Institution and APTI on November 28-30, 2014 at Pune, Maharashtra.	2014

104			Best Poster Award for her poster entitled "Formulation and Evaluation of an Antidiabetic and Antihypertensive in a single dosage form" under category of professional poster in DUPHAT(Dubai International Pharmaceuticals & Technologies Conference & Exhibition)held in Dubai during March 12 -14, 2012	2012
105		Dr Anup Naha, Department of Pharmaceutics	Appointed as Chief Coordinator of Manipal University Voluntary Service Organisation	2014
106			Best Paper Award for the poster entitled Formulation and In vitro Evaluation of self-Nanoemulsifying Drug Delivery System (SNEDDS) of Gliclazide under professional poster in DUPHAT held in Dubai during March 10 - 12, 2013. The Paper was co-authored by Dr M Sreenivasa Reddy and Dr N Udupa.	2013
107		Dr S G Vasantharaju, Deaprtment of	Certificate of Appreciation from Dr P D Sethi Annual 2013 for the research paper	2014
108		Pharmaceutical Quality Assurance	Best Research Paper Award for year 2014 organised by Association of Pharmaceutical Teacher's of India (APTI's)	2014
109		Dr Anantha Nagappa Naik, Department of Pharmacy Management	APP Academic Excellence Award in 2nd APP Annual National Convention held on March 17, 2013 at Nasik.	2013
110		Dr Saleemullah Khan, Department of Pharmacognosy	awarded the Inter Science Scholastic Award for the paper entitled "Isolation and characterization of oligomeric procyanidin-rich polyphenol fraction of Cinnamomum zeylanicum bark and its in vitro antidiabetic studies" for the category best presentation in the tract IJCPPT at the	2013

			International Joint Conference on Control, Pharmacology and Pharmaceutical Technology held at Chandigarh on March 24, 2013.	
111	Dr Krishnamurthy Bhat, Abilasha Gupta, ST Bhagawati, BS Muddukrishna, Jagadish PC of Department of Pharmaceutical Quality Assurance		received Best Paper in Pharmaceutical Analysis for the article published in IJPER “Estimation of stavudine, lamivudine and nevirapine by Chemometric UV Spectroscopic Method” during APTI – 18th Annual National Convention, Rajahmundry, AP October 25 - 27, 2013	2013
112	Dr V M Subrahmanyam, Department of Pharmaceutical Biotechnology		secured First prize for the Research Paper entitled “Curcumin loaded Nanoliposomes: optimization of formulation conditions using design of experiment” during APTI – 18th Annual National Convention, Rajahmundry, AP October 25 - 27, 2013	2013
113	Dr C S Shreedhara, Department of Pharmacognosy		received 1st place for the poster entitled “Preparation and nanoformulation of Tripala extract and evaluation of its in vitro antioxidant and cytotoxic potential” during the World Congress organised by International Society for nature and Health Care Inc , USA during December 16 – 18, 2013.	2013
114	Mr Madhavan Nampoothiri, Department of Pharmacology		selected as one of the winners for a travel grant in the category “Awards for investigators from developing countries in the amount of USD 1000 & free congress registration fee ” During XX World Congress on Parkinson’s Disease and Related Disorders, Geneva, Switzerland	2013
115	Dr Manthan D Janodia, Department of Pharmacy		UGC has nominated to visit USA under 300 Roman Fellows for Post Doctoral Studies in USA under Indo-US 21st	2013

		Management	Century Knowledge initiative for a period of one year from August 2013	
116		Yogendra Nayak, Vijay Mor and M.K. Unnikrishnan	Indian Journal of Pharmaceutical Education and Research (IJPER) Best Research Paper published in 2011. Prof. B.M.Mithal Memorial Award for Pharmaceutical Education, October 2012	2011
117		Chirag Dhingra, Sherin Babykutty, S.D. Vachala and K.S.R. Pai, Department of Pharmacology	Received 2nd Prize in poster presentation. In vitro evaluation of the apoptotic potential of novel pyrimidine analogs.	2012
118		Praveen KS, Y Rajesh, VM Subrahmanyam, J Venkata Rao. Department of Pharmaceutical Biotechnology	Received 2nd Prize in poster presentation Screening Of Soil Samples For Isolation Of Cyclodextrin Glycosyltransferase Producing Microorganisms. Presented at 64th IPC, Chennai, December 7-9, 2012.	2012
119		Vachala SD.	Best Oral Presentation Award Docking, Synthesis and Biological Evaluation of some novel 5-substituted-1,3,4-thiadiazol-2-amines ad their Schiff base. Presented at Diabetes mellitus and Cancer (Dia-Can' 12), DBT-CSIR sponsored International Conference at Annamalai University from December 14-16, 2012.	2012
120		Dr A. Ranjith Kumar.	Annual Best Research Paper Award in Pharmaceutical Sciences of Manipal University	2011-12
121		Jagtap D.	Best Paper selected for Oral presentation during 64th IPC, Chennai, December 7-9, 2012 "Studies on Optimization of production parameters for improving the yield of microbial secondary metabolite with	2012

			microbicidal and cytotoxic activity.” Department of Pharmaceutical Biotechnology, MCOPS, Manipal.	
122		S N Manjula, QIP Research Scholar	won the Best Poster Award in XLIV IPSCON- 2011 held at Kasturba Medical College, Manipal during December 19-21, 2011	2011
123		Ms Sahiti D, Mr Rama Krishna of IV Pharm D students & Dr Ananthan Nagappa Naik, Professor, Department of Pharmacy Management	won the second prize in Community Pharmacy section of FIP 2011 held at Hyderabad during September 3 – 8, 2011.	2011
124	SORM	Dr Anujith Kumar, Assistant Professor	Rapid Research Grant for Young Investigator (RGYI) from Department of Biotechnology, Government of India.	
125		Dr.D.Anandh, Assistant Professor	awarded Young Scientist Start Up grant from Science and Engineering Research Board, Government of India	
126		Dr. SudhaWarrier, Assistant Professor	has established collaboration with University of Western Australia and Curtin University, Perth, Australia	
127	DAMP	Dr SanthoshChidangil	Regular Associate, International Centre for Theoretical Physics (ICTP), Trieste, Italy	2004-11
128			Membership in Professional Societies - Indian Physics Association (LM),	
129			Membership in Professional Societies - Indian Laser Association (LM)	
130			Membership in Professional Societies - Optical Society of America (M)	
131			Membership in Professional Societies - Indian Nuclear Society (LM)	
132			Membership in Professional Societies - Society for Optical Engineering (SPIE) (M)	

133			Membership in Professional Societies - Indian Science Congress (LM)	
134	Dept. of Commerce	Mr Sandeep S Shenoy, I/c Head Dept. of Commerce and Deputy Director Q&C (Manipal Campus),	Assigned team leader role for assessment of a Ramakrishna Bajaj National Quality Award (RBNQA) application for the 2010 and 2012 award cycles	2012
135			Leading a team of examiners for assessing an award application is a privilege which is entrusted to only highly efficient and competent senior examiners as it involves interaction with the Top management of reputed Organizations, whose applications come for assessment	
136		Mr Guru Prasad Rao, Assistant Professor	Best Paper Award for the Paper Titled “Intrapreneurship in India: Challenges Ahead” in the Technical Session “Entrepreneurs and Indian Economy” of the National Seminar on “Entrepreneurship and Business Development in India: Issues and Cases” Organized by Kousali Institute of Management Studies, Karnataka University, Dharwad on November 4 and 5, 2011.	2011
137			Officially certified as “Financial Education Resource Person” from Security and Exchange Board of India (SEBI). Mr Rao will be the part of SEBI’s initiative to spread Financial Education to the various segments of the Society across India.	
138	WGSHA	Prof.Parvadhavardhini Gopalakrishnan, Principal	has been listed among ‘Top 100 most influential people in the hospitality industry’ as reported by Hotelier India Magazine, September 2013	2013
139			has been also honoured by CSR in April 2013 and April 2014	2014
140		Prof. Y G Tharakan	has been Presented ”Life Time Achievement Award” in February, 2015 for the contribution to	

			the Hospitality and Tourism Education in India by the Indian Hospitality Congress	
141			Participated as the Key Note Speaker at the International Conference on Tourism and Hospitality Management (ICTHM-2014) at Colombo, SriLanka.	
142			Participated as the Key Note Speaker at the National Conference on February, 2015 conducted at the DY Patil University, Mumbai	
143	MMMC	Dr. Bincy	Dr.M.M.Cooper memorial award for best paper presentation in the faculty category during the 36th Annual conference of the Association of Anatomists, Tamil Nadu in October 2013	2013
144		Dr. Sudarshan	Best poster award for a poster titled “Learning approaches of first year medical students and their academic performance in anatomy” presented at the 2nd Dubai international conference: sustaining success through innovation, organized by Michigan State University, Dubai campus in January, 2014	2014
145		Dr.Reem Rachel Abraham	TEACHING CAREER ENHANCEMENT AWARD’ by the American Physiological Society in the year 2014	2014
146			first prize for the audiovisual teaching material titled “Hypothyroidism: The Silent Intruder” , in the audiovisual teaching material competition conducted by Melaka Manipal Medical College, Manipal Campus, Manipal University, India, in 2014.	2014
147			first prize in the poster competition held in conjunction with the National workshop on ‘Assessment in Higher Education’	2013

			conducted by Manipal Centre for Professional Development, Manipal University, India in January 2013	
148		Dr. Prathibha M D Almeida	Won best poster award on ‘Ethics in laboratory medicine’ organized by SOAHS, Manipal University, April 2013	2013
149		Dr. Sareesh N. N.	recipient of T.M.A. Pai Gold Medal for Outstanding Medical Research from Manipal University in the year 2013	2013
150			recipient of T.M.A. Pai Gold Medal for Outstanding Medical Research from Manipal University in the year 2012	2012
151		Dr. Asha V	best paper award for the oral paper presentation in International conference ‘2013 IEEE international conference on MOOC, Innovation and Technology in Education (IEEE MITE 2013) during Dec 20 – 22, 2013 at Jaipur	2013
152			won third prize in the oral presentations at South East Asian Regional Association for Medical Education (SEARAME 2014) conference held in Colombo, Sri Lanka from 12 th to 15 th November, 2014	2014
153		Dr UllasKamath	Distinguished Alumni Award as the first PG student in Department of Biochemistry, KMC, Mangalore, 2014	2014
154		DrAnnammaKurien	honoured with the ‘Civic Leader’ Award by the Hemophilia Federation of India for the Hemophilia Community in July 2011	2011
155			Project of the year award for IDEEA project by Novo Nordisk hemophilia foundation, Switzerland in 2014	2014
156			the second prize for the best audio visual material titled “The power packed neutrophils” in December 2013	2013
157			First prize for best audio visual material titled “Life and achievements of Rudolf Virchow in 2014	2014

158		Dr. Shaila T. Bhat	won the best teacher award in November 2014	2014
159		Dr. Vasudha Devi	Second prize for Audio Visual Material 'preparing drug for parenteral administration and setting up an intravenous infusion': Awarded during MMMC annual day in 2012	2012
160			Best Poster award for the poster entitled 'Impact of Mentored student project on students' knowledge, skills and attitude regarding research at National Workshop on "Assessment in Higher Education" by Manipal Centre for Professional and Personal Development (MCPD), Manipal University, Manipal 10th – 12th January, 2013	2013
161		Dr. Arul Amuthan	Best poster award for 'Tender coconut water enhances the activity of hydrochlorothiazide in rates: in reducing renal excretion of calcium and uric acid' in Symposium on 'Food as Medicine' jointly organized with Indo-Queensland Research Initiative Project Fund and Department of Pharmacy Practice, at MCOPS, Manipal University – Oct. 2013	2013
162		Ms. TatiyanaMandal	Best poster award for the paper "Reflective Summaries in assessing students' attitudes towards end-of-life care" at National Workshop on "Assessment in Higher Education" by Manipal Centre for Professional and Personal Development (MCPD), Manipal - January, 2013	2013
163		Ms. TatiyanaMandal	Second prize in poster competition on "Ethics in laboratory medicine" organized by School of Allied Health Sciences, Manipal University, Manipal - April, 2014	2014

164		Dr. Ciraj AM	The International Educators Award by the American Society for Microbiology & UNESCO for outstanding contribution in microbiology education	
165		Ms. Nagalakshmi N, Lecturer in Microbiology	a travel award to attend 1 st Global Forum on Bacterial infections at New Delhi in October, 2011	2011
166		Dr. Krupa Shah	award of “Fellowship in Medical Genetics” at KMC, Manipal in 2014	2014
167	MIT	Dr. Ramesh R. Galigekere, Professor & HOD, Dept. Of Biomedical Engineering	elevated to a <i>Senior Member</i> , IEEE, in 2013	2013
168		Ramesh R. Galigekere, Mikkel B. Sorensen, RohitNayak, PJ. PrakasaRao Dept. Of Biomedical Engineering	awarded by Intellectual Ventures towards patenting - “Method and Apparatus for In vitro Analysis of the Physical Response of Blood Vessels to vaso-active Agents”, Patent Application Number 20110135171,06-09-2011.	
169		Ramesh R. Galigekere, RohitNayak, Vishnu Prasad Shenoy Dept. Of Biomedical Engineering	awarded by Intellectual Ventures towards patenting “Automated Tuberculosis Screening” – awarded by Intellectual Ventures towards patenting. Patent ApplicationNumber: PCT/IB2010/056049, 18-05-2012.	
170		Dr. Goutam Thakur Dept. Of Biomedical Engineering	recipient of European Doctoral Award (EDA) in 2012 by European Society of Biomaterials (ESB).	2012
171		Dr. S. Shanmuga Priya, Chemical Engineering	Board member of Academics for Department of Energy - Gandigram Rural Institute Publication Office, Gandigram, Dindugal	2012
172		Dr Shanmuga Priya, Chemical Engineering	Presented a paper and a delivered a keynote address in an International Conference- AABES, DUBAI(UAE)	2013- 14

173	Dr Srinivas Kini , Chemical Engineering	Awarded PhD from Manipal University	2013- 14
174		Chaired a technical session in TECH-TATVA at MIT	2013- 14
175	Prof K Balakrishna Prabhu, Chemical Engineering	Best Teacher Award	2013- 14
176	Prof S Sivasankaran, Chem.Eng.	Patent published , (Ref: US20130004412)	2013- 14
177	Dr S Harish Kumar Professor & Head, Chem. Eng	Chaired a technical session in 2 International Conferences and also in CISCON at MIT.	2013- 14
178	Dr. K Balakrishna, Associate Professor,Civil Eng.	Prof. Satish Dhawan state award for young engineers – Karnataka State Government on 24 th January 2013	2013
179	Mr. B. H. V. Pai, Associate Professor, Civil Eng	received Best Teacher award M.I.T. Manipal for the year 2012.	2012
180	Mr. V Srinivas Raghavan, Associate Professor, Civil Eng.	received Best Teacher award M.I.T. Manipal for the year 2013	2013
181	Mr. Raghavendra Holla, Assistant Professor, Civil Eng.	received Best Teacher award M.I.T. Manipal for the year 2014.	2014
182	Dr. Karunakar A. Kotegar, Computer Appl.	Selected for DAAD Germany sponsored "Science Tour: Living in Digital World" from 19th Jan 2014 to 25th Jan 2014 in Germany.	2014
183	Dr. Karunakar A. Kotegar, Raghavendra U, Krishnamoorthi Makkithaya, Comp. Appl.	Best paper award in National Conference on Recent Advances in Information Technology NCRAIT for the title "Illumination Invariant Stereo Data Cost Using Modified Census Transform",	
184	Dr. Karunakar A. Kotegar , Mr. Ramakrishna,	Best Poster Award with Cash Prize Rs. 10,000/- for the title "Estimation of Scalable Video Adaptation Parameters for	

		Comp.App	Media Aware Network Elements" in 6 th International Conference Communication System & NETworkS (COMSNETS) 7 th to 10 th Jan 2014 at The Chancery Pavillion, Residency Road	
185		Mr. R. VijayaArjunan, Comp.Sci.& Eng.	Best Paper Award - paper titled " Image Denoising using Multiple Wavelet Decomposition with Bicubicinterpolation" in 4 th International Conference on Signal and Image Processing .(ICSIP 2012) (Springer) at Dr. N.G.P. Institute of Technology, Coimbatore, 2012.	2012
186		Dr. Srikanth Prabhu, Mr. DasharathrajK.Shetty and Mr. Manjunath K. Vanahalli, Comp.Sci.& Eng	<u>Most Authoritative paper award</u> -paper titled " Face Recognition System using Template Method" awarded <u>Most Authoritative paper award</u> Information System and Engineering at International Conference, ASCENT 2014, the Scholarly Conference on Emerging Technologies for Information Systems and Business Management held on April 23 and 24, 2014 at FTMS College, Bukit Jalil Campus, Technology Park Malaysia, Kaula Lumpur, Malaysia. Award from Andrew Chambers, World authority in Corporate Governance	2014
187		Dr. Srikanth Prabhu, Comp.Sci.& Eng	<u>Best Paper Certificate</u> -etinal Biometrics, towards Healthcare Management" during the 3 rd World Conference on Applied Sciences, Engineering and Technology (WCSET 2014) at Hotel Manang, Kathmandu. NEPAL on 28 th September, 2014	2014
188		Mr. Kishore B. & Mr. GovardhanHegde K, Comp.Sci.& Eng	<u>Best Paper Award</u> - paper titled "The need, use, analysis and efficiency of Intrusion Detection System in Web-Based Environment" at the International	2014

			Conference on Computer Science and Mechanical Engg. (ICCSME) held at Vizag on 13 th July 2014.	
189	Dr.Ciji Pearl Kurian, Professor, E and E		Invention Award2011(ID: IN-814205) for the Research Project	2011
190			Chairing the Session in International Conference ICASEIT 2011 at Kuala Lumpur	2011
191			Chairing the Session in IEEE International ConferenceICIEA 2012 at Singapore	2012
192			DST Funding for Research Student's Project	
193			Mentor award in 2013 by TI analog design contest	2013
194		Dr Savitha G Kini, E & E		Reviewer and Chairing the Session in IEEE International Conference ICIEA 2012 at Singapore
195			Mentor award in 2014 by TI analog design contest	2014
196	Mr. Adarsh S., E & E		Best paper award in ICEECSME-2015 international Conference at Bangalore	2015
197	Dr L L Raj Rodrigues, H & M		Journal Best Paper Award , , for the paper, "A study on the influence of review period interval in Closed Loop Supply Chain using System Dynamics" - European Business Research Conference ", held at Rome, Italy, 5-6 th September, 2013	2013
198	Dr. Lewlyn L.R. Rodrigues, Mahesh Prabhu, H & M		Best Paper Award The Advantages of Just in Time (JIT) Supplies from a Supplier- A System Dynamics Simulation Analysis - 29th International Business Research Conference DATES: 24 – 25 November, 2014 Novotel Hotel Sydney Central, Sydney, Australia	2014
199	SaloneeSonawane Dr. Lewlyn L.R. Rodrigues, H & M		Using AHP Approach for Supplier Evaluation – The Quality Aspect In a Washing Machine Company -	2014

			International Online conference on Innovation in Management Studies & Research [IMSR] organized online on 20th December 2014	
200	Dr. Lewlyn L.R. Rodrigues Sunith Hebbar, H & M		A System Dynamics Approach to study the sales forecasting of perishable products in a Retail Supply Chain - International Conference on Advances in Mechanical, Production and Industrial Engineering _ICAMPIE 2015 at Pattaya, Thailand on 28-29 March-2015	2015
201	Pooja B, Manohara Pai M.M. &RadikaM.Pai, I & CT		awarded the Best Paper Award at APCASE '14' held at Bali, Indonesia from 10-12 th Feb. 2014 - The Paper titled " Mitigation of Insider and Outsider DoS attack against Signature based authentication in VANETs	2014
202	SanoopMallissery, Manohara Pai M.M., Smitha A &RadikaM.Pai , I & CT		Best Paper Award at APCASE '14' held at Bali, Indonesia from 10-12 th Feb. 2014 - The Paper titled " Improvising the public key infrastructure to build trust architecture for VANET by using short – time certificate management and merle signature scheme	2014
203	Mr. Ramakrishna M. and Karunakar A. K, I & CT		"Best Poster Award" for his paper entitled "Estimation of Scalable Video adaptation parameters for media aware network elements", in sixth International Conference on Communication Systems and Networks (COMSNETS-2014), held at Bangalore, INDIA from 7 th -10 th Jan., 2014.	2014
204	Dr. C. GurudasNayak, I & CE		post- doctoral fellow from AL Jabal AL Gharbi University, Libya, Africa	
205	Dr. S S Sharma, M & ME		Best paper award, International conference, ICRAMPT-2013, Kovilpatti, Tamil Nadu, India, January, 2013	2013

206		Mr. Raghavendra Prabhu, M & ME	Best paper award, International conference, ICRAMPT-2013, , Kovilpatti, Tamil Nadu, India, January, 2013	2013
207		Mr. Ritesh Bhat, M & ME	Best paper award, International conference, Rohtak, India, July, 2013	2013
208		Mr. B Manjunatha, M & ME	Best paper award, International Conference on Computational Methods in Engineering and Health Sciences, MIT, Manipal, 2014	2014
209		Mr. George Verghese, M & ME	Best paper award, International conference, Malaysia, May, 2014.	2014
210		Mr. Rajesh Nayak, M & ME	Best paper award, International conference, Nepal, 2014	2014
211	SOM	Prof. Yogesh PAI, Asst. Prof.,	International Journal of Healthcare Quality Assurance, a journal published by Emerald group of publishing, UK – Congratulated him for high downloads of the paper ‘Dimensions of hospital service quality – authored by him & categorized as a high impact author	
212	KMC	Mr.SnehunsuAdhikari, Physiology	selected for an Associate School of Neuroscience by International Brain Research Organization (IBRO) organized at Banaras Hindu University, Varanasi from 19 th to 23 rd October,13.	2013
213		Sivakumar.G, Physiology	presented his research work titled “Oral Choline Supplementation Can be an Effective Pharmacological Adjuvant to Conventional stroke Physical therapy Rehabilitation program-Evidences from Hippocampal Neurons of Rat model of Ischemic Brain injury” and awarded 3 rd prize in III- International Conference & workshops of Physical Therapy, AIIMS 2014.	2014
214		Dr. ShobhaKamath , BC.	recognized as Good Teacher in KMC Annual Day 2013. Dr. PragnaRao, Professor & Head of Biochemistry	2013

			received the AS SIANI oration award at AMBICON 2013 held at CMC Ludhiana during Nov 2013	
215		Dr. PragnaRao, Head of Biochemistry	recognized as ICMR STS guide in Manipal Conventus 2013 held in Aug. 2013	2013
216			awarded with Dr. TMA Pai chair in Laboratory quality management	2014
217		Dr. NamitaRao, Associate Professor of Biochemistry	was recognized as ICMR STS guide in Manipal Conventus 2013 held in Aug. 2013	2013
218		Dr. RevathiShenoy, Associate Professor of Biochemistry	recognized as ICMR STS guide in Manipal Conventus 2013 held in Aug. 2013	2013
219		Dr. VidyaMonappa, PTH	2 ND BEST POSTER AWARD for Poster titled “ p53immunohistochemical staining patterns in benign, pre-malignant and malignant lesions of the oral cavity” at NUHS-MD Anderson Pathology update held at Singapore NUH, 26-28 th September 2013	2013
220		VidyaMonappa, RanjiniKudva, PTH	SESSIONS BEST POSTER:. Myeloid sarcoma: A clinicopathological study with emphasis on diagnostic difficulties. At KCIAPM	2014
221		Dr. Shamee Shastry, I & BT	received award for the oral presentation during ISTM national conference at Bangalore on September 2013	2013
222		Dr. Shamee Shastry, I & BT	received the Harold Gunson Fellowship byInternational Society of Blood Transfusion	2013
223		Dr. Shamee Shastry, I & BT	received - ISTM travel fellowship	2014
224		Dr. ChiranjayMukhopad hyay, MB	‘TRAVEL AWARD’ for 7th WorldMelioidosis Congress 2013 for the presentation: Melioidosis in India: First report on community based sero epidemiological and environmental surveillance	2013

225		Dr. Ashwini Kumar, FM	Best poster award: in SIMLA-2013, a 10 th Annual Conference of South India Medicolegal Association, held on 27 th to 29 th September 2013 in Bangalore Medical College and Research Institute, Bangalore for the poster “Mystery behind sudden death”.	2013
226		Dr. Shankar M. Bakkannavar, FM	Best poster award: in KAMLS-2013, a Karnataka Medicolegal Associations 21 st conference held in Mysore for the poster “Electrocution and cardiac pathology	2013
227		Dr. Suma Nair, CM	has been awarded a fellowship as the IAEA PACT (International Atomic Energy Agency Programme of Action for Cancer Therapy) nominee for the “Cancer Prevention Course” at the National Cancer Institute, NIH, Bethesda, USA, July 2013	2013
228		Dr. Chythra R. Rao, CM	has been awarded the Karnataka Association of Community Health – Young Scientist Award 2013, at the 25 th Annual Conference of Karnataka Association of Community Health, held at Bangalore Medical College & Research Institute at Bangalore on November 30 th & December 1 st 2013	2013
229		Dr. SudhaVidyasagar , Medicine	Prof. B.N. Shrivastava & late (Mrs.) Sarandulari award in the RSSDI conference held in New Delhi in oct 2013	2013
230			BMJ Case Reports Best Paper Award at Competition held at KMC Manipal June 2013	2013
231		Dr N R Rau, Medicine	Dr Shadaksharappa memorial oration at the KAPICON 2013	2013
232		Dr H ManjunathHande , Medicine	BMJ Case Reports Best Paper Award at Competition held at KMC Manipal June 2013	2013
233		<u>Dr. Kavitha Saravu,</u> <u>Medicine</u>	ICMR International Fellowship for Young Biomedical Scientists-2012-13	2013

			To pursue a Fellowship in Yale School of Medicine, Connecticut, USA from 2 nd April 2013 to 30 th June 2013	
234			John Williams Prize from London School of Hygiene and Tropical Medicine - For the excellent performance with the perfect score in the practical examination of Diploma in Tropical Medicine & Hygiene	2013
235			1st prize for best case report (Dr J C Patel and Dr B C Mehta best paper award) - For the article “candida renal papillary necrosis conquered” in Journal of Association of Physicians of India in the year 2013	2013
236			Second Prize for FREE paper category “In vivo assessment of chloroquineprimaquine combined treatment efficacy in plasmodium vivax malaria in Udupitaluk – Primary health centres based prospective cohort study” at CIDSCON 2014, Clinical Infectious Disease Society Conference held in Bangalore from 22-24th Aug 2014.	2014
237		Alok Bhatt, AravindAjakumarM enon, Rama Bhat, Kusugodlu Ramamoorthi, Medicine	“Myocarditis along with acute ischaemiccerebellar,pontine and lacunar infarction following viper bite.” Best paper award in BMJ case reports competition held at KMC, Manipal in june 2013, conducted by BMJ group .	2013
238		Dr. Pratap Kumar, OBG	On behalf of the Manipal OBG Society as the President received the “Dr. D. K. Tank Reproductive Health Care Promotion Trophy” for the best activities in Category “B” for the year 2011-2012 at Mumbai during the 56 th All India Congress of Obstetrics &Gynaecology on 17 th January 2013.	2013
239			Best review paper award: Comparison of human chorionic gonadotropin and	2013

			gonadotropin releasing hormone agonists as ovulation trigger in assisted reproductive technology cycles an update. Indian Obstetrics and Gynaecology.Vol 2 (2); 69: Apr-Jun 2012. (5th October 2013 at New Delhi – in absence)	
240			Appointed as member, project review group on women's health for Indian Council of Medical Research from 2013. (Attended meeting in Delhi on 12 April 2013).	2013
241		Dr. Amar, OBG co authored by Chandana A, Aravind Menon, Rajeshwari Bhat, Satish Adiga, Rajesh Bhakta, Pratap Kumar	Presented a poster titled "Impact of embryo transfer depth on in vitro fertilization and embryo transfer" won Dr. Mrs. Jagdishwari Mishra Prize for the Posters (2 nd best poster) under the theme uterus in focus	2013
242		Dr. Lavanya Rai, OBG	Awarded Good Teacher award on Diamond Jubilee College Day and Annual Awards Ceremony on 19 th march	2013
243		Dr. Murlidhar V Pai, OBG	Awarded Good Teacher award on Diamond Jubilee College Day and Annual Awards Ceremony on 19 th march	2013
244		Dr. Amar Ramachandran, OBG	Awarded Best Wicket Keeper in MIST 2013 (Manipal Intermedical Sports Tournament) held at KMC, Manipal	2013
245		Dr. Suneel Mundkur, Addl. Professor in Paediatrics	got 2 nd prize for paper presentation in PEDICON 13 conference held at Belgaum in October, 2013	2013
246		Dr. Sandeep Kumar B K, Senior Resident in Paediatrics	got 2 nd prize for Poster presentation, in IAP Infectious Diseases, Karnataka Chapter Conference held at Dharwad in December, 2013	2013
247		Dr. Sathish Pai, Prof. & Unit Head, Dept. of Dermatology	awarded consolation prize for poster presentation "A simple instrument designed to	2013

			provide consistent Digital facial images in Dermatology” during Innovation day at MIT, Manipal on 19 th December, 2013.	
248		Dr. SudhirNayak U.K., Asst. Professor, Dept. of Dermatology	won the prize – SK INDIA QUIZ – 10 by Indian Dermatology Online Journal 2013	2013
249		Dr.SmitiSripathi, AssocProf , Radio Diag.	is selected for Commonwealth academic fellowship 6 months in UK in Breast Imaging.	2013
250		Dr.Smiti, Radio Diag.	underwent commonwealth academic fellowship in “breast imaging” at Southend University hospital ESSEX UK, from Jan. 2014 to April 2014	2014
251		Dr.Arun Chawla, Urology	won Ist prize for Video on “ Non Transacting techniques in Bulbar strictures “ in the Workshop on “ Urethral Reconstruction “ from 5 th to 8 th November 2013 in University College London Hospitals	2013
252			won first prize in KUACON Uroquiz at Karnataka Urology Conference held at Mysore June 2013.	2013
253			Convenor of Subspeciality USI Instructional course on Reconstructive Urology for USICON 2014, at New Delhi	2014
254		Dr.Rishikesh VB, Psychiatry	was awarded TilakVenkobaRao oration award 2013 by Indian Psychiatric Society	2013
255		Dr.PSVN.Sharma, Psychiatry	Prof.M.Vaidyalingam Memorial Oration Award 28 th Dec. 2014, Chennai.	
256		Dr.Ravindra , Psychiatry	Dr.S.S.Jayaram Award by Indian Psychiatric Society – Karnataka Chapter on 6 th Sept. 2014, Udupi	
257		Dr Satish Kumar Adiga, Clinical Embryology	UICC fellowship (Switzerland) to undergo Oncofertility Fellowship at Karolinska Institute, Stockholm, Sweden in October 2013	2013

258			Dr TMA Pai Endowment Chair in Human Fertility and Clinical Embryology, Manipal University, 2013	2013
259			Received felicitation for outstanding work in the field of embryology, during the Academy of Clinical Embryologist (ACE) International Conference in Indore on 8 th August 2014.	2014
260			Appointed as Research Ambassador for India from German Research Foundation (DAAD), Germany for three years	2014
261		Dr. GuruprasadKalthur, Clinical Embryology	Award for Research Publication (ARP) for the year 2012-13 by the Vision Group on Science and Technology (VGST), Government of Karnataka	2013
262			Dr. TMA Pai Gold medal for excellence in Medical Research for the year 2012.	2012
263			Technology transfer fellowship by Dr TMA pai Endowment Chair for advanced training at University of Naples, Italy in 2013	2013
264			Received the 3 rd prize for paper presented on “Effect of repeated superovulation on the developmental potential of mouse embryos in vitro” during the 10 th Annual National conference on Indian Fertility Society from 19-21 December 2014.	2014
265		MsShubhashreeUppangala, Clinical Embryology	ICMR Travel award of Rs 1,00,000/- to attend 3 rd International Congress on Controversies in Cryopreservation of Stem Cells, Reproductive cells, Tissue and Organs (CRYO) at Berlin, Germany from March 21-23, 2013.	2013
266			Technology transfer fellowship by Dr TMA pai Endowment Chair for advanced training at Karolinaka Institute, Stockholm, Sweden in October 2013	2013

267			Dr T.M.A Pai gold medal for excellence in Medical Research for the year -2013	2013
268			First prize for oral presentation under Health Science Category in the Manipal Research Colloquium- 2014 at Manipal University on April 11 th & 12 th 2014	2014
269			First prize for paper presentation in free paper session, during the 3 rd International Conference of Academy of Clinical Embryologists (ACE-2014) in Indore (MP) from August 8 th to 10 th 2014	2014
270		Dr. GanapathiJoisa, Yoga	“In appreciation of the high distinction achieved by him in the Profession and Service to the community” presented to Dr. GanapathiJoisa H. on 19 th March 2013	2013
271		Dr. GayathryNayak, Yoga	Manipal University awarded PhD for the thesis entitled “Effect of yoga therapy on physical, psychological, Bio-chemical and other quality of life parameters in Premenopausal women” on 2 nd February 2013	2013
272		Dr. SmitaShenoy, Pharmacology	Received Good Teacher Award in 2014	2014
273		Dr. Navin A. Patil, Pharmacology	Assistant Professor, Awarded as the Best sportsman - 2014 of Manipal university staff	2014
274		Ms. SwapnaSatheendran, Pharmacology	Awarded “The Best Paper Presenter In technical presentation and research contribution” for the paper entitled “Estimation of cost-of-illness among psoriasis patients on Bath PUVA” in International Conference on Advances in Healthcare & Life-Sciences (ICAHL), Singapore	2014
275		Dr. Ajay Bhandarkar, Assistant Professor in ENT Dept.	Award : Gold Medal Award for Best Scientific poster in south zone category for “Amelanotic malignant melanoma of cervical oesophagus.	2014

276		Dr. Gurshinderpal Singh Shergill, Assistant Professor in ENT Dept.	Award : Runner up for Best Scientific paper in south zone category for “ Gurumurthy teaching faculty gold medal scientific paper presentation”– Topic – “An comparative study of tragal cartilage and temporalis facia as a graft material in Type I Tympanoplasty”.	2014
277		Dr. Shalini S, ENT	Award : Runner up for Best Scientific paper in south zone category for “ Gurumurthy teaching faculty gold medal scientific paper presentation” Topic - Malignant otitis externa – the challenging dilama	2014
278		Dr Krishna H M, Professor of Anaesthesiology	won 2 nd prize in ISH Narani Poster competition in ISACON 2014 Madurai for a Poster on ‘Two techniques to facilitate oral insertion of LMA CTrach’. This was co-authored by Dr Karri Pavani and Dr Nandhini Joseph, Postgraduates in Anaesthesiology.	2014
279		Dr Madhumitha, Junior Resident(2 nd year PG),Department of Anaesthesiology	won 2 nd prize in poster Competition for the poster ‘Anaesthetic management of a case of insulinoma masquerading as a seizure disorder’ under guidance of Dr ShriramVaidya in KISACON 2014 Dharwad.	2014
280		Dr Sushma T K, Junior Resident (2 nd Year PG), Department of Anaesthesiology	won 1 st prize in e-poster Competition for the poster ‘Misplaced tracheostomy tube; airway exchange catheter and fiberoptic bronchoscope save the patient’ under guidance of Dr ManjunathPrabhu and Dr ShriramVaidya in ISACON 2014 Madurai	2014
281		Dr.Sunil Upadhyaya, Neurosurgery	(Neurosurgery skills training workshop 14 th) has been awarded 1 st prize for Neuroendoscopic practice	2014
282		Dr. Naveen Kumar , Hospital Adm.	an award for his contribution towards research paper	2014

283		<u>Dr AnjuShukla,</u> <u>Medical Genetics</u>	International travel support from Science and Engineering Research Board, Department of Science and Technology to attend 60 th Annual Meeting of American Society of Human Genetics, San Diego, CA, October 18-22, 2014	2014
284	Department of Geopolitics & International relations	Prof. Arvind Kumar, Head, Department of Geopolitics and International Relations	Appointed as Member of the Board of Studies at the Centre for Latin American Studies, Goa University.	
285		-do-	Appointed as Advisory Board Member for Journal for Air and Space Law (IJSAL) published by the NALSAR University of Law, Hyderabad.	
286		-do-	Invited as a judge at the Manfred Lachs Space Law Moot Court Competition, India Funding Round during 25-27 April 2014 organised by the National Law School of India University, in association with the Indian Space Research Organisation (ISRO).	
287		Dr. Nanda Kishor MS, Assistant Professor	Received Erasmus Mundus Fellowship from European Union to pursue Post-Doctoral Studies at Leiden Institute of Area Studies, Leiden University, The Netherlands.	
288		-do-	International Visitor Leadership Programme (IVLP) by the United States State Department.	

ANNEXURE 2.8b

MBBS – Scheme of Examinations (MCI regulations November 2010)

Suggested Scheme for Manipal University MBBS Students

S I	Subject	University Examinations					Internal Assessment		Total		Total Theor y + Practi cal/ Clinic al
		Theory			Viva	Practi cal/ Clinic al	Theo ry	Practi cal/ Clinic al	Theo ry	Practi cal/ Clinic al	
		Pap er 1	Pap er 2	Redu ced to							
1	Anatomy	100	100	100	20	40	20	20	140	60	200
2	Physiolog y	100	100	100	20	40	20	20	140	60	200
3	Bio Chemistry	100	100	100	20	40	20	20	140	60	200
4	Pathology	100	100	80	15	25	15	15	110	40	150
5	Microbiol ogy	100	100	80	15	25	15	15	110	40	150
6	Pharmaco logy	100	100	80	15	25	15	15	110	40	150
7	Forensic Medicine	100	---	40	10	30	10	10	60	40	100
8	Communi ty Medicine	100	100	120	10	30	20	20	150	50	200
9	Ophthalm ology	100	---	40	10	30	10	10	60	40	100
10	ENT	100	---	40	10	30	10	10	60	40	100
11	Medicine	100	100	120	20	100	30	30	170	130	300
12	Surgery	100	100	120	20	100	30	30	170	130	300
13	Ob and Gyn	100	100	80	20+1 0*	30	30	30	140	60	200
14	Paediatric s	100	----	40	10	30	10	10	60	40	100
Total											2450

Record of Delivery cases*Distribution of Marks**

Essay **2x10=20**

Short answer questions **15x4=60**

MCQs **1/2x40=20**

Total **100**

ANNEXURE 3.1

Intellectual Property Policy**Manipal University, Manipal**

The contemporary and stated Intellectual Property Policy of Manipal University endeavors to facilitate the protection and upliftment of intellectual properties generated during the scientific pursuit (of knowledge/resource) in the University and offer scope for ingenuity and commercialization. It targets the provision of unbiased intercession between the various interests involved.

In order to lessen the possibility of adopting a specification or other technology which might infringe on a patent or other IPR, Manipal University will, in the course of carrying out its programme of work, and in accordance with such Policies and Procedures of the University as may be in place from time to time, issue calls to its staff and faculty members to disclose patents or other IPR ("patent calls") which are owned by them, or of which they might be aware, which might be infringed by the implementation of a specification proposed for adoption. Such a patent call shall be made at such times as the Manipal University's policies and procedures shall provide.

Applicability of the policy

The Intellectual Policy (IP) is applicable to following personnel:

1. Employees, faculty members, staff (permanent and temporary), visiting scholars, fellows, research scholars and students who are directly under the Manipal University payroll and/or assistance in the form of fellowships, scholarships, honorarium, either from Manipal University or from outside government and private institutions/agencies.
2. Employees, faculty members, staff, research scholars, visiting scholars, fellows or students who are making use of Manipal University facility and resources to generate IP and invention related issues.
3. Different classes of IP under this policy include Patent, Copyright, Trade Mark / Service Mark, Design Registration, Trade Secret, Confidential Information and Integrated Circuits Layout.

In no case shall the Manipal University be obligated to conduct searches for patents or other IPR which would be infringed by the implementation of a University's specification.

COPYRIGHTS

Any original work of intellectual nature can be protected under copyright law. Ideas per se are not copyrightable but only in their expressed form.

When the copyrightable pedagogical, scholarly, computer software, integrated circuit layouts, designs, films, cassettes and artistic works are created for Manipal University, the author shall retain ownership of their original work, while at the same time granting Manipal University and all implementers of its specifications full rights to revise, modify, and create derivative works based on that original work, under the Manipal University's own copyright.

If the University foresees a gainful return from copyrights, it may initiate steps to file and protect such copyrights and share the financial benefits with the inventor on terms and conditions of the University.

When the copyrightable work is generated for an external sponsor/university/company of foreign country/India then ownership will be jointly shared according to the agreement between external sponsor and the University.

In case of copyrightable work created by non-Manipal University personnel without absolute intellectual contribution of Manipal University personnel and Manipal University resources the respective author shall retain his/her ownership.

Copyrights on books and publications authored by Manipal University personnel shall be in the name of the respective authors.

TRADE SECRETS

Manipal University employees will not be expected to reveal Trade Secret information to the Companies, nor will they be asked to sign non-disclosure agreements. Manipal University cannot be held responsible for the disclosure of any member or non-member's trade secret regardless of the circumstances.

INVENTIONS AND PATENTS

An idea when manifested in tangible form is patentable provided it fulfills the below criteria for patentability:

- Non-obviousness (the invention should be non-obvious to the person skilled in the art)
- Utility (it should be commercially applicable) and
- Novelty (invention may relate to a new product or an improvement of an existing one or a new process of manufacturing an existing or a new product)

If such a patentable invention is developed at Manipal University and qualifies for protection under the relevant acts of government related to patents then patent belongs to Manipal University. It can be in the form of know-how, solutions, processes, genetically engineered microorganisms, scientific or technological developments, business models and other forms

as the need arises. The filing of a patent application shall be with the researcher as named inventor.

An individual, who obtains a patent or introduces an Invention into public domain without use of resources from the University, and without substantial involvement by the University personnel, shall be entitled to all royalties sanctioned.

Whenever any patentable invention obtained under research or a related activity between an external sponsor and the University then it is subject to agreement between them.

Member shall grant to each of the other Members and their respective affiliates, a nonexclusive, worldwide, perpetual, irrevocable, non-sub licensable license under any (if any) of such Member's claims in its contributions, solely to make, have made, use, import, offer to sell, sell and otherwise distribute and dispose of compliant portions; provided that such license need not extend to any part or function of a product in which a compliant portion is incorporated that is not itself part of the compliant portion. Such license shall be granted on a royalty-free basis or will be subject to otherwise reasonable and nondiscriminatory terms.

ROYALTY SHARING

Net revenue received by the University shall be distributed as follows, unless otherwise specified in arrangements for commissioned works.

	Up to Rs.100 lakh	Rs.100 lakhs- Rs.200lakh	>Rs.200 lakh
Inventor	70%	50%	30%
University	30%	50%	70%
Total	100%	100%	100%

When more than one inventor contributes for the generation of the intellectual property then the Head of the Institution shall prescribe the distribution of income, taking into account each individual's contribution.

TECHNOLOGY TRANSFER

Manipal University shall commercially exploit the intellectual property of the University or jointly owned with other institute/university/industry under the agreements dealing with technology transfer, licensing and revenue sharing models.

In the case of sponsored activity, the sponsored industry/organization will have the first right to commercially exploit the Intellectual Products originating from the collaboration activity, whether or not the same have been formally protected by patent(s).

In the case of sponsored activity, if the sponsored industry/organization fails to commercially exploit the intellectual products formed within **one/two** years from the first date of development of the technology, then Manipal University reserves the right to transfer the said

know-how to a Third Party for its commercial exploitation. However, Manipal University shall share the net revenues derived henceforth with the sponsored organization/industry as per the **agreement regarding technology transfer**.

CONFLICT OF COMMITMENT AND INTERESTS

To manage and minimize conflict over intellectual property rights, all potentially patentable inventions created or discovered by faculty members in the course of their University activities, or with the use of University resources, must be disclosed to the University on a timely basis (“Patent calls”).

The inventor(s) should disclose any conflict of interest or any potential conflict of interest to the respective Heads of Institutions.

In case of any disputes regarding the implementation of IP policy, efforts shall be made to attend to the concerns of the inventor(s) by developing and incorporating an arbitrary mechanism and arrangement. The decision taken in this regard by the Head of institution would be final.

INFRINGEMENTS

Manipal University shall retain the right to engage in or abstain from or not in any lawsuit concerning patent and license infringements.

Manipal University shall ensure that Manipal University personnel have an insurance clause built into the agreement with the licensee(s) while transferring technology or copyrighted material to licensees.

MODUS OPERANDI

All applications for patents should be dispatched to respective Head of Institution, irrespective of whether the inventions have resulted from the in-house research/project, or projects under sponsored activity.

The application for patent shall be analyzed/inspected by the IP Advisory Board comprising of the following persons:

SL #	Names of persons	Designation
1	DrH Vinod Bhat, PVC , MU	Chairman
2	Dr GK Prabhu, Registrar, MU	Member
3	Dr K Satyamoorthy, Director, SOLS, Manipal	Member
4	Dr N Udupa, Principal, MCOPS, Manipal	Member
5	Dr Manohar Pai MM, Associate Director - Innovation Centre, MIT, Manipal	Member
6	Dr Raviraj Adhikari, Associate Director – R&D, MIT, Manipal	Member
7	HoI of the concerned Institute	Member
8	Mr Chandrashekar Prabhu, Legal Officer, MU	Convener

The inventor(s) has to give a presentation of their invention in front of the personnel of IP Advisory Board. Based on the judgment by the IP Board further processing of the application shall proceed through the assigned attorney or agency by the IP Board

If the inventor(s) decides to abandon or withdraw the application for a patent at some mid-stage of processing, prior approval of IP Board is mandatory.

Manipal University reserves the right to modify the above policy as deemed fit from time to time.

Dr G K Prabhu

Registrar

Manipal Institute of Technology

(A Constituent Institution of Manipal University)

Post Doctoral Research & Publications**Guidelines****Objectives:**

- To develop/setup Research grade infrastructure in the Institute
- To promote post-doctoral research activities

Guidelines:

Eligibility: Full time faculty members of MIT with a PhD degree in Science/Engineering.

Conditions:

1. Grant money to be spent by the end of financial year of sanction.
2. The amount to be utilized for actual cost towards research activities such as equipment and consumables. This excludes computers & peripherals, stationery, travel, salaries, fellowships, etc.
3. The outcome of the proposed research work is expected to lead to
 - i) ONE publication in a refereed International Journal of repute with a good impact factor and
 - ii) ONE presentation in an International / National Conference of repute

AND/OR

A National/International patent
4. Duration of the project/research will be TWO years from the date of sanction/approval.
5. The grant should not be utilized for the PhD work of the faculty members.
6. The one-time grant shall be limited to Rs. 6 lakhs (Max. 5 lakhs for capital items).
7. A faculty member once awarded with a grant becomes eligible for the same only after THREE years.

Selection/Approval/Monitoring:

1. The Institutional Research Committee will screen and shortlist the proposals and recommend to the Manipal University for approval.
2. The Institutional Research Committee will monitor the progress of research work/project periodically.

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3. The Institutional Research Committee will be as follows:

Chairman	:	Director, MIT
Co-chairman	:	Joint Director, MIT
Convener	:	Associate Director - R&D, MIT
Members	:	HOD of the proposing Department and Two subject experts – nominated by Chairman in consultation with the HOD, from within the Department/Institute/University.

How to apply?

Interested faculty members may submit their proposals to the office of Associate Director-R&D, MIT in the following format:

PART-A

Personal profile of principal investigator which includes –

Name, designation, Department, educational qualifications, specialization, research experience, abstract of PhD thesis, publications, details of co-investigators if any, details of grant from other agencies, if any.

PART – B

Research proposal covering the following aspects in brief –

Introduction, literature review, importance of proposed research, methodology, expected outcome, plan of action/time line etc.

PART – C

Budget proposal covering the expenses towards –

Equipments and consumables, if any

– Approved –



REGISTRAR
MANIPAL UNIVERSITY
MANIPAL

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POSTDOCTORAL RESEARCH & PUBLICATIONS

Objectives

- To develop/setup Research grade infrastructure in the Institute
- To promote post-doctoral research activities

Guidelines: Approved by Manipal University

Ref: MU/REG/MIT dated October 26, 2011

Projects Approved in 2010:

No. of projects approved	:	07
No. of projects undertaken	:	04
Total Grant sanctioned (4 projects)	:	Rs. 12,05,000
Total amount spent on equipment & Consumables	:	Rs. 11, 65, 979

Progress – Project wise:

1. Structural & Non-linear properties of ZnO nano films prepared by Spray Pyrolysis

Principal Investigator: **Dr. Rajendra B V, Physics**

Grant sanctioned: **Rs. 1, 40,000**

Equipment procured: **Spray Pyrolysis setup – I-Tech Ceramics**

Research output: Publications

Conference proceedings - **02**

Journal: **01 (Published) + 01 (under review)**

Conference:

1. VinayakBhat and B V Rajendra, Effect of substrate temperature on optical properties of zinc oxide thin films prepared by spray pyrolysis method, Proceedings of International Conference on Thin Films and Applications, March 15-17, 2012 held at Sastra University, Thanjavur- India
2. B V Rajendra, VinayakBhat and DhananjayaKekuda, Optical Properties of Zinc Oxide (ZnO) Thin Films Prepared by Spray Pyrolysis Method, Proceedings of 4th International Conference on Solid State Science and Technology, 18-20, December 2012 held at Holiday Inn Malacca Malaysia.

Journal:

1. B V Rajendra, VinayakBhat, DhananjayaKekuda, Influence of Processing Parameters on the Optical Properties of Zinc Oxide Thin Films Grown by Spray Pyrolysis, International Journal of Emerging Technology and Advanced Engineering, Volume 3, Issue 8, August 2013, 82-85.

2. B. V. Rajendra, Influence of preparation parameters on the structure and optical properties of ZnO thin films, Current Applied Physics (communicated)

2. Preparation and Characterization of Rare earth Doped Fluoride glasses

Principal Investigator: Dr. Sudha D Kamath, Physics

Grant sanctioned: Rs. 3, 50,000

Equipment procured: UV/VIS Spectrophotometer with desktop spectrometric software from OCEAN OPTICS

Research output:

Conference - 03

Journal: 01 (published) + 01 (Under Review)

Publications:

Conference:

1. M. PrajnaShree, AkshathaWagh, Y. Raviprakash, Sangeetha G. Bhat, and Sudha D. Kamath, Physical and optical properties of Pr₆O₁₁ doped zinc fluoroborate glass, AIP Conf. Proc. 1536, doi: 10.1063/1.4810368, 597-598 (2013)
2. AkshathaWagh, K.K.Mahato, R.Lakshmikanth, R.Rajaramakrishna, and Sudha D Kamath, Optical Properties of Eu₂O₃ doped Lead Fluoroborate Glass, AIP.Conf.Proc. 1447, doi: 10.1063 /1.4710115, 537-538 (2012).
3. AkshathaWagh, Raviprakash Y., Samngeetha G. Bhat, Sudha D Kamath, Optical Properties of 20PbF₂-20 TeO₂-(60-x) B₂O₃-x Eu₂O₃ Glasses, Poster presentation, National conference on Condensed Matter Physics and Applications, MIT, Manipal, Dec 27-28, 2012.

Journal:

1. PrajnaShree M, AkshathaWagh, Raviprakash Y, Sangeetha B, Sudha D Kamath, Characterization Of Pr₆O₁₁ Doped Zinc Fluoroborate Glass, European Scientific Journal June 2013 edition vol.9, No.18 ISSN: 1857 – 7881 (Print) e - ISSN 1857-7431

3. Synthesis of some Benzopyranones and its biological activity

Principal Investigator: **Dr. Anil Kumar, Chemistry**

Grant sanctioned: **Rs. 2, 50,000**

Equipment procured: **Customized Microwave Oven for Chemical Synthesis from Enerzi Microwave systems**

Research output:

- 1800 natural coumarins selected for this study
- 650 non-mutagen and non-carcinogen coumarins were selected for next level of screening.
- Seven molecules were synthesised and characterised by IR.

Publications:**Conference:**

1. U. Sachin Raj, Rameesa Akbar, Sumanth Kumar Jain B, Vasuda and N.V. Anil Kumar, Virtual screening of Biological activity of natural coumarins using PASS, Proceedings of Conference “Simulating the Learners for research in Biotechnology”, June 8-9, 2012, Dept of Biotechnology, SIET Tumkur.

4. Design and Development of an experimental rig to test an active externally adjustable fluid film bearing

Principal Investigator: **Dr. SatishShenoy B, Aero & Auto Engg**

Grant sanctioned: **Rs. 4, 65,000**

Equipment procured: **Micro Eplison - Displacement probes, DC motor – Drive with speed control and other accessories.**

Research output:Publications

Conference:

1. SatishShenoy, RaghuvirPai B, Effect of Turbulence and Offset Loading on the Performance of a Single PadExternally Adjustable Fluid Film Bearing, Proceedings of the ASME 2012International Mechanical Engineering Congress & Exposition, IMECE2012 November9-15, 2012, Houston, Texas, USA.

Journal:

1. SatishShenoy, RaghuvirPai B, Effect of nanoparticles additives on the performance of an externally adjustable fluid film bearing, Tribology International 45 (2012) 38–42.

Projects Approved in 2011:

No. of projects approved	:	09
No. of projects undertaken	:	06
Total Grant sanctioned (6projects)	:	Rs. 26,30,000
Total amount spent on equipment & Consumables	:	Rs. 24,35,000

Progress – Project wise:**1. Fabrication of Manganite based Bolometers**

Principal Investigator: **Dr. Ashok Rao, Physics**

Grant sanctioned: **Rs. 3,35,000**

Equipment procured: **Constant current source (Keithleymake Model 6220)**

Research Status: **Sample preparation – completed**

Characterization – in progress

2. Environmental Geochemistry of two tropical rivers along the southwest coast of India

Principal Investigator: **Dr. K Balakrishna, Civil Engg**

Grant sanctioned: **Rs. 1, 50, 000**

Equipment procured: **YSI multi-parameter apparatus**

Research Status: **Sample Collection – complete Analysis of samples – in progress**

3. Exploring the anticancer activities of novel 1,3,4-oxadiazoles, thiadiazoles and triazoles

Principal Investigator: **Dr. Santosh L Gaonkar, Chemistry**

Grant sanctioned: **Rs. 5, 00, 000**

Equipment procured: **Orbit parallel synthesis system, Oil free vacuum pump, Digital stirrer with sensor**

Research Status:

- Synthesis of 2-(6-Chloro-9H-carbazol-2-yl) propanoic acid
(Published in *Research Journal of Pharmaceutical Sciences*)
- Synthesis of new series of new series of 2,-5-disubstituted 1,3,4-oxadiazoles
(Published in *Research Journal of Chemical Sciences*)
- Synthesis of a new series of N-substituted 2-butyl-5-chloro-4-formyl-3H-imidazole derivatives
(Communicated to *Journal of Heterocyclic Chemistry*)

Biological evaluation: It is under progress in collaboration with MCOAHS, Manipal, Justice K.S. Hegde medical Academy, Mangalore and Department of Biotechnology, University of Mysore.

Research output: Publications

Journal:

1. **S. L. Gaonkar**, Mahendra M, NanjundaSwamy S., ShettyNitinkumar, Synthesis and Crystal Structure studies of Diethyl-(6-chloro-2-carbazolyl) Methyl malonate and intermediate in the synthesis of Anti-inflammatory drug carprofen, *Res. J. Pharmaceutical Sec.*, 1, 16-22, 2012.
2. Namratha. B., S. N. Shetty, D'Souza Janice, **S. L. Gaonkar**, Synthesis and Characterization of a New series of 2-(5-bromothiophen-2-yl)-5-substituted-1,3,4-Oxadiazoles, *Res. J. Chem. Sci.*, 3, 51-55, 2013,
3. Namratha B., A. S. Pednekar, N. S. Shetty, **S. L. Gaonkar**, Synthesis and Characterization of a new series of N-substituted 2-butyl-5-chloro-4-formyl-3H-imidazole derivatives, *J. Heterocyclic Chemistry*, 2013 (Communicated)

4. Production of bioethanol in continuous bioreactor (Fermentor)

Principal Investigator: **Dr. B S V S R Krishna, Chemical Engg**

Grant sanctioned: **Rs. 5, 50, 000**

Equipment procured: **Fermenter with pH and temperature probes, Peristaltic pump, Compressor**

Research Status: **Objectives are fulfilled**

Research output:Publications

Conference:

1. B S V S R Krishna, Variation of immobilized particle size with Sodium Alginate concentration for Bio-ethanol production in a batch reactor, Proceedings of International Conference in WORLD BIOTECH CONGRESS during May 4-6, 2012.

Journal:Draft of a journal paper is ready and will be communicated in this month.

5. Process parameters Optimization of Carbon Fibre Reinforced Polymer Composites drilling through Modeling and Simulation

Principal Investigator: **Dr. L L Raj Rodrigues, H & M**

Grant sanctioned: **Rs. 1, 20, 000**

Equipment procured: **High resolution flat bed scanner**

Research Status: **Fabrication of material - completed**

Experimental work – ongoing

6. Scalable Medical Video Transmission over Wireless Networks for Telemedicine Application

Principal Investigator: **Dr. KarunakarA Kotegar, DCA**

Grant sanctioned: **Rs. 6, 00, 000**

Amount Spent: **Rs. 5, 19, 300**

Equipment procured: **Exata 2.3 Research License with Libraries and Samsung TabletP7500 Galaxy Tab 10.1 3G**

Research Status:

SVC video is streamed over the heterogeneous network simulated using Exata emulator and identified the suitable layers for different network conditions.

Research Output: Publications

Conference:

1. Karunakar A K, Krishnamoorthi M, Ramakrishna, Estimation of Scalable Video Adaptation Parameters for Media Aware Network Elements”, in proceedings of International Conference of Computer System and Communication COMSNETS’14, Jan 7-10, 2014 (IEEE Explore) (Accepted) (Tire-I conference)

Projects Approved in 2012:

No. of projects approved	:	10
No. of projects undertaken	:	10
Total Grant sanctioned	:	Rs. 35, 75, 000

Progress – Project wise:

1. **Investigation and Physical Realization of Sliding Mode Controller for the Conical Tank System**

Principal Investigator: **Dr.I.Thirunavukkarasu, ICE**

Grant sanctioned: **Rs. 1, 20, 000**

Equipment procured: **Process tank, Pump, Differential pressure transmitter, Control Valve, Rotameter and DAQ system**

Research Status: Mathematical modeling of process/conical tank, conventional controller design, robust controller design, implementation and real time experimentation completed

Research output: Draft of the paper to be communicated to a journal is ready.

2. **Cross linked biopolymer carrier matrix for transport of bioactive molecules**

Principal Investigator: **Dr.Goutam Thakur, BME**

Grant sanctioned: **Rs. 2, 80, 000**

Equipment procured: **Homogenizer, Hot Air Oven, Digital Micrometer**

Research Status: Different blends of hydrogel are prepared using different concentrations of gelatin and they are characterized.

Research output: Yet to publish the results

3. **Experimental And Simulation Studies On Integrated Solar Bioprocess For Industrial Effluent Treatment**

Principal Investigator: **Dr.SShanmugaPriya, Chemical Engg**

Grant sanctioned: **Rs. 4, 25, 000**

Equipment procured: **TOC Auto sampler - Shimadzu Corporation, Japan**

Research Status:

- Studies on Integrated solar bioprocess for treatment of dairy effluent using low concentrating solar collector with biosorption process.
- Studies on solar treatment of pulp and paper industrial wastewater and pesticide/insecticide wastewater.
- Studies on Integrated solar bioprocess for treatment of pharmaceutical effluent is in progress by using *Pseudomonas aeruginosa* bacteria

Research output: Publications

1. S.ShanmugaPriya, Manish Ratna, Rahul Shrivastava “Design And Performance Evaluation Of Solar Trickle Down Reactor For Cypermethrin Effluent Treatment”, International Journal of ChemTech Research CODEN(USA): IJCRGG ISSN : 0974-4290, Vol.5, No.2, pp 629-633, April-June 2013.
2. S. ShanmugaPriya, UmairIqbalMahadi “Effect of different absorbing materials on solar distillation under the climatic condition of Manipal”, International Journal of Application or Innovation in Engineering & Management (IJAIEM), ISSN 2319 – 4847, Volume 2, Issue 5, May 2013.
3. S.ShanmugaPriya, AmitAnand “Design of Coupled Solar PhotocatalyticBiosorption Process for degradation of Dairy Effluent”, Journal of Petroleum and Environmental Biotechnology,ISSN : 2157-7463, Vol:4, Issue :6, Nov 2013.DOI : 10.4172/2153-0602.S1.002
4. S.ShanmugaPriya, Rajesh Kumar Gurjar, Khan Ismail Abdullah “Experimental Studies On Design And Optimization Of Efficient Solar Detoxification For Treatment Of High Turbid Paper Mill Wastewater”, Journal of Renewable and Sustainable Energy, Communicated, July 2013.

4. Comparative study of adobe bricks made using industrial byproducts

Principal Investigator: **Dr.JagdeeshaPai B, Civil Engg**

Grant sanctioned: **Rs. 1, 75, 000**

Equipment procured: **ItgeOth Equipment**

Research Status:Bricks are prepared using fly ash blends. Characterization is in progress

Research output: Yet to publish the results

5. Nanoporous Alumina Template assisted fabrication of Nanostructures

Principal Investigator: **Dr. Mohan Rao K, Physics**

Grant sanctioned: **Rs. 5, 40, 000**

Equipment procured: **Spin coating equipment, ultrasonicator, power supply, chiller, Keithly scanner card, Centrifuge**

Research Status: Nanostructured films are fabricated. Characterization is in progress

Research output: Yet to publish the results

6. Transparent conducting oxides for photovoltaic applications

Principal Investigator: **Dr. DhananjayaKekuda, Physics**

Grant sanctioned: **Rs. 5, 10, 000**

Equipment procured: **digital thickness monitor from INFICON,dc power supply for the magnetron sputtering, digital multimeter from the FLUKE Company.**

Research Status: optimization of the copper oxide thin films for the solar cells is underway

Research output: Yet to publish the results

7. Band gap graded Cadmium based thin film solar cells by SILAR technique

Principal Investigator: **Dr. GowrishRao K, Physics**

Grant sanctioned: **Rs. 4, 50, 000**

Equipment procured: **SILAR deposition system**

Research Status: Cadmium based thin film solar cells fabrication is underway

Research output: Yet to publish the results

8. Synthesis, antimicrobial and anti-inflammatory activities of novel substituted thienopyrimidines

Principal Investigator: **Dr. NitinkumarShetty, Chemistry**

Grant sanctioned: **Rs. 4, 65, 000**

Equipment procured: **Buchi Rotary evaporator, Digital magnetic stirrer, vacuum pump**

Research Status:

- Synthesized some of the biologically potent morpholine substituted thienopyrimidine derivatives from the simple cyclic ketones.
- Synthesized some novel thienopyrimidine and triazolothienopyrimidinederivatives. This work has been accepted in the forthcoming conference for publication and for oral presentation.

Research output:

1. NitinkumarShetty, A Facile Microwave-Assisted Synthesis of Novel Thienopyrimidines and Triazolothienopyrimidines and their Antimicrobial Activities, International ConferenceIICBE Jan. 2014 (Phuket) (accepted)

9. Physio-chemico-thermo-mechanical properties of Green Composites

Principal Investigator: **Dr. S Balaji, Biotechnology**

Grant sanctioned: **Rs. 1, 50, 000**

Research Status:

- Improving the ageing resistance of polymers by subjecting to chemical treatments, UV exposure and by developing innovative approaches covering mechanical, chemical and physiochemical aspects.
- Development of multilayered starch-based and chitosan-based films for packaging applications.
- Generation of porous biocomposite for sustained release of drugs or enzymes.
- Development of thin layer blends for electrical conductance.

Research outcome: Physio-chemical properties of selected biopolymer blends are promising to study further to explore sustained release of drugs or for packaging applications.

10. Bionano Hydrogel for wound healing applications

Principal Investigator: **Dr. Ganesh B, Biotechnology**

Grant sanctioned: **Rs. 4, 60, 000**

Equipment procured: **High pressure homogenizer or Sonicator**

Research Status:

- Mucilage of Anacardium occidentale was collected from Central Plantation Crops Research Institute
- Hydrocolloidal aggregate of MAO was made to hydrogel and characterized
- Clinical applicability studies are planned and the research work is progressing.

Research output: Yet to publish results

ANNEXURE 3.2B

Important Visitors/Guest Lectures/Collaborations

Department of Atomic and Molecular Physics

Name of the Visitor	Purpose of visit	Date of visit
Dr Junichro Kono, Professor of Rice University, Texas, USA	SPIE visiting lecture plus Dr TMA Pai Chair for Bio-photonics	Jul 20, 2014
Dr P D Gupta Director, RRCAT, Indore	National Laser Symposium -22	Jan 8, 2014
Dr P K Gupta Head of the Laser Biomedical Applications and Instrumentation Division, RRCAT, Indore	National Laser Symposium -22	Jan 8, 2014
Prof Dr D N Rao School of Physics, University of Hyderabad, Hyderabad	National Laser Symposium -22, UFS-2014	Jan 8, 2014 Oct 30, 2014
Dr Deepak K Palit BARC, Mumbai	UFS-2014	Oct 30, 2014
Dr Sudipta Maiti Department of Chemical Sciences, TIFR, Mumbai		
Dr Joerg Nestler Fraunhofer University, Germany	Advances in Medical Technology towards Current Healthcare Necessities, Manipal University	Mar 7, 2014
Dr R A Yadav, Department of Physics, Banaras Hindu University, Varanasi	Dr TMA Pai Endowment Chair for Bio-photonics	Jun 11, 2014

Department of Commerce

Name of the Visitor	Purpose of visit	Date of visit
Mr Ashok Gupta, Adjunct Faculty	Guest Talk	Feb 21-22, 2014
Marianne Lewis - Associate Dean for Undergraduate Programs, Professor of Management Carl H Lindner College of Business, University of Cincinnati	Academic discussion with faculty and students	Feb 24, 2014
Vivek Choudhury - Associate Dean for Graduate Programs, Professor of Information Systems, Carl H Lindner College of Business, University of Cincinnati		
Debashis Paul- David Sinton Professor of Economics, Ronald J Dornoff Fellow of Teaching Excellence Academic Director, MA in Applied Economics Program Carl H. Lindner College of Business University of Cincinnati		
Prof Laxminarayana Karanth, Head, Dept of Commerce, MGM, Udupi	Guest talk	Mar 6, 2014
Prof Narayana Tantri, Head, Department of Statistics, Bhandarkar's College, Kundapur	Guest talk	Mar 5, 2014
Prof Alan Win, Senior Lecturer, Logistics & Supply Chain Management, Massey University	Academic interaction	Mar 23-25, 2014
Ms Patricia Poppendick from Saxion University of Applied Sciences, Netherlands	Orientation on Summer Course	Apr 16, 2014
Dr Ravindra Nayak, Lecturer, Federation University	Academic interaction	Jun 19, 2014
Professor Paul Childerhouse, Director Logistics & Supply Chain Management Programme, Massey University, New Zealand	Special talk for Faculty Members & Research Scholars	Jul 19, 2014

Professor Paul Childerhouse, Director of Logistics & Supply Chain Management	Academic interaction	Jul 21, 2014
Mr Sai Sridhar, Counsellor, CII Institute of Logistics, Chennai	Guest talk	Jul 21, 2014
Ms Jessica Bergström Grahn, Alumni Coordinator Mr Greg Neely, International Coordinator, Faculty of Social Sciences	Academic interaction	Dec 11, 2014

Department of European Studies

Name of the Visitor	Purpose of visit	Date of visit
Prof Hans Jansen	Strengthening of collaboration between Manipal University and European universities, specially Hochschule Bremen University of Applied Sciences, Germany	Nov 16-19, 2014
Prof (Dr) Gisela Müller-Brandeck-Bocquet	Special Lecture on International Relations and European Union	Sep 27, 2014
Ms Silvia Costantini	Inauguration of EU Kinotekas 2014, Information Seminar on Erasmus+ and European scholarships for faculty members of University, and Special lecture for European Studies students	Oct 13-14, 2014
Dr Animesh Bahadur	Workshop on Humanism in Europe	Aug 12, 2014
Dr Sushant Kumar Sarma	Workshop on Research writing	Aug 16, 2014
Prof Jayaraj Amin	Workshop on Indo-EU relations	Aug 21, 2014
Prof Prasad Rao	Workshop on European literature	Aug 25, 2014
Prof Varadesh Hiregange	Workshop on Creative writing	Aug 20, 2014
Prof K Phaniraj	Workshop on European cinema	Aug 28, 2014
Dr Meera Baidur	Workshop on Critical thinking	Aug 11 and 13, 2014

Department of Geopolitics and International Relations

Name of the Visitor	Purpose of visit	Date of visit
Prof Marcin Kaczmarek, Institute of International Relations, University of Warsaw	Special lecture series on Poland's Foreign Policy	Nov 24-29, 2014
Themes of the Lectures <ul style="list-style-type: none"> • Poland in Transition since 1989 • Evolving Contours of Poland's Foreign Policy • Emerging Poland and its Role in EU Economy • Poland's Strategic and Security Challenges • Poland-EU Relations: Future Trajectory 		
Prof Marek Madej, Institute of International Relations, University of Warsaw	Special lecture series on Poland and NATO	Oct 20-25, 2014
Themes of the Lectures: <ul style="list-style-type: none"> • NATO: Genesis, History and Evolution • NATO and its External Engagements: An Assessment • Current and Future Challenges of NATO • Relevance of NATO: A Polish Perception • Emerging Challenges to Polish Security Policy 		
Prof Karina Jędrzejowska, Institute of International Relations, University of Warsaw	Special lecture series on Poland and Central Europe in International Relations	Apr 23 – May 02, 2014
Themes of the Lectures: <ul style="list-style-type: none"> • Role of the EU in Asian Economic Architecture • The World Economic Meltdown and its Implications for Central and Eastern Europe • Economic Transformation in Central and Eastern Europe and India-Comparative Prospects • Political Economy of Central and Eastern Europe • Challenges to India-EU Economic Relations • Challenges to the European Monetary Integration after the Sovereign Debt Crisis <p style="text-align: center;">Understanding the Evolving Contours of India-Poland Economic Relations</p>		
Prof M D Nalapat, Honorary Director, Geopolitics and International Relations, Manipal University	Special lecture on Emerging India: Geopolitical Challenges and Prospects	Aug 13, 2014

Shri (Dr) Vinay Sahasrabuddhe, Director General, Rambhau Mhalgi Prabodhini and Incharge of BJP's National Good Governance	Interaction on India and South Asia	Jul 21, 2014
Shri Tarun Vijay, Member of Parliament, Rajya Sabha and Member of Consultative Committee of the Ministry of External Affairs	Interaction on Sino-Indian Relations in Modi's Regime	Jun 23, 2014
Ambassador Rakesh Sood	Special lecture on Challenges to the Article VI of the NPT and Nuclear Disarmament	Mar 19, 2014

Department of Public Health

Name of the Visitor	Purpose of visit	Date of visit
Dr Swapan Garain Professor in Social Work Tata Institute of Social Sciences, Mumbai	Guest Lecture on Social Entreneurship	Jan 2014
Dr Ravinder Mamtani Professor of Public Health, Associate Dean for admissions	Guest lecture	Mar 22, 2014
Dr Jayantha Liyanage WHO, Bangladesh	Guest lecture	Mar 29, 2014
Dr Unni Karunakara Medicine Sans Frontier (MSF)	Guest lecture	Aug 23, 2014
Dr Ranganathan Retired Professor, Department of Psychiatric Social Work, NIMHANS	Guest Lecture	Aug, 2014
Ms Vidya Gomes Manager – Training and Development, Manipal Media Networks, Manipal	Guest Lecture	Aug, 2014
Mr Bharat Shetty NACO Delhi	Guest lecture	Sep 1, 2014
Dr Raj Narayan Tiwari NIOH	Guest lecture	Sep 19, 2014

Ahmedabad		
Dr Raj Warrior USA (Former Vice Chancellor Manipal University Manipal)	Guest lecture	Oct 18, 2014
Mr Sandeep Patil Applied Cognition Systems Pvt Ltd	Guest lecture	Oct 18, 2014
Dr Mary Mathew (Professor of Pathology & Chair of Manipal Unit of UNESCO Chair in Bioethics), Dr (Col) M Dayananda (Medical Superintendent and COO, Kasturba Hospital, Manipal) and Dr G Arun Kumar (Head, Department of Virus Research, Manipal University).	Guest lecture on Ebola	Oct 23, 2014
Professor KVS Baliga	Guest lecture	Oct 27, 2014
Ms Shwetha Assistant Professor, Department of Social Work, St Aloysious College, Mangalore	Workshop	Oct 2014

Departments of Statistics

Name of the Visitor	Purpose of visit	Date of visit
Dr N Mohan	MOU and collaboration	Jan 20, 2014
Dale William	Collaboration	Jan 20, 2014
Fabian Tibaldi	Industry Collaboration	Jan 23, 2014
Dr Sheela Misra	Collaboration	Jun 16, 2014
Dr Babu L Verma	Annual Day	Jul 01, 2014
Surendra Yajamanay	Internship for Students	Nov 17, 2014
Dr Surendra Kumar Jain	International Conference	Dec 20, 2014
Andre Leroy	International Conference	Dec 20, 2014
Abraham Barman	International Conference	Dec 20, 2014

Department of Virus Research

Name of the Visitor	Purpose of visit	Date of visit
Dr S M Chitre, UM-DAE Centre for Basic Sciences, University of Mumbai	University guest	Mar 8, 2014
Dr Asraiana Darris, Michigan, USA		Apr 10, 2014
Dr Richard Stone, Science Magazine, Washington DC, USA		Apr 12, 2014
Dr C G Raut, Scientist E, National Institute of Virology, Bangalore		May 4, 2014
Dr M Willis and Dr Raveendranath Nayak, Federation University, Australia		Jun 10, 2014
Dr Roger Hewson, Virologist, WHO collaborating centre for Viral Hemorrhagic Fevers, Public Health England, Porton Down, UK	To explore the possibility of collaboration	Jul 13, 2014
Prof Kalai Mathew, Florida International University, Miami, FL 33140		Aug 4, 2014
Dr Ken Earhart, Director of GDD, CDC-India		Aug 12, 2014
Kayla Laserson, Director of GDD, CDC-India		Aug 12, 2014
Prof John Sinnott, Chairman of Dept of Medicine USA, Florida	University guest	Nov 28, 2014
Dr. Curt Löfgren, Faculty of Medicine, Umea University, Sweden		Dec 11, 2014
Dr. Jenifer Clark, Science Attache, French Embassy		Dec 16, 2014
Ms Lynette J Menezes, University of South Florida		Dec 17, 2014

Faculty of Architecture

Name of the Visitor	Purpose of visit (Topic Covered)	Date of visit
Shri Tushar Mawale General Manager – Urban Planning Reliance NMSEZ, Navi Mumbai	Lecture on Urban Design & Development	Sep 26 – 27, 2014
Mr Ravi Kakkar, Retd Chief Architect CPWD & Urban Design Consultant	Lecture on Urban Design Studio	Sep 30 and Oct 1, 2014
Shri Tanduvshwar Vice President, Prestige Constructions, Bangalore	Lecture on Urban Design Studio Sustainable Practices Studio	Sep 23-25, 2014
Mr Harshad Bhatia, Senior Urban Design consultant and Academician	Lecture on Urban Design & Development Theory	Oct 9-10, 2014
Mr Saurab Popli, Professor at SAP Bhopal and Practicing Landscape Architect	Lecture on Research Methods, Site Planning Studio, Urban Design Studio	Oct 23-24, 2014
Dr Naseer MA, Professor at Department of Architecture, NIT Kozhikode	Lecture on Transportation Facility Design	Oct 31, 2014
Dr K Mohan, Senior Professor, GITAM School of Architecture, Visakhapatnam	Lecture on Research Methods Urban Design Studio Contemporary Architecture	Nov 10-12, 2014
Er Amaranatha SN, Ms Ambika, Ms Keerthi, Ms Hemalatha from Bangalore	Workshop on CYPECAD	Mar 21-22, 2014
Ar Colin Pinto, Practicing Architect from Mangalore	Architectural Design	Mar 19, 2014
Ms Anindita Saha, Interior designer, Manufacturer, Exporter, Empanelled Designer at Office of the Development Commissioner (Handicrafts), Ministry of Textiles, Government of India, Kolkata	Lecture for students on Design Process and Colour and Pattern Forecast	Mar 04, 2014

Dr David Leifer, Senior Professor, Bond University Gold Coast, Australia,	Lecture on developing BIM in Architecture and Design	Feb 19-21, 2014
Dr Iraphne Childs from Australia	Guest lecture on 1) Natural Hazards in Australia 2) Population change and Urban growth in India	Jan 14, 2014
Prof Jayashree Deshpande, Professor and COA Expert from Pune	Guest lecture on <ul style="list-style-type: none"> • Expectations of the Profession and Architectural Education • Outcome Based Architectural Pedagogy 	Jan 14, 2014
Speakers from Somany Ceramic Ltd, Mumbai	Lectures on Flooring technology and its Dynamics	Aug 26, 2014
Ar Prashanth Mohan, Conservation Building photography, Kollam	Workshop on Architectural photography	Sep 19-20, 2014
Mr Sudarshan Nair, Curator of Art Museum, Dubai	Workshop on Studio Wall Painting	
Mr K L Bhatt, renowned artist, Parkala, Udupi	Workshop on Pot and t-shirt painting	
Mr Janardhan Havunje, Welding Scripture	Workshop on Welding with scrap metal	
Mr Sunil Abraham, Ceramic Art, Mangalore	Workshop on Ceramic scripture	
Mr Devaraj Nayak, Parkala	Workshop on Clay modeling	
Ms Veena Rao and Ms Nagaveni, Manipal	Workshop on Fashion Design	

KMC, Manipal

Name of the Visitor	Purpose of visit	Date of visit
Department of Anatomy		
Mr Navin B Chawla Chief Election Commissioner	Guest visit	Jan 17, 2014
Department of Biochemistry		
Dr Shanthi Naidu, Dept of Laboratory Medicine, CARE Hospital, Hyderabad	Guest lecture	Jan 6, 2014

Dr Suchetha Dandekar, Head of Biochemistry Dept, KEM Medical College, Mumbai	Guest lecture	Feb 14, 2014
Dr C Raghothama, Research Faculty, John Hopkins University, USA	Guest lecture	Apr 16, 2014
Ms Shalini Kini, Product Specialist, Clinical Systems Division, Biorad	Training sessions	Mar 3 - Jul 16, 2014
Dr BL Prakash VP, Ras Life Sciences, Hyderabad	Guest lecture	Oct 11, 2014
Mr Narendra Nadig Roche Diagnostics	Guest lecture	Apr 7, 2014
Department of Pharmacology		
Dr Aruna Sree, GNA, Mumbai	Guest Lecture	Mar 21, 2014
Dr Kannan Sridharan Assistant Professor Department of Pharmacology, Subharti Medical College, Subharti University, UP	Guest Lecture	Mar 22, 2014
Dr Shaantanu Shrikrishna Donde Senior Manager Medical and Research Division Pfizer Ltd Mumbai	Guest Lecture	Mar 22, 2014
Dr Sujatha Sridhar Executive Director – Research Compliance University of Texas Health Science Centre, Houston	Guest lecture	Sep 17, 2014
Dr Sangeetha Myles Investigator Site Development Lead, Pfizer, India Ltd	Guest lecture	Sep 26 – 27, 2014
Ms Snehal Chalke Investigator Site Development Lead, Pfizer, India Ltd.	Guest lecture	Sep 26 – 27, 2014
Mr Aju Varghese Pfizer, India Ltd	Guest lecture	Sep 26 – 27, 2014

Department of Pathology		
Dr Vinay Kumar	Guest Lecture	Feb 19, 2014
Dr Nandini Kumar Former Deputy Director, ICMR	Guest Lecture	Apr 26, 2014
Department of Immuno Hematology and Blood Transfusion		
Dr Rajendra Chudhary	CME and Workshop	Jun 7, 2014
Dr B Abhishek		
Dr Arun		
Dr Veena		
Josepja Louis Marie Kelly Vidot, BM	Visit	Oct 13, 2014
Dr Praveen Nelgar	Visit	Dec 11, 2014
Department of Microbiology		
Prof Dr Med Ivo Steinmetz Friedrich Loeffler Institut für Medizinische Mikrobiologie Universitätsmedizin Greifswald KdöR Martin-Luther-Str. 6 17475 Greifswald	Collaboration for Indo- German Project	Nov 26 – 30, 2014
Dr DK Mitra, Cellular Immunology Division, Department of Transplant Immunology, AIIMS, New Delhi	Supervision of Project work	Mar 15-16, 2014
Dr S P Tripathi, Director National JALMA Institute of Leprosy and other Mycobacterial Disease. Agra	Supervision of Project work	Mar 15-16, 2014
Dr Rakesh Sehgal, Professor and Head of Parasitology, PGIMER, Chandigarh	Guest Lecture	May 2-4, 2014
Dr Kapil Goel, Assistant Professor, Department of Parasitology, PGIMER, Chandigarh	Guest Lecture	May 2-4, 2014
Dr Subhash Chandra Parija, Dean (Research), Senior Professor of Microbiology, JIPMER, Panducherry	Guest Lecture	Jun 23, 2014

Department of Forensic Medicine		
Dr Arun M, Professor and Head, Forensic Medicine, J S S Medical College, Mysore	Guest lecture	Feb 8-9, 2014
Department of Community Medicine		
Dr Madhukar Pai, Associate Professor, McGill University, Montreal, Canada, Associate Professor, McGill International TB Centre	Guest Lecture	Mar 29, 2014
Department of Medicine		
Dr Alladi Mohan Adjunct Professor, SVIMS College, Tirupati	Guest Lecture	Sep 8, 2014
Dr Kris Vijay, Cardiologist, USA	Guest Lecture	Oct 7, 2014
Dr Michael Libman, Director, Centre for Tropical Medicine, McGill University, Canada	Guest Lecture	Nov 26, 2014
Dr John Sinnott, Professor and Chair – Internal Medicine, College of Medicine, University of South Florida, Tampa, USA	Guest Lecture	Nov 28, 2014
Department of Nephrology		
Dr ThiagarajanT	Guest lecture	Mar 12 – 15, 2014
Dr K L Gupta	Guest lecture	Mar 23, 2014
Department of Paediatrics		
Dr Shalini Shenoy, Ped Hematooncologist, St Lewis USA	Guest Lecture	Jun 17, 2014
Dr Gururaj Aithal, Neonatologist, UAE	Guest Lecture	Jul 11, 2014

Dr Raj Warriar, Hematooncologist, Ochsner Health Centre for children, UAE	Guest Lecture	Oct 20, 2014
Department of Dermatology		
Dr Abel Francis from Thrissur	Workshop	Jan 5, 2014
Dr Rajesh Balkrishnan, Associate Professor in the department of clinical, social and administrative sciences, University of Michigan, USA	Lecture session for PG students Lecture	Jan 13, 2014
Dr Sandhya I, Department of Pathology, AJ Institute of Medical Sciences, Mangalore	Guest Lecture	Mar 2, 2014
Dr Robert Dawe Consultant Dermatologist, Ninewells Hospital and Medical School, Scotland, UK	CME cum workshop	Aug 24, 2014
Dr Sujay Khandpur Professor, Department of Dermatology, AIMS, New Delhi	CME cum workshop	Aug 24, 2014
Dr Apratim Goel, Dermatologist, 'Cutis Skin studio' Laser Clinics, Mumbai.	Lecture session for PG students	Nov 22, 2014
Dr Munish Paul, Consultant Dermatologist, Delhi	Lecture session for PG students	Dec 20, 2014
Department of Psychiatry		
Dr Shobini L Rao, Ex-Professor and Head, Department of Clinical Psychology, NIMHANS, Bangalore	Psychiatry Update 2014	Nov 15 – 16, 2014
Dr Roopesh, Assoc. Professor, Dept of Clinical Psychology, NIMHANS, Bangalore		

Dr Poornima Bola, Assoc Prof in Clinical Psychology, NIMHANS, Bangalore.		
Dr Hema Tharoor, Assoc Prof SCARF, Chennai		
Dr Arti Behl, Consultant Psychiatrist, Apollo Hospital, Mysore.		
Dr Vijaya Seshadri, Consultant Psychiatrist, Chethana Hospital, Hyderabad		
Dr Ashutosh Chauhan, Consultant Psychiatrist, Sahyadri Hospitals, Pune		
Dr Kirthi Pai, Consultant Clinical Psychologist, Chennai		
Department of Surgery		
Dr Hari Venkat Ramani	Guest Lecture	Oct 4, 2014
Department of Plastic Surgery		
Dr S M Keshwani	Guest visit	Nov 14, 2014
Department of Orthopaedics		
Dr Andrew Smith, Consultant Hand and Upper limb Surgeon from Queen Mary Hospital, Kent	Guest lecture	Apr 13 – 18, 2014
Dr Ivan Wong, Shoulder Surgeon from Canada	Lecture session	Dec 19, 2014
Prof Yasuhisa TANAKA from Tohoku Central Hospital, Yamagata, Japan	Lecture session	Feb 16, 2014

Prof Dennis Wenger, Consultant Paediatric Orthopaedic Surgeon, San Diago, USA	Visitor on campus	Jan 7-9, 2014
Department of Ophthalmology		
Dr Aashish K Bansal, Medical Director, Cornea, Cataract and Refractive Surgery, Centre for Sight, Hyderabad.	Guest lecture	Mar 22-24, 2014
Department of Paediatric Surgery		
Dr Satish Agarwal Professor of Paediatric Surgery, Maulana Azad Medical College, New Delhi.	Research meeting	Jan 29, 2014
Dr Lalit K Mestha Research Fellow Paloalto Research Center Webster, NY 14450		Jun 2014
Dr Krithika Venkataramani Visiting Scientist Xerox Research Center India Bangalore:		
Department of ENT		
Dr Mohan Kumar HM Associate Professor, Department of ENT, Sapthagiri Institute of Medical Sciences and Research Centre, Bangalore.	CME	Dec 20, 2014
Dr Ashok Shenoy Former Director, Kidwai Memorial Institute of Oncology, Bangalore.	CME	Oct 30, 2014
Dr Azeem M, Professor in Dept of Head and Neck Surgery, Sri Devaraj Urs Medical College, Kolar	CME	Oct 30, 2014

Department of Anaesthesiology		
Dr Pankaj Kundra	Guest Lecture	Apr 7, 2014
Dr G Parameshwar	Visitor	Apr 15, 2014
Dr Krishna Prasad	Guest Lecture	Apr 26, 2014
Department of Radiology/Radiodiagnosis		
Dr Krishna, Consultant Radiologist and fetal medicine Specialist, Manipal Hospital, Bangalore	Guest lecture	Jan 15, 2014
Dr Raghu, Paediatric Radiologist and Paediatric Neuro-Radiologist, University of ARKANSAS, USA	Guest lecture	Jul 16, 2014
Mr Nikhil Bhatia, Marketing Manager, Core Imaging, Wipro GE Healthcare Pvt Ltd-	Training	Sep 10, 2014
Dr Anand Bherwani, Medical Affairs advisor, Wipro GE Healthcare Pvt Ltd	Guest lecture	Nov 8, 2014
Dr Rupa Narayanan, Consultant Radiologist Manipal Hospital, Bangalore	CME	Dec 14, 2014
Dr (Major) Vimal Raj, Consultant Radiologist, Narayan Hridayalaya, Bangalore		
Dr Kumar Kallur, Nuclear Medicine Consultant, MIO, HCG, PET CT Centre, Bangalore		
Dr Rajesh Kannan, Consultant Radiologist, Amritha Institute of Medical Sciences		
Dr Radhesh, Chief Radiologist, MEDALL Diagnostic for Karnataka, Bangalore		
Department of Urology		
Dr Venkatesh Krishnamurthy, Prof and Head of Urology, NU Hospital, Bangalore	Guest lecture and MCh Mock Exam	Jun 1, 2014

Dr CS Ratkal Prof. and Head of Urology, Institute of Nephro Urology Hospital Bangalore	Guest lecture and MCh Mock Exam	Jun 1, 2014
Department of Neurology		
Dr Apporva Pouranik, Professor and Head, Department of Neurology, Mahatma Gandhi Medical College, Indore, MP	For Speech Conference	Dec 30 – 31, 2014
Department of Hospital Administration		
Mr Sudhakar Prabhu	Guest Lecture	Nov 18, 2014
Mr Anil Paul Jacob		Nov 11, 2014
Dr Sudhakar Kantipudi		Sep 30, 2014
Department of Medical Genetics		
Professor Loeys Bart, University of Antwerp, Belgium	Collaboration	Nov 16-20, 2014

MCODS, Manipal

Name of the Visitor	Purpose of visit	Date of visit
Dr Rajesh Ahal Professor & Head Institute of Dental Sciences Sehora, Jammu	Alumni Meet 2014	Oct 13, 2014
Dr Alexander Schloss, New York University School of Dentistry	Guest Lecture	Aug 28, 2014
Dr Jyoti Kansal New York University College of Dentistry	Guest Lecture	Aug 28, 2014
Dr Monali Shah Professor KM Shah Dental College Vadodara	Guest lecture	Aug 22, 2014
Dr Harish Shetty Yenepoya Dental College	CPD programme	Oct 24, 2014

Dr Marina Fernandes Goa Dental College	CPD programme	Oct 24, 2014
Dr Sherry Peter Consultant, Aster Medicity Ernakulum	Workshop	Aug 13 -14 , 2014
Dr Latha Rao Consultant, Aster Medicity Ernakulum	Workshop	Aug 13 - 14 2014
Dr Swati Shourie Monash University Australia	Guest Lecture	Aug 23, 2014
Dr Rajasekhar Warriar Former VC Manipal University	Guest Lecture	Apr 4, 2014
Mr Kailash Singh Upasana University, Sweden	Meeting	Mar 28, 2014
Dr Dilip G Naik Dean, Manipal College of Dental Sciences, Mangalore	Chief Guest for the Continuing Professional Development	Dec 13, 2014
BDS students from Jagiellonian University Medical College Poland for Externship in the Department of Oral and Maxillofacial Surgery	Summer Nursing rotation for First year Dentistry Students	Aug 20-31 2014

MCON, Manipal

Name of the Visitor	Purpose of visit	Date of visit
42 students accompanied by three Faculty members from Ngee Ann Polytechnic, Singapore	To observe Overseas Immersion <i>Program</i> (OIP)	Mar 24 - Apr 12, 2014.
Ms Eivind Holt, Ms Elisabeth Ringsrod and Ms Renate Bjrndal from University of Stavenger, Norway.	Observership	Sep 20 - Dec 13, 2014

MCOPS, Manipal

Name of the Visitor	Purpose of visit	Date of visit
Dr Harendra Parekh, Senior Lecturer, University of Queensland, Australia	Guest lecture	Jan 8, 2014
Prof S Ganapaty and Sri SVUM Prasad	PCI Inspection of D Pharm course	Jan 8-9, 2014

Dr G Jagadish, Senior Advisor, USFDA	Interaction with faculty members and research scholars	Feb 11, 2014
Dr Thallam Naga Narayana Rao, Deputy Director, Office of Drugs Control Administration, Warangal	Guest lecture	Febr17, 2014
Prof M Gopal Rao and Prof B Madhava Reddy	PCI Inspection of Pharm D and Pharm D- Post Baccalaureate Programs	February 28 – Mar 2, 2014
Dr Ravindranath Shanbhag, President, Human Rights Protection Foundation, Udupi	Guest lecture	Mar 18, 2014
Prof Kailash Singh, Uppasala University, Sweden	Guest visit	Mar 28, 2014
Prof Dr Richard Scotti, Former Professor, George Washington University	Guest lecture	Mar 31, 2014
Dr Raj P Warriar, Section Head, Paediatric Hematology/Oncology, Ochsner Medical Centre for Children, US , Adjunct Professor, Kasturba Medical College, Manipal and Mangalore and former Vice Chancellor of Manipal University	Guest lecture	Apr 3, 2014
Advocate John Wills from the Premiers Office (Legal Advisor), Dr Anban Pillay, DDG of National Department of Health and Mr F M Mthethwa, HRD Manager, Department of Health	Interaction with faculty & Research Scholars	Jun 23, 2014
Dr B M Hegde, former Vice Chancellor of Manipal University, Manipal	Guest lecture	Jun 18, 2014
Prof Idris Ahmed Rai, Vice Chancellor, Dr Salum Seif Salum, Lecturer School of Medicine and Dr Goloker, High Commission representative of State University of Zanzibar (SUZA)	Collaboration	Jul 7, 2014
Dr Robby Zachariah Tom, Helmholtz Zentrum Munchen, an alumnus of MCOPS	Guest lecture	Aug 30, 2014

Dr Sanjay J Surana, Principal, Dr Sanjay B Bari, Dr Atul A Shirkhedkar, Professor and Vice Principal, Dr Chandaragouda R Patil, Professor & HOD, Pharmacology, Dr Hintendra S Mahajan, Professor & HOD, Pharmaceutics from R C Patel Institute of Pharmaceutical Education and Research, Shirpur (MS)	To visit the facilities	Sep 29 -30, 2014
Mr Sanjeev Chatterjee, Professor, School of Communication, University of Miami, Florida, USA	Academic collaboration	Nov 4, 2014
Md Elin Ljungstrom, International Coordinator, International Office, Umeå Universitet, Northern Sweden	Collaboration	Nov 5, 2014
Dr Padmanabhan, Vice President, R &D, HLL Corporate R & D Centre, Kerala	Industry collaboration	Nov 19, 2014

MIT, Manipal

Name of the Visitor	Purpose of visit	Date of visit
Aeronautical & Automobile Engineering Department		
Dr Rajkumar S Pant, Professor, IIT Bombay	Design and applications of UAV, Air balloons and Air ships.	Jan 24, 2014
Mr Anil Kulkarni, MRPL, Manglore	Maintenance of Rotary equipments	Nov 14, 2014
Department of Biomedical Engineering		
Dr V S Venkatesan, Senior Professor, Hindustan University, Chennai, India	Guest lecture	Sep 13, 2014
Mr Anand Madanagopal, Managing Director, Cardiac Design Labs © Ltd, Bangalore	Guest lecture	Apr 25, 2014
Dr Rajesh Kumar, Head of the department, Nuclear Medicine, KMC, Manipal	Guest lecture	Apr 15, 2014
Professor Alan Murray, Cardiovascular Physics, and Strategic Research Advisor in the Medical Faculty at Newcastle University, UK	Guest lecture	Mar 1, 2014

Mr Prashant Sharma, UMCG, Groningen	Guest lecture	Feb 14, 2014
Department of Biotechnology		
Prof (Dr) P K Ponnuswamy, Former Vice Chancellor, Madras University and Madurai Kamraj University	Guest Lecture -SYMBIOT 2014	Apr 11, 2014
Dr Labanyamoy Kole, GM-R & D and Technical VINS Bioproducts Ltd, A P	Guest Lecture	Apr 12, 2014
Dr Unnikrishnan M K, Professor and Head Department of Pharmacy Practice	Guest Lecture	Apr 12, 2014
Department of Chemical Engineering		
Dr Girish G Rao PhD, Manager-R&D (Bitumen & Sulphur Products) Shell Technology Centre Bangalore-India.	Guest lecture	Feb 26, 2014
Dr Girish G Rao PhD, Manager-R&D (Bitumen & Sulphur Products) Shell Technology Centre Bangalore, India.	Guest lecture	Sep 30, 2014
Dr Leon Ittiachen PhD, Associate Professor, Sahrdaya College of Engg & Tech, Kerala. (Adjunct Professor - Dept of Chemical Engineering, MIT Manipal)	Guest lecture	Sep 6, 2014
Sri Sanjay Venugopal, Senior Technologist, Yokogawa R&D, Bangalore	Guest lecture	Sep 7, 2014
Department of Civil Engineering		
Dr Sunil Kumar Singh, Chair, Geosciences Division, Physical Research Laboratory, Ahmedabad 380 009	Conducting the PhD viva voce of Ms Tripti M and delivery of guest lecture	Dec 12, 2014
Department of Computer Science & Engineering		
Mr Rajendra H Kamath, Senior Manager (Technical), IBM India Pvt Ltd, Bangalore	Technical talk	Sep 20, 2014
Dr Nicolas Sicard, Faculty - Computer Science, EFREI, France	Guest lecture	Oct 27, 2014
Department of Electrical & Electronics		
Mr Chidanand Burji , Lead Technical Architect and Group Edison Expert, Schneider Electric	Guest Lecture	Sep 19, 2014

Mr Simon Kuntam, Manager (Quality Assurance and Industry Automation), Schneider Electric		
Dr K R Rajagopal, Professor, Dept of Electrical Engg, IIT, Delhi	Guest Lecture	Sep 22, 2014
Prof Santanu Chaudhury, Dhananjay Chair Professor, Dept of Electrical Engg., IIT Delhi	Guest Lecture	Oct 1, 2014
Mr Joydeep Banerjee, Lead CAMS TAC Solutioning and Non-India GDC, Regional Lead (East) Campus Hiring and University Relation	Guest Lecture	Sep 6, 2014
Mr Mayank Nagendran, Senior Engineer, PRDC, Bangalore	Training program	Sep 2-4, 2014
Mr Vivek Raju, Mr Prashanth Rao & Mrs Zahida Vaseem Mathworks	Hands-on workshop with LEGO® MINDSTORMS®	Sep 15, 2014
Department of Electronics & Communication		
Dinesh R Nayak Delivery lead in Huawei Technologies , Bengaluru (Alumni of Dept of E&C Engg, MIT, Manipal (BE: 1993-1997 Batch)	Guest Lecture	Mar 1, 2014
Dr Radhakrishna Sampigethaya Associate Technical fellow BOEING Company, USA (Alumni of Dept of E&C Engg, MIT, Manipal (BE: 1993-1997 Batch)	Guest Lecture	Mar 21, 2014
Prof Tarun Kanti Bhattacharya, Professor, Electronics & Electrical Communication Engineering, Indian Institute of Technology, Kharagpur, India	Guest Lecture	Aug 8, 2014
Mr A S Vijay Kumar, Director, Satcom Technologies Pvt Ltd, Hyderabad	Guest Lecture	Aug 23, 2014
Dr Soren Riis, Reader, School of Electronic Engineering & Computer Science, Queen Mary University of London, London E1 4NS, UK	Guest Lecture	Aug 23, 2014

Dr K Vijayan Asari Professor in Electrical & Comp Engg & Ohio Research Scholars Edward Chair in Wide area surveillance at University of Dayton, Ohio	Guest Lecture	Aug 26, 2014
Department of Information & Communication Technology		
Dr Ashok Tiwari, Principal Lecturer, School of Computer Science at the University of Hertfordshire, UK	Guest lecture	Mar 10, 2014
Dr Supratim Biswas, Professor, Computer Science & Engineering, Indian Institute of Technology, Bombay	Technical Talk	Mar 29, 2014
Dr Nikhil Rasiwasi, Scientist, Yahoo Labs, Bangalore	Technical Talk	Sep 5, 2014
Department of Instrumentation and Control Engineering		
Dr M Chidambaram, Professor, Chemical Engg, IIT-Madras, Chennai	FDP on Process Control- Inaugural & Guest Lecture	Jan 5, 2014
Dr Ravindra Gudi, Professor – Chemical Engg, IIT-Bombay	FDP on Process Control- Guest Lecture	Jan 5-6, 2014
Dr K L S Sharma, Vice-President, Automation Training and Learning, Bangalore	CISCON-2014	Nov 7-8, 2014
Dr Gangadaran K V, Professor- Mechanical Engg, NITK, Surathkal	CISCON-2014	Nov 8, 2014
Mr Sanjay Venugopal Yakogowa Ltd, Bangalore	CISCON-2014	Nov 8, 2014
Department of Mechanical & Manufacturing Engineering		
Mr Banmali Agrawala, CEO and President of GE South Asia, (Mechanical Graduate, an Alumnus of MIT)	Chief Guest at Manipal University Convocation held on Nov 9, 2014	Nov 8-9, 2014
Department of Mechatronics		
Mr Renukprasada Belgur, President, ISA, Bangalore	Inauguration of ISA – Mechatronics, Student Chapter	Feb 10, 2014
Shrikar Trikanand – GM Automation	Collaboration, recruitment, discuss development of Automation lab	Jul 31, 2014

Dr Johannes T Grobe, MD, Bosch Rexroth India Ltd	Establishing Excellence Centre of	Nov 8, 2014
Mr Chetan Rajdev, Senior Sales manager, Bosch Rexroth India Ltd	Establishing Excellence Centre of	Nov 8, 2014
Department of Printing & Media Engineering		
Dr Arved Hübler, Chemnitz University of Technology, Chemnitz	Discussion on Cooperation	Nov 22, 2014
Department of Chemistry		
Dr A S Radhakrishna	Guest Lecture	Nov 21, 2014
Department of Humanities and Management		
Mr Chetan B Singai, Research Fellow (EDGE)	Guest Lecture	Sep 16, 2014
Mr Nitin Mascreen, Pathashala, Manipal	Guest Lecture	Oct 7, 2014
Mr S H Keshava GM IOB (Retd)	Guest Lecture	Oct 20, 2014
Department of Mathematics		
Prof Dr E Sampathkumar Emeritus Professor, Mysore University and Managing Editor of Ramanujan Mathematical Society	Guest Lecture	Jan 16, 2014
Department of Physics		
Dr Chethan J Panchal, Professor, MS University, Vadodara, GUJARAT.	Invited Talk	Jan 10, 2014

MSON, Manipal

Name of the Visitor	Purpose of visit	Date of visit
Dr Elissa Ladd	Dr T M A Pai Endowment Chair	Jan 2014
Dr Russell D' Souza	Research expert from Australia	

SOAHS

Name of the Visitor	Purpose of visit	Date of visit
Mr Roshan Mahanama ICC Elite Panel of Match Referee and Former Sri Lankan Cricket player	Interaction with students of Exercise and sports sciences	Oct 10, 2014

Dr Vishwanath University of Houston Texas (US)	Guest Faculty (Optometry)	Dec 10, 2014
Dr Elizabeth A Cada, Dean, Allied Health College of Health and Human Services, Governors State University, Illinois	Resource person	Jan 23-24, 2014,
Dr Divya Sood, Assistant Professor and research Coordinator. Department of Occupational therapy, Governors' State University, Illinois, USA	Resource person	Jan 23-24, 2014,
Dr Mary Butler, Senior Lecturer, School of Occupational Therapy, Otago polytechnic and Dunedin School of medicine, University of Otago, Newzealand	Resource person	Jan 23-24, 2014,
Kavit Desai, Physical therapist and recruiter, Heritagecare , MD 20782	Guest	Nov 15, 2014

SOC

Name of the Visitor	Purpose of visit
Bashabi Fraser, Joint Director, Scottish Centre of Tagore Studies, Edinburgh Napier University	Guest lecture
Neil Fraser, School of creative Arts and Industries, Edinburgh, Napier University	Guest lecture
Neehar Dabade, Music composer & producer/sound engineer/logic pro trainer	Guest lecture
Subhash Kamath, CEO & Managing Partner BBH India, India	Guest lecture
Jayanth Kaikini, Prominent writer & film lyricist, India	Guest lecture
Christian Kim, Violin artist, United States	Guest lecture
Usha Rajgopalan, writer	Guest lecture
Col. Sanjiv Shukla, Commanding Officer 4 Karnataka Engineers NCC Manipal, India	Guest lecture
Commander U T Shrista, Commanding Officer Udupi, India	Guest lecture
Paromita Vohra, Independent Filmmaker, script-writer, writer & columnist, Mumbai, India	Guest lecture

Shiv Visvanathan, Jindal Global University, New Delhi	Guest lecture
Dr Ravindranath Shanbhag, Human Rights activist and RTI, India	Guest lecture
Jan Ytrehorn, Volda University, Norway	Guest lecture
Mathew Allen, Head - School of Communication and Creative Arts, Deakin University, Melbourne, Australia	Guest lecture
K Annamalai, Assistant Superintendent of Police, Karkala Sub-division	Guest lecture
G Vishnu, Journalist, Tehelka Magazine, Tehelka	Guest lecture
Pavan Solanki, Sr Manager - Marketing & Business Development (India), Australia	Guest lecture
Soumya Suresh, National Corporate Lead, India	Guest lecture
Prof Hans Jansen, University of Applied Sciences, Hochschule, Bremen, Bremen University, Germany	Guest lecture
Egbert Baake, Professor, Director of Mechanical Engineering, Director, International Asia, Leibniz University, Hannover, Germany	Guest lecture
Tarun Vijay, Rajya Sabha MP, New Delhi	Visitor
Shefali Anand, Editor, Wall Street Journal, Mumbai	Guest Lecture
Dinesh Khanna, Photographer, New Delhi	Workshop
Sanjay Kak, Documentary Film Maker	Guest Lecture
Javed Iqbal, Journalist	Guest Lecture
Amin Haa, Storyteller	Guest Lecture
Maya Sharma, Editor, Resident NDTV, Bangalore	Guest Lecture
Girish Malik, Producer of Jal Film	Visitor & Interaction
Purab Kohli, Hero of Jal Film	Visitor & Interaction
Ms Kirti Kulhari, Heroine of Jal Film	Visitor & Interaction
Mr Rajdeep Sardesai, Editor in Chief, CNN-IBN	Guest Lecture
Mr Prasanna, Kannada Writer	Guest Lecture

SOLS

Name of the Visitor	Purpose of visit	Date of visit
Prof G Padmanabhan, Prof K Dharmalingam, Prof P S Chauhan, Dr A N Bhisey and Dr D Ramesh Babu	Scientific Advisory Committee Meeting	Jan 3, 2014
Dr Ramananda Shetty, Vice Chancellor, NITTE University	Guest visit	Jan 7, 2014

Prof Angela Brand, Full Professor for Social Medicine and Public Health Genomics, Institute for Public Health Genomics (IPHG), Maastricht University Prof Helmut Brand - Professor of Public Health.	Guest visit and interaction	Jan 10-17, 2014
Mr Rob Voorkamp, Manager, IP Scouting and Acquisition Specialist from Philips, Netherlands	Visit and interaction	Jan 23, 2014
Prof Solomon FD Paul, Professor and Head, Department of Human Genetics, Sri Ramachandra University, Chennai.	Guest lecture	Feb 3, 2014
Mr S G Biligiri, Jagdale Industries, Bangalore	Discussion on Indo-Brazil Grant Meeting with BTFS students	Feb 7, 2014
Prof RK Arni, Full Professor, Structural and Molecular biology Department, IBILCE/UNESP Physical Sao Jose do Rio Preto, Brazil	Guest lecture	Feb 13, 2014
Dr Sanjay Kumar, Resident Commissioner, Government of Jharkhand	Guest visit	Feb 22, 2014
Dr Takashi Imai and Dr Nakayama, Scientists from NIRS, Chiba, Japan.	Indo-Japanese research collaboration	Feb 26-27, 2014
A Delegation from the Queensland University of Technology, Australia comprising of - Prof John Bell, (Head of school for mechanical engineering, physics and chemistry), Prof Steven Bottle, (Prof Science and Engineering Faculty) and Prof Sheel Nuna, (Director South Asia, QUT)	To enhance research and student exchange programs	Feb 27, 2014
Dr M C Gayatri, Bangalore University, Bangalore.	Guest lecture	Mar 24, 2014
Mr Kailash Singh, Department of Medical Cell Biology, BMC, Uppsala University, Sweden.	To explore research collaborations	Mar 27, 2014
Visit of Dr Praveen Bommu, Aptus Biosciences Pvt Ltd, Hyderabad	To discuss project on Dermal Papilla Cells Interaction with BTFS students	Mar 31, 2014

Dr Jagadish Mittur, Head – Biotechnology of KBITS-Department of Biotechnology, Government of Karnataka	Addressed the BTFS students and research scholars	March 2014
Dr Anil Pradhan, Program Director and Ms Priya Kurle, Academic Manager, Ohio State University, USA	To discuss research collaboration proposal	Apr 19, 2014
Prof P Pushpangadan, Padma Shri Awardee, Hon DG, AIHBPD & Senior Vice President, RBEF, Trivandrum	Guest visit	Apr 30, 2014
Dr Shekar Mande, Director, NCCS, Pune	Guest lecture	May 15, 2014
Dr Waleed Rashidi, Dr Sandrine Bourgoin and Dr Philippe Sabatier, France	Workshop	May 19-23, 2014
Dr Phani Nandan Kidambi, Director of Wright State International Gateway, Wright State University (WSU), Dayton, Ohio and Ms Swapna Nair, Director, CECS International Collaborations and Graduate Programs	Collaboration	Jun 3, 2014
Prof Mike Willis, Pro Vice Chancellor and Prof Ravi Nayak, Faculty Business School, Federation University, Ballarat, Australia.	Collaboration	Jun 17, 2014
A delegation from State University of Zanzibar (SUZA) 1. Prof Idris Ahmada Rai - Vice Chancellor 2. Dr Salum Seif Salum - Lecturer School of Medicine AND 3. Dr Goloker, High Commission representative	Collaboration	Jul 8, 2014
Dr Ajit Kumar, PhD, Chief Scientific Officer, Life Cell International Pvt Ltd, Chennai	Collaboration in molecular diagnosis	Jul 11, 2014
Prof Giri Narasimhan (Professor and Associate Dean for Research and Graduate studies, College of Engineering and Computing) and Prof Kalai Mathee, (Assistant Dean and Professor, Office of	Collaboration in bioinformatics and microbiology	Aug 4, 2014

Student Affairs, Herbert Wertheim College of Medicine) - delegates from Florida International University, Miami		
Dr Jagadeesh Bayry, from INSERM (Institut national de la santé et de la recherche médicale), Paris, France.	Guest lecture	Aug 19, 2014
Dr Saravana Prakash T, Visiting Assistant Professor in Physics, University of Quindio, Colombia	Guest lecture	Aug 28, 2014
Dr Girish G Rao, Research Head, Shell, Bangalore.	Guest lecture	Sep 30, 2014
Mr Sanjeev Chatterjee, Miami University, Florida, USA	To promote student exchange	Nov 6, 2014
Dr Sanjeev Jain from Cyno Pharmaceuticals, Delhi	Research collaborations	Nov 14-15, 2014
Dr Bhadrasain Vikram, Deputy Associate Director, Radiation Research Program, Division of Cancer Treatment and Diagnosis, who shared the 2005 Nobel Peace Prize (awarded to the International Atomic Energy Agency, Vienna, Austria, for their contribution to the global cancer control), Dr Pataje G Prasanna and Dr Mansoor Ahmed, Program Directors, Radiation Research Program, and Dr Shankar Gupta, Program Director, Developmental Therapeutics Program, National Cancer Institute (NCI), National Institute of Health (NIH), USA	Collaboration	Nov 17, 2014
Dr P V Bhandary, Psychiatrist and Director of Dr A V Baliga Memorial Hospital, Udupi.	Guest lecture	Nov 21, 2014
Professor Mahua Bhattacharya, ABV IITM Gwalior	EMF project activities	Nov 23-28, 2014
Dr Bhim Bhat, Wyeth Ltd, USA.	Guest lecture	Nov 28, 2014
Dr John T Sinnott, Professor and Chair, College of Medicine Internal Medicine, University of South Florida, Tampa, USA	Collaboration	Nov 28, 2014

Group of delegates from Nelson Mandela Metropolitan University, South Africa	To acquaint with School of Life Sciences' activities	Dec 10, 2014
A delegation from Umea University, Sweden	Research collaborations	Dec 11, 2014
Dr Egbert Baake, Professor of Mechanical Engineering and Dr Balasubramanian Ramani, Director, International Asia - Delegates from Leibniz University, Hannover, Germany	Collaboration	Dec 12, 2014

SOM

Name of the Visitor	Purpose of visit	Date of visit
Mr Sonu Mishra Manager – Recruitment ATRIA Convergence Technologies Pvt Ltd, Bangalore	Placement	Jan 17, 2014
Mr Saurabh Mukherjee Head – Operations ATRIA Convergence Technologies Pvt Ltd, Bangalore	Placement	Jan 17, 2014
Hita Hejmadi Senior Manager – Training and Organization Development ATRIA Convergence Technologies Pvt Ltd, Bangalore	Placement	Jan 17, 2014
Dr T Jagannathan Joint Director – Administration Sir Ganga Ram Hospital New Delhi – 110 060	Guest lecture	Jan 24, 2014
Mr Raghunandan V Vidal Health – HR Team SJRIPARK, Bangalore	Guest lecture	Jan 24, 2014
Marian Jayson Sr. Manager HR, HCG Group of Hospitals Bangalore	Placement	Mar 24, 2014
UPL Das Gm/Admin, Konkan Railway Corporation Ltd, Navi Mumbai, Maharashtra	Project proposal	May 25, 2014

Mr Sunil Kumar Sr Specialist Sales Program Management Accenture, Bangalore	Induction program of MBA & MBA-Healthcare Management	July 7, 2014
Dr Mohit Bhatia CEO, VKARE Bio Sciences Pvt Ltd, New Delhi	Induction program of MBA & MBA-Healthcare Management	July 7, 2014
Dr T J Vidya Sagar Professor & MBA Pad Dr D Y Patil Institute of MBA Pune, Maharashtra	Courtesy visit	July 24, 2014
Dr D G Kheimar Professor & Principal D Y Patil College of Engineering, Pune, Maharashtra		July 24, 2014
Jasmita Kaur Training and Placement Officer D Y Patil College of Engineering, Pune, Maharashtra		July 24, 2014
Prof George Stonehouse Dean of Edinburgh Napier University, Business School, UK	Collaboration	
Mr Prem Kapur Former President, ITC Welcomgroup, Senior Consultant & Advisor to Edinburgh Napier University		
P Prabakaran Country Head – Training and Consulting, TÜV Rheinland (India) Private Limited, Coimbatore, INDIA	Conducted Lead Auditor course on ISO 9001:2008 (Quality Management Service)	Oct 16-20, 2014
Darshana K Madhura Fashions & Lifestyle [Aditya Birla]	Placement	Oct 31, 2014
Ms Vidya/Tyron Manipal Digital System	Placement	Nov 4, 2014
Mr Srikanth Jha (Alumnus SOM) State Head Anheuser-Busch InBev India Pvt Ltd, Bangalore	Guest Lecture	Nov 12, 2014

Mr Naveen Sharma Director - Internal Audit, Oasis Investment Company LLC, Dubai, United Arab Emirates	Placement	Nov 13, 2014
Mr Mangesh Gowda Trans Atlantic Consultants PL, Mumbai, Maharashtra – 400 060	Placement	Nov 14, 2014
Prof Dr Hans G Jansen Head of India Liaison Office, Hochschule Bremen University of Applied Sciences, Bremen	Collaboration	Nov 18, 2014
Mr Sanil Joseph Senior Faculty & Hospital Management Consultant LAI Co. Aravind Eye Hospital, Madurai	Guest Lecture	Nov 27, 2014
Dr Stephan Buse Deputy Director, Hamburg University of Technology (TU Hamburg-Harburg), Hamburg, Germany	Collaboration	Nov 28, 2014
Mr Amritayan Das, Associate District Coordinator, BBC Media Action, Delhi	Workshop	Nov 29, 2014
Grant MacKerron Head, School of Management, The Business School, Edinburgh Napier University, Edinburgh	Exchange program	Dec 03, 2014
Mammad Bagher Director of MBA Programs, Senior Teaching Fellow, School of Management, The Business School, Edinburgh Napier University, Edinburgh	Exchange program	Dec 03, 2014
Mr Avinash Shenoy Director, Lamina Suspension Products Pvt Ltd	Chief Guest for FLAME-2014	Dec 06, 2014
Ms Sinchana, Senior Principal Consulting Manager, Oracle	Resource person for FLAME-2014	Dec 06, 2014
Ms Sanghamitra Bhargav (Alumni of SOM)	Resource person for FLAME-2014	Dec 06, 2014

PR Executive, Flipkart.com Bangalore		
Mr Greg Neely International coordinator Faculty of Social Sciences, Umea University, Sweden	Collaboration	Dec 11, 2014
Mr Viplav Dhandhukia Manager, Technical Analyst Research, Karvy Stock Broking Ltd, Hyderabad	Guest Lecture	Dec 15, 2014
Lakshmi Gopu Manager – Talent Acquisition Ample Technologies, Bangalore	Placement	Dec 29, 2014

WGSHA

Name of the Visitor	Purpose of visit	Date of visit
Ms Mekhla Sinha, Executive Director- GHRDC & Ms. Aradhana ChangkaKoti	Guest Lecture	15 th Jan 2014
Chef.Lawrence , Pastry Chef & Chef.Rajesh from Sahara Hotel Mumbai	Demonstration	10 th to 11 th Feb 2014
Ms.Mathilde Poirrier	Guest Lecture	20 th Feb 2014
Chef.Vishal Lilani	Guest Lecture	06 th to 08 th Mar 2014
Chef Surjit from Hotel Ocean Pearl, Mangalore	Demonstration/ Workshop	18 th & 19 th Mar 2014
Chef.Thomas Zacharias	Demonstration/ Workshop	20 th to 24 th Mar 2014
Mr.Jachim Pinto	Guest lecture	8 th Aug 2014
Chef Girish Nayak	Workshop	15 th to 18 th Sept 2014
Prof. Gary Hoyer & Mr. Greg from George Brown College	Meeting	30 th Oct 2014
Mr.Michael Swamy & Mr.Mugdha Savkar Mumbai	Workshop	18 th to 20 th Nov 2014
Mr. M S Neelakantan Iyer from Pallakad	Workshop	26 th to 28 th Nov 2014
Mr. Siddharth Behera From Knighthood India, Delhi	Demonstration/Workshop	29 th Nov 2014

MMMC, Manipal

Name of the Visitor	Purpose of visit	Date of visit
Dr. Anurag Saincher Department of Emergency Medicine, University of British Columbia, Canada	Normal and abnormal sinus rhythm' -	January 2014
Dr. Anand D Manipal Institute of Regenerative Medicine, Bangalore	“Strategies to improve hippocampal neuroregeneration” -	February 2014
Prof. Zalina Ismail Universiti Sains Malaysia (USM)	Learning with the Brain in Mind: A neurocognitive perspective on the future of teaching and learning	February 2014
Dr. T V Rao Professor of Microbiology, Travancore Medical College	“Be A Successful Teacher”	August 2014
Dr. Jamuna Vadivelu Professor of Microbiology, University of Malaya	“Pathogenesis of Burkho Ideria pseudomallei”	August 2014
Dr. Shashidhar Venkatesh Murthy	"Adaptive E - learning in Biomedical Education”	October 2014

KMC Mangalore

Name of the Visitor	Purpose of visit	Date of visit
Department of Biochemistry		
Dr Smitha Hegde Associate Professor of Biotechnology, St Aloysius College, Mangalore	Guest lecture	Feb 28, 2014
Dr A S Kanagasabapathy Former Prof and HoD of Clinical Biochemistry, CMC, Vellore	Guest lecture	Feb 3, 2014
Department of Pharmacology		
Dr Nagesh Prabhu Associate Director Monitoring, Max Neeman International	Guest lecture	Apr 12, 2014
Dr Kiran Haridas Director - Medical Affairs Biocon Ltd	Guest lecture	Jul 24, 2014

Department of Pathology		
Mr Harish Karnam Sphere team / Medical Affairs /Roche Co	Guest lecture	Oct 7, 2014
Dr Sonika Dahiya, MBBS, MD, FCAP, Assistant Professor Washington University School of Medicine, St Louis USA	Guest lecture	Oct 27, 2014
Dr Vignesh Hologic Co	Guest lecture	Nov 26-27, 2014
Department of Microbiology		
Dr Hemashettar Retd Professor and HoD Department of Microbiology, Chitradurga Medical College	Guest lecture for CME (awarded the 1st Dr N C Ananthakrishna Endowment lecture award)	Feb 1, 2014
Dr Anupama Kindo Professor, Department of Microbiology, Sri Ramachandra University, Chennai	Guest lecture for CME	Feb 1, 2014
Dr K L Gupta, Professor and Head, Department of Nephrology, PGI Chandigarh	Guest lecture for CME	Feb 1, 2014
Dr Arunaloke Chakraborty Professor and Head, Department of Microbiology, PGI, Chandigarh	Guest lecture for CME	Feb 1, 2014
Dr Manjunath Shenoy Prof and HoD Department of Dermatology Yenepoya Medical College	Guest lecture for CME	Feb 1, 2014
Dr Madhukar Pai Associate Director McGill International Tuberculosis Center, Montreal, Canada	Guest lecture	Mar29, 2014
Dr K N Brahmadathan Director Microbiology Laboratory Research & Services India Pvt Ltd, Coimbatore.	Guest lecture	Aug 4, 2014
Dr Sangeetha Joshi Consultant Microbiologist Manipal Hospital, Bangalore	Guest lecture	Nov 20, 2014

Department of Forensic Medicine		
Dr Vishnuvardhan Deputy Commissioner of Police, Mangalore city	Official visit	Aug 20, 2014
Department of Community Medicine		
Dr Ravinder Mamtani Professor of Public Health Associate Dean for Global & Public Health, Well Cornell Medical College, Qatar	Guest lecture	Ma 2014
Dr Emilio Gentik Warschauer Endoscopic Surgeon Techniq, Italy	Research Collaboration	May 2014
Dr Harsh Kumar Bhanwala Chairman National Bank for Agriculture & Rural Development	Research collaboration	Jun 2014
Mr Ravi Kapoor Head of Global Banking CITI India, Citi Bank	Guest Visit	Aug 2014
Dr Mark Nichter Regents' Prof and Prof of Anthropology, Public Health, Family Medicine, University of Arizona, USA	Research Project	Aug 2014
Dr Mimi Nichter Associate Prof of Anthropology, Associate Prof (Public Health & FCR), University of Arizona, USA	Research Project	Aug 2014
Dr Ramakrishna Rao District Health Officer DK, Mangalore	Guest lecture	Dec 2014
Dr Anil Director, Karnataka STDC, Bangalore	Guest lecture	Dec 2014
Dr Suresh Shastry Senior Specialist, State TB Training Centre, Bangalore	Guest lecture	Dec 2014

Department of General Medicine		
Dr Prabhavathi Professor Internal Medicine, Jayadeva Intuition of Cardiology	Guest lecture	Feb 16, 2014
Dr AS Kanagasabapathy Consultant, Bio-Chemistry Former Professor and Head of Clinical Biochemistry CMC, Vellore	Guest lecture	May 23, 2014
Dr Venkata Krishnan Ex. Dean, Stanly Medical College, Nellore	Guest lecture	Jul 12-13, 2014
Dr Sadashiva Karanth Consultant Neurosurgeon New England Neurological Associates Andover, Massachussetts	Guest lecture	Jul 14, 2014
Dr Mathew Joseph Holistic and Integrative Medicine, Kodaikanal	PG Alumnus – visited the campus	Dec 21, 2014
Dr Ashwin Irodi ANCA associated vasculitis	PG Alumnus – visited the campus	Dec 21, 2014
Dr Abdul Ghafur Consultant and Adjunct Associate Professor in Infectious diseases at the Apollo Hospitals, Chennai.	PG Alumnus – visited the campus	Dec 21, 2014
Dr S Sundar Head of Nephrology till 1991, M S Ramaiah Medical College, Bangalore	PG Alumnus – visited the campus	Dec 21, 2014
Dr Ramdas Pai Professor of Medicine Loma Linda University Medical Center, Loma Linda, CA 92354	PG Alumnus – visited the campus	Dec 21, 2014
Dr Sudha Pai Associate Professor of Medicine Loma Linda University Medical Center, Loma Linda, CA 92354	PG Alumnus – visited the campus	Dec 21, 2014

Department of Paediatrics		
Dr Raghavendra Rao Division of Neonatology Department of Paediatrics University of Minnesota Amplatz Children's Hospital	Guest lecture	Jan 14, 2014
Dr Raj Warriar Professor and Vice-Chairman of Paediatrics, Director of the Centre for Cancer & Blood Disorders at Louisiana	Guest lecture	Oct 21, 2014
Dr K K Radhakrishnan FRCPA (Haematology) Consultant Pediatric Haematologist Monash Medical Centre Melbourne, Australia	Guest lecture	Dec 1, 2014
Department of Dermatology		
Dr Kantharaj Professor, JSS Medical College, Mysore	Guest lecture for CME	Sep 28, 2014
Department of Surgery		
Dr Sadashiv Karanth Consultant Neurosurgeon, Andover Neurological Institute, New England	Guest lecture	Jul 14, 2014
Dr Vinutha Shetty Lancashire Teaching Hospitals NHS Foundation Trust, UK	Guest lecture	Aug 14, 2014
Department of Orthopaedics		
Dr S P Mohanty KMC Manipal	Guest lecture for CME	Sep 28, 2014
Dr Ajoy Prasad Shetty Ganga Hospital, Coimbatore	Guest lecture for CME	Sep 28, 2014
Dr Naresh Hyderabad	Guest lecture for CME	Sep 28, 2014
Dr Ishwarkeerthi UMC Mangalore	Guest lecture for CME	Sep 28, 2014
Dr Rudraprasad SIT, Bangalore	Guest lecture for CME	Mar 2, 2014
Dr Harish VIMS, Bellary	Guest lecture for CME	Mar 2, 2014

Department of Ophthalmology		
Dr Sathyamurthy Dr M M Joshi Eye Institute, Hubli,	Guest lecture for CME	Jun 22, 2014
Dr Bela Kamboj EYE-Q-PNK Super Speciality Eye Hospital, Lucknow	Guest lecture for CME	Jun 22, 2014
Dr Anand D Vasan Eye Care, Bangalore	Guest lecture for CME	Jun 22, 2014
Department of Otorhinolaryngology		
Dr Kevin D Pereira Consultant Paediatric otolaryngologist University of Maryland, Baltimore, USA	Guest lecture	Feb 26, 2014.
Department of Anaesthesiology		
Dr Gurudath Mysore Medical College, Mysore	Guest lecture for CME	Jan 12, 2014
Dr Subramanya Columbia Asia, Bangalore	Guest lecture for CME	Jan 12, 2014
Dr Padmanabha S Yenepoya Medical College, Mangalore	Guest lecture for CME	Jan 12, 2014
Dr Karunakar Adapa A J Institute of Medical College, Mangalore	Guest lecture for CME	Jan 12, 2014
Dr Sripaada Mehendale KSHEMA, Mangalore	Guest lecture for CME	Jan 12, 2014
Dr Radhesh Hegde FMMC, Mangalore	Guest lecture for CME	Jan 12, 2014
Department of Audiology & SLP		
Dr Jagadish Swamy Consultant Audiologist, Gainesville, USA	Guest lecture	Feb 04, 2014

MCODS, Mangalore

Name of the Visitor	Purpose of visit	Date of visit
Dr Sankalp Taparia, Pediatric Consultant, Kolkata, W.B.	Guest Speaker for CDE Program	Jul 30, 2014
Dr Abhishek Kumar, Asst. Prof., B.P.Koiral Inst. Of Health Sciences, Dharan, Nepal		

Dr Sherine Alexander, Senior Lecturer at Sydney University and Senior Consultant at West Mead Hospital, Sydney	Guest Speaker for CDE Program	Sep16, 2014
Dr Sanjay Mallya, Asst. Prof., Residency Program Director (OMR), UCLA, School of dentistry, USA	Guest Speaker for Pre Conference Workshop	Nov 20, 2014
Dr Thomas List, Faculty of Odontology, Malmo University, Sweden	Research collaboration	Nov 20, 2014
Dr Sandesh Mayekar, Aesthetic Dental Surgeon, Mumbai	Guest Lecture	Nov 27, 2014

SORM Bangalore

Name of the Visitor	Purpose of visit	Date of visit
Dr Indumathy Mariappan, L V Prasad Eye Institute, Hyderabad	Collaboration	May 30, 2014
Dr Mahesh Verma, Connexios life Sciences	Guest lecture	Sep 19, 2014
Dr Praveen Vemula, In Stem, Bangalore	Guest lecture	Nov 20, 2014
Dr Prabha Sampath, A STAR, Singapore	Guest lecture/Collaboration	Dec 19, 2014
Dr Sudhir Krishna, NCBS, Bangalore	Joint teaching module for translational research in stem cells	Nov 20, 2014

Dubai Campus

Name of the Visitor	Purpose of visit	Date of visit
Mr Floris Smith, Design Director, DSA Architects, Dubai	Guest lecture	Mar 6, 2014
Mr Ezzat Bouzadi, Senior Lighting Designer, ERCO, Dubai	Workshop	Mar 27, 2014
Mr Sanjay Badve, Director, Division Space Architecture and Interior, US, India and Tanzania	Guest lecture	Apr 10, 2014
Mr Preetam Panwar, Director, ZAS Architects, Vancouver, Toronto, Dubai	Guest lecture	Apr 22, 2014
Mr Kristina Keutgen, Tasmena, Dubai	Workshop	Sep 11, 2014
Mr LaJit Gupte, Vice President, Surbana Consulting, Singapore	Guest lecture	Sep 18, 2014

Mr Jean Bellumat, Managing Director, Globcom Trading	Guest lecture	Oct 20, 2014
Mr Hazem Al-Khatib, Director, Design LLC and Vice- President, APID (Association of Professional Interior Designers)	Guest lecture	Oct 30, 2014
Mr Tomy Varghese, Partner, Bureau of Engineering Studies, Consulting Engineers, Dubai	Guest lecture	Nov 13, 2014
Mr Sanu Mathew, Design Director, SEED Engineering Consultant	Guest lecture	Dec 10, 2014
Ms Linda Merieau, Executive Director, APID (Association of Professional Interior Designers)	Guest lecture	Dec 11, 2014
Mr Hugo Nightangale, Automotive Design Creative Specialist, Jaguar Advanced Design, Jaguar, UK	Guest lecture	Dec 15, 2014
Mr Jonathan Ward, Associate, KIRK Architects, Brisbane, Australia	Guest lecture	Dec 16, 2014
Mr Nozer Buchia, Author, Motivational Speaker, Entrepreneur, Texas, US.	Guest lecture	Dec 17, 2014
Mr Agnes Koltay, Director, Koltay Facades, Dubai	Guest lecture	Dec 18, 2014
Ms Sabrina Kenssous, Interior Design, Intercon, Barcelona, Spain	Guest visit	Sep 30, 2014
Dr Gajanan M. Sabnis, Emeritus Professor, Howard University, US.	Guest Lecture	Feb 27, 2014
Mr Rajat Upadhyay, Area Manager, European HVAC Manufacturer Maico Italia.	Guest Lecture	Mar 5, 2014
Dr B Raghuvir Pai, Director (Research) Technical, Manipal University, India	Guest Lecture	Mar 18, 2014
Dr Srinivas Kumar Belgium	Guest Lecture	Apr 8, 2014
Dr Vish Kallimani, Professor School of Science and Engineering, Manipal International University, Malaysia	Guest Lecture	Apr 10, 2014

Mr Jean Bellumat	Guest Lecture	May 7, 2014
Dr Vinod V Thomas, Director, Manipal Institute of Technology, Manipal, India	Guest Lecture	Sep 7, 2014
Mr Stephen Fernandes, Assistant Vice-President and Head, Cognizant Technology Solutions Overseas Corporation (Middle East).	Guest Lecture	Nov 10, 2014
Mr Nuruddin Jethajiwala, Head of HR and Mr Osman Rohail, HR Manager of TECON Limited, Albatha Engineering	Guest Lecture	Nov 9, 2014
Mr Renjith Krishnan - Business Manager, Al Suwaidi	Guest Lecture	Dec 24, 2014
Dr Sudhanshu Shukla, Postdoctoral Fellow, National Institute of Health, USA	Guest lecture	Dec 22, 2014
Dr Subhash Nair, Biocide Application Specialist, Dow Microbial Control, UAE	Guest lecture	Nov 6, 2014
Dr Neelam Jawad, Prime Hospital, Dubai	Guest lecture	Oct 29, 2014
Dr Janusz Sadowski, Vice- President-R&D BioNavis, Finland	Guest lecture	Sep 23, 2014
Prof Channarayappa, Head-Biotechnology, M S Ramaiah Institute of Technology Bangalore	Guest lecture	Apr 20, 2014
Dr Saba Qayyum, Research Scholar, Forensic DNA Laboratory, Jawaharlal Nehru Medical College, Aligarh Muslim University, India	Guest lecture	Apr 6, 2014
Dr Moemin Abdalla, Director, Norgen Biotek, North America	Technical seminar	Mar 30, 2014
Ms Judy Sebastian, Food safety consultant, Apex Food Consultants, Dubai, UAE	Guest lecture	Mar13, 2014
Mr Robert Bob Swaim, Director, EICAR International, France	Collaboration and MOU signed	Feb 24, 2014
Ms Uma Gosh Deshpande, Director, Queen Bee Productions and TV Personality	Placement interview	May 8, 2014
Mr Vipin Jeejo: Digital Content Manager, Arabian Radio Network	Guest Lecture	May 14, 2014
Mr Atul Tiwari, Special Correspondent	Guest Lecture	May 21, 2014
Mr Fasial Hashmi, UAE based Filmmaker	Guest Lecture	May 21, 2014

Mr Deepak Jain, Director of Children International Film Festival	Guest Lecture	May 21,2014
Mr Kris Iyer, Radio ME	Guest Lecture	Jun 2014
Ms Nikita Arora, NDTV 24X7	Guest Lecture	Jun 4, 2014
Canon Marketing and Education Team	School Tour and Initial Talks for Education Partnership	Sep10 2014
Mr Raul Gabat, Canon Middle East	Guest Lecture	Sep10, 2014
Mr Wasif AlHakem, Canon Middle east	Guest Lecture	Sep10, 2014
Mr Ashok V, National Store LLC	Guest Lecture	Sep10, 2014
Mr Ehtesham Ahmed, National Store LLC	Guest Lecture	Sep10, 2014
Mr Raed Al Abbas, National Store LLC	Guest Lecture	Sep 10, 2014
Mr Maha Husain, Josh FM 79.8	Guest Lecture	Sep 25, 2014
Mr Jerusha Sequeira, Online Journalist, CPI Group	Guest Lecture	Oct29, 2014
Mr Sonia Filinto, Indian Independent Filmmaker	Guest Lecture	Oct16 and 29, 2014
Dr K Kasturirangan, Chancellor of Jawaharlal Nehru University and Former Chairperson of Indian Space Research Organization (ISRO)	Convocation	Oct 19, 2014
Mr John Quinn, Presentologist, Satellite Visual Communication	Guest Lecture	Nov 4, 2014
Mr Joshua John, Quays News, University of Salford	Guest Lecture	Nov 6, 2014
Mr Dan Brown, International Author	Guest Lecture	Nov 6, 2014
Mr Amish Tripathi, International Author	Guest Lecture	Nov 7, 2014
Mr Shiv Khera, International Author	Guest Lecture	Nov 11, 2014
Mr Amitav Gosh, International Author	Guest Lecture	Nov13, 2014
Mr Sashi Kumar, International Author	Guest Lecture	Nov14, 2014
Mr Chetan Bhagat, International Author	Guest Lecture	Nov 14, 2014
Mr Amal Agroobi: Emirati, Filmmaker	Guest Lecture	Nov 23, 2014
Mr Lutfi Bin Sheikh the Co-Founder of Aflannah.com	Guest Lecture	Nov 23, 2014
Mr Venkat Iyer: PR and Media Department at Dubai Investments	Guest Lecture	Nov 24, 2014
Mr Bryan Peterson, Nikon School	Guest Lecture	Dec 11,2014

Mr Hayley Norgan, Student Awards Manager, Dubai Lynx Advertising	Guest Lecture	Sep 22' 2014
Mr Alex Boden, Producer, Pistachio Pictures	Guest Lecture	Dec 11 2014
Mr Fadi Ismail, Group Director of Services, O3 Production/MBC (Middle East Broadcasting Center) Group	Guest Lecture	Dec 11' 2014
Mr Sanjay Raina, General Manager and Vice-President, FOX International Channels, Middle East, North Africa and Pakistan	Guest Lecture	Dec 11' 2014
Mr Chris BoSco, COO, IM Global	Guest Lecture	Dec 11' 2014
Mr Jayant Bhargava, Head of Digital Media and Entertainment, Middle East and Strategy, Pricewater Coopers Middle East	Guest Lecture	Dec 11' 2014
Ms Lubna Kabir, Director of Pricewater Coopers Middle East	Guest Lecture	Dec 11' 2014
Mr Timo Vuorensola, Filmmaker	Guest Lecture	Dec 12' 2014
Mr Guneet Monga, CEO and Producer, Sikhya Entertainment	Guest Lecture	Dec13' 2014
Ms Kim Magnusson, CEO and Producer, M&M Productions	Guest Lecture	Dec 14' 2014
Ms Joana Hadjithomas, Artist and Filmmaker	Guest Lecture	Dec15' 2014
Mr Gary Adcock, CEO and CTO, Studio37 Inc.	Guest Lecture	Dec 16' 2014
Mr Federico Beja, Director/Cinematographer, Concept View Media	Guest Lecture	Dec16' 2014
Ms Paddy Bird, Editor, Inside The Edit	Guest Lecture	Dec 16' 2014

MMMC, Melaka

Name of the Visitor	Purpose of visit	Date of visit
JPA , Putrajaya -Ms Farzana Ahmad Riza	Inspection on JPA sponsored students	Mar 24, 2014
High Commissioner of India to Malaysia -H E Shri T S Tirumurthi	Courtesy visit by the newly appointed high commissioner	Apr 21, 2014

Deputy High Commissioner of India To Malaysia -Dr.Acquino Vimal	Courtesy visit	Apr 21, 2014
First Secretary of High Commissioner of India To Malaysia. -Mr Ramachandran K N	Courtesy visit	Apr 21, 2014
Senior Higher Education Officer of National Council Higher Education of Uganda -Dr Pius Achanga	Courtesy visit	Sep 03, 2014
Director - Quality Assurance & Accreditation of National Council Higher Education of Uganda -Dr Pamela Tibihikirra	Courtesy visit	Sep 03, 2014
Higher Education Officer of National Council Higher Education of Uganda -Dr Robert Avine	Courtesy visit	Sep 03, 2014
Deputy Registrar of MIV -Mr Sargunam	Courtesy visit	Sep 03, 2014
Yayasan Sabah -Puan Zaidah Hussein -Encik Roslan Kamaruddin	Courtesy visit	Oct 9, 2014

ANNEXURE 3.3



Manipal University, Manipal

Guidelines for Research Incentives

(Ref: MU/REG/CIR dated September 10, 2012 of the Registrar)

1) Preamble

Research Incentives are offered to the concerned faculty members from the Research Grants obtained for specific projects. These incentives are intended to encourage developmental activities in various disciplines within Manipal University institutions and to enhance the image of the University. Faculty members may procure Research Grants from various external funding sources to undertake research projects in their respective fields. This incentive scheme is effective from April 1, 2004.

2) External Funding Sources

Government and private agencies both from within and outside India

3) Research Grants

Grants received for undertaking any research projects are considered as Research Grants. Research grants received by any of the constituent institution of Manipal University are eligible for the incentive. Grants received for charities or establishment of chairs are not considered as Research Grants and hence are outside the purview of these guidelines. Research Grants are to be procured in the name of the institution concerned. **Nogrant shall be procured in the name of any individual or the department.**

4) Allocable amount of Research Grants:

The admissible amount of Research Grant qualifying for computing the incentive shall include:

- (i) Equipment cost- actual
- (ii) Consumable cost-actual
- (iii) Expenses incurred towards field work
- (iv) Contingencies and institutional overheads

and shall exclude:

- (i) Fellowships and travel costs
- (ii) Salaries for Research Fellows

5A) Award and distribution of Research Incentives

- (i) Research Incentive will be 5per cent of the allocable amount if the institutional overheads are less than 10per cent of the project cost and 10per cent if the *overheads are 10per cent or more* of the project cost. Research grants with no overheads are eligible for 5per cent incentive. However, researchers are encouraged to include institutional overheads in the grant budgets.
- (ii) Principal Investigator will be entitled for 70per cent of the Incentive while the remaining 30per cent shall be equally distributed among the co-investigators.
- (iii) The maximum limit for any faculty member shall be Rs. 15 lakh per year. The amount will be payable over the period of the grant.
- (iv) There will be only one Principal Investigator and faculty members assisting the Principal Investigator with any other title/s will be treated as Co-Investigators for the purpose of calculation of the Incentive.
- (v) If there is no Principal Investigator, the incentive shall be shared equally among the co-investigators.
- (vi) Principal and Co-Investigators from outside University institutions will not be eligible for the incentive.

5B) Clinical Trials and Consultancies

- (i) For clinical trials and consultancies, the Principal Investigator/Consultant/Project Coordinator/Co-investigator will be paid 60per cent of the incentive payable to him/her and the balance 40per cent shall be retained with the parent institution.
- (ii) Out of the 40per cent retained by the institution, 50per cent shall be credited to the department's account maintained by the Head of the Institution and the remaining 50per cent shall be added to the institutional corpus.
- (iii) The maximum limit for any faculty member shall be Rs 15 lakh per year.
- (iv) In case of clinical trials sponsored by Centre of Clinical Excellence attached to the Department of Pharmacology, KMC, Manipal, the institutional share will be divided between Department of Pharmacology and the parent institution on 15:85 basis.

6) University Research Committee

The University Research Committee will approve the award and its distribution and will consist of the following members.

- (i) Vice Chancellor
- (ii) Pro Vice Chancellors (Manipal and Mangalore campuses)
- (iii) Registrar
- (iv) Director Research (Health Sciences | Technical) concerned
- (v) Director Finance
- (vi) Heads of Institution(s) concerned
- (vii) PI of the research project concerned (if required)

The Committee will meet once in six months to consider all requests and to finalize the incentives.

7) Maintenance of Research Project Accounts and Audit

The Research project accounts will be maintained by the institution concerned and will be subjected to audit. A separate audit report will be submitted to the granting authority as per the terms attached to the Research Grant. All assets/equipment acquired for the research project will be accounted as the assets of the department concerned.

Registrar

ANNEXURE 3.4

Research Grants received during the period April 2014 to March 2015

(In Lakhs)

Institution	Total (Rs)
Kasturba Medical College, Manipal	544.96
Kasturba Medical College, Mangalore	119.56
KMC Hospital, Attavar, Mangalore	47.53
Manipal College of Dental Sciences, Manipal	29.52
Manipal College of Dental Sciences, Mangalore	0.23
Manipal Institute of Technology, Manipal	93.01
Manipal College of Pharmaceutical Sciences, Manipal	104.48
Manipal College of Nursing, Manipal	118.65
School of Life Sciences, Manipal	239.65
School of Allied Health Sciences, Manipal	68.10
School of Regenerative Medicine, Bangalore	155.10
School of Information Sciences, Manipal	4.40
School of Management	4.26
Melaka Manipal Medical College, Manipal	42.37
KMC International Centre, Manipal	1.59
School of Communication	2.63
International Centre for Applied Sciences	0.56
WGSHA	2.05
Manipal University (Departments)	
Department of Geopolitics	5.50
Manipal Centre for Virus Research	333.04
Department of Atomic and Molecular Physics	86.92
Manipal Centre for Natural Science	20.07

Department of Commerce	1.90
Manipal Centre for Philosophy & Humanities	18.81
Department of Statistics	28.13
Department of Public Health	7.13
Department of European Studies	8.67
Research Department	9.16
Medical Simulation Centre	0.40
	2,098.39

Research Grants received during the period April 2013 to March 2014

(In lakhs)

Institution	Total (Rs)
Kasturba Medical College, Manipal	565.24
Kasturba Medical College, Mangalore	87.98
KMC Hospital, Attavar	35.93
Manipal College of Dental Sciences, Manipal	19.91
Manipal College of Dental Sciences, Mangalore	19.10
Manipal Institute of Technology, Manipal	157.49
Manipal College of Pharmaceutical Sciences, Manipal	364.22
Manipal College of Nursing, Manipal	26.11
Manipal College of Nursing, Mangalore	7.20
School of Life Sciences, Manipal	249.01
School of Allied Health Sciences, Manipal	73.22
School of Regenerative Medicine, Bangalore	125.54
Melaka Manipal Medical College, Manipal	11.58
KMC International Centre, Manipal	10.71
School of Information Sciences, Manipal	4.12
WGSMA	3.56
School of Jewellery Management	0.41
International Centre for Applied Sciences, Manipal	1.10
Manipal University:	-
Department of Atomic and Molecular Physics	71.36
Department of Culinary Arts	1.12

Manipal Centre for Philosophy & Humanities	8.22
Department of European Studies	0.96
Department of Public Health	72.94
Department of Commerce	0.28
Manipal Centre for Virus Research	182.36
Manipal Centre for Natural Sciences	11.82
Manipal Centre for Professional and Personal Development	1.18
Department of Geopolitics	34.83
Department of Statistics	1.21
Department of Physical Education	6.51
Medical Simulation Centre	0.21
Manipal Centre for Asian Studies	4.95
Total	2,160.38

Research Grants received during the period April 2012 to March 2013

(In Rs)

Institution	Total
Kasturba Medical College, Manipal - Research Grants	26,456,791.00
Kasturba Medical College, Manipal - Clinical Trials	12,289,934.11
Kasturba Medical College, Manipal - Industrial Research Grants	2,036,952.00
Kasturba Medical College, Manipal - Travel Grant	264,823.00
Kasturba Medical College, Manipal - Survey Project Grant	275,050.00
Kasturba Medical College, Mangalore	7,158,984.00
Kasturba Medical College Hospital, Attavar Clinical trials	2,584,965.00
Manipal Institute of Technology, Manipal	4,942,885.00
Manipal College of Pharmaceutical Science, Manipal	11,283,000.00
Manipal College of Nursing, Manipal	6,150,000.00
School of Life Science, Manipal	40,405,374.00
School of Allied Health Science, Manipal	4,224,622.00
Melaka Manipal Medical College, Manipal	1,342,133.00

<u>Manipal University</u>	-
Dept. of Atomic and Molecular Physics	3,678,400.00
<u>MU - Foreign Grants</u>	21,573,329.21
<u>MU - Indian Grants (MU & MU2)</u>	16,340,820.00
TOTAL	161,008,062.32

Research Grants received during the period April 2011 to March 2012

(In Rs)

Institution	Total
Kasturba Medical College, Manipal - Research Grants	26,052,891
Kasturba Medical College, Manipal - Clinical Trials	9,527,178
Kasturba Medical College, Mangalore	4,320,510
Kasturba Medical College Hospital, Attavar Clinical trials	7,777,783
Manipal Institute of Technology, Manipal	11,150,116
Manipal College of Pharmaceutical Science, Manipal	9,427,914
Manipal College of Nursing, Manipal	4,500,000
School of Life Sciences, Manipal	38,719,909
School of Allied Health Sciences, Manipal	6,094,936
School of Regenerative Medicine, Bangalore	2,519,294
Melaka Manipal Medical College, Manipal	360,600
<u>Manipal University</u>	-
Dept. of Atomic and Molecular Physics	1,210,229
<u>Other amounts received:</u>	-
Towards payment received for various inventions	522,317
Towards Creation of the Center for European Studies	6,037,256
Towards Hemophilia treatment centre twinning programme of KMC, Manipal & University of New Mexico	242,899

Towards Research Plan for FAT (Visceral)	99,678
Isolation and characterization of dental pulp mesenchymal stem cells isolated from deciduous abd adult human and its differntiation into depaminergic neurons and islet cells	514,101
Research project entitled : Secreted frizzled related Protein and its associated Wnt signalling pathways in stem cell differentiation "	559,448
Pilot Project : 1) Determinants of Seroprevalence of Burkholderia pseudomallei in residents of Udupi Taluk and environmental prevalence of pseudomallei Preliminary Study . 2) Prevalence of Work related Musculoskeletal & Respiratory symptoms among Laboratory staff in Udupi Dist - A cross study . 3) Effect of air pollution on childhood morbidity in coastal Karnataka - A longitudinal study	423,463
Towards financial support for the nurse coordinator and data manager for pediatric oncology program	216,070
Research Project : Cyber vitals for neonatal ICU	1,026,313
Research project entitled : "IDEEA - Identification, Diagnosis, Education & Empowerment for action of people with bleeding disorders in South India"	1,918,000
Clinical Trial entitled: " A double blind, randomized, comparator-controlled study to assess the safety, efficcacy & pharmacodynamics of two durations of ACHN-490 Injection adminstered intravenously in patients with complicated urinary tract infections of acute pyelonephritis"	270,894
Invention Award	34,101
Pilot Project : Cultural & psychosocial Influences on Disability	99,117
Pilot Project : Determinants of Seroprevalence of Burkholderia pseydomallei in residents of Udupi Taluk and environmental prevalence of B. pseudomallei - Preliminary Study	145,433
Design of tools for Self Regulating Resourses Consumption in High Density Contexts	21,950
TOTAL	133,792,399

ANNEXURE 3.5

GUIDE-WISE NO. OF PHDs AWARDED (2012, 2013 & 2014)								
#	Guide/Supervisor	2012	#	Guide/Supervisor	2013	#	Guide/Supervisor	2014
1	Dr. (Mrs.) Annie Shirwaikar	1	1	Dr. Tejaswini Niranjana	1	1	Dr M P Yashoda	1
2	Dr. Akash Ranjan	1	2	Dr. Akash Ranjan	1	2	Dr. Sitharamam Kakarala	2
3	Dr. Akhilesh Pandey	1	3	Dr. Akhilesh Pandey	1	3	Dr. Tejaswini Niranjana	2
4	Dr. Anantha Naik Nagappa	2	4	Dr. Anindya Sinha	3	4	Dr. A. Venkatachalam	1
5	Dr. Anantharaman Dhanabalan	1	5	Dr. Anjali Rao	1	5	Dr. Aloysius H. Sequeira	1
6	Dr. Anindya Sinha	1	6	Dr. Arun M. Isloor	1	6	Dr. Anantha Naik Nagappa	2
7	Dr. Arun M. Isloor	1	7	Dr. Ashok Menon	1	7	Dr. Aparajita Datta	1
8	Dr. B. Rajashekhar	1	8	Dr. B.H. Anand Rao	1	8	Dr. Arun M. Isloor	1
9	Dr. D.J. Bagyaraj	1	9	Dr. B.V. Somashekaraiiah	2	9	Dr. Arun Maiya	1
10	Dr. G. Arun Maiya	1	10	Dr. C. Mallikarjuna Rao	1	10	Dr. Ashok Alva	2
11	Dr. Gopalakrishna Prabhu K.,	2	11	Dr. C.V. Raghuvier	2	11	Dr. B. Rajashekhar	1
12	Dr. Indrani Karunasagar	1	12	Dr. Charudutta Mishra	1	12	Dr. B.V. Somashekaraiiah	1
13	Dr. J. Gowrishankar	1	13	Dr. G. Arun Maiya	1	13	Dr. Bhaskarananda Kumar	1
14	Dr. K. Ramnarayan	1	14	Dr. G. Gautham Shenoy	2	14	Dr. C.S. Shreedhara	1
15	Dr. K. Sreedhara Ranganath Pai	1	15	Dr. Ganesh Pai	1	15	Dr. Ganesh Chandra Jagetia	1
16	Dr. K. Ullas Karanth	1	16	Dr. Indira Baiyy	1	16	Dr. Gayathri M. Rao	1
17	Dr. K.B. Kumar	1	17	Dr. J. Gowrishankar	2	17	Dr. Indrani Karunasagar	2
18	Dr. K.K. Srinivasan	1	18	Dr. Jayashree S. Bhat	1	18	Dr. J. Venkata Rao	1
19	Dr. K.L. Baiyy	1	19	Dr. K. Balakrishna	1	19	Dr. K. Balakrishna	1
20	Dr. M. Sreenivasa Reddy,	1	20	Dr. K. Satyamoorthy	1	20	Dr. K. Satyamoorthy	3
21	Dr. M.K. Unnikrishnan	2	21	Dr. K. VijayRaghavan	2	21	Dr. K.B. Kumar	2
22	Dr. M.N. Vahia	1	22	Dr. Krishnamoorthy	1	22	Dr. K.C. Shet	2
23	Dr. M.S. Vidyasagar	1	23	Dr. Lewlyn L.R. Rodrigues	1	23	Dr. K.K. Srinivasan	2
24	Dr. Michael Rajmathi	1	24	Dr. M. Soubadra Devy	1	24	Dr. K.P. Arun Kumar	1
25	Dr. N. Gopalan Kutty	2	25	Dr. M. Sreenivasa Reddy	1	25	Dr. K.R. Venugopal Reddy	1
26	Dr. N. Sreekumaran Nair	1	26	Dr. M.D. Bashyam	1	26	Dr. K.V.M. Varambally	1
27	Dr. N. Udupa	1	27	Dr. Michael Rajamathi	3	27	Dr. Krishnamoorthi Makkithaya	1
28	Dr. P. Mohanan	1	28	Dr. N. Gopalan Kutty	2	28	Dr. Lewlyn L. Raj Rodrigues	1
29	Dr. P. Sugandhi Rao	1	29	Dr. N. Nagaraju	1	29	Dr. M. Sathish Kumar	1

30	Dr. Padma Sarangapani	1	30	Dr. N. Sreekumaran Nair	3	30	Dr. M. Sreenivasa Reddy	2
31	Dr. Prakasha Shetty	1	31	Dr. N. Udupa	1	31	Dr. M.B. Saidutta	1
32	Dr. Prathibha Karanth	1	32	Dr. N.R. Rau	1	32	Dr. M.D. Bashyam	1
33	Dr. Prema K.V.	1	33	Dr. N.S. Viswanath	1	33	Dr. M.K. Unnikrishnan	1
34	Dr. Raghothama Chaerkady	1	34	Dr. P.S.V.N. Sharma	1	34	Dr. M.S. Vidyasagar	1
35	Dr. Ramesh Bhonde	1	35	Dr. P.V. Ananda Mohan	1	35	Dr. Maddasani Srinivasulu	1
36	Dr. Ramesh Rao T.	1	36	Dr. Prabhakar G. Vaidya	1	36	Dr. Mukesh K. Chaudhry	1
37	Dr. Ranjan Sen	1	37	Dr. Pradeep G. Bhat	1	37	Dr. N. Udupa	1
38	Dr. Sangita Mukhopadhyay	2	38	Dr. Puttamadappa C.	1	38	Dr. N.S. Viswanath	1
39	Dr. Santhosh Chidangil	1	39	Dr. Ramesha C.	1	39	Dr. N.V. Subba Reddy	1
40	Dr. Satheesha Nayak B.	2	40	Dr. Rupinder Kaur	1	40	Dr. Nalini K.	1
41	Dr. Satish Totey	1	41	Dr. S.V. Srinivas	1	41	Dr. Nayeem Ullah Khan	1
42	Dr. Shreemathi S. Mayya	1	42	Dr. Sandra Misquith	1	42	Dr. Niranjana U.C.	2
43	Dr. Shripathy M Bhat	1	43	Dr. Satheesha Nayak	2	43	Dr. P.K. Shetty	1
44	Dr. Sitharama Kakarala	1	44	Dr. Sudha Vidyasagar	2	44	Dr. Padma Venkat	1
45	Dr. Uma Ramakrishnan	1	45	Dr. Sumantra Chattarji	1	45	Dr. Padmalatha Rai S.	1
46	Dr. V.I. George	1	46	Dr. Sunil Kumar Manna	1	46	Dr. Pawan Kumar Gupta	1
	TOTAL	52	47	Dr. T. Ganesh	1	47	Dr. Prabha Adhikari	2
			48	Dr. Upinder S. Bhalla	1	48	Dr. Pramod Kumar	3
			49	Dr. V. Ramachandra Murty	1	49	Dr. Prema K.V.	1
			50	Dr. Vadhiraaja B.M.,	1	50	Dr. Premnath Shenoy	1
			51	Prof. B.S. Satyanarayana	2	51	Dr. Priyadarsanan Dharma Rajan	1
				TOTAL	66	52	Dr. Raghuvir Pai B.	1
						53	Dr. Ranjan Sen	1
						54	Dr. Raviraja N.S.	1
						55	Dr. Ronald J Mascarenhas	1
						56	Dr. Rupinder Kaur	1
						57	Dr. S.M. Kulkarni	2
						58	Dr. Sandra Misquith	1
						59	Dr. Sangita Mukhopadhyay	1
						60	Dr. Shivananda Nayak	1
						61	Dr. Shreedhara C.S.	1

						62	Dr. Shreemathi S. Mayya	1
						63	Dr. Shripathy M. Bhat	1
						64	Dr. Sureshwar Pandey	1
						65	Dr. T. Ganesh	1
						66	Dr. Upinder S. Bhalla	1
						67	Dr. V. Upadhyaya	1
						68	Dr. V.I.George	1
						69	Dr. V.M. Subrahmanyam	1
						70	Dr. Vijay Kumar	1
						71	Dr. Vivian D'Souza	1
						72	Dr. Yash Veer Bhatnagar	1
						73	Dr.V.Ramachandra Murty	1
						74	Prof. Narendar Pani	1
							TOTAL	90

ANNEXURE 3.6

Details of MoU / MoA entered during the calendar year 2014

Sl. #	Type	Agreement entered with	Country	Effective date	Details of MoU/MoA
1	Academic-F	Queen Mary University of London	UK	6-Mar-14	Twinning Program
2	Academic-F	Queen Mary University of London	UK	6-Mar-14	Academic exchange and cooperation
3	Academic-F	University of Naples, Italy	Italy	18-Feb-14	Academic and Research Collaboration
4	Academic-F	University of Illinois, USA	USA	4-Mar-14	Exchange of faculty, students and academic materials and joint research activities
5	Academic-F	University Lille , France	France	13-Feb-14	To Collaborate in the areas of professional exchanges and Research
6	Academic-F	Foundation for Advancement of International Medical Education and Research, USA (FAIMER)	USA	3-Apr-14	Academic exchange between MU and FAIMER based on principles of mutual equality and the reciprocity of benefits and To promote academic and cultural exchanges between two countries.
7	Academic-F	Wright State University, USA	USA	1-May-14	Exchange of students, faculty, information, including scientific and scholarly publications
8	Academic-F	Massey University, New Zealand	New Zealand	11-Apr-14	1) Exchange and sharing of academic, scientific and cultural experiences 2) to provide students with an educational experience in

					an overseas university & 3) to pursue employment in logistics and supply chain management roles
9	Academic-F	University of Dayton, USA	USA	10-Apr-14	To develop academic exchange and cooperation in teaching and research for advancement and dissemination of learning
10	Academic-F	IPAC School of Management, France	France	7-Apr-14	To promote mutual cooperation in education as per the clauses mentioned in the agreement
11	Academic-F	University of Cincinnati, USA	USA	26-Feb-14	To facilitate collaboration and cooperation between the parties in areas of mutual interest
12	Academic-F	University of Nottingham, UK	UK	2-Jun-14	Joint PhD scheme for Research projects related to Life Sciences
13	Academic-F	Southern Illinois University, USA	USA	3-Jul-14	to offer 2+2 Bachelor's Degree Program (Twinning program)
14	Academic-F	Federation University, Australia	Australia	19-Jun-14	To collaborate in relation to International business opportunities
15	Academic-F	"Horia Hulubei" National Institute of Physics and Nuclear Engineering, Romania	Romania	14-Jul-14	To establish a proper framework for cooperation between two parties for implementation of Extreme Light Infrastructure-Nuclear Physics (ELI-NP) project and development of its scientific programme

16	Academic-F	Hochschule Bremen, University of Applied Sciences (HSB), Germany	Germany	11-Jul-14	Dual Degree Programme in European Studies
17	Academic-F	Association of Chartered Accountants (ACCA), UK	UK	10-Sep-14	Mutually agreed academic cooperation. Both parties to assist and support each other in functioning the MoU to mutually benefit the parties.
18	Academic-F	British Broadcasting Corporation (BBC), London	UK	9-Sep-14	For rebroadcast of BBC World Service Programming as stated in Appendix A
19	Academic-F	University Medical Center Hamburg-Eppendorf, Germany	Germany	26-Aug-14	Fostering academic cooperation in the field of clinical and genetic studies in areas of mutual interest and expertise
20	Academic-F	Australian National University, Australia	Australia	13-Sep-14	Cooperation for the establishment of programs of exchange and collaboration in areas of mutual interest and benefit to both institutions.
21	Academic-F	Wright State University, USA	USA	24-Sep-14	1) Two plus two academic articulation program with ICAS. 2) Dual degree program with SOIS & 3) Masters transfer articulation with MIT
22	Academic-F	Manipal International University, Malaysia	Malaysia	27-Nov-14	Recognizing Manipal International University as research centre of MU for PhD programme

23	Academic-F	IT University of Copenhagen, Denmark	Denmark	1-Dec-14	Joint Research proposal and projects in the areas of mutual interest & Student & Faculty Exchange Programs
24	Academic-F	The Abdus Salam International Centre for Theoretical Physics, Italy	Italy	19-Nov-14	Scientists of the MU active in research to visit the Centre at times for periods to be determined jointly by the MU and the Centre
25	Academic-F	The University of South Florida, USA	USA	28-Nov-14	To facilitate academic and research cooperation between the parties based upon the principles of mutual benefit as outlined in the agreement - Joint educational and research activities & - Student exchange program etc.
26	Academic-F	University of Hannover, Germany	Germany	21-Oct-14	Exchange of Students and academic staff and academic materials; Joint Research Activities
27	Academic-F	University of Salzburg, Austria	Austria	7-Nov-14	Exchange of Staff and/or Students; Organization of joint academic and scientific activities etc.
28	Academic-F	Queensland University of Technology, Brisbane, Australia	Australia	16-Dec-14	Student Exchange program
29	Academic-F	Engineering School of Information and Digital Technology (Efrei), France	France	18-Nov-14	To organize & deliver a course covering for Efrei students/participants at MU
30	Academic-	Flinders	Australia	14-Jul-	To host placements for

	F	University, Australia		14	medical students
31	Academic-F	Universiti Teknologi Mara, Malaysia	Malaysia	19-Nov- 14	Promotion of mutual understanding, Academic, Cultural and Scientific & personnel Exchange
32	Academic-F	Kumamoto University, Japan	Japan	18-Dec- 14	Academic & Student Exchange
33	Academic-F	Flinders University, Australia	Australia	14-Jul- 14	Hosting of placements for Medical Students
34	Academic-F	The University of Santiago de Compostela, Spain	Spain	23-Oct- 14	1) General Agreement - For Promoting scientific culture by means of collaboration in the fields of research and teaching & 2) Specific agreement - for teaching and research staff exchange
35	Academic	Indian Society for Assisted Reproduction, Mumbai	India	16-Jan- 14	Collaboration on clinical embryology training program
36	Academic	Foundation for Revitalisation of Local Health Traditions (FRLHT), Bangalore	India	7-Jan-14	Recognizing FRLHT as a recognized research centre of MU for conducting PhD programme.
37	Academic	Centre of Wildlife Studies, Banashankari II stage, Bangalore	India	28-Jan- 14	Recognizing CWS as a recognized research centre of MU for conducting PhD programme.
38	Academic	Faizal and Shabana Foundation, Bangalore	India	30-Jan- 14	To establish an Advanced Precast Concrete Research Centre at MIT, Manipal

39	Academic	GlaxoSmithKline Pharmaceuticals Bangalore	India	21-Feb- 14	Recognizing GlaxoSmith Pharmaceuticals Limited, Bangalore as a recognized research centre of MU for conducting PhD programme
40	Academic	Nature Conservation Foundation, 3076/5, 4th cross, Gokulam park, Mysore - 570002	India	1-Mar- 14	Recognizing Nature Conservation Foundation, Mysore as a recognized research centre of MU for conducting PhD programme.
41	Academic	Chinmaya International Foundation, Kerala	India	12-Feb- 14	For Collaborative Projects between MU and CIF
42	Academic	TATA Chemicals Ltd Innovation Centre, No 24 Homy Mody Street, Bombay House, Fort Mumbai - 400001	India	12-May- 14	Recognizing TATA Chemicals Limited, Mumbai as research centre of MU for PhD programme in Chemistry, Biotechnology, Material Science
43	Academic	Bharthiya Vidhya Bhavan Management Research Centre, Race course road, Bangalore - 560001	India	22-Apr- 14	Recognizing Management Research Centre, Bharathiya Vidhya Bhavan as research centre of MU for PhD programme in Management
44	Academic	Sristi School of Art, Design and Technology, Yelhanka, New Town, Bangalore - 560106	India	22-Apr- 14	Recognizing Sristi School of Art, Design and Technology, Bangalore as research centre of MU for PhD programme in Arts and Design
45	Academic	Institute of Life Sciences, Nalco Square,	India	21-May- 14	Recognizing Institute of Life Sciences, Bhubaneswar as research

		Bhubaneswar			centre of MU for PhD programme
46	Academic	Iladevi Cataract and IOL Research Center, Ahmedabad - 380052	India	30-Jan-14	Recognizing ICIRC, Ahmedabad as research centre of MU for PhD programme
47	Academic	Novartis Healthcare Pvt Ltd, Hyderabad	India	10-May-14	Recognizing Novartis Healthcare Pvt Ltd, Hyderabad as research centre of MU for PhD programme
48	Academic	KLE University, Belgaum	India	12-Jul-14	To build academic research capacity and to promote mutual understandings between the two universities
49	Academic	National Institute of Advanced Studies, Bangalore	India	31-Jul-14	Recognizing National Institute of Advanced Studies, Bangalore as research centre of MU for PhD programme
50	Academic	Manipal Dot Net Pvt Limited, Manipal	India	1-Sep-14	Recognizing Manipal Dot Net Pvt Ltd, Manipal, as research centre of MU for PhD programme
51	Academic	Aatreya Education Systems Pvt Ltd (AESPL),	India	18-Aug-14	Granting scholarship to selected students admitting for post graduate certificate course in Panchakarma offered at KMC, Manipal
52	Academic	Nobel Biocare India Pvt Ltd, Mumbai	India	17-Sep-14	Both parties agreed to continue the ongoing Oral Implantology Course and Dental education program to dental professional and development of education

					materials as per the terms mentioned in the MoU
53	Academic	Pharmaceutical Development Centre, Steer Engineering Pvt Ltd, Bangalore	India	17-Oct-14	Recognizing Pharmaceutical Development Centre, Bangalore as research centre of MU for PhD programme
54	Academic	Jiv Daya Foundation	India	28-Oct-14	KMC Hospitals in Mangalore: Paediatric Oncology Expansion
55	Academic	Centre for DNA Fingerprinting and Diagnostics, Hyderabad	India	6-Nov-14	Recognizing Centre for DNA Fingerprinting and Diagnostics, Hyderabad as research centre of MU for PhD programme
56	Academic	Doctors without Borders/Medicines Sans Frontiers (MSF) India, New Delhi	India	23-Jun-14	i.) MSF to develop framework of collaboration with KMC to detach senior residents of KMC with a pilot for MSF Bijapur project, India and its international projects globally & ii) Mutual (Short term) projects undertaking between MU and MSF (including MSF)
57	Academic	TATA Consultancy Services Ltd, Mumbai	India	10-Dec-14	Academic interface program - Developing & designing industry specific application oriented courses that MU can offer to its students at graduation level as elective course for specific degree specializations

58	Academic	VOLMO Pvt Ltd, Bhopal, Madhya Pradesh	India	6-Dec- 14	Research projects/internships to MU students; Joint research projects and internship driven by VOLMO; Training by VOLMO
59	Academic	TITAN Company Ltd, Chennai	India	31-Oct- 14	Non-Disclosure agreement
60	Academic	Nova Pulse IVF Clinic Pvt Ltd, Bangalore	India	3-Nov- 14	1) Short term internship to MSc Clinical Embryology students & 2) To explore areas of common interest beneficial to both parties
61	Service	DVoiS Broadband Pvt Ltd	India	1-Jan-14	Wireless Broad band Services
62	Service	G4S secure solutions India Pvt Ltd, Delhi	India	1-Apr- 14	Renewal of agreement for services of security guard at MU guest house, Delhi
63	Service	MeritTrac Services Pvt Ltd, Bangalore	India	1-Feb- 14	To conduct online Entrance Examination form year 2014
64	Service	Manipal Integrated Services Pvt Ltd	India	1-Apr- 14	For Operation and Maintenance of the entire scheme of First stage TMC water supply
65	Service	ICICI Bank Limited	India	2-Apr- 14	Renewal of Corporate Card with Corporate Liability - Corporate Cards shall be used by the said Corporate and/or the Card Member/s for the official expenses of the Corporate
66	Service	Bapuji Vidya Samsthe, Honnali, Shimoga	India	15-May- 14	BVS to avail expertise services of MU for providing Medical Hospital Management Services on the T&C mentioned in the agreement

67	Service	Manipal Integrated Services Pvt Ltd	India	1-Apr-14	MU to hire MIS services for managing Manipal Vistas (Guest House of MU) in Bangalore
68	Service	Apollo Health Resources Ltd (AHRL)	India	1-Jan-14	Providing support services connected to Ullal constituency MAS program
69	Service	Manipal Integrated Services Pvt Ltd	India	1-Jan-14	To provide Student Mess facility at premises of MU – (1) KMC Nandagiri ladies hostel and (2) Falnir PG men’s hostel at Mangalore campus
70	Service	Manipal Integrated Services Pvt Ltd	India	1-May-14	To provide catering facility at MIS Client Premises (KMC Hospital Attavar – KMCHAT)
71	Service	DVoiS Broadband Pvt Ltd	India	16-Apr-14	DVoiS to provide and implement the Wireless Network Infrastructure in MU premises as set forth in the agreement and to provide customer Operations Maintenance and Support Services as per T & C of the agreement
72	Service	Krishnav Projects, A-216 road No 6, Mahipalpur, New Delhi	India	1-May-14	KP to provide AMC (Annual Maintenance Contract – labour only) to the system (Swisslog Pneumatic Tube System) located at Kasturba Hospital, Manipal
73	Service	Manipal Education and Medical Group India Pvt	India	1-Apr-14	To avail various services from MEMG like Fund management & Financial

		Ltd (MEMG), Bangalore			services, accounting, taxation, HR, quality, marketing, PR, Brand Royalty, PR & Road shows etc.
74	Service	The Professionals, C4C 310, Janakpuri, New Delhi - 110058	India	1-May-14	To avail housekeeping services for the Guest House at F-4, 2 nd floor, Anand Niketan, New Delhi from The Professionals
75	Service	Manipal Integrated Services Pvt Ltd, Bangalore	India	1-Apr-14	To provide additional mess facility to Nursing students at Mangalore campus
76	Service	Employee Experts Solutions Pvt Ltd, Bangalore	India	1-Aug-14	1) Employee Experts Solutions Pvt Ltd to grants licenses of E2pro-ESP (Employee Service Platform) to Manipal University. - Implementation of ESP in the HR and Organizational Operations 2) Confidentiality and non-disclosure
77	Service	Manipal Global Education Services Pvt Ltd, Manipal Towers, 4th Floor, No 14, Airport Road, Bangalore - 560008	India	1-Jul-14	To amend the consideration payable by MU for the services provided by the MaGE as per the original Service Agreement dated 03/10/2012
78	Service	Manipal Integrated Services Pvt Ltd, Bangalore	India	1-Apr-14	MIS to provide Ancillary and Security services at SORM, Bangalore
79	Service	Master Staffing Solutions Pvt Ltd,	India	1-Apr-14	MSS to provide Ancillary and Security services at

		Bangalore			SORM (MIRM), Bangalore
80	Service	Manipal Integrated Services Pvt Ltd, Bangalore	India	1-Mar-14	MIS to provide student Mess facility at Sturrock Hostel, KMC, Mangalore
81	Service	TBS India Telematic & Biomedical Services Pvt Ltd, Bangalore - 560001	India	1-Apr-14	Amending the clause 2 (2.1) Annexure D and clause 4 of the Annual Maintenance Contract Labour and Spares Supply dated 12/07/2013 due to an incremental inflation adjustment factor as per the RBI bulletin May 2014.
82	Service	Pearson Education Services Pvt Ltd, Bangalore	India	29-Jun-14	To Help children of the confirmed, regular, non-teaching staff of MU to score better in CET and improve overall competence levels
83	Service	Higginbothams Pvt Ltd, Chennai	India	1-Oct-14	1) to amend the Clause B(5) of the original agreement dated 29.09.12 and 2) to renew the term of agreement for a further period of two years
84	Service	Manipal Global Education Services(MaGE), Bangalore	India	1-Jul-14	MaGE to provide services to MU as per terms of addendum – managing the enrolment marketing and admission campaign
85	Service	DVoiS Broadband Pvt Ltd	India	1-Aug-14	Wireless Broadband Services – Revision of monthly fee
86	Service	Everest Pharma, Udupi	India	17-Nov-14	EP to arrange and manage Sale of Goods for the benefit of the Hospital

87	Service	DVoiS Broadband Pvt Ltd & Corporation Bank, Mangalore	India	3-Sep-14	Establishment and operation of Escrow Account
88	Service	Ministry of Information and Broadcasting, Govt. of India, New Delhi	India	25-Sep-14	06.02.2015 or till the final policy guidelines are issued by the Ministry for renewal of GOPA
89	Service	Fourth Ambit Technologies Pvt Ltd	India	13-Nov-14	FAT to provide services to MU as defined in clause 2.1 of the agreement
90	Service	One Life, Bangalore	India	1-Dec-14	To manage Marena (Indoor Sports Complex) in Mangalore campus
91	Service	One Life, Bangalore	India	1-Dec-14	To manage Marena (Indoor Sports Complex) in Manipal campus
92	Service	Intel Technology India Pvt Ltd, Bangalore	India	17-Dec-14	Statement of Work
93	Service	ATOM Technologies Ltd, Mumbai	India	13-Dec-14	To provide Merchant Services
94	Service	Association of Private Dental and Medical colleges of Madhya Pradesh	India	3-Mar-14	To provide assistance to the Entrance Test of the Association (2014)
95	Service	Manipal Integrated Services Pvt Ltd, Bangalore	India	1-Jul-14	MU desires to engage MIS to provide catering services to students of MU at Manipal campus
96	Service	WLS Solutions Pvt Ltd, Manipal	India	1-Apr-14	WLS to handle the social media activity for MU's Facebook page and Twitter profile and the Instagram account

97	Service	District Health and Family Welfare Society ® - Blindness Control Division Udupi	India	1-Dec-14	To conduct some of the activities under National Programme for Control of Blindness
98	Service	Indus Towers Ltd, Bangalore	India	1-Dec-14	To construct the Base Terminal Station at MU property (Artificial Limb Centre, 7th floor, Charaka Bldg, KH, Manipal)
99	Service	Master Staffing Solutions Pvt Ltd, Bangalore	India	1-Nov-14	Addendum to the annexures of main agreement dated 24/02/2014 (related to MU Guest House at Delhi)Annex A – General Scope of services Annex B – Premises/Location& Annex C - Consideration
100	Service	State Bank of India	India	3-Mar-14	To issue single MAHE-SBI combo card for students, staff of MAHE
101	Service	MeritTrac Services Pvt Ltd, Bangalore	India	1-Sep-14	MeritTract to provide services to MU – Descriptive Assessments using On Screen Marking (OSM) Evaluation
102	Research-F	University of Alabama	UK	16-Oct-14	Mutual Confidential Disclosure Agreement in connection with a project application from Indo US fund
103	Research	Intel Technology India Pvt Ltd, Bangalore	India	1-Jan-14	To further carry out the Research Project for an additional period of six (06) months (Jan to June 2014) as per the Exhibit C

104	Research	Udupi Sri Krishna Technologies Pvt Ltd	India	1-Mar-14	Jointly carryout the research and development activities as mentioned in MoU
105	Research	Philips Electronics India Limited, 7, Justice Chandra Madhab Road, Chennai	India	1-Jan-14	Exhibit B-8 (Specific Research plan for MR Neurography of Brachial Plexus) to the Master Research Collaboration Agreement dated 21/06/2012 between MU and Philips
106	Research	Philips Electronics North America Corporation	India	24-Feb-14	Exhibit n-09 Specific research plan for carotid Artery Screening Prototype Feasibility study project
107	Research	Philips Electronics Ltd	India	1-Apr-14	Exhibit B-10 (Specific Research plan for developing Android Applications based on WHO toolkit on CGA in primary care centers) to the Master Research Collaboration Agreement dated 21/06/2012 between MU and Philips
108	Research	Philips Electronics Ltd	India	15-Jun-14	Exhibit B-11 (Specific Research plan for data collection study on ICU patients in Indian hospital project) to the Master Research Collaboration Agreement dated 21/06/2012 between MU and Philips
109	Research	Philips Electronics Ltd	India	11-Jul-14	Exhibit B-12 (Specific Research plan for Efficia

					ECG 100 Usability Validation project) to the Master Research Collaboration Agreement signed between MU and Philips
110	Research	Philips Electronics India Ltd, Bangalore	India	20-Nov-14	Exhibit B-013 (Specific Research plan for ClearVue Opal Engineering/Marketing Clinical Study ECS/MCS Project) to the Master Research Collaboration Agreement signed between MU and Philips
111	Research	Philips Electronics Ltd	India	16-Oct-14	Exhibit B-014 (Specific Research plan for Amazon Release A.01 project) to the Master Research Collaboration Agreement signed between MU and Philips
112	Research	Philips Electronics India Ltd, Bangalore	India	1-Nov-14	Exhibit B-015 (Specific Research plan for data collection for Frailty detection and progression project) to the Master Research Collaboration Agreement signed between MU and Philips
113	Research	Philips Electronics Ltd	India	1-Nov-14	Exhibit B-016 (Specific Research plan for Feasibility study of 3D ultrasound visualization of anatomical structures and applicator in brachytherapy for cervical cancer treatment project)

					to the Master Research Collaboration Agreement signed between MU and Philips
114	Research	Philips India Limited, Kolkata	India	12-Dec-14	To transfer solar energy data obtained from Male Field Practice Area of KMC
115	Research	Philips Electronics India Ltd	India	1-Aug-14	Exhibit B-017 (Specific research plan for optimization of fat suppressed 3D T2 sequence combined with motion sensitizing iMSDE pre-pulse for imaging of Peripheral Nerves Project) to the Master Research Collaboration Agreement signed between MU and Philips
116	Research	Wipro Limited, Bangalore	India	28-Aug-14	Mutual Confidentiality & Non-Disclosure Agreement
117	Research	Intel Technology India Pvt Ltd, Bangalore	India	1-Jul-14	Agreed to further carry out the Research Project for an additional period of six (06) months (July to December 2014) as per the Exhibit C to the agreement
118	Research	Robert Bosch Engineering and Business Solutions Limited, Bangalore	India	17-Jul-14	Non-Disclosure Agreement
119	Research	BPL Medical Technologies Pvt Ltd, Bangalore	India	9-Jul-14	Project "BPL Life Phone Plus" and other related back-end services
120	Leave & License	Manipal Integrated Services Pvt Ltd,	India	1-Mar-14	Licensing premises for purpose of running

		Bangalore			canteen business at Mangalore campus
121	Leave & License	Sodexo Food Solutions India Pvt Ltd, Mumbai	India	1-Oct-14	Sodexo to use Manipal University facilities to provide catering services to NBQ, NBQ GDH, Bombay Mess and Hombelaku
122	License	Springer Customer Service Centre, Germany	India	19-Dec-14	Online Access to Springer e-resources (e-Books & e-Journals)
123	Catering	Manipal Integrated Services (MIS) Pvt Ltd, Bangalore	India	1-Jul-14	To amend the original catering service agreement dated 16/01/2015 : MU desires to engage MIS to provide catering services to students of MU at Mangalore campus
124	Lease	Manipal Global Education Services Pvt Ltd, Manipal Towers, 4th Floor, No 14, Airport Road, Bangalore - 560008	India	1-Apr-14	Renewal of lease agreement between MU and MaGE for 32 Residential 2 Bedroom flats at Daffodils Apartment, Bangalore

ANNEXURE 4.1

New projects completed

1. MIT Girls Hostel Block - 1block of 5 Floors with 24 sets in each floor. Each block area: 70,500 Sft. Each Set to has 2 single rooms one living cum pantry and Bath. Total to accommodate 240 Non Ac single occupancy Rooms in each block. Completed in Aug 2012.
2. MIT Hostel Block (Boys Hostel) Block 1 ,2 and 3. 3 blocks of 5 Floors with 24 sets in each floor. Each block area:70,500 Sft. Each Set to have 2 single rooms one living cum pantry and Bath. Total to accommodate 240 Non Ac single occupancy Rooms in each block.
3. Building for Management Studies Lower ground+ upper ground+ground+2 floors.Total area=39000Sq.Ft. To accommodate School of Management and Commerce department.
4. Dormitory block – KH - Ground+ 8 floors. Canteen, central store, general store, shops on the ground floor, Mess, bank at 1st floor, 2nd – 4th floor–Dormitory; 5th–8thfloor–Nurses accommodation.
5. OPD Extension Block - Stilt +G+3 floors, Area: 67000 SqFt.
6. International Academic Block - G + 6 Floors; Built up Area: 1.47 Lac Sft. Labs + 5 Big Class Rooms (200 Cap)+ Dissection Hall, Faculty Rooms etc.
7. International Hostel B Block - G+ 17 floors; Area:2.33Lakh SqFt.; 569 single AC rooms.
8. MIT ‘A’ staff residence - Lower ground+ground+6 floors – Total 39 flats.
9. MIT Hostel Block (Boys Hostel) Block 1 ,2 and 3 -3 blocks of 5 Floors with 24 sets in each floor. Each block area:70,500 Sft. Each Set to have 2 single rooms one living cum pantry and Bath. Total to accommodate 240 Non Ac single occupancy Rooms in each block
10. MCPHS Block -Area: 20750 SqFt—Classrooms,Library,Auditorium and Administrative
11. MIT ‘B’ staff residence - Lower ground+ground+8 floors – Total 64 flats.

ANNEXURE 4.2

CULTURALS & SPORTS ACTIVITIES**UNIVERSITY CULTURAL COORDINATION COMMITTEE**

Manipal University Cultural Coordination Committee is working with an objective of giving a holistic approach to professional higher education. The Committee intends to create an atmosphere, which is intellectually and aesthetically stimulating for the community on the campus.

In the pursuit of its objective, cultural and intellectual activities are held. In addition, the Committee also organizes lectures, demonstrations and stage performances on classical music and dance for the community of Manipal University and the general public. The activities are informal and are intended to sensitize the academic world to other dimensions of human experience and knowledge, with the hope that this would enrich the lives of students and make them aware of their social responsibilities and understand the implications of their actions.

The Committee's activities are also aimed to orient them towards standards of equality, justice and a humanist culture. These activities are held throughout the year and eminent people in their respective fields are invited from all over India and abroad to take part in these programmes.

All students who are interested to participate in these events can contact their Institutional Staff Cultural Coordinator, who is the link between the University Cultural Coordination Committee and concerned institution. Students can register their names to receive communication on email regarding various programmes organized by the Committee.

Upcoming artistes in the field of classical music, dance etc. can also utilize the opportunity provided by the Committee to showcase their talents by registering their names with the Institutional Cultural Coordinator.

Cultural Coordination Committee is headed by the Chairperson, Dr Shobha U Kamath, Associate Professor of Biochemistry, KMC Manipal, Mr. C S Kowshik, Faculty, MIT, Manipal is the Secretary and all other Staff Cultural Coordinators from constituent institutes are members of this committee. This committee is the main link between the college and University in the field of cultural activities. The main responsibility of this committee is to ensure smooth conduct of UTSAV – Manipal University Inter College cultural festival, selecting Manipal University team to participate in Inter-University Cultural festivals and organizing various cultural programmes on the campus.

UTSAV – The Annual Inter College Cultural Festival is the flagship cultural event held in the University. Students from all the constituent colleges of the University and also students from

our campuses at Bangalore, Sikkim, Nepal, Malaysia and Dubai are invited to participate in this gala event. This is a week-long programme wherein students showcase their talents by participating in various competitions like Creative Writing, Classical Instrumental, Vocal and Dance, Pot Pourri, Cultural Parade, Light Music, Cartooning, Quiz, Painting, Collage, Debate, Extempore, Mime, Street Play, Rangoli, Mimicry, Western Dance / Music, Clay Modeling, Installation, Spot Photography, Anthakshari, Fashion Show, Poetry, JAM, MAD ADS and Creative Dance.

MEGA EVENT – Houses popular shows and performances by celebrities.

SPIC MACAY – Indian Classical and folk music and dance performances/ lecture demonstrations by artistes of international repute are held. There is an active chapter of SPIC MACAY (Society for Promotion of Indian Classical Music and Culture Among Youth), which is functioning under the Cultural Coordination Committee and is part of a national network of chapters. SPIC MACAY introduces traditional Indian culture to the youth of this country with the hope that the wealth of knowledge, wisdom and beauty that it encompasses will become an integral part of their lives. Classical Indian music and dance, carrying with them generations of wisdom, are the chief mediums for creating a cultural awareness in students. The greatest living exponents of these art forms travel to schools and colleges throughout the country demonstrating and teaching Indian culture. This provides an opportunity for the students to interact with the artistes and benefit from their experience. SPIC MACAY has no racial, regional, political or religious affiliation. All are welcome to its fold.

GUNJAN - is a forum exclusively dedicated to Indian music floated with the aim of bringing together music enthusiasts on a common platform to enjoy and appreciate music regularly.

The forum promotes the following genres of Indian Music: Hindustani Classical Music, Carnatic Classical Music, Semi-classical Music, Ghazal, Sufi, Quawaali, Devotional Music, Light Music. Under this forum, only local artistes are invited to perform. This is also a platform for talented staff and students of the University to exhibit their talents. Since the idea is to bring musicians and music lovers closer, the performances take the form of chamber concerts and not stage.

Deetails of various programs organized during the year 2014

1. Yakshagana “Jatayu Moksha” performed by the students of Yakshagana Kendra, Udupi on January 4, 2014
2. Hindustani Classical Shehnai concert by Sri. Sanjeev & Sri Ashwani Shankar & Team on February 3, 2014
3. Hindustani Classical Vocal concert by Sri Kaushik Aithal, Bangalore on February 20, 2014

4. Hindustani Classical Violin concert by Vidushi Kala Ramnath, Mumbai on February 27, 2014
5. Award winning Drama “Kala Chakra” in Tulu – a local language by the artists of Rangabhoomi @ Udupi on March 1, 2014
6. Hindustani Classical Vocal by Pt. Shounak Abhisheki on March 16, 2014 at Pt. Jeetendra Abhisheki Sangeet Samaroh
7. Staff UTSAV was organized on April 8, 2014
8. UTSAV 2014 was organized from April 9 – April 12, 2014
9. Carnatic Vocal by Kum. Priyanka C Prakash, B’lore at Ranjani Memorial Music Program in association with Ranjani Memorial Trust from Sep. 7-9, 2014
10. Carnatic Vocal by Kum. Archana & Kum. Samanvi, Udupi at Ranjani Memorial Music Program in association with Ranjani Memorial Trust from Sep. 7-9, 2014
11. Hindustani Classical Vocal by Pt. Ravikiran & team, Manipal on November 15, 2014, organized in association with Chirantana Trust, Surathkal
12. Carnatic classical Instrumental recital – “Chitraveena” by Sri Vishalam Sapooram, & team on November 23, 2014
13. Hindustani Classical Vocal by Smt. Padma Deshpande & team, Pune on December 19, 2014

SPORTS

All the sports activities at Manipal University are conducted under the supervision of University Sports Council headed by the Pro Chancellor as the Chairperson and Vice Chancellor as the Vice Chairperson of the council.

A teaching faculty is the Secretary and the Pro Vice Chancellor, Registrar, Director, Student Affairs, Director, General Services, Director Finance, Director, Projects, all the Heads of constituent institutes and Directors of Physical Education are the members of this council.

In addition to this, there are Staff Sports advisors in each college, who are also part of this council. Every year, one of the Directors of Physical Education will be elected as Chief Sports Coordinator who will oversee the University sports activities under the guidance of the Secretary, Sports Council.

The main function of the University Sports Council is to organize Inter College Sports events among the students of constituent colleges and select the best among them for University team to represent University at Inter University tournaments. It also organizes staff sports events annually.

Following are the sports facility available at Manipal and Mangalore campuses.

Manipal Campus

Playground	<ol style="list-style-type: none"> 1. Athletic field – 1no. 2. Cricket field – 2 nos. 3. Football field - 2 nos. 4. Hockey field – 2 nos. 5. Volleyball court – 4 nos. 6. Basketballcourt – 4 nos. 7. Throwball court – 2 nos. 8. Tennis court – 8 nos. (clay -4 and synthetic – 4)
Swimming pool	One no. at MIT campus
Gymnasium	<ol style="list-style-type: none"> 1.KMC Multi – Gym16 Station 2. Weight Training sets 3. MIT – gymnasium(near KC circle)
Any other (please specify)	Badminton court- MIT, Manipal Table tennis hall at MIT hostel Aerobic hall at MIT(near KC circle) Indoor Chess and Carom facilities MARENA Indoor sports complex*

* MARENA Indoor sports Complex

Manipal University provides state-of-the-artsports infrastructure for indoor and outdoor games.

MARENA is a world-class indoor sports complex with state-of-the-art facilities which is openforboth students and staff.

Facilities available

- a) Entry Level: Gymnasium, Cafeteria, Sports Shop
- b) First Floor: Walking/Jogging Track
- c) Level Minus-1: Sauna, Steam Bath, Change Rooms, Lockers
- d) Level Minus-2: Badminton Courts(5), Squash Courts(4)
- e) Level Minus-3: Basketball Court
- f) Level Minus-4: Services
- g) Level Minus-5: Cricket, Football, Simulated Games
- h) Besides above there will be Tennis Courts at open to sky areas

Mangalore Campus

Playground	<ol style="list-style-type: none"> 1. Football ground–1 no. 2. Volley Ball court – 1 no. 3. Basket ball court with flood lit facilities – 1 no. 4. Cricket Net practice pitches – 3 no.s
Swimming pool	Nil
Gymnasium	Available at MARENA Mangalore
Any other (please specify)	There is an indoor sports complex named MARENA Mangalore with the facilities same as available at MARENA Manipal

ANNEXURE 4.3

LIBRARY LAYOUT

MANIPAL CAMPUS

HEALTH SCIENCES LIBRARY

Manipal University has an excellent Health Sciences Library, perhaps the best among all Health Sciences Libraries in India. The state-of-the-art library stretching over 1.5 lakh square feet, on five levels is a domain for information seekers; be it students, faculty members or researchers. It has the capacity to accommodate 1300 students at a time. Besides the comfortable seating and reading environment, the library is well equipped with modern facilities such as e-Learning, access to internet and web resources including online journals and e-books. Library is providing a growing range of databases available in electronic form on the campus network. All the library services have been automated on modern line. The library has fully computerized its collection, which could be accessible through OPAC. The library is enabled with Wi-Fi technology and security systems with Closed Circuit Television System (CCTV). There is a separate audio-visual room, computer lab, group study area and private study area in the library. The library has all the facilities for the students to learn. The Health Sciences Library is committed to provide a world-class information support to its users.

Floor Plan

The Health Sciences Library is stretching on five levels. The organization of the various levels is given below:

- Level – I:

Senior Librarian (In-charge) office, help desk, security desk, property counter, notice boards, group study area, circulation (issue and return) section, reference counter, EPAC user terminals, internet kiosks, new arrivals section, reading hall, books related to Nursing Sciences, Pharmaceutical Sciences, Allied Health Sciences, Statistics, Library Science, Public Health, Social Work and General Subjects and photocopying section.

- Level – II:

Senior Librarian office, fax section, reference counter, internet kiosks, new arrivals section, reading hall and books related to Medical Sciences and Dental Sciences and notice board.

- Level – III:

Senior Librarian office, computer lab, reference counter, new arrivals section, reading hall, reference books related to Medical Sciences and Dental Sciences, current periodicals,

photocopying section, EPAC user terminals, internet kiosks, notice boards, display of faculty publications, display of Manipal University Press (MUP) publications and private study area.

- Level – IV:

Reading hall, back volumes of journals related to Medical Sciences, PhD theses, WHO publications, reference counter, internet kiosks, photocopying section, e-learning centre, audio visual room and newspapers and magazine section.

- Level – V:

Reading hall, back volumes of journals related to Dental Sciences, Nursing Sciences, Pharmaceutical Sciences and Allied Health Sciences, reference counter, postgraduate theses, books on Yoga and Ayurveda and old editions of books



TECHNICAL INSTITUTIONS LIBRARY

- * **Total area of the library (in Sq. Mts.): 6503 Sq.Mt.**
- * **Total seating capacity : 800**
- * **Working hours (on working days, on holidays, before examination, during examination, during vacation)**

On working days:08:00to 23:00

On Holidays:09:00to 17:00

During Examination:08:00to 23:00

- * **Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources)**

Library has been organized into various sections like Lending section, Periodical section, Text Book section etc. Separate individual study hall and Group study halls are available. Individual Reading cubicles are available in the reading halls. 15 computers are available in the information centre for browsing the online databases. The entire library is Wi-Fi enabled. Users can use their laptops in the reading halls to access the online resources subscribed by the library.

- * **Clear and prominent display of floor plan; adequate sign boards; fire alarm; access to differently-abled users and mode of access to collection**

The entire layout of the library is displayed near the entrance.

Sign boards are available in all the floors to mark the location of all the resources. In the book stack arrangement of books is properly guided using various bay guides. Online catalogues are made available both in the library and throughout the intranet.

NPTEL Video lectures are accessible throughout the campus, which can be used by visually and physically challenged users.

MANGALORE CAMPUS

Kasturba Medical College, Mangalore has an excellent new Central Library. The total area of the library is 2025 SqMt centrally air conditioned space spread over three floors is a domain for information seekers; be it students, faculty members or research scholars. It has the capacity to accommodate 450 students at a time. Facilities like Photocopying, Internet browsing, Colour laser printing, Scanning and MEDLINE Services are available.

The Mission of the Library is to acquire, manage and to assist physicians, health professionals, students and medical researchers in finding health and scientific information to improve, update, assess or evaluate healthcare related to their field of interest.

The Library has computerized all its operations and provides access to up-to-date relevant information to its users.

Library Sections and Arrangement of library resources in three floors

Basement Floor:-	I Floor :-	II Floor (Mazanine):-
Property keeping section Reception and UG Counter Charging and Discharging Section Library Office Sr Librarian Librarian Xerox Photocopy Undergraduate Reading Hall Bound Volumes Section Internet Section Stack Area and Reference section	PG Reading Hall Specialized and PG Books Old book's section	Current Periodicals Staff Reading Area PG Reading Area Binding Room

- * Clear and prominent display of floor plan-Yes
- * Adequate sign boards-YES
- * Fire alarm-Yes
- * Mode of access to collection-UG Section-Closed access
- * PG Section-Open access
- * Access to differently-abled users –Yes

Apart from the three major libraries detailed above there are some smaller libraries in institution level at WGSMA Manipal, SOM Manipal, SOC Manipal, SON B'lore and also various libraries at departmental level

ANNEXURE 4.4

IT INFRASTRUCTURE**A. IT Service Management Policy****Objective:**

- To align IT services with the current and future needs of the business and its Customers.
- To develop the quality of the IT services delivered.
- To reduce the long term cost of service provision.
- IT infrastructure best practices to satisfy business requirements.
- Evolution of the business into an adaptive enterprise.

Needs of Service Management:

- Increasing IT visibility and Reliance
- Identifying the integration required between the various IT Processes, thus enabling them to function effectively and enable IT Service provisioning within an enterprise
- Increasing demand from Business to deliver effective IT solutions/services (Cost Effective)
- Increasing complexity of IT infrastructure and processes
- Increasing competition
- Increasing pressure to realise return on investment

Benefits:

- Increased user and customer satisfaction with IT services
- Improved service availability, directly leading to increased business profits and revenue
- Financial savings from reduced rework, lost time, improved resource management and usage
- Improved time to market for new products and services
- Improved decision making and optimized risk.

Process Improvement Stages:

- Process improvement definition
- Communication
- Planning

- Implementation
- Review and Audit

Service Management:

- **Service Delivery Processes**

Long term planning and improvement of IT service provision

- ▶ **Service Level Management:** maintain and improve the level of service to the organization.
- ▶ **Availability Management:** Optimize IT infrastructure capabilities, services, and support to minimize service outages and provide sustained level of service to meet business requirements.
- ▶ **Capacity Management:** Enables an organization to tactically manage resources and strategically plan for future resources requirements.
- ▶ **Financial Management:** Managing the costs associated with providing the organization with the resources needed to meet requirements.

- **Service Support Processes**

- ▶ **Incident Management:** Day to day operational support of IT services that restores normal acceptable service with a minimal impact on business.
- ▶ **Change Management:** standard methods and procedures for effective managing of all changes.
- ▶ **Problem Management:** to diagnosis of the root cause of incidents in an effort to proactively eliminate and manage them.
- ▶ **Configuration Management:** physical and logical perspective of the IT infrastructure and the IT services being provided
- ▶ **Performance Management:** the day-to-day monitoring and reporting of resource performance and utilization.
- ▶ **Service Continuity:** Managing an organization's capability to provide the necessary level of service following an interruption of service.
- ▶ **Service Desk (Function):** a function not a process, this provides a central point of contact between users and IT

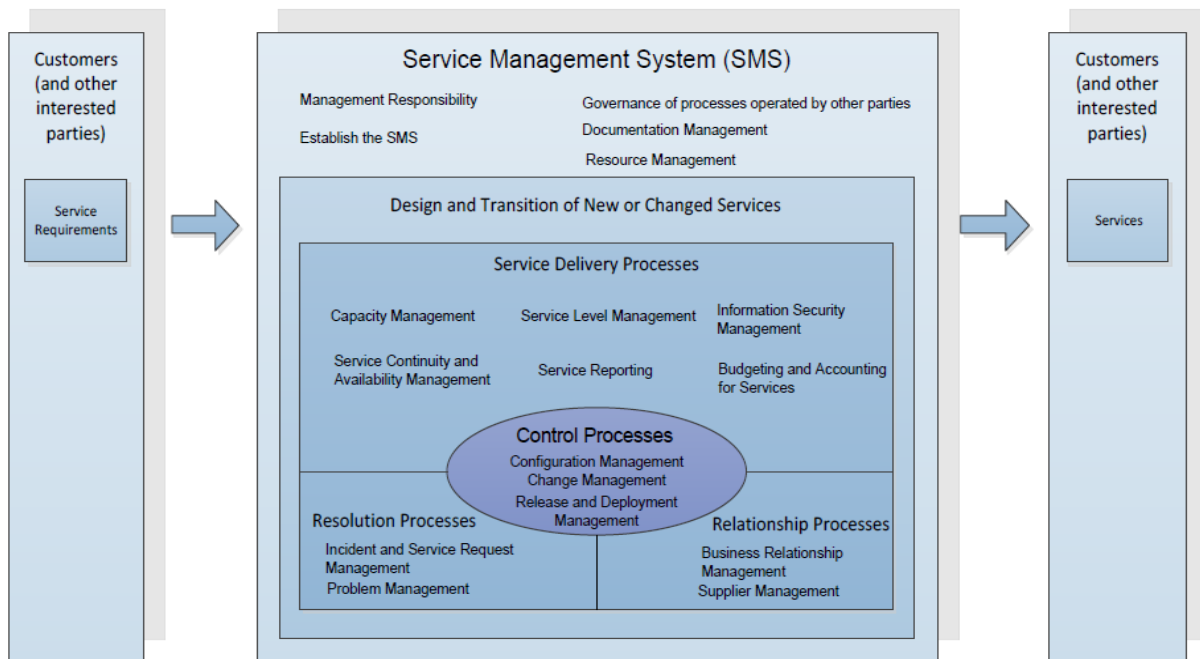
Key Definitions:

Service Support Day to Day Function that Supports the Service Delivery Processes

- ▶ **Customer:** recipient of a service: usually the Customer management has responsibility for the *funding* of the service.
- ▶ **Provider:** the unit responsible for the *provision* of IT service.
- ▶ **Supplier:** a third party responsible for *supplying* or supporting underpinning elements of the IT service.
- ▶ **User:** the person *using* the service on a daily basis.

Scope of IT Service Management:

The scope of IT Service Management as defined by the ISO/IEC 20000 standard is set out in the following diagram.



Details of the IT services provided can be found within the IS Department Service Catalogue and a list of business units/stakeholders within the Business Relationship Management Policy

Management Representative

The Assistant Director-IT shall have overall authority and responsibility for the implementation and management of the IT Service Management Quality system, specifically:

- The identification, documentation and fulfilment of service requirements
- Implementation, management and improvement of service management processes
- Integration of processes

- Compliance with statutory, regulatory and contractual requirements
- Reporting to top management on performance and improvement

The service management plan will be reviewed on a quarterly basis, at which time the objectives will also be reviewed to ensure that they remain valid. If amendments are required, these will be managed through the change management process.

Governance of Processes Operated by Other Parties

Manipal University's Information Systems Department makes use of various third parties, both internal and external, in the delivery of services to its customers. Where this involves the operation of a service management process, or a part of the process on behalf of IS Department, this is identified in the Service Management Plan.

External suppliers will be managed through the Supplier Management process and an associated underpinning contract. Internal providers will be managed through the Service Level Management process using an operational level agreement.

In all cases, IS Department retains the governance of the relevant processes by demonstrating:

- Accountability for the process
- Control of the definition of and interface to the process
- Performance and compliance monitoring
- Control over process improvements

This will be evidenced by documents and records such as contracts, OLAs, meeting minutes and performance reports.

IT Services Catalogue:

Following Services were offered in the university with proper SLA for Desktop, Servers, Printers, Scanners and accessories

- Desktop maintenance
 - Value Point Systems Pvt. Ltd.
 - Frontier Solutions
- Laptop
 - HP
 - Lenovo
 - Apple
 - Acer
- Tablet

- Blackberry
- Data Card
 - Tata Photon
 - Reliance
- Networking
 - LAN – IBM: Facility Management for all networking related issues including configuration management, asset management and call management
 - WiFi – IoN:
 - WAN – Dimension Data: Facility management for all WAN devices, Group Wide Connectivity monitoring, Configuration Management & Asset Management

B. Information Security Policy

1. Introduction

The University routinely gathers, stores, maintains, processes, transmits and disposes of records containing information. That information plays a vital role in supporting the University's business processes and customer services, in contributing to operational and strategic business decisions, and in conforming to legal and statutory requirements. Accordingly, information must be protected to a level commensurate with its value to the organisation, while made available to those who need it.

2. Scope

This policy applies to:

- all users of the University's information, including service providers of the University;
- all information assets encompassing facilities, data, software, paper documents and personnel.

3. Policy Intent

To provide definitive instruction on the safeguarding of personal and proprietary information and thereby protect the University from the adverse impact on its reputation and operations of failures of confidentiality, integrity and availability.

4. Relevant Definitions

In this policy:

availability means the capacity of information systems (i) to be accessible and useable when required, and (ii) to be able to resist attacks and recover from failures;

confidentiality means the principle of protecting information and preventing its disclosure to anybody other than those who have a right and need to know;

information system means any University corporate telecommunications and/or computer related equipment or interconnected system or subsystem of equipment that is used in the acquisition, storage, manipulation, management, movement, control, display, switching, interchange, transmission or reception of voice and/or data.

integrity means a standard of performance that guarantees information is created, amended or deleted only by the intended authorised means.

5. Policy

- Information is an asset of the University.
- Information used to support the University's operations will be securely stored.
- Information will be used in a manner which protects the integrity of the data and the privacy of those associated with it.
- Confidential, sensitive and proprietary information will be protected from corruption, loss, unauthorised access and disclosure.
- Any guideline or procedure that is developed to implement this policy must;
- ensure the availability of appropriate information and services to its staff and students, customers and business partners;
- minimise the possibility of a threat to information security causing loss or damage to the University, its staff and students, its customers and business partners;
- minimise the extent of loss or damage from a security breach or exposure;
- ensure that adequate resources are applied to implement an effective information security program.
- All University staff, students, co-joints (service providers), third parties (vendors/suppliers), and government agencies who have access to the University's information systems will be informed of their responsibilities and obligations with respect to security.
- The principles of information security will be consistently and effectively applied during the planning and development of University activities.
- Compliance with this policy will be monitored on a regular basis.

C. Network Security Policy

1. Introduction

The University's network infrastructure provides the technical foundation for the conduct of its academic, research and administrative functions.

Providing access to information technology and network resources encourages the promotion of scholarship, research & free inquiry, and the interaction of research and teaching.

An essential part of ensuring that access remains available is to ensure that the network is sufficiently secure. The network must - within the limits of the University's resources - be protected to a level commensurate with its value to the University, while made available to those who need it. A secure network also ensures that the University meets both community expectations and its legal and statutory obligations.

Appropriate network security systems protect the University from the adverse impact on its reputation and operations of failures of confidentiality, integrity and availability.

2. Scope

This policy applies to:

- any communications networks (existing and future) to which University network equipment is connected;
- all equipment connected to the networks mentioned above;
- network administrators managing the equipment;
- project leaders requiring new equipment to be connected to the network; and
- all users utilising equipment that is connected to the network.

3. Policy Intent

To ensure that all network security activities support a culture of communication and information sharing, whilst accommodating the University's obligations in relation to:

- providing clear and definitive instruction with regards to the University's intention to safeguard personal and proprietary information; and
- the privacy of personal information; and the protection of those University activities and knowledge that are determined to be confidential.

4. Relevant Definitions

In this policy:

Availability means the capacity of information systems (i) to be accessible and useable when required, and (ii) to be able to resist attacks and recover from failures;

Default to deny means the setting of the norm to denying access so that specific instruction must be provided to allow access;

Confidentiality means the principle of protecting information and preventing its disclosure to anybody other than those who have a right and need to know;

Integrity means a standard of performance that guarantees information is created, amended or deleted only by the intended authorised means.

Least privilege means the principle that each subject be granted the most restrictive set of privileges needed for the performance of authorised tasks.

Device means any piece of network connected equipment.

5. Policy

Devices connected to the University's communications network by any means must be protected and data secured by all appropriate measures.

All operating system software, device firmware, application software and other software:

- i. will be protected with the latest security-related patches from the vendor; and
- ii. where applicable, will run up-to-date anti-virus software.

In cases where it is not possible to update software or firmware, the device must be protected by other means that limit network access.

Every device connected to the University network must be approved before installation and registered with IT Services.

The fundamental concept of least privilege and default to deny must be applied to all devices connected to the University network.

- i. Allowances must be the exception rather than the rule, and must be based on a legitimate business or academic need.
- ii. These exemptions must be negotiated with IT Services before they are implemented or attempted to be implemented.

IT Services reserves the right to proactively deny access in order to preserve the availability and integrity of the network.

D. Risk Assessment Policy

1.0 Purpose

The purpose of the Risk Assessment Policy is to perform periodic information security risk assessments for the purpose of determining areas of vulnerability, threats, and to initiate appropriate remediation.

2.0 Scope

Risk assessments can be conducted on any entity within Manipal University or any outside entity by the professionals that has signed a *Third Party Agreement* with Manipal University. RAs can be conducted on any information system, to include applications, servers, and networks, and any process or procedure by which these systems are administered and/or maintained.

3.0 Definitions

Information – Data elements, whether in part or combined, that are of value to the University, such as student or employee records, intellectual property, research data, or other information.

Information Systems – All computer and network systems owned by and/or administered by the University. This includes all computing platforms of all sizes from tablets PC to servers, all peripheral devices and media, and all data contained on those systems.

Risks – Those factors that could affect the security, confidentiality availability, and integrity of the University’s key information assets and systems.

University Administrators - For the purposes of this Policy are those individuals responsible for campus organizational units (e.g., deans, directors, department heads, principal investigators, or managers) or individuals having functional ownership of data.

Entity - Any business unit, department, group, or third party, internal or external to Manipal University, responsible for maintaining Manipal University assets.

4.0 Applicability

- 4.1 This Policy applies to all University faculty, staff, students, and University Constituents.
- 4.2 This Policy applies to all information systems owned by and/or administered within the University. This includes all computing platforms of all sizes from tablet PCs to Servers, all peripheral devices and media, and all data contained on those systems.
- 4.3 This Policy applies to data in any tangible form whether it is written, printed, taped, or stored in hard copy or electronic form.

5.0 Policy

The execution, development and implementation of remediation programs is the joint responsibility of ISD and the department responsible for the systems areas being assessed. Employees are expected to cooperate fully with any RA being conducted on systems for which they are held accountable. Employees are further expected to work with the ISD in the development of a remediation plan.

- 5.1** The IS RA program is to be based on risk assessment and developed in consideration of university priorities, staffing, and budget.
- 5.2** Risk assessments must identify, quantify, and prioritize risks against criteria for risk acceptance and objectives relevant to the university. The results are to guide and determine the appropriate management action and priorities for managing information security risks and for implementing controls selected to protect against these risks.
- 5.3** Risk assessment must include the systematic approach of estimating the magnitude of risks (risk analysis) and the process of comparing the estimated risks against risk criteria to determine the significance of the risks (risk evaluation).
- 5.4** Risk assessments are to be performed periodically to address changes in the security requirements and in the risk situation, e.g. in the assets, threats, vulnerabilities, impacts, the risk evaluation, and when significant changes occur.
- 5.5** Risk assessments are to be undertaken in a methodical manner capable of producing comparable and reproducible results. The information security risk assessment should have a clearly defined scope in order to be effective and should include relationships with risk assessments in other areas, if appropriate.

6.0 Enforcement

Any employee found to have violated this policy may be subject to disciplinary action as per MU Policy.

7.0 Roles & Responsibilities

University Administrators: Have responsibility to ensure that this Policy is supported with their organizational units.

Director of Information Systems Department: is responsible for developing and implementing procedures and guidelines necessary to implement this Policy.

E. Risk Management Policy

1.0 Overview

The University defines risk as the possibility that an action or event will adversely (or beneficially) affect the University's ability to achieve a planned objective. The identification, assessment, monitoring, management and reporting of risks are the responsibility of every member of staff and as a consequence of managing identified risks.

Effective risk management is regarded as a critically important part of the work of the University because it greatly reduces the chances of surprises adversely affecting the University and, at the same time, increases confidence on the part of the internal and external stakeholders.

2.0 Purpose

- The planned objectives are more likely to be achieved
- Adverse risks are less likely to happen
- The impact of adverse risks which are realized is reduced.

The purpose of this policy is to set out the University's approach to risk and describe how to mitigate this risk.

3.0 Policy

The Risk Management Policy informs the approach to the Risk Management System which is the established process by which the University identifies risk, assesses risk and manages risk in order that it should succeed in its planned objectives.

F. Software Asset Management (SAM) Policy

Software Asset Management (SAM) is a best practice incorporating a set of proven processes and procedures for managing and optimizing your organization's IT assets. Implementing SAM protects your software investments and helps you recognize what you have, where it's running, and if your organization is using your assets efficiently.

Benefits of SAM:

Control costs and business risks for a stronger, healthier financial position.

Optimize existing investments, so that you can do more with what you already have.

Grow with your company's expanding needs in size and maturity through increased flexibility and agility

Implementing SAM

Take inventory. Find out what you already have.

Get organized. Organize all your software licenses and documentation.

Create policies and procedures. Establish new standards and guidelines for all phases of the software life cycle.

Maintain your SAM plan. Keep your SAM plan current through spot checks, inventories, and employee training.

Software Use Policy

Introduction

Manipal University recognizes the importance of the legal and ethical use of software assets. This document provides guidelines for employees to follow to ensure that we are both legal and ethical in the use of our software assets. All software assets are for business use only and should not be used by employees for personal interests.

Manipal University Policy on Use of Software

General Policies

Manipal University has purchased fully licensed copies of computer software from a variety of publishers and vendors. Licensed and registered copies of software programs are placed on computers within the company and appropriate backup copies made in accordance with the licensing agreements and company policies. No other copies of this software or its documentation can be made without the express written consent of the software publisher and Manipal University.

Software from Other Sources

Manipal University will provide copies of legally acquired software to meet all legitimate needs in a timely fashion and in sufficient quantities for all of our computers. The use of software obtained from any other source could present security and legal threats to the company, and such use is strictly prohibited.

Additional Copies

In some cases, the license agreement for a particular software program may permit an additional copy to be placed on a portable computer or home computer provided only one user uses both installations. Employees will not make such additional copies of software or documentation for the software without the approval of Information Systems Department, Manipal University. When legal, approval will be granted for such installations when there are valid business reasons.

Unauthorized Copies

The unauthorized duplication of copyrighted software or documentation is a violation of the law and is contrary to established standards of conduct for Manipal University employees. Employees, who make, acquire or use unauthorized copies of computer software or documentation will be subject to immediate discipline up to and including immediate termination of employment.

Internal Controls

Manipal University reserves the right to protect its reputation and its investment in computer software by enforcing strong internal controls to prevent the making or use of unauthorized copies of software. These controls may include periodic assessments of software use, announced and unannounced audits of company computers to assure compliance, the removal of any software found on Manipal University property for which a valid license or proof of license cannot be determined, and disciplinary actions, including termination, in the event of employee violation of this policy.

G. Software Disaster Recovery Plan

Introduction

Manipal University recognizes that software is a major tool for all of our lines of business. As such, certain steps need to be taken to protect our investment and ensure maximum continuity of function in the event of a disaster. This plan provides an overview of the steps necessary to protect this important part of our business.

Overview

Goals

1. Provide methods to recover from:
 - a. Loss of inventory data
 - b. Loss of installation media
 - c. Loss of proof of ownership
2. Define steps needed to keep the system up to date
3. Define steps needed to restore onsite media and information to previous state in the event of a disaster

Summary of Steps to be Taken

1. Create a centralized inventory of software titles owned.

- a. Maintain a copy offsite and update it regularly.
2. Create a centralized set of backup copies of installation media for software titles owned.
 - a. Maintain a second set of copies of installation media offsite and update it regularly.
3. Create a centralized set of proof of ownership documentation for software titles owned.
 - a. Maintain a second set of copies of all documentation offsite and update it regularly.

Inventory

The first thing we have to know is what software we have licenses for. To achieve this goal we will need to maintain a central inventory of all software licensed by the University. In order to ensure that inventory data is maintained and kept up to date, we will enter all new software into the system upon arrival. We also will conduct regular audits of the system to verify continuing data integrity. Lastly, we will ensure that a full copy of our inventory data is maintained offsite and updated regularly.

The entry of new software into the system will occur as part of a standard software check-in process. This check-in process will be performed before newly arrived software is disseminated for use. This will allow us to ensure that no software is installed without first being entered into the inventory system. This will also provide an opportunity to protect proof of ownership documentation and installation media as outlined elsewhere in this document.

Regular audits are key to maintaining the integrity and relevance of our inventory data. We will perform quarterly spot checks to verify inventory counts on a randomly selected cross section of our software and use the resulting counts to update our inventory. On an annual basis we will conduct a full inventory and compare the results to our existing inventory data, spot-checking for any inconsistencies.

We need to maintain an offsite copy of this data to protect ourselves in the event of a disaster that destroys our onsite records. This data should be updated on a regular basis to ensure consistency. At a minimum, the offsite copy should be updated whenever an inventory audit is completed. This copy should be housed at a safe location that several people at the company can gain access to. This will prevent dependence on any one person for access in the event of an emergency.

Installation Media

Software installation media also needs to be protected in the event of a disaster, though it should be easily accessible to support staff as well. To ensure safety in the event of a disaster,

we will locate copies of all installation media in a protected, offsite location. To provide support staff with needed access we will also keep a central library of installation media available for use. The offsite repository should be updated as regularly as possible.

One original of the installation media for each software title should be set aside and taken to the offsite repository. This media (DVD, CD, user manuals, etc.) should always be an original so that it can provide additional proof of ownership if needed. The offsite repository should be updated as often as is feasible, quarterly at a minimum. No more than one copy of media for each version of each software title should be stored offsite in order to minimize the size of the repository.

If the manufacturer permits making backup copies, at least one copy of the software installation media should be filed in the central installation media library for use by our technicians. If copies are not allowed, additional original media will be needed. If we do not own several copies of the software package, and hence several copies of the media, additional copies of the installation media can usually be obtained from the manufacturer for a small fee. Any additional copies of the media should also be stored in the onsite library, to give as much flexibility to our support staff as possible.

Proof of Ownership

Proof of ownership documentation is the most important factor in protecting the company's investment in software assets. As such, we will send the originals of all such documentation to our offsite repository. We will retain copies of this documentation in an onsite location to assist in the event of a software-license audit.

During the software check-in process we will remove and retain all documentation that pertains to ownership of the software package. This documentation can consist of any or all of the following:

- End User License Agreements
- Certificates of Authenticity
- Purchase Invoices
- Bills of Lading
- Software Boxes

All of this type of documentation should be retained. The software boxes should be flattened to facilitate storage and all originals should be placed in a manila envelope and labelled for offsite storage. As always, the offsite storage should be updated regularly to ensure the continuity of our protection.

Whenever possible, photocopies should be taken of the documentation and the copies should be kept onsite in a central set of files. This onsite set of copies will provide the proof of ownership needed in the event of an audit, while still allowing us to protect our software assets if disaster strikes.

H. Software Acquisition Policy

Introduction

Manipal University wants to ensure that we are meeting our responsibilities as software users by ensuring that all software packages Manipal University purchases is legal and appropriately accounted for. The purpose of this document is to outline the steps we need to take in order to ensure that all software we purchase is processed into our inventory tracking system and all documentation of ownership is properly stored and maintained.

Overview

Goals

1. Define the requirements for lines of business to license software
2. Define the steps necessary to ensure that our software inventory is kept up to date
3. Define the steps necessary to ensure the retention of all software license documentation proving our license rights to the software
4. Define the steps necessary to provide lines of business access to software documentation

Summary of Steps to be Taken

1. Request software
2. Purchase licenses for software
3. Receive software
4. Distribute software
5. Ensure software documentation is available to end users

Software Acquisition Steps

Requesting Software

Work with the IS Department to determine your software and/or equipment needs. Once determined, obtain approval from the department manager according to Manipal University purchase order requisition procedure.

Purchasing Licenses for Software

Send the completed purchase order requisition to the IS Department for verification and approval. If changes are necessary, ISD will contact the requesting department.

The IS Department sends the approved purchase order requisition to the Purchasing Department where it is processed. All orders are sent to the IS department.

Receiving Software

When the item(s) is/are received, the IS Department follows Manipal University Check-In Procedure to ensure the software is included in the software inventory.

The IS department maintains such copies of media and documentation as needed to support our systems in a central on-site repository. All remaining original and backup disks and all original licensing documentation are stored offsite at the following location:

Information Systems Dept,
Ground Floor,
Innovation Centre Building, MIT Campus,
MANIPAL – 576 104.

Departments may keep copies of the original documentation for reference purposes.

Distributing Software

After the check-in process is complete, ISD will contact the requesting department to schedule software installation.

ISD will require the following information for each employee who will receive the software:

Name
Dept
Institution
Email Address Phone Extension

If software needs to be reinstalled, contact ISD to perform the reinstallation.

Ensure Software Documentation Available to End Users

Copies of the End User License Agreement (EULA) or Software License Terms (SLT) and manuals will be made available to the department(s) receiving the software.

If at any time an employee needs a copy of software documentation, the IS Department will provide the documentation.

Additional Information

For more information, or if you are interested in acquiring software for a special purpose, please contact Assistant Director-IT at 0820-2925022/23 (or by e-mail at info.mahe@manipal.edu) at least **three** months in advance of your proposed acquisition.

Software License Summary Report

Instructions:

Once performed software inventory and found licensing documentation, summarize the results in a spreadsheet like this one.

Record the date of the inventory, any inventory tools used, and the total number of PCs in the inventory.

Then list each software title, versions and number of installations and compare it to the number of licenses acquired to determine if in excess or deficiency in licenses.

Date:

--

Inventory tool used (if applicable)

--

Total number of PCs inventoried:

--

Software Installed			Total Licenses Acquired	License Excess or Deficiency
Product Name	Version	Total Installations		

Software Inventory Summary Report

Instructions:

After performing inventories on individual PCs and/or PCs on a network, summarize all of the information into one table (like the one in this spreadsheet) or in a database.

Business Unit	Computer Name	Software Publisher	Software Title	Version Number	Total Installations

Software & Hardware Report

Instructions:

After performing your software inventory, record information about each employee's computer in a spreadsheet like this one, or in a database.

Employee	John Smith	Jane Doe
Hardware	Dell Dimension	Dell Latitude
CPU	Core i3	Core i5
RAM	4 GB	4 GB
Operating System	Microsoft Windows 7 Enterprise	Microsoft Windows 7 Enterprise
Software (version)		
Microsoft Office	Office Professional Plus2010	Office Professional Plus2010
Word	2010	2010
Excel	2010	2010
PowerPoint	2010	2010
OneNote	2010	2010
Visio	2010	2010
Visual Studio Professional		
Adobe Photoshop		
Adobe Acrobat Reader	9	9
Internet Explorer	9	9
Windows Media Player	12	11

I. Open Source Software and Open Standards Policy**1.0 Introduction****1.1 Authority**

Manipal University authorizes the Department of Information Systems “to provide direction and oversight for all activities directly related to information technology and security”.

1.2 Purpose

The Purpose of this policy is to encourage departments and institutions to consider the use of open source software and proprietary software that incorporates or utilizes open standards when making decision about procurement of software solutions.

Open source software presents opportunities for institutions and departments to implement solutions without incurring the cost of acquisition and maintenance of licenses that are generally required for proprietary software solutions. Therefore, institutions and departments should consider the use of open source software solutions and open standards as part of the procurement process. This generally means that an investigation of potential open source software solution should be conducted prior to issuing a bid for proprietary software solutions, and that the use of open standards should be included as part of a bid for proprietary software solutions.

Institutions and departments should also consider the use of open source languages, libraries, open development platforms and open protocols for the development of custom solutions.

1.3 Scope

This policy is applicable to all institutions and departments.

2.0 Policy

Open source software often has a lower initial cost as compared with proprietary software solutions, primarily because there is usually no direct charge for licenses. However, there may be additional costs related to the selection of an open source solution. Therefore:

- a. Decisions on whether to utilize open source software should be made within the context of total cost of ownership. The total cost of ownership includes both fixed costs (direct purchases and licensing) and operational costs for support, testing, upgrades, maintenance and training.
- b. Each institution and department should carefully review their business requirements for technology solutions as they consider new projects.
- c. The selection of any software solution, whether open source or proprietary, should be based on whether the proposed solution meets the business objectives of the department or institution. Institutions and Departments may be asked to document that they have vetted opportunities to consider open source software as part of the contracting process.

2.1 Guidelines:

- Because participation in the ongoing development and improvement of OSS is the underlying basis for the promotion of OSS solutions, departments and institutions

should consider the context to which they may wish to actively participate in development of OSS solutions that fall short of all the project requirements for which the solution is used.

- Request for Proposal should require that software vendors clearly identify whether their solutions are fully functional using open standards and, if not, to specifically identify and proprietary or close specification standards for which they do not support a fully functional open alternative. Departments may give preference to proprietary software solution that implements open standards over proprietary solutions that do not and may include the degree to which a proprietary software solution utilizes open standards as part of the Request for Proposal evaluation criteria.
- When scheduling the implementation of any new software solution, institutions and departments need to be careful not to interface with or diminish the effective use of software solutions that have already been adopted.
- While the adoption of open source solutions usually does not involve payments for licenses that control how open source solutions may be used. Departments are advised to be aware of both the type of open source license and any requirements or restrictions that may be incorporated as part of the license. Since the licensing requirements can directly impact institution operations, consultation with the Legal office prior to executing a license agreement for open source solutions is advisable.
- The acquisition of open source solutions, as with any proprietary software, is subject to the contracting requirements of University.

3.0 Definition of Open Source Software and Open Standards

The distribution terms of open-source software must comply with the following criteria:

3.1 Free Redistribution

License should not restrict any party from selling or giving away the software as a component of an aggregate software distribution containing programs from several different sources. The license shall not require a royalty or other fee for such sale.

3.2 Source Code

The program must include source code, and must allow distribution in source code as well as compiled form. Where some form of a product is not distributed with source code, there must be a well-publicised means of obtaining the source code for no more than a reasonable reproduction cost preferable, downloading via the internet without charge. The source code must be the preferred form in which a programmer would

modify the program. Deliberately obfuscated source code is not allowed. Intermediate forms such as the output of a pre-processor or translator are not allowed.

3.3 Derived Works

The license must allow modifications and derived works, and must allow them to be distributed under the same terms as the license of the original software.

3.4 Integrity of the Author's Source Code

The license may restrict source-code from being distributed in modified form *only* if the license allows the distribution of “patch files” with the source code for the purpose of modifying the program at build time. The license must explicitly permit distribution of software built from modified source. The license may require derived works to carry a different name or version number from the original software.

3.5 No Discrimination Against Persons or Groups

The license must not discriminate against any person or group of persons.

3.6 No Discrimination Against Fields of Endeavor

The license must not restrict anyone from making use of the program in a specific field of endeavor. For example, it may not restrict the program from being used in a business, or from being used for genetic research.

3.7 Distribution of License

The rights attached to the program must apply to all to whom the program is redistributed without the need for execution of an additional license by those parties.

3.8 License Must Not Be Specific to a Product

The rights attached to the program must not depend on the program's being part of a particular distribution. If the program is extracted from that distribution and used or distributed within the terms of the program's license, all parties to whom the program is redistributed should have the same rights as those that are granted in conjunction original software distribution.

3.9 License Must Not Restrict Other Software

The license must not place restrictions on other software that is distributed along with the licensed software. For example, the license must not insist that all other programs distributed on the same medium must be open source software.

3.10 License Must Be Technology Neutral

No provision of the license may be predicted on any individual technology or style of interface.

4.0 Open Standards

4.1 Availability: Open Standards are available for all to read and implement.

4.2 Maximize End-User Choice: Open Standards create a fair, competitive market for implementations of the standards. They do not lock the customer in to a particular vendor or group.

4.3 No Royalty: Open Standards are free for all to *implement*, with no royalty or fee. *Certification* of compliance by the standards organization may involve a fee.

4.4 No Discrimination: Open Standards and the organizations that administer them do not favour one implementer over another for any reason other than the technical standards compliance of a vendor's implementation. Certification organization must provide a path for low or zero-cost implementations to be validated, but may also provide enhanced certification services.

4.5 Extension or Subset: Implementations of Open Standards may be extended, or offered in subset form. However, certification organizations may decline to certify subset implementations, and may place requirements upon extensions.

4.6 Predatory Practices: Open Standards may employ license terms that protect against subversion of the standards by “embrace and extend tactics”. The license attached to the standard may require the publication of reference information for extensions, and a license for all other to create, distribute, and sell software that is compatible with the extensions. An Open Standard may not otherwise prohibit extensions.

J. Green Computing

1.0 Overview

The unintentional exposure of sensitive data as a result of disposal of computing resources presents a significant risk to organizations. These same resources also contribute to a considerable environmental concern: disposal of e-waste. To mitigate data-loss risks and contribute to environmentally-friendly disposal of computing hardware, Information Systems Dept (ISD) has developed the Green Computing program.

2.0 Objective

The **Green Computing** program is a campus service to securely remove data from used computing assets according to [University policy](#) and dispose of used technology in an

environmentally friendly manner. **Green Computing** is the designated procedure for institutions of the Manipal University to comply with the existing Electronic Data Disposal policy and standard.

The **Green Computing** program includes the pick-up, tracking, data cleaning and proper disposal of computing assets, including desktop, laptop, servers, monitors, printers, fax machines, switches, hub, routers, firewalls, computer accessories (keyboard, mice, speaker, etc.) and cell phones.

3.0 Green Computing Procedure

1. ER-3 Solutions contacts institutions via e-mail to establish service request
2. Assets are scheduled for pick-up by Moving Services
3. Asset is documented and transported to secure location
4. For purchased equipment, hard drives are shred according to the Electronic Data Disposal and Reuse Policy. For leased equipment, the hard drive is cleaned according to the Electronic Data Disposal and Reuse Policy.
5. Asset is transported for (a) recycling process or (b) environmentally-friendly disposal.

Disposal was for assets over six (6) years old in case of desktops and servers, for other assets under six (6) years with wiping costs, as applicable.

The vendor/s follows industry standards and best-practices for recycling, reclamation and environmental disposal.

IT will continue to evaluate the market for the most cost efficient solution that will meet university requirements.

4.0 Related Policies

Electronic Data Disposal and Reuse Standards

Electronic Data Disposal and Reuse Policy

Electronic Data Disposal and Reuse Standard

1.0 Standards

When an information system or electronic medium is no longer needed for University use or will be reused for a different purpose, its previous data must be completely removed with erase tool(s) that meet industry standards for data destruction.

Disposal of all University electronic media and information systems must be tracked and logged. At a minimum, such tracking and logging must provide the following information:

- Date and time of disposal
- Who performed the disposal
- Brief description of media or information systems that was disposed
- Reason for disposal

2.0 Responsible Department

Each department that maintains information systems and electronic media is responsible for complying with these standards.

3.0 Related Policies

Electronic Data Disposal and Reuse Policy

Electronic Data Disposal and Reuse Policy

1.0 Overview

Technology equipment often contains parts which cannot simply be thrown away. Proper disposal of equipment is both environmentally responsible and often required by law. In addition, hard drives, USB drives, CD-ROMs and other storage media contain various kinds of Manipal University data, some of which is considered sensitive. In order to protect our constituent's data, all storage mediums must be properly erased before being disposed of. However, simply deleting or even formatting data is not considered sufficient. When deleting files or formatting a device, data is marked for deletion, but is still accessible until being overwritten by a new file. Therefore, special tools must be used to securely erase data prior to equipment disposal.

2.0 Objective:

This policy has been developed to define the requirements for proper disposal of technology equipment at Manipal University.

- To prevent disclosure of confidential information as a result of disposal or reuse of computer hardware and electronic media.
- To prevent illegal distribution of licensed software as a result of disposal or reuse of computer hardware and electronic media.

3.0 Scope/Applicability

Each institution/ department that owned or maintained technology equipment/ information systems and electronic media is responsible for complying with this policy.

4.0 Policy Authority/ Enforcement

The University's Internal Auditing department will periodically assess departmental compliance.

5.0 Policy

All IT assets and electronic media must be disposed off properly when no longer needed or before reuse. Disposal must meet the University EMS policy.

1. When technology assets have reached the end of their useful life they should be sent to the institutional Condemnation Board for proper disposal with proper justification.
2. Information Technology will securely erase all storage mediums in accordance with current industry best practices.
3. Equipment which is working, but reached the end of its useful life, will be made available as per University Policy.
4. Finance and Information Systems Dept will determine an appropriate cost for each item.
5. Prior to leaving Manipal University premises, all equipment must be removed from the Information Systems Dept's inventory system.

ANNEXURE 4.5

INTERNET ACCESS POLICY – DUBAI CAMPUS**1. Purpose**

The purpose of this policy is to ensure proper use of Manipal University - Dubai Campus internet facility and to make employees aware of what Manipal University, deems as acceptable and unacceptable use of its network for internet access.

2. Scope

This policy applies to all employees, having access to the internet from Manipal Dubai., network. Employees are accountable for all the activities they perform over the internet using Manipal Dubai., network or any of its IT assets, including, Blackberry devices & Official Mail Ids.

3. Policy

- 3.1 Manipal Dubai believes in providing open, unlimited and a uniform internet access for all its employees irrespective of their grades, roles and responsibilities. The internet access policy will be reviewed and amended time-to-time and such amendments will be published accordingly.
- 3.2 Although the internet facility provided by Manipal Dubai, is for business use, the organisation allows reasonable use of its internet facility for personal use, as long as it adhere to the guidelines outlined in this policy.
- 3.3 Accessing illegal sites as per the law of the land, such as, but not limited to, sites that promote pornography, violence, hatred, criminal activities, is strictly prohibited.
- 3.4 Playing online games, gambling and merchandising for personal gains on the internet using Manipal Dubai network is strictly prohibited.
- 3.5 Employees should exercise extreme caution while uploading files/data onto the internet using Manipal Dubai., network. Employees should not upload business related data, such as, but not limited to, Intellectual property of Manipal Dubai., course contents, business contacts, business agreements/contracts, or any other data that has a direct impact on the business of Manipal Dubai., without a proper and a prior written approval from the respective Department Head and Director of the University.
- 3.6 Employees should exercise due diligence while downloading files/data from the internet using Manipal Dubai., network. Employees should not download freeware/utilities/software from the internet. Any software/utility requirements have to be forwarded to the IT Department for procurement / installation as per the “Software Distribution Policy”.
- 3.7 Employees should be aware that downloading unlicensed software/utility may result in licensing/legal implications to Manipal Dubai. Hence should restrain from doing so.
- 3.8 Downloading freeware, games, movies, music etc, may lead to infiltration of viruses, spyware or malicious code into Manipal Dubai., network, which may result in leakage of confidential information or may result in overall break down of the network and/or the system. Hence should restrain from doing so.

- 3.9 Though Manipal Dubai has instituted automated system to track, block and monitor activities being performed on the internet, it is the sole responsibility of employees to exercise good conduct while accessing the internet facility.
- 3.10 With the automated system to block unlawful sites is in place, there may be circumstances wherein a genuine business site might have been blocked by the system. During such cases, employee can write an email to IT helpdesk at itservices@manipaldubai.com requesting to unblock the site, by clearly specifying the URL of the site. IT Department may release the said URL, once it is convinced that the said URL is not a security threat to the organisation.

4. **Enforcement:**

- 4.1 Manipal Dubai., may audit, monitor and access data uploaded or downloaded from the internet or stored on its computers to ensure that these systems are not abused or misused, and to ensure compliance to the Internet Access Policy.
- 4.2 Auditing and monitoring of internet access will be conducted by authorized personnel at any time, with or without notice to affected users. Information obtained during auditing and monitoring of Manipal Dubai internet facility / IT assets may be disclosed to external or internally constituted legal/disciplinary/law enforcement authorities without any prior notice or consent from affected users.
- 4.3 All users will be held personally responsible for their use of the Manipal Dubai internet facility during both business and non-business hours. Abuse or misuse of these systems will result in disciplinary action up to and including termination of services.

ANNEXURE 5.1

STUDENT HAND BOOK**Part - A****1.0 Introduction to Manipal University****1.1 University profile**

Welcome to Manipal University

Inspired learning since 1953

Manipal is a place born out of one man's dream – DrTMA Pai. It's a testimony to the fact that no matter how big a dream is, it can always turn into reality. The once barren hillock is now India's largest education township with more than 21 institutions of learning.

Manipal University was founded on one principle: one unshakeable belief – that it must make available the best of education to its students. Last six decades, have seen institutes at Manipal taking meticulous, small steps to build reservoirs of intellectual wealth and academic excellence. In the process, Manipal University has created some of the country's best institutes across diverse streams like medicine, dentistry, engineering, pharmacy, hotel management and communication, and is also home to the country's unique jewellery management and design institute. Each institution at Manipal University is geared to meet the same demanding standards to create great professionals and citizens by inspiring them in many ways. Refer **MU at a Glance** to know more facts and figures about Manipal University

1.2 About our Founder

Tonse Madhav Ananth Pai (April 30, 1898 – May 29, 1979), a doctor, an educationist, a banker and philanthropist, most well-known for building the university town of Manipal, Karnataka, India.

He was first to start private, self-financing medical college offering MBBS in India. Dr Pai established the Kasturba Medical College, Manipal in 1953, at Mangalore in 1955 and Manipal Institute of Technology at Manipal in 1957, which were followed by a string of other education institutions including, Manipal College of Dental Sciences and Manipal College of Pharmaceutical Sciences. He, along with his brother Upendra Pai, also established Syndicate Bank originally in Udupi, Karnataka, which has its headquarters now in Manipal and Bangalore. He was responsible for its popular Pigmy Deposit Scheme.

TMA Pai was conferred the 'Padma Shri' by the Government of India in 1965. He was awarded the degree of D.Litt. by the Karnataka University in 1973 and the Andhra University in 1975.

The Government of India brought out a stamp commemorating Dr Pai on October 9, 1999. Dr Pai has also been recognized by Ripley's Believe It or Not as the person who has established the most number of educational institutions in his lifetime.

1.3 Vision, Mission and Values

Vision

Global leadership in human development, excellence in education and healthcare

Mission

Be the most preferred choice of students, faculty members and industry. Be in the top 10 in every discipline of education, health sciences, engineering and management.

Values

- Integrity
- Transparency
- Quality
- Team Work
- Execution with passion
- Humane touch

1.4 University Logo



(Prajnyanam Brahma), the MAHE motto means “AWARENESS IS REALITY”; this implies awakening of the Supreme Intelligence which is the purpose of education so that one can lead a life of joy, peace and harmony.

Inspired by the heritage of Manipal, the logo finds a simple Indian expression. Three columns symbolizing the strong foundation rest below a dynamic circle. Together, it could be an ancient Indian architectural structure that has stood the test of time or even a tribute to the human form. For some, it may simply be the ‘M’ form (for Manipal). It is easily recognizable and even easier to reproduce.

The type was chosen carefully to lend an international character while retaining Indian roots in the combination of the logo and logo type. A smart slate grey has been combined with an Indian copper that is rich, yet earthy to bring out the unique character of Manipal.

The objective: Make Manipal as timeless as Dr TMA Pai’s vision and life itself.

1.5 Organization Structure

1.5.1 Leadership

Chancellor



Dr Ramdas M Pai

Pro-Chancellor



Dr H S Ballal

Vice Chancellor



Dr K Ramnarayan

ProVice Chancellor



Dr H Vinod Bhat

Pro Vice Chancellor



**Prof Datuk Dr Abdul
Razzak Mohd Said**

Pro Vice Chancellor



Dr V Surendra Shetty

Registrar



Dr G K Prabhu

Registrar-Evaluation



Dr P L N Rao

1.5.2 Administration

Department	Function/s	Office Location	Contact Person Details
Admissions National/International	This office handles all National and International Admission Formalities.Helps newly admitted foreign students to register with Foreigners Registration Office(FRO)	manipal.edu building, first floor	Dr Narayana Sabhahit. Director, Admissions Tel: +919243777700 E-mail: admissions@manipal.edu Ms Diana Britto Deputy Director – International Admissions Tel: + 91-820- 2571000 Email: diana.britto@manipal.edu foradmission@manipal.edu
Student Finance	<ul style="list-style-type: none"> Collection and accounting student fee receipts and matters pertaining thereto of all the constituent institutions of Manipal University. Collection and accounting of Hostel Fee/Deposit/Mess/Utility charges from students staying in MU Hostels, Manipal.Preparation of mess/Utility charges bill.Processing of students hostel refunds and other payments. Collection and accounting of Medicare premium and issue of Medicare cards to Employees, Employees dependent parents, students and other groups. Accounting of Manipal Health card fee and expenses. 	manipal.edu building, first floor	MsPoornima Kini Finance Executive Tel No:+91-820-2922767 E-mail: poornima.kini@manipal.edu
Deputy Registrar	Role and responsibility	manipal.edu	Dr Shyamala Hande

Academics	<ul style="list-style-type: none"> Organizing Board of Studies meetings PhD registration PhD Guide Registration Migration and No-Objection Certificates 	u, Third floor	Deputy Registrar –Academics (Health Science): Tel No: 91-820-2922017 E: shyamala.hande@manipal.edu Dr Chandrashekara S Adiga Deputy Registrar -Academics (Technical) Tel No :+91-820-2922606 El: dreg.mahe@manipal.edu
Cultural Coordination Committee (CCC)	This committee is the main link between the college and University in the field of cultural activities. The main responsibility of this committee is to ensure smooth conduct of UTSAV – Manipal University Inter College cultural festival, selecting Manipal University team to participate in Inter University Cultural festivals and organizing various cultural programmes on the campus.	manipal.edu, third floor	Dr Murlidhar V Pai Chairman,CCC Tel No: +91-820-2922379 E-mail: mvpai@manipal.edu
IT Administrator	Responsible for IT administration across all constituent institutions and departments.	ISD, Innovation Centre, ground floor, MIT Manipal.	Mr Sathish Kamath M. Network Administrator Tel: +91-820-2925021,22 E-mail: sathish.kamath@manipal.edu
Chief Security Officer	<ul style="list-style-type: none"> Takes care of all aspects of security in both the campuses Controls and coordinates the activity and deployment of the outsourced security services. Controls the access control, CCTV system installed in the entire campus. 	manipal.edu, first floor	Col P K Shetty Chief Security Officer Tel No: +91-820-2922848 E-mail: cso.mu@manipal.edu

1.5.2.1 Campus patrol

- a. MU Security actively monitors access to all buildings 24 hours.
- b. Hostel and Main Institution buildings have security guards present at the entrance during closed hours, in addition to hostel caretaker and housekeeping staff belonging to Manipal Servicecorp Facility Management (MSFM) in all Hostels.
- c. Access to keys of the external doors of buildings is limited to authorized staff members, such as Housekeeping staff (MSFM) and Security Supervisors.
- d. Manipal Security maintains records of all keys issued to employees. Departing employees are required to surrender keys, along with other MU property at the end of working hours daily.
- e. Locks and keypad codes are changed periodically, or as needed.
- f. Motion detectors and alarms cover numerous areas after working hours.
- g. A security vehicle, WHITE in color with 'EAGLE' written on it periodically and randomly patrols the MU campus at all hours.
- h. Electronic surveillance equipment allows Security Officers to monitor specific areas of the campus.
- i. MU faculty members and staff are issued Photo ID and Banking Combo Cards issued through the State Bank of India.
- j. MU students are also issued similar photo ID and Banking Combo Cards on admission.
- k. Everyone is required to produce his/her ID on entering an MU building or on demand at any time; access to facilities/offices is programmed depending on the requirement of each cardholder.
- l. Combo ID cards limited access is automatically surrendered when employment or study at MU ends and only banking facilities are retained if desired.
- m. MU employee parking lot is available to faculty members and staff only. A guard posted at its entrance verifies the identity of vehicles or pedestrians who enter the lot. The parking lot is locked at 11 pm daily and opened at 6 am.

- n. Students are encouraged to have their valuable property, such as instruments, engraved with personal information; to keep lists of their personal property in a safe place; and to purchase personal property insurance for their valuable possessions on their own or through their parents' coverage.
- o. Numerous officers have electronic keypads requiring individual user codes; electronic and biometric to enter, in addition to double-bolt locks.

1.6 Campuses

Manipal University campuses are as follows:

- (a) Main campus – Manipal
- (b) Off-campuses – Mangalore and Bangalore
- (c) Off-shore campuses – Melaka and Dubai

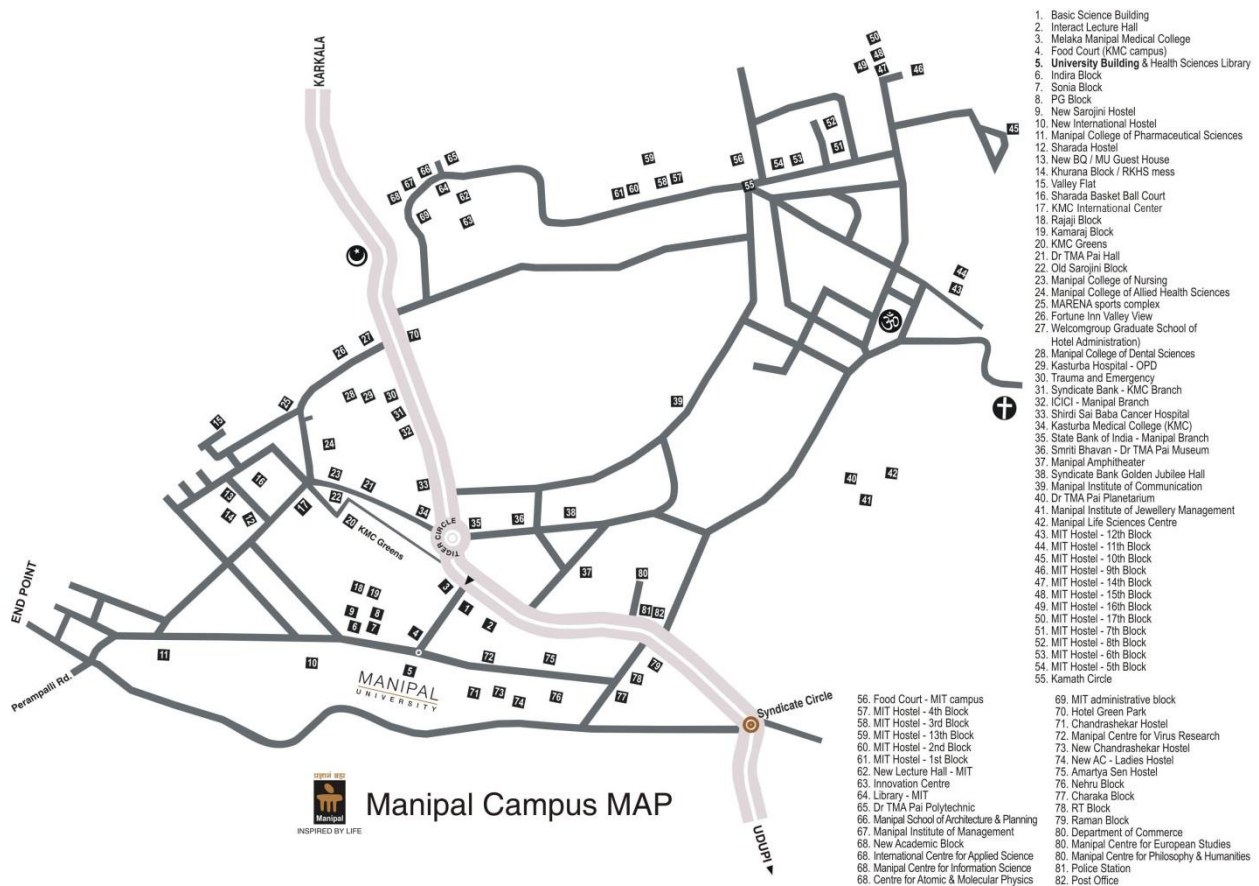
Manipal Group institutions are located on scenic campuses, which provide high quality lifestyle and ideal environment for study. All campuses have excellent infrastructure for academic activities, sports and other extracurricular activities.

LIST OF CONSTITUENT UNITS

Name of Institution	Year of Establishment	Name of Institution	Year of Establishment
1. Kasturba Medical College, Manipal	1953	15. School of Nursing, Bangalore	2007
2. Kasturba Medical College, Mangalore	1955	16. School of Regenerative Medicine, Bangalore	2007
3. Manipal Institute of Technology, Manipal	1957	17. Faculty of Architecture (FOA)	2010
4. Manipal College of Pharmaceutical Sciences, Manipal	1963	18. Melaka Manipal Medical College, Manipal	1995
5. Manipal College of Dental Sciences, Manipal	1965	19. Department of Statistics	2006
6. Welcomgroup Graduate School of Hotel Administration, Manipal	1986	20. Department of Commerce	2007
7. Manipal College of Dental Sciences, Mangalore	1987	21. Department of Geopolitics and International Relations	2008

8. Manipal College of Nursing, Manipal	1990	22. Dept of Atomic and Molecular Physics	2008
9. School of Communication, Manipal	1997	23. Department of Public Health	2009
10. School of Information Science, Manipal	1998	24. Department of European Studies	2009
11. School of Allied Health Sciences, Manipal	1999	25. Dept. of Philosophy and Humanities	2009
12. School of Management, Manipal	1999	26. Department of Allied Hospitality Studies	2011
13. School of Life Science, Manipal	2006	27. Department of Library and Information Science	2011
14. School of Nursing, Mangalore	2007	28. Department of Culinary Arts	2012

1.6.1 Campus Map



1.7 Green Manipal

Manipal is proud of its 'No Smoking Campus'. Rain water harvesting, conservation and recycling of water, state-of-the-art waste disposal systems, energy saving devices and use of solar energy wherever possible are a few innovative methods which have made the atmosphere in Manipal very eco-friendly.

Manipal University has been certified as an ISO 14001:2004 organization, which is a series of voluntary standards on Environmental Management Systems (EMS) developed and maintained by ISO. The ISO 14000 family addresses "Environmental Management". This means what the organization does to minimize harmful effects on the environment caused by its activities and continually improve its environmental performance. At Manipal, "Sustainable Development" is not a mere slogan but has become a way of life.

2.0 Student Affairs

The Student Affairs department's activities cover wide areas such as guidance, wellness, health and counseling. It is constantly evolving ways to support and foster students' interest in the University.

2.1 Structure and Location of the Department

Director, Student Affairs: Dr Indira Bairy, Professor of Microbiology

Tel No: +91-820 - 2922035/2922601

The office is located on the first floor of manipal.edu building, Manipal University. Dr Indira Bairy is available in the office on all working days (except Sundays and Holidays) between 14:30– 16:30.

Deputy Director, Student Affairs - Health Sciences: Dr Shyamala G, Associate. Professor, OBG

Tel No: +91-820 – 2922035

Deputy Director, Student Affairs - Technical: Dr Geetha M, Professor, Computer Science Department, MIT - Tel No: +91-820 – 2922035/2924029

Deputy Director, Student Affairs (Mangalore Campus) Dr B Unnikrishnan, Professor and Head, Community Medicine Department - Tel No: +91-824 2422271 Extn - 5559, 5560

2.2 Student Counselling Centre

‘Student Counselling’ facility is provided in our Centre. Students are required to take prior appointment.

The Centre provides total privacy to students who need guidance and counselling. All matters discussed are kept strictly confidential.

Areas of Concern

- Academics
- Examination anxiety
- Feeling of loneliness / depression
- Interpersonal relations
- Feeling of physical and mental stress
- Family issues
- Career planning
- Addictions (substance abuse)
- Adjustment to the new environment

2.3 Message to students and parents

Message to Students

- 1 To become a good professional, the student should be very clear in his/her ambition and set appropriate goals for themselves.
- 2 The priorities for the day should be clear in the mind.
- 3 Proper time management is very essential (with proper time management a student can easily have three hours of relaxation per day and read for five hours per day).
- 4 Mind and body should be kept active. Priorities and ambition may be forgotten if relaxation (though important) is overdone.
- 5 Attendance and internal assessment are two valuable tools to monitor the academic progress of a student. To avoid anxiety and tension before exam one should maintain a good record of attendance and internal assessment. Though 100 per cent attendance is essential, 25 per cent is permitted to cover ill health and family commitments.
- 6 It is advisable that students stay only in the hostels. When in hostels, they are expected to abide by the hostel rules and regulations. It is mandatory to keep the warden informed in case if the student is visiting a friend or relative and is going to be away

from the hostel for more than a day. Students should not keep costly and valuable items in the room.

- 7 The behaviour of the student in and around the campus should befit the noble profession they have opted for. Lab coats (apron) should be worn only inside the campus.
- 8 Talented students in the field of sports and cultural activities should identify themselves with sports and cultural committee of the college. Good hobbies should not be forgotten.
- 9 Students should make an effort to learn the local language, as they have to deal with patients.
- 10 During clinical postings, students should behave appropriately when dealing with patients.
- 11 Students are expected to observe the dress code of the University.
- 12 Indiscipline will be dealt with as per rules and the nature of punishment can vary from suspension to dismissal from the institute.
- 13 In case of ill health, students should attend the Manipal University Student Health Clinic at Kasturba Hospital, Manipal. While undergoing elective surgical procedures, students should keep the parents informed and it is always better that one of the parent is present during the procedure.
- 14 In case of stressful situations students can contact the office of Student Affairs or Psychology/Psychiatry Department to cope with the stress.
- 15 Manipal University has been declared as “NO SMOKING ZONE”. Students found indulging in smoking may be removed from the hostel and no refund of rent will be given.
- 16 Any student involved in criminal offences on the campus and any indiscipline outside the campus will be handled by the concerned authorities as per the law of the land.
- 17 The students are discouraged from indulging in undue risky behaviour. Swimming in the rough Arabian Sea has cost the lives of few students in the past. There is also no need to possess a two or four wheeler.
- 18 The following are banned and severely dealt with:
 - Drugs, drinking (liquor) and smoking
 - Ragging and eve teasing

- cheating, stealing, provocation, coercion, threats, pressure tactics and fights.
- 19 Appropriate stringent action has been taken to prevent ragging. Anti-ragging Committee,
- Anti-ragging Squad, Mentoring Cell, Surprise Check Squad are the committees which will oversee and take appropriate steps to prevent ragging.

Message to Parents

At Manipal University, our aim is to produce good professionals and we seek the cooperation of parents in achieving this goal. The infrastructure, amenities are of highest standards and the atmosphere is congenial for learning.

Following points need to be understood by every parent:

- 1 Do keep in regular touch with the teacher guardian of your son/daughter.
- 2 Be aware of your son/daughter's academic progress especially attendance, internal assessment and marks in the University examinations.
- 3 Remit all the payments like tuition fees, hostel facility fee directly to Manipal University in time.
- 4 Be aware of your son/daughter's monthly expenditure and mode of expenditure.
- 5 We may need to contact you sometimes urgently especially in case of accidents and emergency. Hence it is essential that any change in address, phone numbers and e-mail be informed promptly to the college.
- 6 Do not encourage your son/daughter to extend their holiday and stay at home when he/she visits the family during vacation. He/she may end up with attendance shortage.
- 7 It is wiser that you visit your son/daughter once in a while instead of the student visiting the family frequently so that his/her studies go uninterrupted.
- 8 Do not provide the student with a two wheeler or a four wheeler especially in the formative years.
- 9 Please keep us informed, if the student has a history of illness (physical or mental). Students are covered under Medicare and are entitled for treatment in our own hospital, which is well equipped and is a tertiary referral hospital.
- 10 In case of health problems for minor illness, the students can attend outpatient health clinic, Kasturba Hospital and get treated. If the ill-health warrants inpatient care, the student will be admitted. For minor ailments with short stay, the parents may not be

informed, but in case of emergencies, they will be informed as early as possible. Students are covered under Medicare and these rules are made clear at the time of admission. Medicare renewal needs to be done promptly.

- 11 Students should stay in the hostels provided in the campus. Staying outside the campus independently has its own demerits and parent should discuss the matter with the teacher guardian before consenting.
- 12 It is imperative that parents keep in regular touch with the institution officials especially in the case of poor academic performers.
- 13 Students are not permitted to use mobile handsets with camera during working hours. The equipment shall be confiscated if student is found to possess it.

2.4 Health and Safety Instructions

Safety

- Students are prohibited from swimming in the Arabian Sea .
- Speed is the cause for majority of accidents. Students are recommended to follow traffic rules and drive cautiously.
- Students are expected to possess the identity card issued by the University at all time and are required to produce the same when asked for by the institutional and University authorities/District Police authorities.

Health

Students are recommended to eat, dine/party in restaurants of good reputation with good hygienic standards. (Note: Enteric fever is a water-borne disease. It is recommended that students drink safe water and avoid eating at unhygienic restaurants).

Following vaccinations are to be taken:

M

andatory Vaccination

- Hepatitis 'B' Vaccine: 3 doses - 0, 1, 6 months (Intra muscular)
Cost – Rs80 per dose (approx)

Optional Vaccination

- Chickenpox Vaccine: 2 doses - 0, 6 Weeks (Subcutaneous)
Cost - Rs1,690 per dose (approx)

- Typhoid Vaccine: Single dose (Intramuscular),
 3 years immunity following vaccination
 Cost - Rs 290 (approx)
- Hepatitis A Vaccine: 2 doses - 0, 6 months
 Cost Rs.1, 650 per dose (approx)

2.5 Code of Conduct for Students

2.5.1 Introduction and Purpose

Introduction and purpose

The Code of Student Conduct is established to foster and protect the core missions of the University, to foster the scholarly and civic development of the University's student community in a safe and secure learning environment, and to protect the people, properties and processes that support the University and its mission. The core missions of the University are teaching, learning, service and research.

The Code governs all the campuses of the University.

Definitions

"University premises" means all lands, buildings, and facilities owned, leased, or operated by the University. The term "student" means an individual who has paid an acceptance fee, registered for classes, or otherwise entered into any other contractual relationship with the University to take instruction.

A safe and secure environment allows for a positive learning environment. In turn, a positive learning environment promotes student learning.

To successfully achieve these outcomes, it is necessary to develop a clear set of student expectations.

2.5.2 Expectations from students

- Attend all classes on time.
- Be prepared for class with the appropriate materials and homework completed. Students will not participate in cheating or plagiarism.
- Be honest with all staff and students.
- Express themselves without the use of profane language or offensive gestures.

- Participate in positive group activities and will not be involved in any swarming, bullying, intimidating or harassing of staff or students.
- Show respect for others by not participating in teasing and ridiculing.
- Show respect for others by not wearing clothing with inappropriate messages (i.e., profane language, racial or sexual references, references to alcohol/illegal drugs or gang related).
- Respect the personal property of others.
- Respect and follow direction from all staff of the institution/University.
- Respect the safety of others by not bringing real or imitation weapons to institution/University or in the hostel/campus.

2.5.3 Attendance and Preparation for class

It is understood that student achievement is a direct result of attending and participating in classroom instruction and classroom activities. It is, therefore, a requirement for students to attend all classes on time and with the appropriate materials. Students who come late will not be awarded attendance and may be denied entry to the class.

Students are expected to have the necessary percentage of attendance as per the governing council of the institution in order to appear for the University examination.

2.5.4 Classroom behavior

Every student has the right to an uninterrupted and safe instructional environment. Behaviours which interfere with student learning will not be tolerated.

Mobile phones: Use of mobile phone in the class, laboratory, library and in the hospital wards during working hours is not allowed. Mobile phones with camera are banned.

- Wearing caps and shorts, eating, chewing and drinking during the class is strictly forbidden.
- All students must be in possession of their identity cards. Any loss should be promptly reported to the HoI. The cards must not be mutilated, defaced or rendered ineffective for identification. The card must be returned at the termination of programme/withdrawal from the institute.

2.5.5 Conduct during examination

Students are expected to strictly abide by the rules and regulations as specified in the hall ticket issued by the University and the candidate found guilty shall not be permitted to take practical and viva examination till appropriate authority clears.

2.5.6 Graffiti/Vandalism(property and/or equipment)

Students are responsible for any textbooks, library books, classroom assets or any equipment loaned to or used by them. If misused or damaged, students will be responsible for charges to repair or replace. If repayment is not received, students will have in-school privileges removed or suspended.

Interfering or tampering any of the office records of college/University is a serious offence and will result in suspension/rustication.

2.5.7 Dress Code

Students will wear clean, neat and presentable clothing. Following is the dress code of the University. Visiting students are also expected to observe the dress code.

Students are advised to follow the following dress code while attending the colleges for lectures/practicals/dissections /library /labs and formal function of the institution.

The dress should be neat, clean and pressed.

Men	Women
√ Trousers and collared shirt	√ Formal wear dress like Salwar Kameez Chudidar, Sari
√ Shoes and Socks	√ Formal foot wear
√ Clean white apron with name-tag	√ Hair (beyond shoulder length) to be tied up
	√ Clean white apron with name-tag

Prohibited for Men

X T. Shirts

X Tight fitting dirty jeans

X Caps

X Chappals/Sports shoes

X Shorts

X Ear rings

X Torn trousers touching the floor

X Trousers with six or more pockets

X Clothing depicting illegal drugs, alcohol, profane language, racial, sexual and vulgar suggestions (applicable for boys and girls).

Prohibited for Women

X Tight fitting dirty jeans

X Torn trousers touching the floor

X Short skirts, Shorts

X Revealing deep tops/Spaghetti top/

Sleeveless tops/Shirts/T-shirts

X Pony tails

In case of violation of the dress code, the student concerned will be asked to leave the academic session.

For Health Sciences: Aprons (extending to mid-thigh or below) and name tags are compulsory for men and women especially during dissection/practicals/demonstration. Wearing the apron outside the campus is discouraged.

2.5.8 Weapons or Replicas of Weapons

Weapons or replicas of weapons are not permitted on University campus at any time. Criminal charges will be filed in every instance, as well as suspension or expulsion. Involvement in any criminal offence under Indian Legal System will result in suspension or expulsion from the college. Engaging in trade/trade activities within the premises/campus is prohibited.

2.5.9 Illegal Drugs and Alcohol (possession\personal use\providing for others)

Illegal drugs and/or alcohol are not permitted on the University property or on any college excursion. If students are found to be experiencing difficulties with substance abuse, they will be referred for counselling, drug and alcohol rehabilitation programmes. Persistent disregard or denial of medical assistance could result in criminal charges and possible expulsion. All such cases will be handled as per the University Policy in this regard.

2.5.10 Smoking

Smoking is not permitted in any college/hostel/campus. Fine will be levied for each infraction.

2.5.11 Policy on Substance Abuse

Objective: To prevent substance abuse and to create a secure, conducive atmosphere for learning among the students in the campus

The University adheres to the following guidelines concerning the possession, use and/or distribution of substances of abuse: Cannabis, Heroin, Benzodiazepines, barbiturates, Flunitrazepam, Cocaine, Ketamine, Psilocybin, Lysergic acid diethylamide, Amphetamine, Methamphetamines, MDMA, Phencyclidine, GHB, Methaqualone, Inhalants and any other drugs and substances mentioned in The Narcotic Drugs and Psychotropic Act 1985.

- i) The possession, use and/or distribution of substances of abuse are prohibited on premises owned or controlled by the University.
- ii) University squads will carry out random checks on students/residential premises for substance of abuse.
- iii) Possession, use and/or distribution of substances of abuse will attract appropriate disciplinary action which may include expulsion.

Offenders will also come under the purview of Narcotic Drugs and Psychotropic Substances Act 1985 (NDPS Act) and will be liable for penal action.

Disciplinary procedures

A student violating the MU Policy on substance abuse will face:

- a) Immediate suspension from the college, pending enquiry.
- b) Parent/legal guardian will be informed immediately and will be expected to meet the Head of Institution at the earliest.
- c) The Institutional disciplinary committee will conduct an enquiry and submit the report to HoI who will initiate further action in consultation with the Director Student Affairs, Manipal University.

Policy Matters on Alcohol and Tobacco:

- University campus is declared as “Alcohol /Tobacco freecampus”
- If a student is found possessing/consuming tobacco/alcohol in the premises owned or controlled by the University, the Disciplinary Committee (DC) will take appropriate action.

2.5.12 Risky Behavior

Students are strongly discouraged from owning and riding motor cycles

- Students riding noisy two wheelers are warned that their vehicles will be locked/seized by the security/police.
- As the Arabian Sea is rough throughout the year, it is dangerous to venture into these waters. Hence students are strongly advised not to venture swimming in the sea.

2.5.13 Fighting/Criminal assault

Any student involved in or encouraging the involvement of another student in fighting will be suspended. Persistent involvement will result in expulsion from the college.

2.5.14 Respect for authority

Students will demonstrate respect for all staff and fellow students. Students are expected to recognize and comply with the authority held by the institution/University and its staff. Requests made to them by staff are expected to be followed and adhered to. Failure to follow such requests could lead to intimation to parents, loss of privileges, suspension or expulsion.

2.5.15 Harassment /Threatening

Harassment will not be tolerated. Harassment, whether written, verbal, sexual (including homosexuality and pornography), physical, emotional, or racial, is a serious offence and will be treated as such.

2.5.16 Bullying/Intimidation/Swarming

No student will participate in or initiate any form of bullying, intimidation or swarming. Persistent disregard would result in suspensions, expulsions, and/or criminal charges.

2.5.17 Ragging

Refer 6.0

2.5.18 Cyber Crime

Any form of Cyber crime (Illegal activity committed on the internet) by the student is strictly prohibited and will be dealt with suspension/loss of privileges and as per the law of the land.

2.5.19 Identity Card

Students are expected to possess the identity card issued by the University at all times and are required to produce the same when asked for by the institutional and University authorities/District Police authority.

2.5.20 Public Demonstration of Affection

Public demonstration of affection is not permitted on the campus. The Security personnel on duty are authorized to check the identity card of students who are involved in public demonstration of affection. Parents of the involved students will be informed and appropriate disciplinary action will be initiated leading to suspension/loss of privileges.

2.5.21 Dismissal /denial of award of the degree

The University reserves its right to dismissal/denial of the award of the degree to the student under following circumstances:

- i) Involvement in criminal case which brings disgrace to the image of the University.
- ii) Involvement in case of Ragging.
- iii) Repeatedly violating the Code of Conduct and showing no improvement after warnings.
- iv) Violating the ethics of the profession.
- v) Involvement in anti-national/anti-social activities.
- vi) Certified by qualified professional and approved by the University that the student is mentally ill and is unfit to pursue the profession.

vii) Students who do not show any improvement in academic progress despite all the support, found to be involved in substance abuse and refuse rehabilitation.

viii) Involvement in Sexual Harassment.

2.6 Teacher-Guardian Programme

2.6.1 Objective

The teacher acts as a local guardian for the newly joined student and enables him/her to get adjusted to the campus and the programme.

2.6.2 Guidelines for Mentees

All newly joined undergraduate students till they finish their first University exam.

- Students who fare poorly in academic or for any other valid reason may avail the facility in the later phase of their training upon the request of parents.
- All first year students compulsorily have to join the scheme.
- In the first six months of the programme, student has to contact the respective teacher guardian at least once or twice in a month, or more often when the situation demands.
- The student has to inform the respective teacher guardian if he/she is going to be out of station, or is changing the place of residence.

3.0 Identity(ID) Card

3.1 Issue of ID Card

Each student is issued an ID card (Combo card). The ID card is valid for the regular duration of the programme. ID card is also valid for Medicare facilities for the regular duration of the programme. This card will also function as:

- Photo ID card
- Access Control card
- ATM and Debit card

Among the other things, the card will also facilitate the following:

- Fee, Library and Cafeteria payments
- Convenience of anywhere and anytime banking

If a student fails in the final examination and continue his/her studies beyond the period specified for the programme, the student must renew the ID card by paying the required ID/Medicare fee.

3.2 Loss of Id Card

If a student for any reason loses the ID card, the loss of ID card must be brought to the notice of the Admissions Office in writing along with the copy of police complaint. The duplicate/replacement ID card will be issued on payment of Rs 500.

4.0 Examinations

4.1 Scheme and Regulations

Regulations of programmes offered is prepared in accordance with the guidelines of Regulatory Bodies like MCI,DCI,INC,AICTE etc.,and submitted to the Board of Studies. Board of Studies prepares the final draft of the Regulation and submits to the University for the approval of Academic Senate. The approved Regulation is circulated to the Institution and the University officials.

Wherever there is no independent Regulatory Body for a particular programme, the Board of Studies prepares the Regulation governing the programme as per UGC guidelines and the same is circulated after approval by the Academic Senate. (www.ugc.ac.in).

4.2 Examination Schedule

Dates of examinations are fixed as per the Academic Calendar. Examination calendar of all the institutions for the whole year is approved by the Examination Committee. Detailed timetable of an examination is notified by the University and sent to the respective institutions.

The theory examination notification is sent to the colleges 10 weeks prior to the commencement of examination. The practical examination timetable is given 02 weeks prior to the commencement of practical examinations.

4.3 Admission for Examination

Admission for Examination is done at the respective institution. List of eligible students (who satisfy attendance and other academic requirements as prescribed) appearing for the examination is sent by the Institution to the office of Registrar Evaluation.

4.3.1 Issue of Admission Tickets to the eligible candidates:

Admission Tickets are electronically generated by the colleges after approval by the Registrar Evaluation. Following instructions are given to the students in the Admission ticket:

- *Candidates should carefully note the date, time and title of the paper to be held on each day. They shall take their places in the examination hall at least ten minutes before the time fixed for the commencement of the examination.*
- *Candidates are not permitted to bring mobile phones, electronic watches with memory, laptop computers, personal stereo systems, walkie-talkie sets, paging*

devices, cameras, recording systems or any other gadget/device/object that would in the opinion of the invigilator be of unfair assistance to him/her.

- *Candidates should search their pockets, desks and benches and hand over to the Room Superintendent/invigilator any paper, book, note, mobile phone etc. which they may find therein before starting to answer the paper.*
- *Candidates who are suffering from serious infectious diseases will not be admitted to the examination hall but may be allowed to write the examination in a separate place.*
- *Candidates shall affix their signature in token of their receiving an answer book in the Superintendent's diary. They shall also affix their initials every time they receive an additional book.*
- *They should read the instructions given on the first page of the answer book before beginning to answer the paper.*
- *The candidate shall write his/her Registration number in the space provided in the question paper, immediately after the question paper is distributed to him/her.*
- *Candidates are forbidden to ask questions on the subject (of any kind) during the examination.*
- *Candidates will not be allowed to leave the examination room till the expiry of half an hour after the distribution of question papers. A candidate who leaves the room during the examination will not be allowed to return.*
- *Candidates are required to provide themselves with pens and mathematical instruments.*
- *They shall use only blue or black ink while answering the papers.*
- *Candidates who have completed answering the papers before the prescribed period of examination shall stand up in their places till the Room Superintendent/Invigilator collects the answer books from them. All candidates shall remain in their places when the prescribed period for the examination is over until the answer books are collected by the Room Superintendent/Invigilator.*
- *Any candidate found guilty of deliberate previous arrangement to cheat in the examination such as smuggling in another answer book, impersonation or some other misconduct of a serious nature may be debarred for up to three years.*

4.3.2 Offences considered as Malpractice

- *A candidate who commits any of the following offences during the examinations is said to have committed malpractice:*
 - a) *He/She has in his/her possession or has access to any papers, books or notes or chits with contents related to the subject of the examination.*
 - b) *He/she has in possession of any of the objects mentioned under Sl. # 2 in the Admission ticket.*
 - c) *He/She is found receiving assistance from/giving assistance to others.*
 - d) *He/She is found copying/tries to copy from any paper, book or notes or another candidate's answer book.*
 - e) *He/She allows any other candidate to copy from his/her answer book.*
 - f) *He/She is found having any written matter on the person (palm, hand, leg, clothes, etc.), scale, eraser etc.*
 - g) *He/She attempts to use any unfair means.*
 - h) *He/She discloses his/her identity by making peculiar marks in the answer book while answering.*
 - i) *He/She uses obscene or abusive language.*
 - j) *He/She writes any appeal in the answer book for more marks, etc.*
 - k) *He/She disturbs the fellow examinees.*
 - l) *He/She scribbles the points on the question paper.*
 - m) *He/She scribbles the points on the question paper and passes on the same to any other examinee.*
 - n) *He/She writes his/her name anywhere in the answer book.*
 - o) *He/She writes his/her Registration number anywhere in the answer book, other than the space allotted in the front cover page.*
 - p) *He/She takes away the used/unused answer book/MCQ question paper/additional sheets outside the examination hall.*
 - q) *He/She tears off or spoils the sheets in the answer book.*
 - r) *He/She destroys any evidence of malpractice.*

- s) *Any other act amounting to malpractice.*
- *A candidate found guilty of malpractice in the examination hall shall be sent out by the Chief Superintendent and such a candidate shall not be permitted to take the subsequent papers/practical and viva examination of that examination for which the candidate has registered, till the appropriate authority clears him/her.*
 - *As a Punishment for indulging in malpractice, the Malpractice Enquiry Committee can recommend to debar the student from appearing all examinations he/she has registered for that examination session. The Committee may also recommend to debar the student for subsequent examination, sessions depending upon the severity of the malpractice committed. The recommendation of the Committee is implemented after approval by the Vice Chancellor.*

4.4 Conduct

4.4.1 Conduct of Examination

The examinations are conducted at the respective institutions or at designated venues notified by the University. Generally, the Heads of Institutions are the Chief Superintendents of University examinations. The Chief Superintendent will conduct the examinations on behalf of the University as per the guidelines of Bye-Laws of Examinations.

4.4.2 Malpractice in the examination

Malpractice cases are reported to the Registrar Evaluation by the Chief Superintendents of the examinations in the prescribed form. Suitable enquiry committee is appointed and the report of the committee is implemented after approval by the Vice Chancellor.

4.4.3 Conduct of Valuation

Soon after the completion of the written examination, the sealed bundles of answer books are made to reach the office of the Registrar Evaluation without delay. The answer papers from different colleges (if there are more than one college having the same examination) are mixed and coding of these answer papers is done in one-work-session. (Coding means giving a “dummy” number to each answer paper in place of the registration number of a student so that the identity of the student is not disclosed while evaluating). The coded papers are bundled and kept ready for Central Valuation, which commences on the succeeding day of the theory examination.

Central Valuation is done by double valuation. All answer papers are evaluated by the internal examiner and external examiner separately. The marks are not awarded directly on the answer paper but on a separate evaluation sheet. This prevents the influence of one examiner on the other. For every theory paper, guidelines (scheme of valuation/“key”) are provided for

evaluation. Normally this is prepared by the paper setter himself. Both the internal examiners and external examiners are required to follow these guidelines. Once the internal examiners complete the valuation, the external examiners are invited to evaluate the same – again, in the central valuation hall of the office of the Registrar Evaluation.

The marks given by internal and external examiners are compared and if the difference is not more than 15 per cent the average of the two are awarded to the student as his/her theory mark. If there is a difference of more than 15 per cent (rarely) the paper is subjected to a third valuation by a subject expert. In such cases the average of the two marks, which are closest among the three evaluations, is awarded to the student.

As there are two complete and separate evaluations by internal and external examiners **there is no provision for revaluation**. Central valuation is carried out at the office of the Registrar Evaluation in a specially selected hall. Two separate halls are allotted for internal and external valuations.

4.5 Absence for Examination for Medical or Other reasons

If the candidate registers for the exams and due to unforeseen/unavoidable circumstances, is unable to attend the examinations, then there is a provision to withdraw from the examinations. He may take the examinations with subsequent batch and the subsequent exam which he appears will be considered as his first attempt. Withdrawal from the examination is permitted only on recommendation of Head of the Institution.

4.6 Results

Results are tabulated and published by the office of Registrar Evaluation as per the guidelines of the programme Regulation. Grace marks are awarded by the Registrar Evaluation as per the University Grace Marks Rule wherever applicable.

Systems of assessing the performance of the students

4.6.1 Marking Scheme

Example

A candidate passing the entire examination in the first attempt is placed in one of the following classes on the basis of the grand total percentage.

Marks	Class
50per cent or more but less than 65 per cent	Second Class
65per cent or more but less than 75 per cent	First Class
75per cent or higher	First class with distinction

Candidate who passes by repeating the course

Not less than 50 per cent	Pass Class
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4.7 Official grade:

After the announcement of result, grade reports are sent to the institution from the office of Registrar Evaluation.

4.7.1 Generating Marks Cards

The marks cards are printed immediately after the declaration of results in the department itself. Marks cards are once again compared, verified with the result sheets and scrutinized for correct entries.

4.7.2 Issue of marks cards to the colleges

Printed marks cards are sent to the respective institutions within 10 days of the publication of results.

4.7.3 Personal Paper Seeing

Students can apply for Personal Paper Seeing after depositing prescribed fee through the Head of the Institution. The students are allowed to go through their answer scripts within a specified period. During personal paper seeing session, the students are allowed to give their feedback about the evaluation of their answers in a prescribed format.

4.8 Supplementary examination

Supplementary examination is conducted either six weeks after the regular examination or in six months after the regular examination as per the Regulations applicable to a particular programme.

5.0 Health Insurance (Medicare Scheme)

Students are covered under Medicare and are entitled for treatment in our own hospital, which is well equipped and is a tertiary referral hospital. Medicare scheme applies to all bonafide students of the University for the entire duration of the programme. Student ID is valid for availing Medicare facilities in the associated hospitals of the University for the regular duration of the programme. Students will be covered under Medicare from the date of

commencement of the classes. If the student does not renew the ID card on expiry, the ID card cannot be used for Medicare facilities and renewal may be approved after collecting the renewal fee for the default period. But coverage for Medicare will begin only after one month from the date of payment of renewal fee. Interns have to renew their cards before joining for internship by paying prescribed Medicare fee.

6.0 Anti -Ragging Rules and Regulations

“Ragging” means causing, inducing, compelling or forcing a student, whether by way of practical joke or otherwise, to do any act which detracts from human dignity or violates his person or exposes him to ridicule or to forbear from doing any lawful act, by intimidating, wrongfully restraining, wrongfully confining or injuring him or by using criminal force to him or by holding out to him any threat of such intimidation, wrongful restraint, wrongful confinement, injury or the use of criminal force. Supreme Court of India has defined ragging as a criminal offence.

Penalty for Ragging

No person who is a student of an educational institution shall commit ragging. Supreme Court of India has ordered that “if any incident of ragging comes to the notice of the authority, the concerned student shall be given liberty to explain and if his/her explanation is not found satisfactory, the authority would expel him/her from the institution”

Punishment:

- Suspension/Rustication/Expulsion from the college
- Fine upto Rs 2.5 lakh

Compliance to Anti-ragging regulations of regulatory bodies

1. Manipal University complies with the regulations prescribed in the AICTE notification F.No.37-3/Legal/AICTE/2009 dated 01/07/2009 related to Prevention and prohibition of Ragging in technical Institutions, Universities including Deemed to be Universities imparting technical education.
2. Manipal University complies with the regulations prescribed in the MCI notification No. MCI-34(1)/2009-Med./25453 dated 03/08/2009
3. Manipal University complies with the regulations prescribed in the DCI notification No DE -167- 2008 dated 31/07/2009
4. Manipal University complies with the regulations prescribed in the PCI notification No.14-1/11-PCI-Pt-I dated May 2012

Warning

No leniency will be shown to the offenders involved in ragging. All students are requested to note and cooperate in keeping our University and its constituent colleges free from Ragging.

Anti-ragging Squad contact no: 9945670913

7.0 Student Grievance Handling Mechanism

7.1 Examination related grievances

7.1.1 Error in the question paper (spellings, omissions etc.)

If any student points out error in the question paper during the examination, the Chief Superintendent should contact Registrar-Evaluation (RoE) immediately. The RoE will verify with the question paper supplied and enquire the BoS Chairperson about the correctness of the grievance made by the students. If the error is genuine, RoE will instruct the Chief Superintendent to announce the correction in the question paper at the examination hall during the examination.

7.1.2 Out of syllabus questions in the question paper

If the students recognize out-of-syllabus questions, they can submit a representation in detail immediately after the examination through the Chief Superintendent regarding the matter. The RoE will refer the matter to the Chairperson, BoS. If the grievance is not genuine, no action will be taken. If the chairperson BoS admits the grievance is genuine, the marks of out-of-syllabus questions will be deducted from the total marks of the subject and the paper will be evaluated out of the reduced maximum marks. Then, the marks obtained will be proportionally converted to the maximum marks of the subject.

7.1.3 Queries about Result

The students who apply for Personal Paper Seeing can go through their answer paper and check whether all the questions are evaluated and whether there is any error in the totaling etc.

7.1.4 Malpractice committed by students

The Chief Superintendent should make the malpractice report in the format as prescribed in the MU Examination Bye Laws. The malpractice reported will be then referred to the Malpractice Enquire Committee and the Committee after conducting enquiry suggests the action to be taken. The Vice Chancellor will take the final decision regarding the recommendations of the Committee.

7.1.5 Correction of Name of the students

The University will take the names to be printed in the result sheets/marks card/certificates from the certificate/marks card of immediate preceding qualifying examination. For admission to the undergraduate programme, name as printed in the +2 certificate/mark cards will be taken. For the admission to the postgraduate programmes, name as printed in the degree certificate/mark cards will be taken. No change in the name will be entertained once a student receives degree certificate from the University and leaves the University.

7.1.6 Entrance Examinations

Grievances with respect to technical type are sorted out immediately at the Centre level. If not, the candidate will be given another chance to give examination in his convenient next batch available, in any of day, time and place.

Grievances with respect to questions are sorted out as per the University Examination procedure.

7.3 Gender (Female) related grievances

“Grievances Committee related to sexual harassment” is constituted to redress the grievances/complaints pertaining to sexual harassment from students of Manipal University. Students can submit their grievances/complaints to the Committee.

Committee consists of

- | | | |
|---|---|------------------|
| 1. Mrs Vasanthi R. Pai | - | Chairperson |
| 2. Dr Indira Bairy, Director, Student Affairs, MU | - | Vice Chairperson |
| 3. Dr G Pradeep Kumar, Associate Dean, KMC Manipal | - | Member Secretary |
| 4. Dr Lavanya Rai, Professor of OBG, KMC Manipal | - | Member |
| 5. Dr Vinod V Thomas, Director, MIT Manipal | - | Member |
| 6. Dr Unnikrishnan, Dy. Director, Student Affairs, M'lore campus- | - | Member |
| 7. Dr Shalini Shenoy M., Professor of Microbiology, KMC M'lore- | - | Member |
| 8. Ms Jabha M Gupta, Associate Professor, TAPMI Manipal | - | Member |

8 General Information

8.1 Marena and other sports facilities

The sports infrastructure at Manipal University is broadly categorized into three major facilities:

- Medical Campus Sports Facility, Manipal
- Medical Campus Sports Facility, Mangalore
- MIT Campus Sports Facility, Manipal

Any Manipal University student can avail any of the three facilities as per his/her convenience. All Manipal University institutes have access to these facilities.

The details of the above facilities are available in a separate Sports Handbook

Marena is a world-class in-door sports complex with state-of-the-art facilities which is open for both students and staff.

Facilities Available

1. Entry Level: Gymnasium, Cafeteria, Sports Shop
2. First Floor: Walking/Jogging Track
3. Level Minus-1: Sauna, Steam Bath, Change Rooms, Lockers
4. Level Minus-2: Badminton Courts(5), Squash Courts(4)
5. Level Minus-3: Basketball Court
6. Level Minus-4: Services
7. Level Minus-5: Cricket, Football, Simulated Games
8. Besides above there will be Tennis Courts at open to sky areas

Eligibility to use MARENA: Faculty members, Staff and Students of MU who hold the MU Combocard will have access to the facilities **EXCEPT** for the facilities listed below.

Following facilities will be accessible **only to the members of MARENA:-**

1. Gymnasium
2. Sauna and Steam Bath, Lockers
3. Cricket, Football, Simulated Games

Membership fee details:

1. MARENA Membership (Optional):

- a) Students of MU and TAPMI (Annual) : -Rs 12000 per annum
- b) Students of MU and TAPMI (Monthly Basis) : Rs 1500 per month
- c) Temporary Membership (MU):

i)One Day - Rs 125

ii)One Week - Rs 600

iii)One Month - Rs 1500

8.2 Auditoriums/Halls in the campus

1. Dr T M Pai International Convention Centre, Mangalore
2. MITLibrary Auditorium
3. MITSeminar Hall
4. Chaitya Hall Valley view

8.3 USIEF Satellite Centre

The United States International Educational Foundation Center, Manipal University established in 2008 strives to provide accurate, reliable, and updated information about higher education, scholarships, fellowships, exchange programmes, and research opportunities in the US.

Services

- Information about higher education in the fields of medicine, dental, allied health, pharmacy, engineering, management, communication, life science, nursing, law, humanities, arts and social sciences for undergraduate, postgraduate and doctoral studies in the US
- Guidance about the admission process
- Information about short-term and long-term fellowships, awards, scholarships, exchange programs in the US
- Linkage to USIEF, Chennai for students' queries and clarifications
- 48 hours a week of access to books on Graduate Programmes, Funding, Scholarships, grants, prizes, GRE, GMAT, TOEFL, letters of recommendation, electives, statement of purpose, and essays

Contact

Director Student Affairs

8.4 Volunteer Service Organization (VSO)

The Volunteer Service Organization (VSO) affiliated to the Manipal University was set up in the year 2007, with an idea of opening avenues of service for the students of the Manipal University.

“Serving hands are better than praying lips”, is what the VSO believes in. With an initial volunteer count of 50 students, today, the VSO has more than 1000 volunteers from different colleges affiliated to the Manipal University. We encourage the students to take up projects for the betterment of the society they live in. Some of the on-going projects of the VSO are:

- Paediatric ward visit
- Clean and Green Manipal
- Visit to the orphanage
- Visits to the cancer wards
- Blood donation camps
- Health checkups and dental camps for orphanage, slum areas
- Spoken Kannada classes for students and faculty members

Most of the activities are organized on Sundays and Holidays. In an endeavor to recognize the services offered by the students, a Certificate of Merit is issued by the University on completion of a minimum of 28 hours. Those who would like to register can log on to <http://vso.manipal.edu>. Please have a softcopy of your photograph ready to upload during the registration.

9.0 Student Exchange and International Electives

Manipal University has established linkages with a number of top ranking Universities across the world such as University of Queensland, University Medical Centre -Utrecht, University Medical Centre - Groningen, Amsterdam Medical Centre, ESIGELEC - Rouen, Lancaster University, Robert Gordon University - Aberdeen, Queen Mary London School - UK, Ngee Ann Polytechnic - Singapore, Hochschule Bremen - Germany, University of Nottingham, Maastricht University -The Netherlands and many others.

These linkages facilitate exchange of students between Manipal University and the partner universities and also facilitate the students to have international elective postings at these universities.

Part- B Campuses

1.0 Hostel Rules and Regulations (Technical campus and Health Sciences campus at Manipal and Mangalore)

1.1 Introduction

Manipal University(MU) has a separate hostel section under the management of Hostel Management Committee. This Committee is headed by its Chairperson and assisted by the Registrar, MU. The Chief Warden, MU, Manipal Campus who is the Secretary of the Committee administers the day-to-day aspects of the hostel management at Manipal. All the hostels of the University are divided into three campuses. The hostels of medical, dental and para-medical colleges at Manipal are grouped under Chief Warden, MU, Manipal Campus; the hostels of engineering, management and other colleges located at Manipal Institute of Technology complex are grouped under Chief Warden, MIT Campus; and the hostels at Mangalore Campus are grouped under Chief Warden, Mangalore Campus. Each hostel has a Warden from the teaching faculty members of the colleges who are responsible for the discipline, maintenance of building, allotment of rooms etc. There are hostel staff such as caretakers/block supervisors, other attendants and maintenance staff. The Manipal Servicecorp Facility Management Pvt. Ltd. (MSFM) looks after the maintenance of the buildings and other facilities in the hostels. There are messes located at different areas of the Campus, both combined and also separately for boys and girls. Students can choose to be a member of any of these messes. Membership in any one of these messes is compulsory for the first year undergraduate students.

The rules contained in this book are for the better management of the hostels and for creating a clean and secure atmosphere for the academic advancement of the students. All students are requested to extend full cooperation to implement these rules. This will help the management to make the stay of students in MU hostels as comfortable and enjoyable as possible. These rules are by no means comprehensive.

1.2 Chief Warden/Warden contact details

Please Refer Annexure

1.3 Emergency telephone numbers

Please Refer Annexure

1.4 Allotment and Vacating the Hostels

1.4.1. Every attempt will be made to provide hostel accommodation to all students.

1.4.2 The rooms allotted to the students at the time of admission are for a limited period of up to one year or less. Residents are required to shift to other blocks/rooms as and when

informed by hostel authorities. **This shifting may be necessitated due to administrative reasons and students are required to cooperate.** Residents must occupy rooms specifically allotted to them. Residents shall not change over to any other room except with the written permission of the Chief Warden. Allotment of a room made to any student is subject to cancellation if he/she fails to occupy it in the stipulated time or is found absent from the room without prior information or any valid reason. Residents will also forfeit their allotment if they fail to clear all their dues to the hostel by the scheduled date.

1.4.3. Residents who wish to vacate the hostel must meet the Caretaker for necessary formalities/advice. Permission of the students' parents and HoIs along with connected documentation is mandatory. While planning to vacate the hostel refund rules given at the end of this book must be consulted.

1.4.4. When there is a vacant seat in the room, the duplicate key of the room must be deposited with the Warden/Caretaker of the block to facilitate allotment of the vacant seat to another student.

1.4.5. Allotment/Vacation/Shifting

a) Hostel accommodation is allotted purely at the discretion of the Chief Warden and on condition that the student agrees to abide by all the rules and regulations of the hostel. The Chief Warden may refuse hostel facilities without assigning any reason or remove a resident from the hostel at any time on disciplinary grounds. Students may be required on disciplinary grounds to vacate their rooms at short notice. Similarly students may be required to shift to alternate accommodation at short notice due to administrative reasons. The Hostel Management reserves the right to break open any room which is not vacated, pack up the contents and store it. No complaints of breakage or loss will be entertained.

b) Students who have vacated the Hostels and wish to shift back to the Hostel may be permitted subject to their application being recommended by their HoI and subject to availability of rooms.

1.4.6. **Waiting List for changing Hostels/Rooms:** Students desirous of shifting to different rooms within their present Hostels or wishing to shift to other Hostels must put their names in the 'Waiting List' being maintained at respective Hostels and the Chief Warden's Office. Such students will be accommodated based **purely on the waiting list seniority.**

1.5 Maintenance of rooms

1.5.1. The rooms have been distempered and painted as per schedule and will be maintained regularly by the management as per the maintenance schedule. **Residents are not permitted to re-paint or do any alteration of any nature without the written permission of Chief Warden.**

1.5.2. All maintenance complaints/requirements will be attended to by MSFM. Complaint(s) must be entered in the register(s) available with Block Supervisors of their hostels. The complaints will be attended to expeditiously and are monitored by the Caretakers/Wardens/Chief Warden. **Residents are not permitted to employ any outsiders for any such job without the permission of Chief Warden.**

1.5.3. Residents must bring to the notice of the Block Supervisor any failures/breakdown in the electric supply. They should not themselves attempt to repair the defects in the mains or in the distribution system. The service of an electrician is available round the clock for attending to any defect in the electric system or fittings. When leaving the room, the occupants must take care to see that the fan and lights are switched off. Every effort must be made to reduce the use of electricity. A warning “S O S” (Switch off Something) may be put up on the door to remind the residents before they leave the room.

1.5.4. The rooms and surroundings must be kept clean. The service of the ‘Housekeeping Staff’ must be utilized to ensure that the rooms are swept and toilets cleaned while the residents are in the room. The block supervisors are at the service of residents. The ‘Housekeeping Staff’ are available during night (till 01:00 AM) also. Residents are responsible for the cleanliness of their rooms. They should see that the rooms are cleaned properly every day. All waste paper and refuse must be placed in receptacle provided for that purpose.

1.5.5. The electric points provided in each room are to be used for connecting table lamps. **Use of permitted domestic electric appliances etc. is only permitted.** University notifies a list of appliances permitted to be used in the room. Infringement of these rules will be severely dealt with. For the use of authorized electric appliances permission must be obtained from Chief Warden / Wardens. Any private unauthorized electric appliance found in any of the rooms without permission will be confiscated and disciplinary action initiated.

1.5.6. Water is an essential but scarce commodity. All residents are requested to use water judiciously and preserve it. Leakage etc. in the bathrooms should be immediately reported to the Block Supervisors.

1.5.7. Solar heated water is available in all the hostels during specific timings in the morning and evening. Residents are requested to use this without causing any wastage. Wastage will deprive someone of hot water. Tomorrow it could be you.

1.6 Waste Disposal

a) All inmates are advised to refrain from dumping solid waste materials in their commodes as, over a period of time, all these things create a block and the sewage pipe breaks open. These waste material may be wrapped in newspaper and dropped in the dust bin kept in the corridor (available in your room also).

b) Please ensure correct waste disposal to avoid causing inconvenience to other students, especially those on the lower floors and you.

1.7 Damage to Hostel Property

Any damage to hostel property will be made good by the residents who are responsible for such damage. This includes driving in of nails, painting/defacing of walls, damage to fixtures and furniture. Fines will also be levied in addition to disciplinary action.

1.8 Conduct and Discipline

1.8.1 Reading Notice board

All instructions/notices displayed on notice boards will be deemed to have been read by all residents and excuses for non-compliance of such instructions and notices will not be accepted. Residents are advised to look at the notice board every day to acquaint themselves with latest information/orders.

1.8.2. Cooking in the hostel rooms is not permitted. Outside food is not permitted to be carried to or consumed in the rooms.

1.8.3. Pets of any kind are not permitted. Feeding stray dogs and cats in the hostel premises is not permitted.

1.8.4. Playing of loud music and disturbing the quiet atmosphere by any other means is not permitted as it disturbs the fellow hostel mates. You may use earphones while listening to music. Playing any kind of out-door games inside the hostels/corridors is not permitted.

1.8.5 Neither is partying in the rooms, in the corridors or anywhere in the hostel permitted whatever be the occasion.

1.8.6. Anything which interferes with student's studies must be avoided at all times. **'Silence Hours' will be observed from 8.00 pm to 8.00 am on all days.** No noise of any sort will be permitted during the 'Silence Hours'. Serious action will be taken on the breach of this rule. Residents must not go to others' rooms and disturb the inmates. Complaints from other residents will be investigated and action taken accordingly.

1.8.7. The Chief Warden/Warden or his representative may enter any room for checking/verification at any time of the day or night.

1.8.8. The management reserves the right to break open the rooms in case of violations of hostel rules, suspected unlawful activities and security risk cases or where the student is absent from his room for a long period without prior information or any valid reason.. This will, however, be carried out by the Security person in the presence of the hostel Warden, Caretaker and one independent student witness at the discretion of the Chief Warden/Warden.

On such occasions, the items in the room will be listed by these officials and kept in the store room. A verbal report, followed by a written report will be sent to the higher authorities.

1.8.9. Proxy or dummy room-mates are forbidden. Strict action will be taken if accommodation is held as proxy. They are liable to be removed from the hostel.

Residents are not permitted to allow their rooms to be used by others. All visitors and non-residents must leave the hostel/students' rooms after the laid down visiting hours. All residents are advised to extend their fullest cooperation to see that no unauthorized persons enter or stay in the hostel premises. If they happen to find any such person, they should demand the permit/Identity Card and if it is not forthcoming, the matter should be brought to the notice of the Warden for further action.

1.8.10. All hostel inmates MUST report any disciplinary matter or problems concerning them or their room-mate/ neighbour(s) coming to their notice to the Warden/Chief Warden through block supervisor/caretaker or directly. In case their room-mate is absent from the room or is sick/admitted in the hospital or is in any kind of physical/mental trouble or is indulging in any bad practices the same MUST be immediately brought to the notice of the Warden or the Chief Warden.

1.8.11. No televisions are permitted to be kept in the hostel rooms by the students. Students may watch TV in the common TV room provided in their hostels.

1.8.12. The residents are forbidden to keep any heavy cash/valuables in the room. Every resident is responsible for the safety of his/her costly items inside the rooms. Giving the room keys to any person (except the Block Supervisors/Caretakers/Wardens) in good faith is at their own risk. The management will not take any responsibility for any loss of such costly articles/money. They may deposit all sums of money not immediately required by them for their expenses in the local Banks. The residents must lock the rooms and their lockers with their own locks. **(Branded Lock should be used. Number locks are not to be used)**

1.8.13. **Lock Breaking charges** – Students are advised to keep their room keys safely. In case a student loses his/her key and has to get the lock broken, he/she will have to pay the lock breaking charges (currently Rs250)

1.8.14. **Insurance of Laptops/Valuables:** It is the responsibility of the Hostel residents to get their laptops and valuables, if any, insured themselves.

1.8.15 **Security of ATM/Debit cards:** All residents must take care of their ATM/Debit cards. They must not disclose their PIN to anybody-even to their best friends

1.9 Access to Hostel

a) All Hostels are provided with Access Controlled Doors which are meant to ensure that no unauthorized person can enter the Hostel. This is to ensure your safety and security and your

belongings. All these Access Controlled Doors can be opened with Combo Cards that are issued to each student.

b) All inmates of Hostels are requested to ensure that the 'Access Controlled Doors' of their hostels are always kept closed thereby ensuring that only authorized and legitimate person gain access to the Hostels.

c) All the Hostel entrances and the 'Access Controlled Doors' are under 24 hour surveillance (through CCTV). Hence action – disciplinary/penal may be taken against anyone who leaves the doors open.

d) All inmates are requested to cooperate. It is for your safety, security and wellbeing.

1.10 Curfew and Out of Bound Areas

1.10.1. The hostel timings will be strictly adhered to. Library timings are up to 11.30 pm. All residents will return to the hostel by 12.00 midnight. At midnight the hostel gates will be closed. Students who wish to go to any place such as railway station etc. for the night trains must take prior permission at least one day in advance from the Warden/Chief Warden. Any student found loitering in the campus after 12.00 midnight is liable to be questioned by security staff. They are required to surrender their identity card to security staff on duty. Roll call will be conducted between 12.00 midnight to 00.30 a.m. Students are advised to be present in their rooms.

1.10.2. The civil administration of Udupi-Manipal have fixed **11.00 pm as the time for closing down and anyone found thereafter in areas other than library are liable to be questioned/checked by the civil police authorities.**

1.10.3. The first year undergraduate students will return to their Hostels by the timings as under:

- (a) First month - by 9.30 pm
- (b) Second month - by 10.30 pm
- (c) Third month - by 11.30 pm

After the third month first year undergraduate students must return by 12.00 midnight.

1.10.4. Latecomers

Residents returning late to their Hostels, without valid reasons will be fined. The HoIs and parents of residents coming very late or who are habitual offenders will be informed. In acute cases the resident may have to vacate the Hostel.

1.10.5. BEACHES

- ❖ All beaches around Udupi, Mangalore and nearby places are **OUT OF BOUNDS** for all students throughout the year since it is dangerous.
- ❖ No student will enter the sea for swimming or any other purpose.
- ❖ Disciplinary action and or penal fines will be taken/levied against the defaulters and he/she may be asked to vacate the hostel.

1.11 Visitors

1.11.1 Visitors' including parents and guardians must obtain visitors pass from the Wardens/Chief Warden, Manipal University, even to enter the visitors lounge in the hostels. Timings of Visitors pass to be adhered to. Male relatives above the age of 12 years are not permitted to visit ladieshostels. Similarly, female relatives above the age of 12 are not permitted to visit gentshostels.

1.11.2 Visitors are permitted to enter the hostels only if the student being visited is in the hostel. The security guards/caretakers will refuse entry without passes. In the absence of visitor's pass, residents have to meet their visitor only outside the hostels. Except the residents **no one else including parents are permitted to stay in the students' rooms.**

1.11.3. Students are not permitted to enter other hostels. They should meet their friend at other places in the Campus.

1.11.4 **Non-resident students are not permitted to enter any hostel.**

1.11.5 The entry of males is strictly forbidden inside ladies' hostel except on University official duty with valid passes. Likewise, ladies are not permitted to enter the gents' hostels.

1.11.6 Fire Hazards and Safety

Candles and incense are a fire hazard and are not permitted in the hostels. Combustible materials such as gasoline, paint thinner and oil lamps are not permitted in the hostels. Burning/bursting of crackers, carrying of crackers to the rooms and lighting of lamps/candles are banned strictly in and around the hostel premises throughout the year. Residents must switch off all lights and fans, and electrical appliances including mosquito repelling machines if any before leaving their rooms. This is necessary to avoid an inadvertent fire. This is a must especially when students go on vacation.

1.11.7 **In case of Fire:**Residents must raise an alarm and call the hostel caretaker. They should also alert the Manipal Security- Security Vehicle 9945670913 and Duty Security Officer 9945670912

1.12 Vehicle and Parking

Parking of two wheelers in the hostel corridors and under porticos is strictly prohibited.

1.12.1. **“Residents are advised not to keep a vehicle in the campus as it is not necessary”**. Students are not permitted to have any type of motor vehicles. There are no shelters provided for parking these vehicles. In case of residents having vehicles, they are advised to keep their vehicles always locked. Residents' private vehicles are liable to be frequently checked by the Regional Transport Authorities. Residents are advised to update the registration as per the rules/regulations prevalent in the State of Karnataka. Residents are also advised to adhere to the traffic rules. Using vehicles without proper silencers create noise pollution and is prohibited. All vehicle owners will register their vehicles with Manipal University security and obtain stickers for parking the vehicles in the University campus. Management does not take responsibility of the vehicles.

1.13 **Laundry Facilities:** Outsourced washing machine facility with operator is available at Nehru Hostel for gents and S Chandrasekhar and Sonia Hostels for ladies. Clothes are washed on nominal payment and given within 24 hours. In addition laundry men/women visit the hostels in the evening and collect clothes for washing on payment of charges as laid down by the University

1.14 Mess Membership

1.14.1 Membership in any one of the mess in the campus is mandatory for all first year students. Every student when initially given a seat in the hostel should register as member of one of the messes. Students who wish to become members of Food Court Mess that is run by the University, are required to pay annual mess advance mess of Rs 24,000 (Liable for periodic revision).

The actual mess bill will be announced every month and would be appropriated against the advance collected. Students will be required to pay any increase in the actual charges as compared to the amount collected in advance. The amount collected if found in excess after ascertaining the actual bill will be adjusted against the charges for the subsequent period or refunded.

1.14.2. Students staying outside the hostels are not permitted to become members of the Food Court Mess, except with the approval of their HOIs and the written permission of the Chief Warden and on payment of the advance mess charges of Rs. 24,000. This advance will be governed by the conditions given above in 1.14.1.

1.14.3. Hostel and mess dues must be cleared in time to avoid inconvenience to the residents and their parents/guardians. Delayed payments attract fine. The mess dues list will be put up on the hostel and college notice boards. It is the residents' responsibility to check the same and clear their dues within the stipulated grace period. No individual intimation will be given

or sent to the parents. Membership of those residents who do not have any credit in their mess account will be suspended and their mess facilities will be withdrawn.

1.14.4. Food will be served in the dining halls at the following hours:

Breakfast	:	7:00am to 9:30 am
Lunch	:	12:15 pm to 2:00 pm
Dinner	:	7:30pm to 9:00 pm

1.14.5. Residents are expected to maintain perfect discipline and order in the mess and in the dining hall always. Outside food and drinks is strictly not permitted to be consumed in the Food Court Mess. Disciplinary/penal action will be initiated against the defaulters.

1.14.6. Members are forbidden to enter the kitchen.

1.14.7. Residents are not permitted to take their meals in their rooms. In special cases such as when the student is confined to bed due to illness, the Chief Warden's or Warden's written permission should be obtained and the food will be delivered to the rooms. No private caterers are permitted to supply food within hostels. Outside food is not permitted in the Hostels.

1.14.8. Plastic Free Zone: Manipal University Campus is a 'Plastic Free Zone'. Residents should ensure that plastic bags are not used for any purpose whatsoever.

1.15 Complaints and Representations

1.15.1 All complaints regarding repairs/maintenance in the Hostels must be entered personally by the students in 'Complaint Registers' maintained in all the Hostels. These complaints are attended to expeditiously by MSFM staff. All complaints are also monitored regularly by the Warden/Chief Warden.

1.15.2. Similarly 'Suggestion Book' is available in the Food Court Mess and 'Suggestion Box' is available in 'Sodexo Food Solutions' Mess. Students/members may enter/drop their suggestion regarding quality, quantity and variety of food in these registers/boxes which are perused by Chief Warden for remedial action. Valued suggestions of residents are given due consideration.

1.15.3. For other complaints if any, applications shall be made in writing addressed to the Warden/Chief Warden and handed over to the Hostel Caretaker/Senior Mess Manager at the Hostel/Food Court Mess office. Complaints will be resolved expeditiously by the Wardens / Mess Managers themselves. Advice and assistance of the Chief Warden will be taken when needed. For investigation of any of the complaints the Warden may call the concerned resident or hostel employees to his/her office.

1.15.4. Residents of the hostels are not permitted to convene meetings of any sort in the hostel premises without the prior permission of the Warden/Chief Warden. Disobedience of this rule will be severely dealt with.

1.15.5. Similarly students or dining members are not permitted to convene meetings of any sort in the Food Court Complex without the prior and written permission of their Dean and Director General Services. Violation of this rule will be dealt with severely.

1.15.6. There are 'Suggestion Boxes' kept in all the hostels for suggestions if any from the residents. Residents may drop their suggestions and complaints if any, duly signed with their names and roll numbers in these Suggestion Boxes which are opened periodically. Appropriate action will be taken on all suggestions/complaints and a feedback given to the student(s). No cognizance of anonymous suggestions/complaints will be taken.

1.15.7. The Block Supervisor, Warden and Chief Warden are available round-the-clock on telephone, and may be contacted in case of any emergency. Their telephone numbers are given in this book and are also displayed at various places in all the Hostels.

1.16 Sickness

1.16.1 If a resident falls sick, he/she or room-mate/friend must immediately inform the caretakers/block supervisors/person on duty who will make arrangements to shift/evacuate the student (in the student ambulance) to the hospital and look after him/her. All cases of sickness must be immediately reported to the Medical Officer, at the 'Student Clinic' that functions between 8:00 am to 4:30 pm for necessary treatment. The 'Evening Student Clinic', which will look after students having minor illness is functioning in the Medicine OPD between 5:30 and 6:30 pm. If students go to the Casualty after 8:00 pm they will be admitted in the hospital to ensure optimal care and for security reasons.

1.16.2 In case a resident is quite unable to leave the room and go to the Hospital, the matter must be reported to the Warden. Information regarding any resident falling sick or getting admitted in the hospital must be relayed to the hostel/college authorities on priority.

1.16.3. In case a student gets admitted in the hospital either by herself or with the assistance of his/her friend/roommate/classmate, he/she must ensure that this information along with room number and name of ward is given to the Hostel Caretaker/Warden or Chief Warden. This will ensure that unnecessary anxiety is minimized.

1.16.4. It is observed that some Students are taking self-medication or seeking medical treatment in local clinics/hospitals, which is not in order nor recommended. Our own hospital 'Kasturba Hospital' with all facilities is within the University Campus. Further all students are covered under 'Medicare' and are entitled to free treatment/hospitalization in Kasturba Hospital.

1.17 Communication and Transport system

1.17.1 Residents may own University telephone in their rooms by paying the requisite fee. Students can also apply for Bharat Sanchar Nigam Limited (BSNL) telephone connection.

1.17.2. Frequent bus services from Manipal to Udupi and Mangalore are available.

1.17.3 There is no need of any transport in the campus as all places of importance to students are within the walking distance from hostels. Students are not permitted to have any type of motor vehicles.

1.17.4. Authority letter to collect the Ordinary/ Registered Letters/Speed Post/Post/Money Order or Parcel etc

a) An authority letter to collect the Ordinary/ Registered Letters/Speed Post/Post/Money Order or Parcel etc. from Post Office, Manipal is available with Hostel Caretaker/Block Supervisors in the Hostel.

b) In case a student is expecting an Ordinary, Registered Letter, Speed Post, Money Order or Parcel from Post Office, Manipal, please give the above authority letter duly signed to your Hostel Caretaker who will collect the Letter/Money Order/Parcel from the Post man and give it to you on your return to the Hostel

1.18 Absence from Hostel

When a resident of the hostel wishes to leave the hostel/station on vacation/ holidays or otherwise the following action will be ensured:

(a) First Year Undergraduate Students

The student will submit to the Chief Warden a signed application on the laid down format duly countersigned and stamped by his/her college authorities or teacher guardian. Once permission is accorded by the Chief Warden the students will also ensure the following mandatory action is done before leaving the hostel. The application forms can be obtained from their Hostel caretakers/block supervisors or the Chief Warden's Office.

(b) Mandatory Action by all Hostel Residents including PGs, Interns and Staff.

Residents will make necessary entry in the IN-OUT Register available in every hostel. It is mandatory in all such absences to record departure/return date and time and place to which they are going along with the postal address and telephone/mobile number.

(c) Disciplinary action/penal fines will be levied on defaulters

1.19 Code of Conduct

The University Code of Conduct will be adhered to by all students.

1.20 Public Display of Affection(PDA)

The strong traditions and cultural systems in India prohibit PDA. Students are advised to refrain from PDA. Students indulging in PDA will be dealt with (disciplinary and penal action)

1.21 Compliance to EMS

The two main EMS objectives – reduction in water and electricity consumption must be always kept in mind. Please ensure that unwanted lights are switched off in the Hostels corridor/lobby (especially during the day). No water should be wasted and taps in all bathrooms must be kept closed always

1.21 Financial Regulations

1.21.1. Hostel Facilities Fee/Deposit

a. The hostel facilities fee is collected on an annual basis. The fee varies with each category of accommodation. The hostel facilities fee will be collected at the commencement of each Academic Year as per the schedule notified by the University or by the Hostel Accounting Office. Delayed payments will attract a fine at the rate of 12 per cent per annum computed for each default day. Details of hostel facilities fee for each academic year will be put up on the hostel notice boards. No individual intimation will be given to the students/parents/guardian. Every student is expected to ascertain this from the notice board and remit the fee in time.

b. Every student admitted to the hostel is required to make a hostel deposit. The deposit will be refunded when the student vacates the hostel on production of a 'Dues Clearance Certificate'. The amount of hostel deposit is published along with the schedule of hostel facilities fee.

c. Hostel facilities fee for Casual Students: Students who do not complete their studies within the regular period stipulated for the programme may be allotted accommodation for a further term(s) on non-priority basis subject to the following: 50 per cent of the annual hostel facilities fee will be charged to such students for a term not exceeding six months. The student will have to pay the hostel fee for the entire year for retaining accommodation beyond a period of six months.

d. Payment of Hostel Facilities Fee/Deposit: The hostel facilities fee/deposit may be remitted by a demand draft in favour of MAHE Hostels payable at Manipal/Udupi/Mangalore.

e. The hostel fee will be collected for each year as per schedule notified by the University or by the Hostel Accounting Office.

f. Charges for electricity, water, other utilities etc., will be divided equally among the residents of each block and collected from them. These charges called 'Utility Fees' are in addition to the hostel fees.

1.21.2. Mess Bill

a. Mess/utility charges of a month will be put up on the Notice Board by the first/second week of the next month. All mess bills for each month must be paid within seven days of display on the Notice Board. No individual intimation will be given to the students or their parents.

b. In case of non-payment of utility charges for more than two months, or whose mess dues are more than Rs.2,000, their mess membership will be suspended and their messing facilities withdrawn. The names of such students will be removed from the mess register and he/she will cease to dine in any of the messes. They may not also be entitled to reside in the hostels beyond the period for which hostel fee has already been paid. Defaulters list will be notified to all members by Wardens/Senior Mess Manager)

c. The names of the defaulters will also be communicated to the Deans/Medical Superintendent (in case of PGs) /HoDs for further action.

d. The defaulters will not be considered for change/retention or re-allotment of hostel accommodation.

e. In case a defaulting student wants to rejoin the hostels, he/she will not be allowed to do so until he/she pays up all his/her previous bills/dues including the fine.

f. Students will be permitted to apply for or appear for University Examination only after they clear their mess, hostel and tuition fee arrears. The Dean reserves the power to suspend any student whose bills are not paid.

1.21.3. Hostel Facilities Fee Refund- This rule is not applicable to First Year Students

a. Hostel Facilities Fee refund applicable only to the students of second year and onwards:

b. Hostel facilities fee refund is considered on monthly basis. Charging on daily basis for overstay beyond one month is not permitted and such overstay will be considered as full month stay.

c. This rule is applicable to all the hostels and their residents AC/Non AC hostels and all Students/Interns/Tutors/PG Cum tutors/Research fellows.

d. This rule will be strictly complied with and no representations from residents will be entertained.

e. Students vacating the hostel must submit to the Hostel Accounting office a hostel vacating form duly approved by the Chief Warden along with no dues certificate from the mess.

1.21.4. Utility Charges

a. Charges for electricity, water and other utilities will be divided equally among the residents of each block/hostel and collected at the end of each month. These charges are in addition to the hostel facilities fee.

b. Electricity charge for specified equipment/gadgets will be collected monthly in addition to the regular utility charges. The schedule of such charges is published at the commencement of each Academic Year. Students will take written permission from the Chief Warden for using any specified equipment/gadget in their rooms.

c. Outside Students: In case students staying in hostels from sister colleges stay for short duration not exceeding one month in our hostels, utility charges will be collected on the following basis:

Period of StayCharges

= <1 week-One week

> 1 week <= 2 weeks -Two weeks

> 2 weeks up to 1 month-One month

d. Exemption of Utility Charges

Utility/establishment charges, including electricity charges, will not be collected from the students who proceed on leave of absence for more than eight days. However, such absence should be duly approved by Head of Institution (HoI) and student should inform Warden/Supervisor of hostel concerned in writing before proceeding on such absence.

1.21.5. Payment of Monthly Dues

a. Mess/utility charges of month will be published on the hostel notice boards by the first week of the following month. All mess/utility charges for each month must be paid within seven days of such publication. No individual intimation will be given to the students/parents/guardian.

b. Any damage/breakage to hostel property will be charged to the occupants of the room/block. Disciplinary action will also be initiated.

- c. Payments towards mess/utility charges may be made in cash or by local cheque. A fine of Rs. 500 will be levied in case the bank dishonours a cheque besides taking legal action as may be considered in specific cases.
- d. Delayed payments will attract a fine at the rate of 12 per cent per annum computed for each default day. The fine will be calculated from the day following the last date for payment of the bills.
- e. In case of non-payment of mess/utility charges for two months or more, or whose dues is more than 2,000 the names of such students will be removed from the mess rolls and such defaulters will not be permitted to dine in any of the messes. They may also be disallowed from residing in the hostels beyond the period for which hostel fee has already been paid. The names of the defaulters will be communicated to the respective Dean/Director of the College/Institute for further action. The Dean/Director reserves the option to suspend any student from attending classes, labs, clinics whose bills are not paid for more than two months.
- f. Students who have discontinued/disallowed from dining in the mess and/or from residing in the hostels will not be permitted to rejoin mess or hostel unless they have cleared their dues including fines if any.

1.22 Conclusion

1.22.1 Hostel residents are at liberty to meet their Wardens or the Chief Warden to sort out their difficulties, if any.

1.22.2. Any matter, not expressly provided for in these rules, will rest at the absolute discretion of the University which also reserves the right to modify any of these rules as and when necessary.

1.22.3. It is the earnest endeavor of the Management to make the living conditions in hostel as comfortable and enjoyable as possible. No stone will be left unturned in pursuit of excellence in managing the hostels. The co-operation of students will help the Management in achieving this aim. We wish all the residents a very happy and comfortable stay in Manipal University hostels.

2.0 Library

Manipal University has some of the best libraries in Asia. There are three major central libraries as under:

- Health sciences Library Manipal
- Health sciences Library Mangalore

- MIT Library

Each of these libraries can be accessed by any MU student. Besides these central libraries, each constituent institute has its own library besides these central libraries. There are also small department level libraries in all of the institutes. University always strives to provide the latest and best collection of books, journals, online sources, dissertations etc., to the students for course work and research.

2.1 Rules and Regulations

Common across all three libraries

- All Students who visit the library should use combo card at the access-control door every time.
- Bags, briefcases, handbags, parcels, aprons or other receptacles are not allowed to bring inside the library. Such bags, briefcases, handbags, etc. may be left in the property counter provided in the library. Users are advised not to keep their valuable things in the property counter. The library accepts no responsibility for the loss or damage of any articles so left.
- Books, journals, etc. taken from the shelves for reading should be left on the tables after use and 'not' to be replaced on the shelves.
- All users leaving the library must show all books, folders, papers, etc. in their possession whether these belong to the library or not at the counter of the reading hall. Users may also be required to open for inspection any receptacle carried out of the library.
- All books/journals and other library materials are to be used with care.
- Engaging in conversation/discussion/group study inside the reading halls is strictly prohibited. Discussion is permitted only in group study area.
- No user shall deface the library books by underlining or scribbling notes in the margins, etc.
- Chairs and tables and other library equipment, fittings and furniture may not be marked, defaced, disarranged. Users should not place their feet on chairs or tables.
- Users should not reserve seats either for themselves or for others by leaving library material or personal property on a reading table.
- Personal belongings should not be left unattended. The library cannot be held responsible for any loss or damage of personal belongings.

- Loss or damage to library material on loan to a user should be reported immediately. The user must pay the cost of replacing a lost or seriously damaged book or other item; in addition to that he/she has to pay the fine.
- Smoking, eating, drinking (except water) sleeping and talking loudly are strictly prohibited in the Library.
- Mobiles phones are to be switched off or to be kept on silent mode in the library reading halls.
- Strict silence, decorum and discipline must be maintained in the Library.
- Users should behave in a reasonable and seemly fashion in the Library and must not damage library property or disturb other users.
- Copy right law should be strictly observed by all library users when making copies of library materials.
- Computers are for educational use only. The use of the Internet in the library is for reference work. Accessing unauthorized sites, playing games, chatting etc. are strictly prohibited.
- Library users should not change settings on the computers provided in the library.
- All users must follow the dress code of the University while visiting the library.
- Sitting on the staircases/corridors/lobby areas is strictly prohibited.
- Users are required to vacate the Library at designated closing times, upon hearing alarm bells.
- Users may not connect to the Library's electrical, data or telephone supply.
- Notices, handouts or related material may only be displayed in the Library with the permission of the Librarian and in an approved fashion.

Health Sciences Library, Manipal

- Personal books are not permitted to bring in the reading halls of Level III (left wing), Level IV and Level V.
- No library materials will be issued out for undergraduate students.

Health Sciences Library, Mangalore

- The library shall be under the control of the Library Committee, which shall recommend to the Dean, purchase of such books as in its opinion are desirable and as

the funds allotted for this purpose permit and shall recommend the disposal of such books as in its opinion are either obsolete or unserviceable

- If more than one student asks for any particular book/s at the same time, the student who makes the first application shall take the book and after he/she finishes reading, the next person can take the book/s
- Postgraduate students in the PG Section shall be allowed to take more than two books at a time. Undergraduate Students are strictly warned not to take any books from the cupboards themselves. PG Students and staff members who have borrower's cards are allowed to issue the books outside the library for 15 days duration. Library books are issued to Under Graduate students for reading in the library only. No Under Graduate student is allowed to take away the books out of the library
- The timings for home lending are 9:00 AM to 11:30 PM on all working days
- Issue of books to Departmental Library will be made on a requisition duly signed by the Head of the Department
- Any complaint regarding issue of books, periodicals etc shall be made by the students concerned to the Chairman of the Library Committee in writing. The Librarian must report to the chairman of the Library Committee immediately when a book is carried by the student outside the precincts of the library
- The Hostels of KMC, Mangalore have their own libraries. They follow similar rules and regulations. The Wardens of the respective Hostels are I/C of the libraries
- Photocopying facilities are provided to the staff and students from 9:00 AM to 11.00 PM on all working days

MIT Library

1. Students are not allowed to take books, files, printed materials or any other articles inside the library. However, they can keep such articles at the property counter provided in front of the lending section of the library.
2. Borrowing and returning of books must be done through the windows of the circulation counter between 9 am and 7 pm. This facility is not available on Sundays and holidays.
3. Fine will be charged for the books returned after the due date as follows.
 - Re1 per day per book till 15 days after the due date
 - Rs 2 per day per book till return of books

Book or any other literature taken for reference, against library membership card, must be read within the library and must be returned before leaving the library. Defaulters will have to pay a fine of Rs.25 per day per book (or any other literature)

Students are requested to return the book at the circulation counter taken for reading from the main book stack.

The above mentioned rules and regulations are subject to periodical reviews and revisions. Failure to comply with library rules and regulations may result in the loss of library privileges and may lead to College or University disciplinary procedures

2.2 Health Sciences Library Manipal

2.2.1 Introduction

Manipal University has an excellent Health Sciences Library, perhaps the best among all Health Sciences Libraries in India. The state-of-the-art library stretching over 1.5 lakh square feet, on five levels is a domain for information seekers; be it students, faculty members or researchers. It has the capacity to accommodate 1300 students at a time. Besides the comfortable seating and reading environment, the library is well equipped with modern facilities such as e-Learning, access to internet and web resources including online journals and e-books. Library is providing a growing range of databases available in electronic form on the campus network. All the library services have been automated on modern line. The library has fully computerized its collection, which could be accessible through OPAC. The library is enabled with Wi-Fi technology and security systems with Closed Circuit Television System (CCTV). There is a separate audio-visual room, computer lab, group study area and private study area in the library. The library has all the facilities for the students to learn. The Health Sciences Library is committed to provide a world-class information support to its users.

2.2.2 Administration

The Library is headed by a professionally qualified Senior Librarian and is assisted by two Librarians (Senior Scale). These Librarians are assisted by four Assistant Librarians and 60 support staff who are generally responsible to carry on day-to-day tasks in the library and ensure that the users are served with required reading materials and to keep the library tidy.

2.2.3 Entrance

The Health Sciences Library is located in the manipal.edu building and user can enter the library through the right wing of this building to go to different locations of the library which are listed below:

- **Left Wing:** Circulation counters, EPAC user terminals, group study area, books and reference reading halls, current journals, back volumes of journals reading halls, computer lab, internet kiosks, photocopying sections, fax section, office of Senior Librarian and office of Librarians (Senior).
- **Right Wing:** Property counter, private study area, audio-visual room, e-Learning Center and newspapers and magazines reading area.

All users are required to use combo card at the access control door to enter into the library. Further same is required to be produced to the security as and when asked for at the entrance.

2.2.4 Working hours

The working hours of the Health Sciences Library are as follows

On All Days	08:30 am To 11:30 pm
On Ganesh Chaturthi, Vijayadashami and Deepavali	08:30 am to 4:30 pm

2.2.5 Floor plan

The Health Sciences Library is stretching on 5 levels. The organization of the various levels is given below:

- Level – I:

Senior Librarian office, help desk, security desk, property counter, notice boards, group study area, circulation (issue and return) section, reference counter, EPAC user terminals, internet kiosks, new arrivals section, reading hall, books related to Nursing Sciences, Pharmaceutical Sciences and Allied Health Sciences and photocopying section.

- Level – II:

Librarian (Senior) office, fax section, reference counter, internet kiosks, new arrivals section, reading hall and books related to Medical Sciences and Dental Sciences and notice board.

- Level – III:

Librarian (Senior) office, computer lab, CD and online database section, reference counter, new arrivals section, reading hall, reference books related to Medical Sciences and Dental Sciences, current periodicals, photocopying section, EPAC user terminals, internet kiosks, notice boards, display of faculty publications and private study area.

- Level – IV:

Reading hall, back volumes of journals related to Medical Sciences, WHO publications, reference counter, internet kiosks, photocopying section, e-learning centre, audio - visual room, newspapers and magazine section.

- Level – V:

Reading hall, back volumes of journals related to Dental Sciences, Nursing Sciences, Pharmaceutical Sciences and Allied Health Sciences, reference counter, dissertations, books on Yoga and Ayurveda and old editions of books.

2.2.6 Reference collection

The organization of the entire collection is given below:

- Level – I: The stacks of this level have the books on Nursing Sciences, Pharmaceutical Sciences and Allied Health Sciences.
- Level – II: The stacks in this level have the books on Medical Sciences and Dental Sciences.
- Level – III: The stacks in this level have the reference books on Medical Sciences and Dental Sciences. The entire current journals received in the Health Sciences Library are displayed under broad subjects.
- Level – IV: The stacks in this level have the back volumes of journals on Medical Sciences arranged in alphabetical order of the titles of the journals. Also stacks in this hall have WHO publications
- Level – V: The stacks in this level have the back volumes of journals on Dental Sciences, Nursing Sciences, Pharmaceutical Sciences and Allied Health Sciences arranged in alphabetical order of the titles of the journals. Also stacks in this hall have books on Yoga Therapy, Ayurveda, and dissertations.

2.2.7 Reference counters

The Health Sciences Library has good reference collection and provides reference service to the users using these reference resources which have been organized at Level - I to Level - V reading halls. Library semi-professional and supporting staff will answer reference questions for users at reference counters. This service is intended for brief questions and complex reference questions will be handled by the Librarians. Library users are also encouraged to use the phone (91 820 2922293, 2922611, 2922281 and 292431) for reference service.

2.2.8 Collection

The total collection of library resources as on 31 March 2012 stands as follows.

Collection	Total(As on 31.03.2012)
Books	59628
Journals subscribed for the year 2012	557
Online journals	3240
Back volumes of journals	34628
Online databases	8
CDs	674
WHO publications	1997
Dissertations	5552
Audio cassettes and slide tape programes	922
Video cassettes	375
Computers	129
Scanners	6
Printers	15
Color laser printer	1

2.2.9 e-Resources

The following e-resources are available (more details available in library website)

- **ProQuest Medical Library**
- **MD Consult**
- **Scopus**
- **Science Direct (Health Sciences Collection)**
- **CINAHL Plus with Full Text**
- **Cochrane Library Online**
- **IDIS/Web (Iowa Drug Information Service)**
- **Net Anatomy Educational Website**
- **Up-to-date Clinical Information Resource**
- **DynaMed**
- **Online Journals of Various Publishers**

2.2.10 Value added Services

SEARCH - The Health Sciences Library provides the following value added services to its users in addition to all routine type of services.

- Reference Service
- Current Awareness Service: Currently the library offers the following current awareness services to the users.
- By telephone calls
- Display of new additions in the library
- Publishing of “new acquisition” in library micro site
- Circulation
- Photocopying
- Fax
- Audio-Video Viewing
- Inter-Library Loan/Document Delivery
- Computer Services.
- CD-ROM Access
- Internet Access/Wi-Fi
- E-Learning Centre.

Library Memberships: The library has the institutional member of the following.

- DELNET Online:DELNET Online (Developing Library Network, New Delhi)
- British Council
- The American Library, Chennai

2.2.11 Library Web Site

The micro site of the library acts as a single window providing information and links to all its resources and services. All digital resources were brought together and grouped under seven broad categories i.e. library access, online databases/e-journals, e-books, bibliographic databases, important links, other links and search engines for smooth navigation. Library website could be accessed through Manipal University intranet portal <http://muportal/> or directly through <http://172.16.19.80/lib/index.asp>

2.2.12 ERMSS (e-Resources Management and Search Solution) Software

ERMSS (e-Resources Management and Search Solutions) is a customized e-resources management and search solution to manage and provide search on subscribed titles of e-Resources (e-journals, e-books and online databases) of the Health Sciences Library, Manipal University, Manipal. The scope of the ERMSS is to make available all e - resources of the Library to its end-users. ERMSS could be accessed through Library web page <http://172.16.19.80/lib/index.asp> or directly through http://172.16.19.99:8080/ermss_kmc/

2.2.13 EPAC (Electronic Public Access Catalogue)

This is Public Access Catalogue of Health Sciences Library. Users can search the details of all the print resources (books, journals, back volumes of journals, WHO publications, etc.) of the Health Sciences Library and other libraries of Manipal University through Library's online catalog – the EPAC (Electronic Public Access Catalogue). EPAC could be accessed through Library web page <http://172.16.19.80/lib/index.asp> or directly through http://172.16.19.56/epac/epac_selorg.asp.

2.2.14 Suggestion box

- **Suggestions Box:** For receiving valuable suggestions and views of library users for enhancing the library present services; and to know what users think about the library current services, suggestions box has been placed on the reference counter in the Level – I. Users can also send their suggestions, views and complaints to the Senior Librarian through library micro site.
- **Register for Untraceable Publications:** Library users can write the details about the books, current journals, back volumes of journals, theses, WHO publications not found on proper shelf in the register provided for untraceable publications on the reference counters in the 5 Levels (Level – I to V). They will be intimated by the concerned library staff either over phone or in person. In case the users find any difficulty, they can also contact the Librarians.

2.2.15 Contact Details

Contacting the Health Sciences Library by post/telephone/fax/e-mail:

Dr Shivananda Bhat

Senior Librarian

Telephone +91820 2922358, Fax +91820 2570061, e-mail: lib.kmc@manipal.edu

2.3 Health Sciences Library Mangalore

2.3.1 Overview

The Kasturba Medical College Central Library, Mangalore came into being with the establishment of the college in 1953 and is situated in the KMC, Utility Building, Light House Hill Road, Mangalore. The library extends over 2025 Sq meters on three floors in a fully air-conditioned facility, and is very useful for information seekers. It can accommodate over 400 users at a time. The users can utilize this library from 9 am. to 11 pm on all week days. Besides traditional carriers of information such as books and journals, the library is well equipped with all modern facilities like CD/DVD's, online journal and textbook databases. The library is automated with EASYLIB software.

The library aims to acquire Health Sciences Information and provide timely, accurate and current information and documents to its users for their teaching, research and academic achievements. The library contains the back volumes since 1955.

2.3.2 Contact

Sr Librarian (Dr Pooja): +91-824-2422271

E-mail: lib.kmcmlr@manipal.edu

2.3.3 Library Services

- Internet Service
- Audio-visual Services
- Photocopying
- Medline
- Wi-Fi connection
- Computer Kiosk

2.3.4 Infrastructure

Total floor area: 2025 sq.mt.

Reading Rooms: Five

- For UG. : 2 (200 seats)
- For PG. : 2 (150 seats)
- For Staff : 1 (50 seats)

2.3.5 FLOOR PLAN

Level-1 (Basement)

- Security
- Property counter
- Library Main Counter and Computer Kiosk
- Audio visual section
- UG reading hall
- Bound journal section
- Library office
- Senior Librarian room
- Daftaries room
- Photocopy (Xerox) section
- Librarian room
- Internet section/Medline section for Staff and Students

Level 2 (First Floor)

- Librarian Room
- PG reading hall

Level 3 (Second Floor)

- PG/UG reading hall
- Current periodicals section
- Binding room

2.3.6 Resources

Total No. of books (as on 10-7-2012):38655

Total No. of Journals subscribed for the year 2012: 290

Indian (44) International (246)

Medical -233

Dental-44

Nursing -13

No. of back volumes (Indian: 1850, Foreign: 19473): 21323

e-Resources

Online Databases :4 (MDConsult, Ovid, Wiley, EBSCO)

Online Journals: 1300

Online Books: 525

2.3.7 Library Intranet

The Central Library of Kasturba Medical College, Mangalore computers are connected to LAN of our college. Therefore, the readers can access our online books/journals throughout the campus wherever our college LAN is enabled.

2.4 Central Library (MIT)

2.4.1 Overview

The Central Library of Manipal Institute of Technology is located in the heart of the institution and therefore is easily accessible to the departments, classrooms and hostels. The three-floor library is fully air-conditioned and occupies a total area of about 70,000 square feet. It can accommodate 800 users at a time. The books both technical and general, journals, magazines and their back volumes, DVD's, are available for the use of faculty members and students of the institute. The library is Wi-Fi enabled and has a security system with Closed Circuit Television System (CCTV).

2.4.2 The Users

The faculty members and students of the following institutions use the Central library:

1. Manipal Institute of Technology, Manipal
2. Manipal Centre for Information Sciences, Manipal
3. International Centre for Applied Sciences, Manipal.

2.4.3 Contact

DrRekha DPai

Senior Librarian

Tel: (91-820) 2924451, Fax: (91-820) 2571071E-mail: lib.mit@manipal.edu

2.4.4 Library and Information Services

The library provides both demanding and anticipatory library services to the users. The services provided are:

1. Lending service
2. Reference service
3. Current awareness service
4. Text Book Service
5. Book bank service
6. Photocopying service.
7. Inter library loan service
8. CDROM service

9. Newspaper service
10. Online journals
11. Question paper service
12. Internet/Wi Fi service

1.4.5 Library Resources

Collection	Total (As on 30.06.2012)
Books	99005
Book bank books	9615
Journals subscribed	318
Online journals	1140
Back volumes of journals	10460
CDs	3700
Video cassettes	764

2.4.6e-Resources

- IEEE/IEE online (IEL online)
- ASCE digital Library
- ACM digital Library
- ASME digital library
- Science Direct
- Springer Link
- Indian Standards

2.4.7 Library Intranet:

A link to library web page is given in the intranet of the Manipal University.

<http://muportal>

2.4.8 Digital subscriptions:

By clicking the above hyper link, the users can access the various links to online journals, catalogue, question papers etc.

1.4.9 E-PAC (Electronic Public Access Catalogue) helps the users in searching the various documents available in the library. Each user can check his/her account for fine or any other details.

ANNEXURE 5.2

DETAILS OF STUDENT SCHOLARSHIP - 2011-12

SL #	Institution	# of students	Name of scholarship	Amount
1	WGSHA	4	AICTE Fee Waiver	432,000
2	KMC, Mangalore	2	Service agreement 50per cent fees waiver	709,500
3	MCOPS	8	Scholarship to PhD Students	1,705,574
4	MCON, Manipal	26	50per cent Tuition Fee waiver - Sikkim Govt. sponsored students	1,599,000
5	SOIS	36	50per cent Tuition fee waiver	1,730,500
		1	Manipal Dot Net Sponsored Students	149,000
6	Department of Atomic and Molecular Physics	4	Scholarship to PhD Students	350,452
7	SOLS	13	Scholarship to PhD Students	1,628,523
8	SOAHS, Manipal	1	Scholarship to PhD Students	196,000
		4	100per cent Tuition Fee waiver - BSc, MRT students	360,000
		38	50per cent Tuition Fee waiver - Sikkim Govt. sponsored students	2,280,000
9	Manipal University	2	Scholarship to PhD Students	267,742
		193	Scholarship to AGE Students	2,188,575
		2	Scholarship to G Shankar family trust sponsored student	33,375
10	SORM, Bangalore	4	Scholarship to PhD Students	318,693
11	MIT, Manipal	10	Scholarship to PhD Students	836,786
		344	AICTE Fee Waiver	29,088,000
12	KMC Manipal	2	Service Agreement 60per cent Waiver on Programme Fee	979,200
		1	Service Agreement 100per cent Waiver on Tuition Fee	374,000
		3	Service Agreement 50per cent Waiver on Programme Fee	1,297,500
		2	1st year 100per cent Fee Waiver	1,826,000
		3	Scholarship to PhD Students	228,542
	Total	703		48,578,962

Other Scholarships under Manipal University

Manipal University	227	Freeship	63,234,500
	503	Konkani Scholarship	6,394,452
	159	Scholarship to Staff Child	10,389,600
Total	889		80,018,552
Grand Total	1592		128,597,514

DETAILS OF STUDENT SCHOLARSHIP - 2012-13

SL #	Institution	# of students	Name of scholarship	Amount
1	WGSHA	4	AICTE Fee Waiver	456,000
2	KMC, Mangalore	1	Tuition fee waiver	181,800
3	SOC	1	Scholarship to PhD Students	79,467
4	MCOPS	13	Scholarship to PhD Students	1,869,612
5	MCON, Manipal	3	Scholarship to PhD Students	319,302.00
		26	Tuition fee waiver to Sikkim Government Sponsored students	1,690,000.00
6	SOIS	41	50per cent Tuition fee waiver	2,039,500.00
		3	Manipal Dot Net Sponsored Students	447,000.00
		1	Scholarship to PhD Students	79,467.00
7	Department of Atomic and Molecular Physics	6	Scholarship to PhD Students	876,162
8	SOLS	14	Scholarship to PhD Students	2,625,266
9	SOAHS, Manipal	4	Scholarship to PhD Students	436,048
		1	100per cent Tuition Fee waiver	75,000
		20	50per cent Tuition Fee waiver - Sikkim Govt. sponsored students	1,230,000
10	Manipal University	11	Scholarship to PhD Students	1,254,286
		261	Scholarship to AGE Students	5,239,750
		2	Scholarship to G Shankar family trust sponsored student	32,875
11	SORM	7	Scholarship to PhD Students	1,023,093
12	MIT, Manipal	21	Scholarship to PhD Students	2,522,307
		320	AICTE Fee Waiver	31,375,000
13	KMC Manipal	2	Fee Waiver 100%	1,796,000
		2	60per cent Waiver on Programme Fee	1,038,000
		4	50per cent Waiver on Programme Fee	2,294,000
		11	Scholarship to PhD Students	1,176,224.00
	Total	779		60,156,159

Other Scholarships under Manipal University

	Manipal University	226	Freeship/Merit-cum-means Scholarship	57,444,750
		642	Konkani Scholarship	9,843,145
		200	Scholarship to Staff Child	30,455,400
		9	K Mohan and Lata Bhandarkar Merit Cum Means Scholarship	325,000
	Total	1077		98,068,295
	Grand Total	1856		158,224,454

DETAILS OF STUDENT SCHOLARSHIP - 2013-14

SL #	Institution	# of students	Name of scholarship	Amount
1	DEPARTMENT OF ALLIED HEALTH SCIENCE	2	AGE SCHOLARSHIP	15,200
2	DEPARTMENT OF COMMERCE	15	AGE SCHOLARSHIP	66,200
		1	SAGES	19,000
3	DEPARTMENT OF LIBRARY SCIENCE	1	AGE SCHOLARSHIP	3,500
4	DEPARTMENT OF PUBLIC HEALTH	5	AGE SCHOLARSHIP	23,500
5	DEPARTMENT OF SCIENCE	53	AGE SCHOLARSHIP	268,300
		5	SAGES	127,500
6	DEPARTMENT OF STATISTICS	2	AGE SCHOLARSHIP	15,000
7	DEPARTMENT OF ATOMIC	1	AGE SCHOLARSHIP	4,800
8	FOA, MANIPAL	3	AGE SCHOLARSHIP	31,400
		5	SAGES	125,000
9	KMC, MANGALORE	1	AGE SCHOLARSHIP	62,600
10	KMC, MANIPAL	14	AGE SCHOLARSHIP	125,400
		11	SAGES	4,073,375
		7	SERVICE AGREEMENT	4,729,000
11	MCODS, MANIPAL	2	SAGES	87,600
12	MCON, MANIPAL	4	AGE SCHOLARSHIP	91,750
13	MCOPS, MANIPAL	2	AGE SCHOLARSHIP	34,900
		5	SAGES	412,275
14	MIT, MANIPAL	30	AGE SCHOLARSHIP	320,900
		106	AGE-BTECH LATERAL STUDENTS	2,899,375
		37	SAGES	3,869,425
		328	AICTE TUITION FEE WAIVER	37,181,000

15	SOAHS, MANIPAL	8	AGE SCHOLARSHIP	187,500
		4	FEE WAIVER TO SIKKIM GOVT SPONSORED STUDENTS	240,000
		1	SAGES	83,250
		2	SERVICE AGREEMENT	125,000
16	SOC, MANIPAL	4	AGE SCHOLARSHIP	45,300
17	SOIS, MANIPAL	3	100% TUITION FEE WAIVER FOR SOIS STUDENTS	417,000
		27	50% TUITION FEE WAIVER FOR SOIS STUDENTS	1,364,000
		8	AGE SCHOLARSHIP	132,800
18	SOJM, MANIPAL	3	AGE SCHOLARSHIP	12,000
19	SOLS, MANIPAL	4	AGE SCHOLARSHIP	40,600
		1	SAGES	44,750
20	SOM, MANIPAL	16	AGE SCHOLARSHIP	401,300
		1	SAGES	131,000
21	SON, MANGALORE	1	AGE SCHOLARSHIP	22,000
22	WGSMA, MANIPAL	1	SAGES	22,000
	TOTAL	724		57,855,500

Other Scholarships under Manipal University

	MANIPAL UNIVERSITY	124	FREESHIP	36,567,500
		3	G SHANKAR FAMILY TRUST	172,521
		33	INTEREST SUBSIDY ON EDUCATION LOAN	389,774
		667	KONKANI SCHOLARSHIP	12,866,785
		7	KUNDAPUR MOHAN & LATA BHANDARKAR SCHOLARSHIP	225,000
		116	M-C-M SCHOLARSHIP	15,519,700
		274	STAFF CHILD/SPOUSE SCHOLARSHIP	47,635,326
	TOTAL	1224		113,376,606
	Grand Total	1948		171,232,106

DETAILS OF STUDENT SCHOLARSHIP - 2014-15

SL #	Institution	# of students	Name of scholarship	Amount
1	DEPARTMENT OF ALLIED HEALTH HOSPITALITY	1	SAGES	62,700
2	DEPARTMENT OF COMMERCE	18	AGE SCHOLARSHIP	115,650
		9	SAGES	641,150
3	DEPARTMENT OF PHILOSOPHY	1	SAGES	32,300
4	DEPARTMENT OF PUBLIC HEALTH	1	AGE SCHOLARSHIP	4,700
		2	SAGES	89,850
5	DEPARTMENT OF SCIENCE	56	AGE SCHOLARSHIP	292,900
		7	SAGES	256,050
6	DEPARTMENT OF STATISTICS	3	AGE SCHOLARSHIP	22,500
7	FOA, MANIPAL	2	AGE SCHOLARSHIP	22,600
		6	SAGES	777,625
8	KMC, MANGALORE	1	AGE SCHOLARSHIP	62,500
		5	SAGES	2,402,600
		1	SERVICE AGREEMENT	50,000
9	KMC, MANIPAL	10	AGE SCHOLARSHIP	90,825
		20	SAGES	7,229,875
		7	SERVICE AGREEMENT	3,727,200
10	MCODS, MANIPAL	3	SAGES	938,100
11	MCON, MANIPAL	3	AGE SCHOLARSHIP	70,000
		2	SAGES	186,900
12	MCOPS, MANIPAL	4	AGE SCHOLARSHIP	66,500
		8	SAGES	1,253,000
13	MIT, MANIPAL	37	AGE SCHOLARSHIP	528,500
		104	AGE-BTECH LATERAL STUDENTS	6,261,375
		309	AICTE TUITION FEE WAIVER	42,076,000
		124	SAGES	24,273,270
14	SOAHS, MANIPAL	13	AGE SCHOLARSHIP	265,250
		8	SAGES	612,850
		2	SERVICE AGREEMENT	205,000
15	SOC, MANIPAL	3	AGE SCHOLARSHIP	28,900
16	SOIS, MANIPAL	8	AGE SCHOLARSHIP	106,000
		1	SAGES	65,450
17	SOJM, MANIPAL	2	AGE SCHOLARSHIP	7,800
18	SOLS, MANIPAL	3	AGE SCHOLARSHIP	39,700

19	SOM, MANIPAL	18	AGE SCHOLARSHIP	471,600
		4	SAGES	796,150
	TOTAL	806		94,133,370

Other Scholarships under Manipal University

	MANIPAL UNIVERISITY	199	FREESHIP/M-C-M	44,503,850
		6	G SHANKAR FAMILY TRUST	225,397
		33	INTEREST SUBSIDY ON EDUCATION LOAN	435,461
		776	KONKANI SCHOLARSHIP	15,924,030
		10	KUNDAPUR MOHAN & LATA BHANDARKAR SCHOLARSHIP	325,000
		65	M-C-M SCHOLARSHIP	3,111,000
		291	STAFF CHILD/SPOUSE SCHOLARSHIP	51,683,631
	TOTAL	1380		116,208,369
	Grand Total	2186		210,341,739

ANNEXURE 5.3

**GRIEVANCE REDRESSAL COMMITTEE (STUDENTS) OF MANIPAL
UNIVERSITY, MANIPAL**

Ref: Decision taken at the Executive Committee meeting held on November 9, 2012



Guidelines on Grievance Redressal Committee (Students) of Manipal University, Manipal

1) Purpose

To address the grievances of students or parents in constituent institutions of Manipal University, Manipal

2) Registering Grievances

All aggrieved students, their parents and others can approach the Chairperson of the Grievance Redressal Committee of Manipal University in the first instance and if they are not satisfied with the decision of the Committee, they may send their appeals to the “Ombudsman” directly.

3) Applicability

The Guidelines are applicable to all the constituent institutions/teaching departments/research centres of Manipal University, Manipal.

4) Formation of Grievance Redressal Committee

University has formed Grievance Redressal Committee (Students) at Manipal University, Manipal, comprising the following officials:

1.	Director Student Affairs Phone: +91 820 2922035 E-mail: dsa.mahe@manipal.edu	:	Chairperson
2.	Director Admissions Phone: +91 820 2922499 E-mail: dradm@manipal.edu	:	Member
3.	Head of Institution concerned	:	Member
4.	Legal Officer, Phone: +91 820 2922434 E-mail: legal.mahe@manipal.edu	:	Member
5.	Area Representative concerned (based on the grievance) (Chief Warden/Director Finance/Registrar- Evaluation et al.)	:	Member

5) Scope of the grievances addressed

Grievances may include the following complaints of the aggrieved students namely:

- 5.1 Making admission contrary to merit determined in accordance with the declared admission policy of the institute.
- 5.2 Irregularity in the admission process adopted by the institute
- 5.3 Refusing admission in accordance with the declared admission policy of the institute
- 5.4 Withhold or refuse to return any document in the form of certificates of degree, diploma or any other award or other document deposited with the institution concerned by a person for the purpose of seeking admission in such institution, with a view to induce or compel such person to pay any fee or fees in respect of any course or programme of study which such person does not intend to pursue
- 5.5 Demand of money in excess of that specified in the declared admission policy or approved by the competent authority to be charged by such institution
- 5.6 Breach of the policy for reservation in admission as may be applicable
- 5.7 Complaints of alleged discrimination by students from SC/ST/OBC, women, minority or disabled categories
- 5.8 Nonpayment or delay in payment of scholarships to any students that such institution is committed under the conditions.
- 5.9 Delay in conduct of examinations or declaration of results beyond that specified time in the academic calendar
- 5.10 On provision of student amenities as may have been promised or required to be provided by the institution
- 5.11 Non transparent or unfair evaluation practices
- 5.12 Harassment and victimization of students including sexual harassment and

6) Grievance Redressal Procedure (GRP) (Refer Flow Chart):

- 6.1 On receipt of an application by the registry, the employee in charge shall inform within three working days to the Ombudsman and shall immediately provide a copy to the Grievance Redressal Committee (GRC) for processing and submitting its report.

6.2 The GRC after due deliberations, including interaction with the aggrieved, will submit its final report within seven working days from the date of receiving the application forwarded as per sub clause (6.1).

6.3 MU will inform the decision of the Grievance Redressal Committee through E-mail/in hard copy to the complainant within four working days of receiving the same, with a copy to the Ombudsman.

6.4 In case the complainant is not satisfied with the decision, he/she can submit an application to the Ombudsman appealing against the decision of the Grievance Redressal Committee within four working days of receiving the decision.

6.5 On receipt of appeal, the Ombudsman shall fix a date within five working days for hearing the complaint, which shall be communicated to the University and the aggrieved persons either in writing (hard copy) or electronically (e-mail), as may be feasible.

6.6 On the conclusion of the hearing proceedings, the Ombudsman shall pass such order, with reasons for such order, as may be deemed fit to redress the grievance and provide such relief as may be desirable to the affected party at issue within two working days of completing the hearing through E-mail or Hard copy, as may be feasible.

7) Guidelines related to Grievance Redressal Process

7.1 An aggrieved person may appear either in person or represented by such person as may be authorized to present his case.

7.2 The Ombudsman shall be guided by principles of natural justice while hearing the grievance

7.3 The Ombudsman shall ensure disposal of every application as per the timelines specified in GRP (Clause 6.0) for speedy redress of grievance.

7.4 The University/constituent institutions/departments/research centres concerned are expected to co-operate with the Ombudsman in redressal of grievances and the authorities.

7.5 Every order under Clause 6.0 sub clause (6), under the signature of the Ombudsman, shall be provided to the aggrieved person and the institution/department/centre.

7.6 The institution/department/research centre concerned shall comply with the order of the Ombudsman.

7.7 Any order of the Ombudsman not complied with by the institution/department/centre shall be reported to the MU for appropriate action as deemed fit by MU.

7.8 A complaint shall be filed by the aggrieved student, his/her parent or with a special permission from the Ombudsman, by any other person.

7.9 In case of any false/frivolous complaint, the ombudsman may order appropriate action against the complainant.

7.10 The principles and procedures outlined above shall apply to the working of the Grievance Redressal Committee in the constituent institution/department/centre

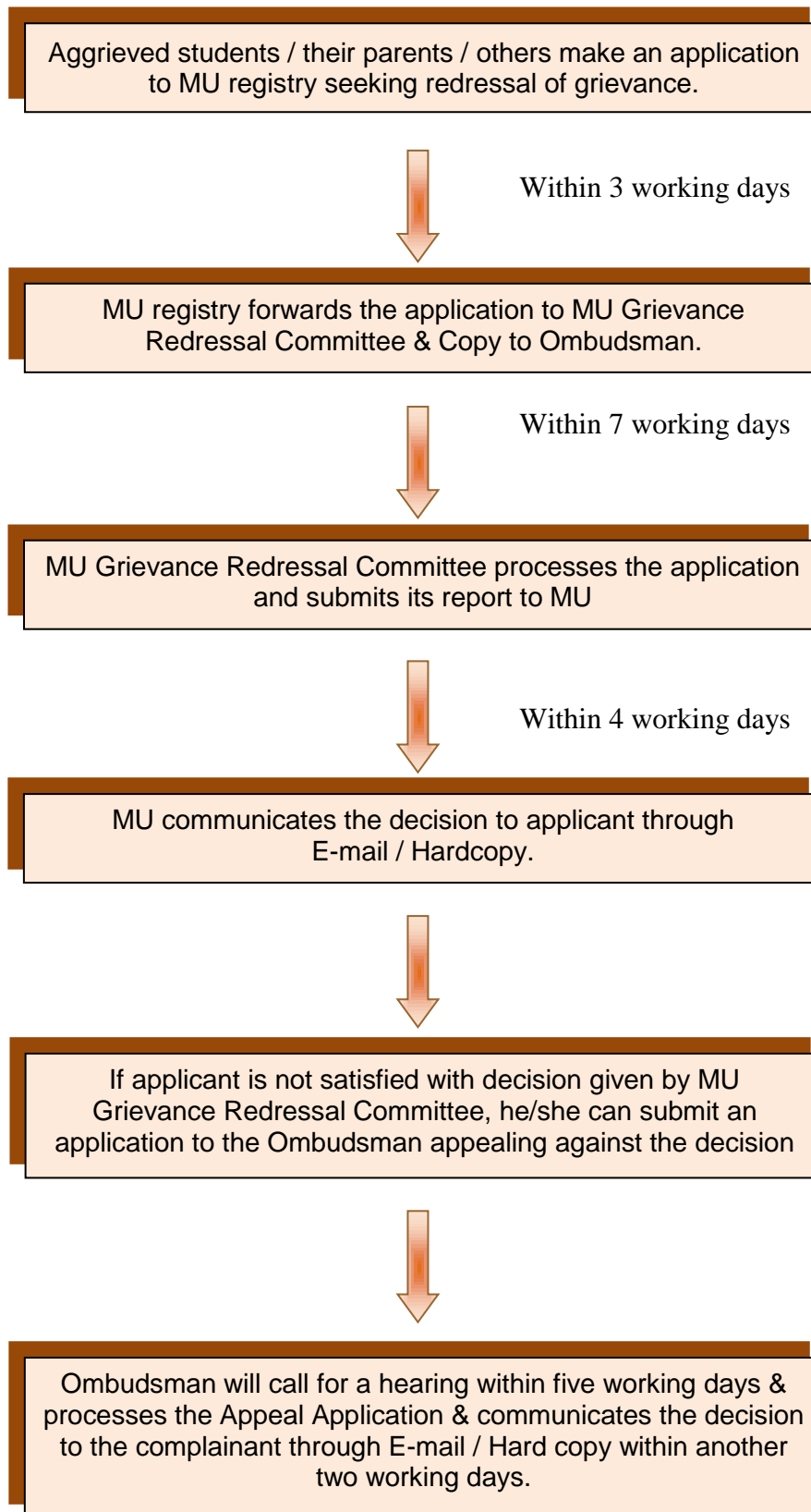
7.10.1 In case of lack of unanimity, the Grievance Committee shall take decisions by majority;

7.10.2 The Grievance Committee shall communicate its decisions within seven days of receipt of complaint.

7.11 Detailed information regarding provisions of grievance redressal mechanism, ombudsman and the duties and rights of students will be provided in handbook provided for students when they join the institution.

8) Ombudsman:

The University is in the process of selection of Ombudsman. Once appointed the same will be communicated for information of all.

Flowchart of Grievance Redressal Procedure (Students)

ANNEXURE 5.4

**DETAILS OF VARIOUS SPORTS AND CULTURAL ACTIVITIES ORGANIZED BY
INSTITUTES/SCHOOLS****KMC MANIPAL****Activities/Events Organized :**

1. VERVE – KMC Annual Inter-batch Sports and Cultural Fest
2. FLAVA – Annual Inter-State Food Fest and Cultural Events
3. VIBES – KMC Annual Inter-batch Literary Competitions
4. Blood Donation Camp – In memory of late Saurabh Chandel, MBBS student
5. MBO – Manipal Box Office – Annual KMC Movie Fest.
6. Visit to Orphanages
7. Fund raising for poor patients by various activities.

KMC MANGALORE**Activities/Events Organized :**

- i. Interclass cultural events.
- ii. Manipal University Intercollegiate cultural festival UTSAV.
- iii. Ganesh Chaturthi Celebrations.
- iv. Independence and Republic day Celebrations.
- v. Synergy.

MCOADS MANIPAL

HUES (annual inter batch cultural fest), College day, Inter college festivals, sports events are conducted, where students of MCOADS take part in intercollege and inter university events. Students are also encouraged to participate in similar events organized by other universities or colleges too.

MCOADS MANGALORE

Dental week, College day, Inter college festivals, sports events are conducted, where students of MCOADS take part in intercollege and inter university events. Also students are encouraged to participate in similar events organized by other universities too. During the 25th year celebration of MCOADS, Mangalore the students were actively involved in the academic and cultural celebrations and have brought out a silver jubilee magazine, dental week brochure etc.

the students are encouraged to contribute to the local newspapers in the column “arogya vani” enriching the public of the oral health issues.

MCON MANIPAL

Cultural and extracurricular activities

2009

- Conducted Onam competitions and IMPRINTZ.
- Education committee of SNA conducts
 - Creative writing
 - Calligraphy
 - Greeting card making
 - Essay Writing
 - Poetry and story writing
- Conducted MEGA IMPRINTZ in valley view. It was a 2 hour cultural programmes organized and performed by students of MCON.
- Participated in Manipal University-UTSAV.
- Performed a dance at KELI

2010

- Conducted Onam competitions & IMPRINTZ
- Education committee of SNA conducts
 - Creative writing
 - Calligraphy
 - Greeting card making
 - Essay Writing
 - Poetry and story writing
- Performed at Udupi Utsav
- Performed a dance at National Conference organized by MCOPS.
- Performed in MCON annual day.
- Participated in Manipal University UTSAV,

- Performed a song at Plastic Surgery Conference.
- Students took part in KELI

Sports and Games

Institution encourages students to participate actively in extra-curricular activities. The various sports and games are conducted every year in the college.

The Intra College competitions conducted include:

- Chess
- Caroms
- Volley ball
- Throw ball
- Badminton and annual sports day.

All the above competitions are conducted every year.

The students also participated for: inter college competitions such as:

- Inter-college badminton
- Inter-college basket ball
- Inter-college volley ball
- Inter-college cricket
- Inter-college throw ball
- Inter-college chess
- Inter-college swimming
- Inter-college athletics

SOM MANIPAL

Inter Collegiate Sports and Games events, Annual Sports meet, Parichy, Utsav(Inter Collegiate Cultural Fest), Kurkshetra, Inter B-School sports meet

MMMC MANIPAL

The institute conducts inter-batch cultural competitions annually that include literary, dance and music events. A cultural committee is appointed to organize and oversee the smooth conduct of the cultural events pertaining to the college. The committee comprises of a student

body i.e. the student council and the faculty body consists of faculty coordinators. The student council takes the onus in organizing these competitions.

□The aim of the College Cultural Committee is to provide a platform for students and faculty members to exhibit their talents and also to instill good sportsmanship. Through the various events organized by the Committee the students learn to work as a team and are encouraged to overcome their inhibitions.

□The winners of these events will represent the institution in the inter-collegiate university cultural fest UTSAV.

□The college encourages its students in both organizing and taking active part in the various athletic, indoor and outdoor sport events. The University has spacious playground for each sport event and indoor sports complex, named Marena, which has state-of-the-art in-door sports facilities and a gymnasium with trainers for optimum benefit to the students. A well maintained and hygienic swimming pool is also available for the students and staff. Competitions are categorized under men, women and mixed (wherever applicable). There are physical directors who help the students in finetuning their skills to prepare them for different tournaments.

□A body consisting of three members from the staff is appointed as sports coordinators.

□A student coordinator elected by student council who informs all the students through the respective class representatives regarding the upcoming events, and in organizing sports events. Meetings are held with staff coordinators on a regular basis.

□The faculty members and student coordinators are involved in selecting the students who will represent the college team in the various events, based on their performance in the college level tournaments. Competitions in each sport are held at various levels.

COLLEGE LEVEL TOURNAMENTS

Under this category of sports events, students within the college from various batches compete against each other and gather points for winning and being runner's up.

1. Inter-batch
2. Supremo games
3. North – south games
4. Cultural and sports award day

The college organizes a Sports awards day”, to honor the inter-batch winners.

UNIVERSITY LEVEL TOURNAMENTS

1. Inter-collegiate
2. Intermedics
3. Inter-university

SOIS MANIPAL

SOIS conducts annual Sports day and Cultural day. Students get opportunity to showcase their talent and skill in addition to their academic skill

MCOPS MANIPAL

Every year intra and inter collegiate sports and cultural activities are conducted. Intra-college sports activities are called “Athlos” and cultural as “Sanskriti”.

MIT MANIPAL

Cultural activity: Major: UTSAV: Organized by Manipal University in April every year – An intra-university cultural fest

REVELS – National level cultural fest- In the month of March every year at MIT

Other: Music and Fine arts club conducts cultural events every semester.

Extracurricular: Major-TECHTATVA: National level Technical fest in the month of September/October every year

Technical clubs like I.E, IEEE, SAE etc. conducts technical activities every semester.

Sports activities:

1. Both In-door and Out-door games/sports are available to students.
2. All the sports activities at Manipal University are conducted under the supervision of the University Sports Council. The main function of the University Sports Council is to organize the inter-college sports events among the students of constituent colleges and select the best among them for the University team to represent the university at inter-university tournaments. It also organizes staff sports events annually. At each Institution, sports department is headed by Director, sports.

ANNEXURE 6.1

LIST OF COMMITTEES IN MANIPAL UNIVERSITY AND ITS DETAILS

#	Name of the Committee	Chairperson	Custodian of documents	Objective	Frequency of meeting	Composition of the Committee
1	Academic Senate	Vice-Chancellor	Registrar	As per the MoA Clause 10	Not less than three times during the academic year.	As per the MoA Clause 10
2	Board of Management	Chancellor, MU	Registrar, MU	As per the MoA Clause 6.2	Four times a year	As per the MoA Clause 6.2
3	Board of Studies	Head of the Dept /Institution of individual subject / courses	Deputy Registrar, Academics (Health Sciences / Technical)	As per the MoA Clause 14	Twice in a year and additional meeting will be conducted with the approval of the University	As per the MoA Clause 14
4	Central Condemnation Board for IT products	Presiding Officer	I/c Network Administrator	To ascertain the serviceability of IT Products, viz., computers, printers, peripherals, spares and accessories and recommend re-use/disposal of items condemned by the Institutional Condemnation Boards ordered by the respective institutional heads	As and when required	Col. Badrinarayanan, Director Purchase and General Services, MU – Presiding Officer <u>Members</u> 1. Mr. Sathish Kamath, I/C Network Administrator, IS, Manipal University 2. Mr. Bhaskar Prabhu, Special Officer, Finance, Manipal University 3. Mr. Preetham Kumar, I/C System Administrator, CCF, MIT 4. Mr. Lokesh Devadiga, Systems Operator, IS, Manipal University
5	Core Committee for Quality	Pro Chancellor	Integrated Management Representative	Plan, implement - Quality & Environment	As and when required	Pro Chancellor, Integrated Management Representative &

				management Systems and achieve Quality / Environment Objectives of the university		Deputy Integrated Management Representatives (Manipal & M'lore campus)
6	Cultural Co-Ordination Committee	A person nominated by the EC	Chairman, CCC	Plan and organize the cultural programme among the students of the University	4 times in a year / as and when required	Chairman - A person nominated by the EC,. Vice Chairman – Director Student Affairs, Secretary - A person nominated by the EC and Members – Institutional Cultural Coordinators
7	Endowment Fund Committee	Vice-Chancellor	Director Planning	Financial support to the needy patients, purchase of Medical equipment, additional facilities/ services in the hospital and treatment of patients with specific diseases.	Once in 3 months	
8	Examination Committee	Vice Chancellor	Registrar-Evaluation	To review and discuss all examination related matters	Once or Twice in an academic year	Pro Chancellor, Vice Chancellor, Pro Vice Chancellors, Registrar, Registrar Evaluation, Dy. Registrar Evaluations, Heads of Institutions
9	Examination Grievances Committee	Registrar-Evaluation	Registrar-Evaluation	To hear any grievances from the students/examiners/staff etc. regarding examinations	As and when grievances are represented	Registrar Evaluation and Dy. Registrar Evaluation
10	Executive Committee (EC)	Chancellor, MU	Registrar	As per the MoA Clause 8.1	Four times in a year	Chancellor, Pro Chancellor, Vice Chancellor, Pro Vice Chancellors, Director Q & C, Director Finance and Heads of constituent Units of

						MU at Manipal and Mangalore campuses
11	Faculty Selection Committee	Vice-Chancellor	Dy. Director (HR)	As per the MoA clause 13	As and when required	ViceChancellor - Chairman Members Pro Vice Chancellors, Registrar - Secretary Head of the concerned Institution(s) Head of the concerned Department(s) The External expert (<i>in case of promotion to the cadre of Professor/ Additional Professor</i>)
12	Fee Fixation Committee	Appointed by Board of Management	Registrar / Director Finance	Fees fixation (As per the MoA clause 36.2)	Once in 3 years	As per the MoA clause 36.2
13	Finance Committee	Vice-Chancellor	Director Finance	As per the MoA Clause 11	Twice in a year	As per the MoA Clause 11
14	General Services Committee	Chancellor	Director, General Services	Plan, monitor and implement on campus maintenance services. As per the MoA Clause 8.1	As and when required.	
15	Grievance Committee	Chancellor / Pro Chancellor	Legal Officer / HR Dept.	As per the MoA Clause 15	As when need arise.	Chancellor/ Pro Chancellor – Chairman Registrar – Secretary Members Vice Chancellor, Director Finance, Director Student Affairs, Deputy Director – HR, Legal Officer, Head of Institutions
16	Grievance Committee (Students)	Director Student Affairs	Director Student Affairs office	To address the grievances of students or parents in constituent institutions of Manipal University, Manipal.	As and when required.	Director Student Affairs - Chairperson Director Admissions, Head of Institution concerned, Legal Officer, Area Representative concerned (<i>based on the grievance</i>)

17	Grievance Committee pertaining to Sexual Harassment	Appointed by MU Executive Committee	Member Secretary	To look into complaints of sexual harassment from MU staff & students	As and when required.	<ol style="list-style-type: none"> 1) Dr. Indira Bairy, Director, Student Affairs, MU – Chairperson 2) Dr. G. Pradeep Kumar, Associate Dean, KMC, Manipal - Member Secretary 3) Dr. Lavanya Rai, Professor of OBG, KMC, Manipal - Member 4) Dr. Vinod V. Thomas, Director, MIT, Manipal - Member 5) Dr. Unnikrishnan, Dy. Dir Student Affairs, Mangalore campus – Member 6) Dr. Shalini Shenoy M., Professor of Microbiology, KMC, Mlore - Member 7) Dr. Vidya Pratap, Associate Professor, TAPMI, Manipal - Member
18	Hostel Management Committee	A senior person nominated by the Management	Chief Warden, MU	As per the MoA Clause 8.1	2 times in a year	<ol style="list-style-type: none"> 1) Mrs. Vasanthi R Pai – Chairperson 2) Dr. G K Prabhu – Registrar 3) Chief Warden, MU – Secretary 4) Director Student Affairs – member 5) Director Projects 6) Dean – KMC, Manipal 7) Dean – MCOADS, Mpl 8) Director – MIT, Manipal 9) Dean – KMC, Mlore 10) Chief Warden, MIT 11) Chief Warden, Mlore 12) Director, General Services 13) Director Finance 14) Chief Security Officer

						15) Deputy Director HR 16) Personnel Officer 17) Estate Officer 18) General Manager, MSFM
19	Housing Committee	Pro Chancellor	Member Secretary	Authority for allotment of quarters	As and when required	Pro Chancellor- Chairman <u>Members</u> Vice Chancellor, Pro Vice Chancellors, Registrar, Dean, KMC, Manipal, Dean, KMC, Mangalore, Director, MIT, Manipal, Medical Superintendent, Kasturba Hospital, Manipal, Medical Superintendent, KMC Hospital, Attavara, Mangalore Director General Services- Member Secretary <u>Rotation basis members</u> Director, MCIS, Manipal, Director, MLSC, Manipal, Director, MIJM, Manipal
20	Intellectual Property Advisory Board	Pro Vice Chancellor	Convener of IPAB	To facilitate protection and upliftment of intellectual properties generated during the scientific pursuit (of knowledge/ resource) in the University and offer scope for ingenuity and commercialization	As and when required	Pro Vice Chancellor - Chairperson Members Dr. G K Prabhu, Registrar Dr. K Satyamoorthy, Director, MLSC Dr. N Udupa, Principal, MCOPS Dr. Manohar Pai M M, Associate Director (Innovation Centre), MIT Dr. Raviraj Adhikari, Associate Director (R & D), MIT HoI of the concerned Institute Mr. Chandrashekar Prabhu, Legal Officer - Convener

21	Joint Review Committee to monitor MSFM services	Pro Vice Chancellor	Convener	For monitoring the delivery of services by MSFM		Pro Vice Chancellor– Chairperson <u>MU Members</u> Registrar, Director General Services- Convener Deputy Director – HR <u>MSFM Members</u> Chief Executive Officer, General Manager, Manipal General Manager, Mangalore
22	Malpractice Enquiry Committee ¹	Registrar-Evaluation / any other person appointed for the specific case	Registrar-Evaluation	To enquire about the malpractice cases	Immediately after case is reported by the Chief Superintendent of MU Institution	1. Registrar Evaluation 2. Dy. Registrar Evaluation 3. Dy. Registrar Academics, Technical
23	Management Review Committee	Pro Chancellor	Integrated Management Representative	Review of Integrated Management initiatives of the university	Once in Six Months	Corporate level: 1. Pro Chancellor 2. Vice Chancellor 3. Pro Vice Chancellors 4. Registrar 5. Integrated Management Representative 6. Director Purchase & Gen. Services 7. Deputy Integrated Management Representatives (Manipal & M'lore campuses) 8. Environment Executive University level: 1. Registrar 2. Integrated Management Representative 3. Deputy Integrated Management Representatives (Manipal & M'lore) campuses) 4. All the Heads of the departments 5. Environment

						<p>Executive 6. Management Executive (Q&C)</p> <p>Institution level: 1. Head of the Institution 2. University representative 3. Quality Management Representative 4. Heads of the departments</p>
24	Monitoring Cell on Ragging	Director Student Affairs	Director Student Affairs	Curbing the menace of ragging in Higher Educational Institution	As and when required	<p>1) Director Student Affairs, Manipal – Chair Person 2) Deputy Director Student Affairs (Health Sciences), MU, Manipal – Member 3) Deputy Director Student Affairs (Technical), MU, Manipal 4) Deputy Director Student Affairs, Mangalore Campus 5) Chief Warden, MU, Manipal 6) Chief Security Officer, MU, Manipal 7) Associate Director, Student Welfare & Hostels, MIT, Manipal 8) Chief Warden, MIT, Manipal 9) Chief Warden, Mangalore Campus 10) Head of Institutions concerned</p>
25	Monitoring Committee for Hombelaku	Registrar	Member Secretary	to review the functioning of Hombelaku, provide oversight & guidance and look into the finances of the Centre	Twice in a year	<p>Registrar – Chairman <u>Members</u> Dean, KMC, Manipal Medical Superintendent, KH, Manipal Director General Services Director Finance Head, Dept of</p>

						Psychiatry, KMC, Manipal- Member Secretary Estate Officer Psychiatric Social Work faculty Incharge of Hombelaku
26	Non-teaching Staff Promotion Committee	Registrar	Dy. Director (HR)/ Registrar	Select the deserving candidate and to promote as per the University promotion policy	As and when situation arises.	Registrar, Manipal University Representative of Heads of the concerned Institution /Department Heads of the respective functional area Experts in respective area Deputy Director – HR
27	PhD Core Committee	Vice-Chancellor	Dy Registrar Acad (Health Sciences / Technical)	Approval of Guide ship / Co-guide ship, change of guide / co-guide, inclusion of new guide, extension of duration, change of thesis title etc.	As and when required	<u>Health Science stream:</u> Vice-Chancellor, Pro Vice-Chancellor, Registrar, Deputy Registrar – Academics (Health Science) <u>Technical stream:</u> Vice-Chancellor, Pro Vice-Chancellor, Registrar, Deputy Registrar – Academics (Technical)
28	PhD Protocol Approval Committee	Vice-Chancellor	Dy Registrar Acad (Health Sciences / Technical)	Approving/ not approving PhD protocol presented by the research candidate	As and when required	<u>Health Science stream:</u> 1) Vice-Chancellor - Chairman 2) Pro Vice-Chancellor 3) Registrar 4) Deputy Registrar - Academics (Health Science) - Convener 5) Dr. K. Sathyamoorthy, Director, MLSC, Manipal 6) Dr. P. G. Shivananda, Chair - Microbiology, MU, Manipal 7) Dr. Sreekumaran Nair, Prof & Head, Dept of Statistics, MU,

					<p>Manipal</p> <p>8) Dr. Pragna Rao, Professor, Dept of Biochemistry, KMC, Manipal</p> <p>9) Dr. M. K. Unnikrishnan, Prof & Head, Dept Of Pharmacy Practice, MCOPS, Manipal</p> <p>10) Head of the Institution (parent institution of the candidate).</p> <p>11) Head of the Department (parent department of the candidate)</p> <p>12) Guide of the candidate</p> <p>13) Co-guide of the candidate</p> <p>14) Subject expert, if necessary</p> <p><u>Technical stream:</u></p> <p>1) Vice-Chancellor - Chairman</p> <p>2) Pro Vice-Chancellor</p> <p>3) Registrar</p> <p>4) Deputy Registrar - Academics (Technical) - Convener</p> <p>5) Dr. Sundar Sarukkai, Director, MCPH</p> <p>6) Associate Director (R & D), MIT</p> <p>7) Dr. Somashekara Bhat, Professor, E & C, MIT, Manipal</p> <p>8) Dr. Asha Kamath, Selection Gr. Lecturer, Dept of Community Medicine, KMC, Manipal</p> <p>9) Head of the Institution (parent institution of the candidate)</p> <p>10) Head of the Department (parent department of the</p>
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						candidate) 11) Guide of the candidate 12) Co-guide of the candidate, if any 13) Subject expert, if necessary
29	Planning and Monitoring Committee	Vice Chancellor	Director, Planning	As per the MoA Clause 12	Once a year	As per the MoA Clause 12
30	Quality Advisory Committee	Vice Chancellor	Member Secretary	To ensure continuous improvement in the entire operations of the institution & to assure stake holders connected with higher education- namely students, parents, teachers, staff, would-be-employers, funding agencies and society in general –of the accountability of the institution for its own quality and probity	As and when required.	Quality Office to provide the details
31	Research Funding Facilitation Cell (RFFC)	A Senior Person nominated by the University	Secretary of the RFFC	Provide support to faculty interested in submitting research project proposals for funding from national and international agencies	As and when required	Dr J Ajith Kumar, Secretary , Dr Balaji Mr Ganesh Kamath Mr Prakash Y Peralam

32	Scientific Advisory Committee	Prof. G. Padmanabhan	Member Secretary	<p>1) Assess the Research progress of Scientists from Manipal Life Sciences Centre.</p> <p>2) Advice on ongoing and future research programs of Manipal Life Sciences Centre.</p> <p>3) Assist in evaluation of existing faculties, recruitment of new faculties.</p> <p>4) Evaluate and advice Health Sciences PhD scholars during poster presentation.</p>	Once in a year	<p>1) Prof. G.Padmanabhan – Chairman</p> <p>2) Prof. M.S. Valiathan – Advisor</p> <p>3) Dr. D. Ramesh babu – Member</p> <p>4) Dr. A. N. Bhisey – Member</p> <p>5) Prof. P.S. Chauhan – Member</p> <p>6) Prof. K.Dharmalingam – Member</p> <p>7) Dr. K.Satyamoorthy – Member Secretary</p>
33	Sports Council	Pro Chancellor	Secretary, SCC	Promote sports activities among the students/ staffs of the University	2 times in a year / as and when situation arise.	<p>Pro Chancellor – Chairman</p> <p>Vice Chancellor – Vice Chairman</p> <p><u>Members</u></p> <p>Pro Vice Chancellor, Registrar, Director Finance, Director Purchase, Director Student Affairs, Head of Institutions, Directors of Physical Education, Sports Advisors of all Institutions</p> <p>Secretary Sports Council – Secretary</p>
34	Staff Selection Committee	Registrar	Dy. Director (HR)/ Registrar	Recruitment of Non Teaching staff including Technical and Para medical staff	As and when situation arises	<p>Registrar- Chairperson</p> <p>Heads of teaching department/Institutions concerned</p> <p>Heads of the concerned Department</p> <p>Deputy Director – HR</p>
35	Student Affairs Committee	Appointed by Board of Management	Secretary, SAC	To have uniformity in handling	Annual or when desired by	<p>Mrs Vasanthi R Pai – Chairperson</p> <p>Director, Student</p>

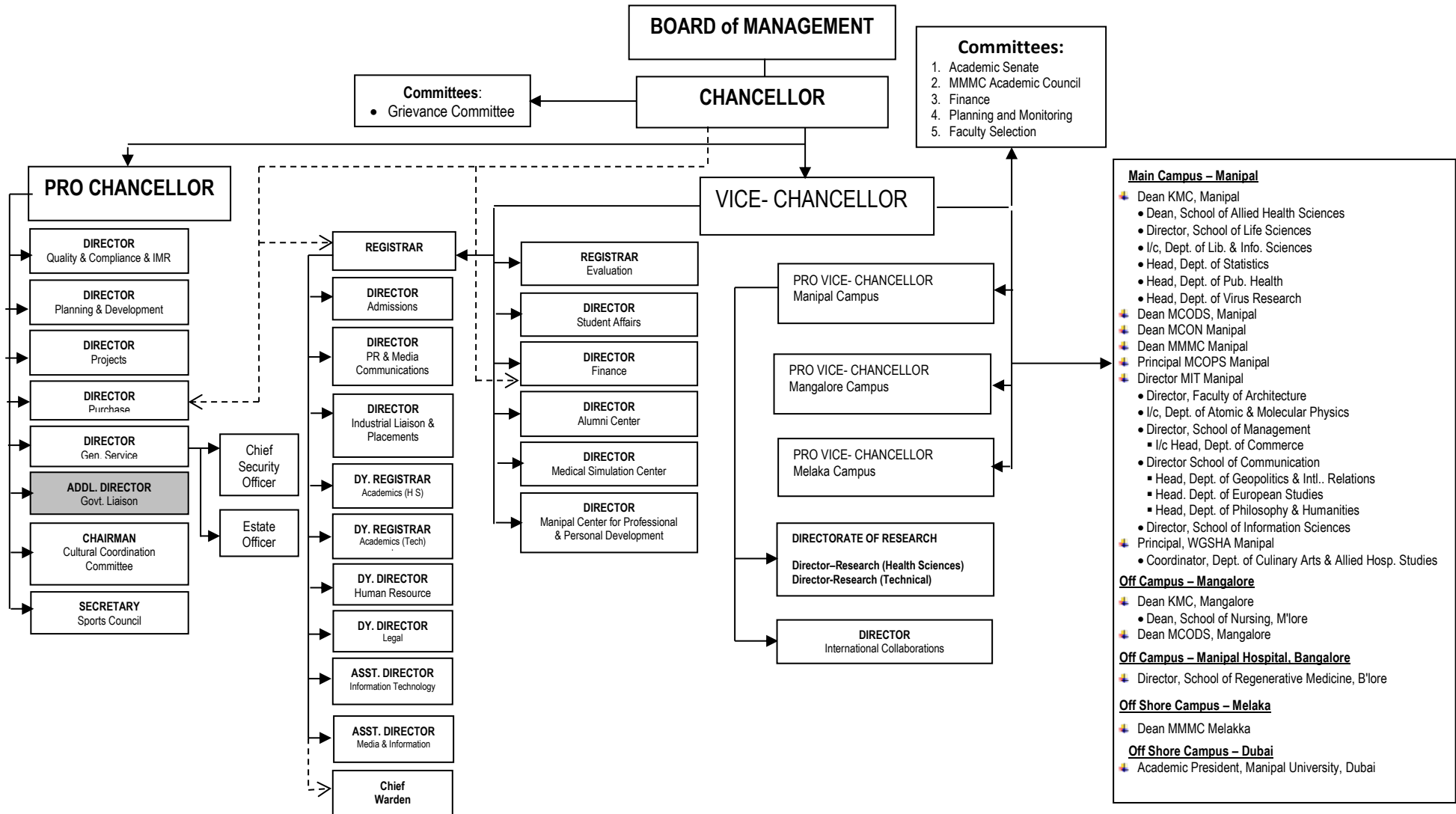
				student issues in all institutions under MAHE	Chairperson of the Committee	Affairs – Secretary Heads of constituent Units, Mpl&Mlore MS, KH, Manipal MS, KMCH, Attavar, M'lore MS, Dr Ambedkar Circle, M'lore Director, General Services, MU Deputy Directors, Student Affairs Deputy Director, Student Affairs, M'lore Associate Director, Student Welfare, MIT Chief Security Officer, MU Chief Wardens, MU, MIT and Mangalore Estate Officer, MU
36	University Ethics Committee	A Senior Person nominated by the University	Member Secretary	Contributing effectively to carry out various research activities involving human subjects	As and when required.	<p>1) Dr. P. S. Prakash, Professor & Head, Dept of Medicine, KSHEMA, Mangalore – Chairperson</p> <p>2) Dr. Anand, Professor and Head, Dept. of PTC, KMC Hospital, Attavar, Mangalore</p> <p>3) Dr. B. Unnikrishnan, Professor and Head, Dept. of Community Medicine, KMC, Mangalore</p> <p>4) Mrs. Sujata D Nayak, 103 KMC Qtrs, Manipal</p> <p>5) Mr. N. Chandrashekar Prabhu, Legal Officer, Manipal University, Manipal</p> <p>6) Dr. K. L. Bairy, Professor & Head, Dept of Pharmacology, KMC, Manipal – Member Secretary</p> <p>7) Dr. Satish Rao, Associate Professor, Dept of Medicine,</p>

						<p>KMC, Mangalore</p> <p>8) Dr. C. Mallikarjuna Rao, Vice Principal, MCOPS, Manipal</p> <p>9) Dr. Ganaraj B, Associate Professor, Dept. of Physiology, KMC, Mangalore</p> <p>10) Dr. Donald Fernandez, Professor and Head, Dept. of Radiotherapy and Oncology, KMC, Manipal</p> <p>11) Mr. K. S. Jaivittal, President, Archana Trust, 143 KMC Staff Quarters, Madhav Nagar, Manipal</p> <p>12) Dr. Shalini Shenoy, Professor of Microbiology, KMC, Mangalore</p> <p>13) Mr. K. B. Rao. Deputy Director – Legal, MU, Manipal</p> <p>14) Mrs. Sadhana Shanbhag, Site Coordinator, MCCR, MU, Manipal (Lay Person)</p>
37	University Selection Committee (HOD)	Pro Chancellor	Dy. Director (HR)	Selection of HoDs; As per EC decision, April, 2010	As and when directed by the EC	<p>Pro Chancellor - Chairman</p> <p>Members</p> <p>Vice Chancellor, Pro Vice Chancellors</p> <p>Registrar – Secretary</p> <p>Head of the concerned Institution</p>
38	University Research Committee	Vice Chancellor			As and when required.	<p>Vice Chancellor- Chairperson</p> <p><u>Members</u></p> <p>Pro Vice Chancellors, Registrar, Director Research (Health Sciences Technical) concerned, Director Finance, Heads of Institutions concerned, P.I of the Research project concerned (if required)</p>

39	Manipal University Curriculum Committee	Vice Chancellor	Dr Animesh Jain, Associate Professor of Community Medicine, Kasturba Medical College, Mangalore	The Manipal University Curriculum Committee has been constituted to enrich and enhance the curricula in all the constituent units of the university. This will be in accordance with the current trends and educational standards in the field of higher education and in line with the goals and vision of the university.	As and when required.	<p>Vice Chancellor, Manipal University, Manipal –</p> <p>Chairperson</p> <p><u>Members</u></p> <p>Dr Vinod V Thomas, Director, MIT, Manipal</p> <p>Dr Sundar Sarukkai, Director, MCPH, MU, Manipal</p> <p>Dr R Venugopal, Director, SOM, Manipal</p> <p>Dr M Manohara Pai, Associate Director (IC), MIT, Manipal</p> <p>Dr Animesh Jain, Associate Professor of Community Medicine, KMC, Mangalore (Convener)</p>
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MANIPAL UNIVERSITY FUNCTIONAL CHART



ANNEXURE 6.3

Department of Quality and Compliance, Manipal University

Quality and Compliance department, Manipal University is working with the following objectives:

1.0 Quality:

- ✓ Implementation of Integrated Management System (IMS) in a phased manner in all the institutions of Manipal University with a focus on its Mission and Vision. IMS shall comprise of implementation of relevant standards, accreditations and practicing Business excellence models and also to develop integrated quality model to encompass all relevant standards
- ✓ To take necessary steps towards sensitization, training and maintain the auditors' pool for Manipal University and its constituent units and to arrange Cross audits at various constituent units and associate hospitals
- ✓ To create an atmosphere to nurture Quality / Environment friendliness as culture
- ✓ To facilitate the sharing of best practices across institutions of excellence at national and global levels and to get a deep insight into the working of our own institutions to understand our strengths and weaknesses, the Quality dept. from time to time, processes and compiles applications for national and international awards and accreditations by various statutory and regulatory bodies

2.0 Compliance:

- ✓ To assist the constituent units to comply with requirements of Statutory / Regulatory / Govt. bodies
- ✓ To organize Academic audits at constituent units.
- ✓ To assist the constituent units in starting new programs and renewal of existing programs
- ✓ To assist University in preparing applications for starting new units /departments / programs.

3.0 Quality and Environment Management:

3.1 Status of ISO certification of Manipal University & its constituent institutions and associated teaching hospitals

#	Name of the institute	Date when first certified for ISO 9001 QMS	Date when first certified for ISO 140001 EMS	Present status
1	Manipal University, Manipal	December 27, 2004	January 23, 2009	Both ISO 9001:2004 & 14001 :2004 were integrated as Integrated Management System(IMS), effective from 26/4/2011 and valid upto 05/04/2014. Recertified and certificate validity is till 2017

2	Manipal College of Nursing , Manipal	April 08, 2005	January 23, 2009	Both the systems integrated with University as above and recertified
3	Manipal College of Pharmaceutical Sciences, Manipal	June 05, 2005	January 23, 2009	-do-
4	Manipal Institute of Technology, Manipal	April 07, 2007	January 23, 2009	-do-
5	Manipal College of Dental Sciences, Manipal	August 28, 2006	January 23, 2009	-do-
6	Welcomgroup Graduate School of Hotel Management, Manipal	August 29, 2006	January 23, 2009	-do-
7	School of Communication, Manipal	July 04, 2007	January 23, 2009	-do-
8	School of Allied Health Sciences, Manipal	August 29, 2006	January 23, 2009	-do-
9	School of Management Manipal	January 07, 2004	January 23, 2009	-do-
10	Kasturba Hospital, Manipal.	June 10, 2004	January 23, 2009	Both the system integrated with University during 2012 and recertified in 2014. Present certificate validity is till 2017.
11	Melaka Manipal Medical College (Manipal Campus)	June 26, 2012	January 23, 2009	Implemented QMS and integrated with University during 2012 and recertified in 2014. Present certificate validity is till 2017.

12	School of Information Sciences, Manipal	June 26, 2012	January 23, 2009	-do-
13	School of Life Science, Manipal	June 26, 2012	January 23, 2009	-do-
14	Faculty of Architecture	June 26, 2012	August 15, 2012	Implemented IMS during 2012 and recertified in 2014. Present certificate validity is till 2017.
15	Dr. TMA Pai Hospital Udupi	June 26, 2012	August 15, 2012	-do-
16	Dr. TMA Pai Rotary Hospital Karkala	June 26, 2012	August 15, 2012	-do-
17	Manipal College of Dental Sciences, M'lore	August 28, 2006	April 10, 2014	Implemented EMS and integrated with University during 2014. Present certificate validity is till 2017.
18	Kasturba Medical College Hospital M'lore	June 10, 2004	April 10, 2014	-do-
19	Kasturba Medical College, Manipal	April 1, 2014	January 23, 2009	Implemented QMS and integrated with University during 2014. Present certificate validity is till 2017.
20	Kasturba Medical College, Mangalore	April 1, 2014	April 10, 2014	Implemented IMS during 2014 and the present certificate validity is till 2017.
21	School of Regenerative Medicine, Bangalore	--	--	Decision for inclusion in IMS will be taken in 2017

4.0 Other Activities:

4.1 Training

Internal auditors training program integrating both ISO 9001:2008 and ISO 14001:2004 Standards was conducted for one batch of 26 participants with the help of lead auditors from M/s TUV Rheinland Pvt. Ltd B'lore between June 16 to 18, 2014 at Manipal campus. The training has added 23 Integrated Management System (ISO 9001+ ISO 14001) internal auditors to the pool of empanelled University Quality & Environment auditors.

4.2 Conference Presentations

Derrick Ian Joshua, Valiparambil Prabhakaranunni Prabhasankar, Keshava Balakrishna, Nobuyoshi Yamashita, Sachi Taniyasu, Keerthi Siri Guruge, Masato Akiba, Kurunthachalam Kannan presented their Research paper titled '**Seasonal variation in the levels of selected pharmaceuticals in Swarna and Netravathi rivers, Karnataka, India**' at the *National conference on Biodiversity conservation and sustainable management – BCSM 2014; 2014 March 25-26; Kuvempu University, Shimoga, Karnataka, India.*

5.0 Environmental Management at Manipal University

Thanks to the green initiatives, Manipal University can boast of a green campus with certification under ISO 14001: 2004 by TUV Rheinland. Continuous efforts are being put into monitoring and constant up gradation to meet the rapidly expanding infrastructure. Best practices and various initiatives have helped the University to develop an unparalleled ambience for students and residents from various countries.

Few areas where the University applies eco friendly methods are

Solid Waste Management: which consists of domestic waste, a part of which is composted using earth worms and rest are recycled, food wastes are sent to piggeries. Biomedical Waste, hazardous waste and e- wastes are segregated and disposed off in a scientific manner to minimize impact on the environment.

Used Water Management: In order to treat waste water generated in the campus state of the art Sewage treatment plants were established with an installed capacity of 55 lakh liters per day. In addition, the distribution system for treated water has also been enhanced to ensure efficient reuse. Treated water is used for gardening and arboriculture reducing the burden on fresh water sources. Additionally sullage treatment plant treats grey water which is reused for flush system as well as cooling towers of air conditioning systems. Using recycled water lowers groundwater extraction costs and conserves on freshwater which can be used for domestic purposes. Sludge generated is dried and used as manure as soil remediation in the

University gardens. Rain water harvesting is a continuous activity being carried out every monsoon. Due to these initiatives MU has been able to plant and develop 55 Acres of green cover in the entire campus.

Water Management: Rain Water Harvesting at MU: Two schemes are adopted for RWH in Manipal, rain water harvesting systems for immediate use and for ground water recharge. Keeping in mind the growing urbanization within the campus and increasing demand for water two approaches have been adapted: Firstly, harvesting rain water from roof tops of buildings and using the same for domestic purposes. RWH units are affixed to down take pipes of roof drains which are in turn connected to underground sumps. Secondly, diverting storm water drains and from roof tops to bore wells. In the case of the first, rainwater is collected from roof tops from existing down takes, connected to a common header and led to a trickling sand filter having individual filtering capacity of 10000 liters /hour. The filtered water is then channeled to a nearby sump and used for domestic purposes. More recently the new version of rainy filters are used.

Lung spaces: are constantly created across the campus by planting trees wherever possible. During the year 2010, 1200 trees were planted. World environment day is celebrated on June 5th every year. All the members of the management, students and faculty engaged in a march past with placards carrying messages on environmental conservation. This culminates in a tree planting session where all heads of institutions participate.

Air Quality: In order to minimize the air emissions with in the campus, restricted entry of vehicles is in place. Emission testing center has been set up for staff and public which delivers services at subsidized rates. Ambient air quality is monitored in the campus, stack emission tests are also conducted in house to keep track of emission from all sources.

Energy Management: Various initiatives in the areas of power efficient air conditioning systems are constantly being undertaken for all new projects in the campus. As per MU guidelines hot water requirement in all hostels is met with solar energy. Presently the installed capacity is 3.5 Lakh liters per day. Replacement with energy efficient light fixtures, pumps, equipment's and appliances is a continuous process.

6.0 Achievements:

6.1 QS University Rankings: ASIA

Manipal University is highest ranked private University in India among the top 200 Asian Universities positioning itself between 181 -190 ranking.

6.2 QS University Rankings: BRICS

Manipal University moves 15 places up from its 100th position in the international rankings finding itself in the 85th rank among the top 100 universities in BRICS countries. Last year Manipal University was the only private university in the country to find a place in this ranking.

6.3 MU Retains no 1. Position in Green Ranking for India (suburban category)



Manipal University retains 1st rank in India
- UI GreenMetric Ranking 2014

The Universitas Indonesia released the UI GreenMetric Ranking for global Universities 2014, on 16th January 2015. This ranking compares Universities efforts towards campus sustainability and environment friendly university management. Criteria for ranking is based on six main categories namely Green statistics, Energy and Climate change, Waste management, Water usage, Transportation and Education.

360 Universities from 62 countries participated in the global ranking. Every year sees an increase in number of participants leading to constant resetting of global benchmarks. Notwithstanding this, the University has retained the numero uno position in suburban category yet again. This achievement is testament to the commitment of the management to make Manipal the obvious destination of choice for sustainable quality education.

The natural environment sustains the life of all beings universally. - Dalai Lama

For more details, log on to <http://greenmetric.ul.ac.id/ranking>

6.4 Manipal University bagged the Golden Peacock Environment Management Award for the third consecutive year in 2014.



Dr. GK Prabhu Registrar MU, receives the award from Mr. Arijith Pasayat former Supreme Court judge

This award was instituted by the World Environment Foundation in 1998. It seeks to create awareness of and implement strategies for improving environmental standards. The emphasis is on development, management and country wide awareness of duties of government, corporations, voluntary sector and individuals to maintain ecological balance by minimizing adverse environmental impact. This award is presented to organizations that have attained significant achievements in the field of Environment Management. This award is in recognition of the success achieved in managing environmental concerns.

6.5 Other Awards & Rankings

1. ASSOCHAM National Education Excellence Awards 2014 – Won Best University Promoting Research award
2. Ranked No. 1 in India and 695 in the World in University Web ranking 2014
3. Ranked No. 1 Private Deemed University by THE WEEK – HANSA Survey 2014
4. Ranked No. 3 among Top Private Universities in India by Careers360 University Ranking 2014
5. Ranked No. 3 by SiliconIndia Top 20 Private Universities in India 2014 for MBA/Engineering courses

Compliance:

Assisting University and constituent units in complying with the requirements of following statutory and regulatory bodies:

1. Govt. of India, New Delhi
2. Govt. of Karnataka, Bangalore
3. University Grants Commission, New Delhi
4. Medical Council of India, New Delhi
5. Dental Council of India, New Delhi
6. All India Council for Technical Education, New Delhi
7. Council of Architecture, New Delhi
8. Pharmacy Council of India
9. Indian Nursing Council & Karnataka State Nursing Council

ANNEXURE 6.4

Cases filed against Manipal University- Closed						
#	Case No.	Court	BY	Against	Particulars	Judgement
1	FA NO. 102/06	NCDRC, Delhi	Madhawan Malankad	Director, UMC	Complaint partly allowed	Settled
2	1291/03	KSCDRC	Krishna Singh	Kasturba Hospital	Medical Negligence	Dismissed
3	W P No 13911/08	Karnataka High Court	Swathi Ravindranand Others	Kasturba Medical College	De- recognition Matter	Settled
4	W P No 13088/2010	Karnatak High Court	Dr Kafeel Ahmed Khan	Manipal Universit y and Kasturba Medical College		Dismissed
5	W P No. 19371/2011	Karnataka High Court	Dr AshishKhurana	Manipal Universit y	Unauthorize d absence from the class	Appeal allowed to rejoin
6	17083/09(E DN)	Karnataka High Court	Dr R S Anandi	Manipal Universit y and Another	Reduction in fees	Settled out of court
7	W P No. 21872/11	Karnataka High Court	Dr Ashwin Kumar	Manipal Universit y		Disposed
8	WP 10552/2012	High court Karnataka	Purvankar Projects	MAHE	Filed aganist the order VII rule 11	Converted to CRP
9	C R No. 51/2009	Central Governme nt Industrial Tribunal Cum labour Court, Bangalore Camp	Suraj-	Manipal Universit y	Challenged the order of termination from the service	Allowed- WP filed before the High Court of Karnataka

10	C R No. 49/2009	Central Government Industrial Tribunal Cum labour Court, Bangalore Camp	Sabitha	Manipal University	Challenged the order of termination from the service	Dismissed
11	W P No. 13690/2008	Karnataka High Court	Sujendra D M	Kasturba Medical College	De-recognition Matter	Settled
12	W P No. 13910/2008	Karnataka High Court	Prithwishree Ravindra	Kasturba Medical College and Others	De-recognition Matter	Settled
13	W P. No. 49208/12 and 49209/12	Karnatak High Court	Ms Saranya P and Amith Das	Manipal University		Dismissed for Non – Prosecution
14	W P. No. 17786-89/2013	Karnatak High Court	Ramya and sujay	MU and Nursing Council of India	Qualification eligibility issue	Allowed
15	R P No./2012 in W.P.7661/09	Kerala High Court	Charitable Education and Welfare Society	Government of India and Others, MAHE	NRI University	Disposed

Cases filed against Manipal University- Closed		
No.	Court	Number of cases
1	High Courts	11
2	NCRDC	1
3	KSCRDC	1
5	CGIT Cum LC Bangalore	2
	TOTAL	15

Cases filed by Manipal University- Closed						
#	Case No.	Court	BY	Against	Particulars	Judgement
1	W P No 2810 and 2811/2010	High Court Karnataka	The Registrar, Manipal University and Another	Dr Sushit	Filed against order of State Forum Karnataka	Dismissed- Appeal filed before the Supreme Court
2	O S No. 702/2014	JMFC Court Mangalore	T M A Pai International Conventional centre & Manipal University	Federation of Indian Port Organisation (FIEO) & 2 others	Full and final settlement made through payment of Rs. 1,77,645/-	closed
3	OS 29/08	Civil Court	Manipal University	Naresh Kumar	Service agreement	Closed
4	W P No. 13319/200 8	Karnataka High Court	Manipal University and Others	Union of India and Others	De-recognition Matter	Settled
5	W.P. 49588- 591/12	Karnataka High Court	Manipal University	Union of India		Disposed
6	W.P. 43472/12 and W P NO. 43474/201 2	Karnataka High Court	Manipal University	Union of India		Disposed
7	W.P. 15889/201 2	Karnataka High Court	Manipal University	Medical Council of India		Closed
8	O S 5/2003	Principal Civil judge, Udupi	Manipal University	Kanara Dock Union	Service regularisation of 55 employees	Closed
9	OS 30/08	Civil Court	Manipal University	Aparna Seth	Service agreement	closed
10	OS 31/08	Civil Court	Manipal University	Dr Chandra Mohan	Service agreement	closed
11	OS 33/08	Civil Court	Manipal University	Dr Simmi Agar wal	Service agreement	closed
12	W.P. 15889/20 12	Karnataka High Court	Manipal University	Medical Council of India	W P filed challenging the reduction in MD Gynecology seats	Allowed
13	OS 35/08	Civil Court	Manipal University	Dr Arunima Sen	Service agreement	closed
14	OS 70/12	Civil Court	Manipal University	Shalini Goel	Service agreement	Closed

15	OS 32/13	Civil Court	Manipal University	Dr Abinav Pandey	Service Agreement	Evidence
16	O.S No.701/14	JMFC Court Mangalore	T M A Pai International Conventional centre & Manipal University	MINDSCAPE Exhibitions Pvt Ltd & Shri Sathish (Operational Manager)	Non Payment of Bill amount Rs. 2,10638/- Amount paid	Closed

Cases filed by Manipal University- Closed		
SL No.	Court	Number of cases closed
1	High Court	6
2	Civil Courts Udupi	8
3	JMFC Mangalore	2
	TOTAL	14

Cases filed against Manipal University- Pending					
#	Case No.	Court	BY	Against	Particulars
1	KIC 574	RTI Commission	KeshavSwamy	MU	Applicability of RTI ACT- stay order issued.
2	KIC 4834	RTI Commission	ShaikhShafi Ahmed	Dean KMC Manipal	Applicability of RTI ACT- stay order issued
3	SLP NO 8900/2015	Supreme Court of India, Delhi	E V KesavanNamboodiri	The Medical Superintendent Kasturba Hospital and Others	Decision of the National Commission has been challenged.
4	SLA No.16668/2015	Supreme Court of India, Delhi	E V KesavanNamboodiri	The Medical Superintendent Kasturba Hospital and Others	Decision of the National Commission has been challenged.
5	C R 25/2012	District Consumer Forum, Udupi	Fathimabee	Medical Superintendent, Dr Pushpa Kini, Ms..Sangeetha and Mrs Sumalatha	Medical negligence - for Evidence
6	44/10	NCRDRC	Shankar Palan	MU	Claim for accident compensation

7	Appeal No. 1480 and 1481	KSCDRC	Mrs Padmini	Dr Nuthan Kamath, Prof and HoD of Paediatrics, KMC Attavar	Challenging the order of District Forum (Medical Negligency)
8	C R No. 47/2009	Central Government Industrial Tribunal Cum labour Court, Bangalore	The President, Manipal University Mazdoor Union	Manipal University	Challenging the termination order of Mr. Govinda Bhandary
9	C R No. 41/2009	Central Government Industrial Tribunal Cum labour Court, Mangalore Camp	The President, Manipal University Mazdoor Union	MU	For Award
10	C R No. 48/2009	Central Government Industrial Tribunal Cum labour Court, Bangalore Camp	The President, Manipal University Mazdoor Union	The Registrar, Manipal University	Challenging the Terminatino order of Chikkanna-
11	C R No. 15/2014	Central Government Industrial Tribunal Cum labour Court, Bangalore Camp	The General Scretary MU Mazdoor Union	The Registrar MU	Demand to issue employee code numbers to 11 employees & pay scales
12	C R No.05/2009	Central Government Industrial Tribunal Cum labour Court, Mangalore Camp	The General Secretary Manipal Education Non teaching Staff Association	The Registrar Manipal University	(Anomaly in pay fixation 1996 revision pay – demands to pay arrears since 1996 (Rs 75 crores)

13	C R No. 9/2010	Central Government Industrial Tribunal Cum labour Court, Bangalore Camp	Kanara Dock Union	The Registrar Manipal University	(Demand for regularizations of 50 daily wage workers terminated in the year 2002) (Rs 250 Crores)
14	C R No. 15/2011	Central Government Industrial Tribunal Cum labour Court, Bangalore Camp	Manipal University mazdoor Union (Manipal University	Leave Reduction) in 2002 to pay arrears of dues due to employees(40 Crores)
15	CR No.17/2011	Central Government Industrial Tribunal Cum labour Court, Bangalore Camp	Manipal University Mazdoor Union	Manipal University	Challenging the order of termination of Narasimha
16	C R No.33/2014	Central Government Industrial Tribunal Cum labour Court, Mnagalore Camp	The General Secretary MU Mazdoor Union (direct 3 rd party to regularize & treat them as permanent employees)	,Manipal University	Evidence
17	C R No 1/2012 & C R No.11/2013	Central Government Industrial Tribunal Cum labour Court, Bangalore Camp	Vittal	Manipal University	Challenging the order of termination
18	C R No 7/2010	Central Government Industrial Tribunal Cum labour Court, Bangalore Camp	Ravindra Nayak	Manipal University	Challenging the order of termination

19	C R No 43/2011	Central Government Industrial Tribunal Cum labour Court, Bangalore Camp	Panduranga Shettigar	KMC Manipal	Demand for terminal benefits
20	278/10	KSCDRC	Harischchandra and others	Dr TMA Pai Hospital, Udupi and others	Medical negligence case -Dr. TMA Pai Hospital is the formal party
21	W P No 17515 and 17516 of 2010 (S- RES)	Karnataka High Court	Manipal University Mazdoor Union	Manipal University- Second respondent	Final Hearing
22	8/MU- 01/11-A/M	Assistant Labour Commissioner, Mangalore	Manipal University Mazdoor Union	Manipal University	Hearing
23	8/MU- 01/12-A/M	ALC, Mangalore	Manipal University Mazdoor Union	Manipal University	Hearing
24	8/GEN- MU/12- A/M	ALC, Mangalore	Manipal University Mazdoor Union	Manipal University	representation over -alleging Unfair labour practice by the management of Manipal University
25	CC. No. 3260/2009	JMF Court Mangalore	Karnataka State police	Mr Perumal, Administrative Officer, Convention Hall, Mangalore	Death of Dr SadanandaKalya at Convention Center Mangalore
26	OS NO. 114/2013	Civil court Bangalore	Narayanamma& others vs MU (Defendant No. 9)	MAHE- Partition and possession of lands at kadiganahalli village	Evidence
27	OS NO. 2216/2013	Civil courts Bangalore	Manipal Education consultancy	-MAHE Trade mark related case	Evidence

28	OS. No. 5385/2011	Civil courts Bangalore	Divakar Sharma, Proprietor Manipal Education consultancy	Trade mark related case	Evidence
29	O. S. No. 426/2010	PCJ Udupi	Sunanda and others	Pertaining to land issue	For further steps
30	O. S. No. 143/1996	PCJ Udupi	K. Jayavantha Bhakta	Manipal University is listed as 6th Defendant- in respect of Partition of property	Pertaining to land issue
31	W P 36789/2014	High Court of Karnataka	Union of India	Manipal University	Appearance

Cases filed against Manipal University- Pending		
SL No.	Court	Number of cases
1	RTI Commission	2
2	NCRDC	1
3	KSCRDC	2
4	District Consumer Forum Udupi	1
5	Central Government Industrial Tribunal Cum labour Court, Bangalore Camp	12
6	Karnataka High Court	2
7	Assistant Labour Commissioner	3
8	JMFC Mangalore	1
9	Court Principal Civil Judge, Udupi	2
10	Civil Court, Bangalore	3
11	Supreme Court of India	2
	TOTAL	31

Cases filed by Manipal University- Pending					
#	Case No.	Court	BY	Against	Particulars
1	SLP 21772/12	Supreme Court	Manipal University	Union of India	NRI Case- percentage of NRI quota in NRI admission
2	Private Complaint NO. 226/2012	PCJ Udupi	Medical Superintendent, KH Manipal	GSK Life Agencies Pvt Ltd and GSK Reddy	Complaint filed under Sec 138 of the N I Act 1881 for dishonor of cheque No. 016636 for Rs. 5,56,396. The said cheque was issued in favour of KH manipal towards consideration for the fresh frozen plasma collected by it from Blood bank.

3	ATA No. 867(6)/2011	P F Appellate Tribunal New Delhi	Kasturba hospital	APFC, Udupi	appeal filed under Sec 71 of EPF Act against the order dated 20.04.2011 passed by APFC, Udupi under section 7A)(PF contribution of retired employees) The operation of the impugned order is stayed and application under sec 7(o) is allowed subject to deposit of 25% of the assessed amount.
4	ATA No. 22(6)/2012	PF Appellate Tribunal New Delhi	Kasturba Medical College	APFC, Udupi	Appeal filed section 71 of the Act against the order dated 15.11.2011 passed by the APFC, Udupi (Variable Allowance) stay granted and directed not to take any coercive steps till the disposal of the present appeal
5	OS No. 31/2013	PCJ Udupi	Manipal University	Dr.Nidhigupta	Claim for Service agreement dues
6	W P No 57163- 57166/2013	High Court Karnataka	Manipal University	MESCOM	Issued notice to pay 3.5 crores As Penalty
7	W P 35640/2012	High Court Karnataka	Manipal University	Smt Fathima Bee	Challenging the order passed by Karnataka Medical Council, Bangalore in respect of Mohammad Rifay case
8	WP 49588- 591/12	High Court	Manipal University, KMC manipal, KMC Mangalore	Medical Council of India and state of Karnataka	Case relating to Religious and linguistic minority professional colleges Association

Cases filed by Manipal University- Pending

SL No.	Court	Number of cases pending
1	High Court	3
2	Supreme Court	1
4	Court of Principal Civil Judge, Udupi	2
5	PF Appellate Authority, Delhi	2
	TOTAL	8

ANNEXURE 6.6

Internal Audit Process**1. Objective**

To outline a documented process to carry out internal audit to determine whether the Integrated Management System conforms to the planned arrangements and it is effectively implemented and maintained.

2. Scope

Applicable to all Records and Documents of all constituent institutions and hospitals of Manipal University covered under the ISO 9001:2008 Quality Management Systems and ISO 14001:2004 Environment Management Systems.

3. Responsibility

IMR MU

4. Procedure

- 4.1 IMR schedules the Internal Audit
- 4.2 The schedule includes all institutions as defined in the scope and also of IMR and Top Management
- 4.3 Scheduled dates are communicated sufficiently in advance in the form of internal memo. Detailed Schedule is maintained by IMR
- 4.4 Schedule is drawn periodically with audits scheduled twice a year
- 4.5 Internal Audits are carried out by trained and qualified personnel independent of activity being audited
- 4.6 The standards used for Internal Quality Auditors for audit activities are ISO 9001:2008 and 14001:2004 Standards and Integrated Management System documents
- 4.7 Internal Audit starts with an Opening meeting
 - a) At University level attended by the IMR/Dy. IMR and Auditors auditing MU departments
 - b) At Institutional level attended by respective HoI/MS, HoDs, Institutional MR and Auditors auditing their institution/hospital
- 4.8 Internal Audit shall cover all points specified as per standard requirements
- 4.9 The audit findings are recorded in the Audit notes which will be signed by Internal Quality Auditor and Auditee

- 4.10 The Internal Audit Findings shall be uploaded in the online audit report by the auditor and made available to the auditee for further action
- 4.11 Internal Audit ends with a Closing meeting
- a) At University level attended by the IMR/Dy. IMR and Auditors auditing MU departments
 - b) At Institutional level attended by respective HoI/MS, HoDs, Institutional MR and Auditors auditing their institution/hospital
- 4.12 Head of audited department/Process owner fills the action proposed, both with respect to non-conformance disposal and corrective action, along with the time frame.
- 4.13 During the consequent round of audit, the auditor verifies the effectiveness of the actions taken
- 4.14 Corrective actions of the department where IMR is directly responsible are reviewed by the PC.
- 4.15 When proposed corrective action is not completed within the time frame agreed upon, the head of the audited department/Process owner through the HoI/HoD reports to the Institutional MR/IMR and seeks additional time.
- 4.18 Head of individual Institutions/departments/Process owner are responsible for investigating/analyzing the cause of non-conformances and initiate/implement/monitor/verify the completion of identified corrective actions.
- 4.19 Audit findings and corrective action taken shall be reviewed during the Institutional MRM and unresolved issues if any are reviewed at Corporate MRM.
- 4.20 PC and Core Committee reviews the completion of corrective action with respect to non-conformances observed in the function of IMR.

5. Documents and Records

1. Audit Plan, Audit schedule
2. Online Audit Report Application

ANNEXURE 7.1A

Implementation of Online Entrance Examinations
Presentation on Administration of Online Entrance Exams
The Proactive role played by Manipal University

Introduction:

Online testing is recognized all over the world as the most efficient delivery system for assessment. However, overwhelming infrastructural constraints, limited reach as well as difficulty in monitoring have limited the scope of this mode of delivery in India.

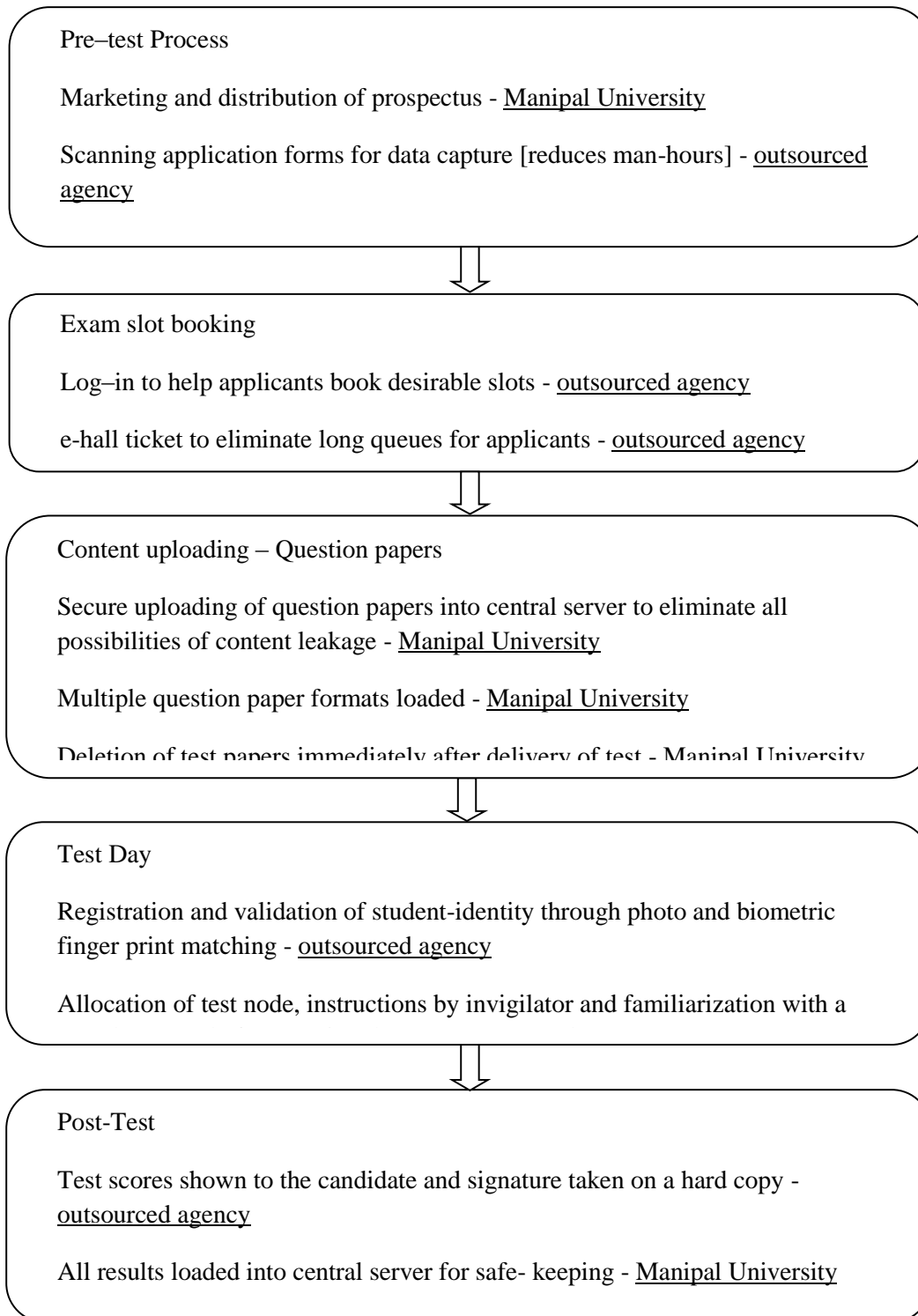
Building process-efficiencies while ensuring client satisfaction in established systems has been the premier agenda for assessment companies. On the other hand, Manipal University's efforts have primarily been focused on delivery mechanisms.

Benefits to Manipal University

- **Scientifically designed and validated tests** – The process ensures the right filter for assessments and reduces the cost of a bad validation.
- **Updated, quality testing content** – The large content bank of questions can ensure that each candidate gets a different set of papers. This will prevent leakage and ensure quality of the question paper.
- **Online Test Delivery Capability** – With its Online Test delivery software, the service provider equips MU with the ability to manage and administer tests on candidates online, thereby improving the process and reducing inefficiencies.
- **Cycle time reduction** – The scores accurately reflect the candidates' performance and helps MU to screen large pools of profiles more efficiently, faster and with greater precision.
- **Reduced Logistics** – It will reduce the administrative load on the Controller of Examination.

The Typical Online Entrance Examination Process and its ownership

- *Marketing and distribution of prospectus*



Features of Online Entrance Examination

Lends transparency to the Examination Process and Evaluation

- The Test Score is displayed on the test screen enabling the candidate to know his/her scores before he/she leaves the Test Centre. This system is universally appreciated by candidates and parents.
- As there is no manual intervention, possibilities of human error and personal bias are eliminated.

Attendance Sheet with Photographs makes sure that chances of malpractices are addressed.

- The attendance sheet has the candidate's photograph that was submitted along-with the application. In addition to this, **Biometric identity checks through fingerprint matching completely eliminate the possibility of impersonation.** Only enrolled candidates can appear for the test. Biometric identification is performed once again at the time of admission for final confirmation of identity

Candidate's Photograph and Signature on Hall Ticket

- The photograph and signature, obtained from the application form, are printed [not glued] on the Hall Ticket. Unlike glued material, printed photographs and signatures cannot be altered/ substituted. Ascertaining the identity of the candidate is therefore easier and tamper-proof
- Exam is scheduled at the candidate's convenience: As the exams are individualized, the candidate can opt for a place, date and time of his/her choice. Such flexible scheduling permits a larger number of candidates to appear for the exam. Flexible scheduling eliminates the possibility of Manipal Entrance Test clashing with other entrance examinations.
- These facilities are greatly appreciated by candidates and parents and are being viewed as progressive.

Merit List Generated Instantly

- Conventional systems spend a great deal of time and effort in preparing a reliable rank list. Online examinations have the advantage of a digital database which is amenable to easy processing. A rank list is generated instantly and accurately without any scope for error or confusion. No time is lost in the process.

Online Assessments – a less stressful experience for the candidate

- Students use a mouse to select the right answer, which is a lot easier than pencils. Colour coding helps candidates to identify questions that have been left out, go back and answer them.
- There is no question of any candidate being favoured with extra time because the beginning and end of each test is regulated from the common control room

Error and Bias-Free Evaluation

- There is complete transparency and no need for a re-evaluation
- Better choice for the University

Candidates sitting next to each other receive different question paper sets. This eliminates attempts of copying.

Whenever a problem crops up, the system can identify the candidate who faced the problem. Once resolved, the candidate can continue with the test from the point where it was interrupted. The results are also archived, so that candidates and supervisors/invigilators can reach them at any time. All this reduces the administrative workload, generates faster results, and increases student satisfaction.

Other Benefits

Eliminates the need for

1. Printing of Question Papers and Answer Sheets
2. Employing security personnel because there is no chance of leakage of question papers
3. Transportation and storage

The Control Room run by Manipal University

The Control Room is the nerve centre for the conduct of an Examination. The server which delivers the Question Papers will be housed in the Control Room.

The main activities that will be managed from the Control Room are:

1. Managing the Question Bank
2. Access to the Test Booking System
3. Synchronizing the starting and ending of each test with each Test Centre, delivering Question Papers as and when required
4. Downloading Student Responses.
5. Archiving Data

The primary considerations of a Control Room

- **Deploying software to deliver secure assessments:** Although many issues can be addressed within a physical environment, software features are also used to ensure that assessments are delivered in a secure way. The following are the features found in the software solution:
 - **Authoring secure assessments:** There are many safeguards that can be taken during the assessment authoring process to help protect the security of the assessment. One

of the most popular methods employed is shuffling the order of the choices. The questions are also delivered in a random order themselves.

- **Encrypted communications:** The majority of computerized assessments are now delivered via the Internet or an Intranet. It is important that communications between the browser and server are encrypted. The test software application uses encryption that allows the browser and web server to encrypt their communication. This means that anyone intercepting the communication will not be able to read it.
- **Scheduling assessments:** Users have the option to select the date, time and the location where they would like to take the test. This is achieved through a software application hosted online.

The Test Centre (handled by outsourced agency)

Assessment centres are controlled environments set up as per MU norms. This means that candidates can rely on fair conditions under which to take the assessment.

High-stakes assessments must offer a consistent environment that is free from distractions together with some form of monitoring by an invigilator. The greater the rigor that is expected, the more expensive an assessment will be to deliver. The physical environment, technology, monitoring standards and authentication methods for delivering an assessment are stipulated by the sponsoring organization that owns the assessment.

Physical Environment: Centres chosen are enclosed rooms without access to trespassers. Rooms are quiet and free from distractions, well-lit and with a comfortable ambient temperature. Computers should be separated from one another by acoustic partitions and the equipment should offer similar operation, accessibility options and performance. Candidates should not be able to print or capture the assessment content and should be prevented from accessing resources, such as web pages, that might unfairly assist them during the assessment process.

Technology Environment: Assessments should be delivered on consistent and comparable technology. Screen sizes, processor speeds, and network connections do not have to be the latest and greatest but they do need to be comparable.

Secure browsers: One of the key recommendations is to ‘lock down’ computers that are being used in assessments to keep users from accessing other applications and websites while assessment is in process. This lockdown is usually performed via a secure browser, and prevents candidates from printing, capturing screens, accidentally exiting the assessment, viewing source, task switching, etc.

The secure browser is effectively authenticated by the server to prevent spoofing by technically competent cheats.

Monitoring: Assessment centres are monitored (or proctored/invigilated) in a number of ways. Candidates should be in an environment that permits constant visual monitoring. This is achieved directly by a person in the room or via video surveillance equipment. The control

room has access to every single candidate's computer in every single Test Centre during the entire course of the examination process

Authentication: It is important to confirm that the candidate taking the test or exam is truly the person authorized to do so. This is done by confirming a candidate's identity via a photographic i.d. provided by the Manipal University. Biometry system helps to confirm the candidate's identity both at the time of the test and later, if selected, during the admission.

Professionally controlled centres: Professionally controlled centres provide a very consistent and highly controlled environment where a candidate could expect to receive exactly the same treatment and receive the same experience, with minimum variation from one assessment centre to another. This consistency would start with the reception and continue through the assessment process to the time that they leave the premises.

The Pre-Test Process

The Application Form

The Application forms will be distributed by Manipal University. Application Forms have a unique Application Number which is to be used to book the exam slot.

Processing the Application Form

The Manual/Paper Applications Received are scanned and the data captured into tables, Photographs and Signature saved as acceptable Picture Formats.

The Online and Offline (Paper/Manual) Application data are now merged

Data uploaded for Booking Exam Slots

The Data is loaded on the OTBS (Online Test Booking System) from the Application Forms to enable students to book their slots for the Exam

Booking dates and exam centres mentioned in application form and website

The Test Booking Process

The Log In

The Student uses the Login Details from the Application Form to log in

On Logging in, he gets to see the available dates and Centres for the Test he has applied for

Candidates choose the location, date and time of their choice

Only available slots will be shown

The OTBS can handle the load of 20,000+ concurrent Logins

The Hall Ticket

- Once the Student confirms his choice a e-Hall ticket is generated
- The Hall Tickets will have the Photo and Signature of the Student on it

- Hall Tickets are emailed to candidate's email id
- Complete back-end support is made available using helpline: Seven days a week 12 hours a day.

Question Bank and Delivering Examinations

The service provider uses Question Mark Perception software for the Delivery of Online Entrance Examinations. The Key Features of this Software are:

- Easy question and assessment authoring
- Question banking by learning objective
- Deliver to browser, PDA, CD-ROM or paper
- Role-based security for multi-author environments
- Integration with other management systems
- Printing and scanning your assessments
- Instant feedback to enhance learning
- Secure delivery for high-stakes exams
- Workflow management
- On-demand results, reports and item analysis
- Randomize presentation of questions and choices
- Adaptive branching based on how questions are answered
- Twelve customizable reports
- Support for key standards for interoperability
- Year-round learning opportunities

Preparation

The Questions are prepared by the Registrar of Evaluation (RoE) , Manipal University, and kept in a secure and confidential location as per the discretion of the RoE.

These Question Papers will in a format that is ready to be uploaded to the server.

Upload of Question Papers

The RoE, Manipal University, directly uploads the Question Papers to the Server in each Test Location **using highly secured encrypted transmission online.**

This has to be repeated for every session as the Question Papers will be deleted from the Test Centre immediately after the delivery is over.

The Candidate Validation Process on test Day

The Registration Process

- The Student Information is downloaded to the specific test centres
- The Student presents the Hall Ticket and it is verified against the Picture and Signature on the server.
- In addition photograph and finger print of the candidate is taken.
- The information is saved on the Server, and later downloaded to the RoE for future reference.

The Test

- The Test Node is assigned by the Server. The node will be in the secure mode and all special/function keys are disabled.
- The student will occupy the allotted test node and be prepared for the test.
- After a general brief by the invigilator – the student logs in using his user name and password.
- The Instructions are displayed again

After the test

Test Scores

Test Scores displayed at the end of the test

The score sheet printed out and the signature of the student taken

Post-Test Process

After each session is completed, results are uploaded to the Main Server, the question papers are deleted from the local servers and reset.

The Test Nodes are reset and any papers and other working materials used are removed.

Results:

Merit list generated hours after all session are over. Various categories are taken into consideration. The Finger Print and Signature of selected candidates are verified again at the time of admission.

Pre-Test SOPs

Creation of the Enrolment Database – not displayed for confidentiality and security reasons
No formulas have been displayed for confidentiality and security reasons

Reliability: Reliability has two meanings. One refers to stability over time, the second to internal consistency. The service provider computes only internal consistency reliability as there are many factors influencing test-retest reliability.

The service provider computes different measures of internal consistency reliability and the details are given below:

Split Half: In split-half reliability, we randomly divide all items that purport to measure the same construct into two sets. Test is administered to a sample of people and calculates the total score for each randomly divided half. These two scores are correlated applying predetermined formula.

Validity: Validity is defined as the degree of accuracy with which the test measures what it purports to measure i.e., to serve the purpose for which it was designed.

Content Related Validity: **Not displayed for confidentiality and security reasons**

Norms: A score of one is assigned for each question answered correctly. The total score would be the sum of all the questions answered correctly.

Norms are set of scores from clearly defined samples. Norms are usually computed for a broad test; Norms can also be built for Domain tests.

Importance of standardization is that it gives test scores meaning and thus makes interpretation possible.

Norms help us:

- a) To find out relative standing (score 15 is on 50 per cent)
- b) To provide comparable measures that permits a direct comparison of the individual's performance on different tests.

Item Writing Guidelines: **Not displayed for confidentiality and security reasons**

Some of the guidelines for item creation are as follows:

Test items should:

- Measure the required skill or information
- Focus on important, not trivial, subject area content
- Contain accurate information (including correct spelling)
- Be written an appropriate level of difficulty
- Be clear and concise
- Be bias-free

Stem of Each Question: **Not displayed for confidentiality and security reasons**

Responses for Each Question: **Not displayed for confidentiality and security reasons**

Question Bank Size and Retirement of Questions: Manipal University follows internationally accepted norms for question bank size and retirement of questions.

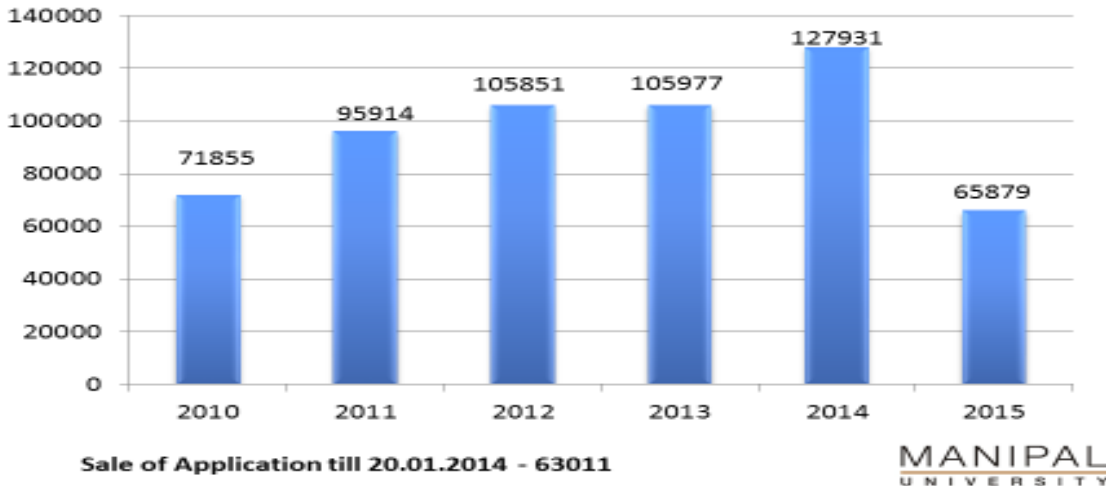
Randomization Logic: **Not displayed for confidentiality and security reasons.**

ANNEXURE 7.2

Trend of Performance of Improvement

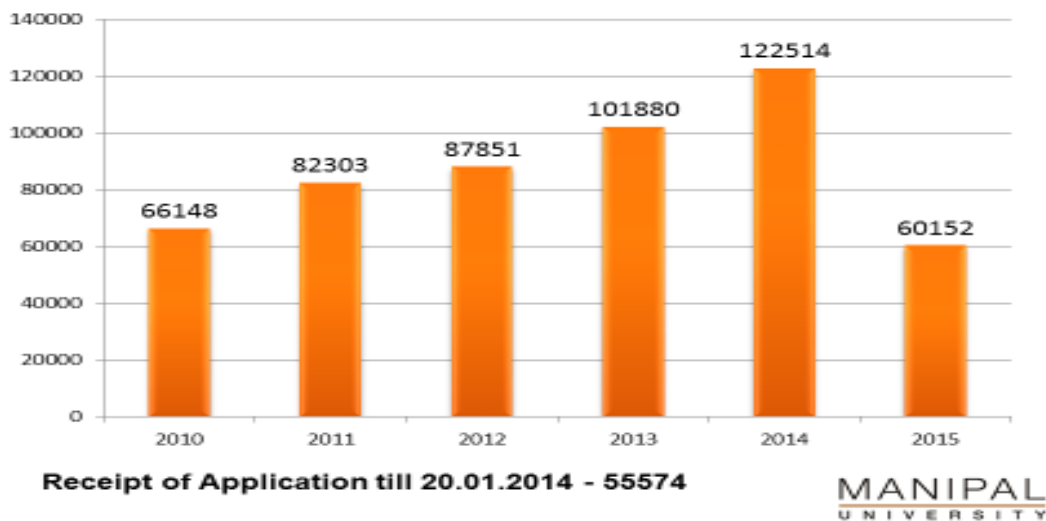
MAHE Admissions – Year wise Sale of Applications

1. Yearwise Sale of Application



QMS - DEPARTMENTAL OBJECTIVES

1. Yearwise Application Received



QMS - DEPARTMENTAL OBJECTIVES

The significant increase in sale of applications and students appearing in entrance exams as seen in chart above indicates growing preference for professional courses from Manipal University.

ANNEXURE 7.3

Research Publications

Manipal University, Manipal is ranked 1st among the non-government universities in India



Manipal University is ranked 1st among the non-government universities in India by a Scopus based study published by SCImago research group, Spain (<http://www.scimago.es/index.php>).

SCImago Research Group, University of Granada, Spain, analyses the institutes based on the publications in Scopus database (for the last 5 years) and rank them as SCImago Institutions Rankings (SIR). SIR was started in the year 2009 and today they have 4 reports from 2009 to 2012. SIR 2009 World Ranking was the first report which ranked 2,124 institutions from 84 countries. SIR 2010 was published with additional features such as Regional ranking (RR), Country Ranking (CR) etc., and included 2,833 institutions around the globe. SIR 2011 Global Ranking published report had included more features with the target audience of policymakers, research managers, researchers, media and general public. SIR 2011 Global Ranking includes 3,042 institutions from the world with a unique feature, Specialization Index and Excellence Rate. SIR 2012 Global Ranking, was released last year includes 3,290 institutions from 106 countries.

There are 128 institutions from India, listed among the 3,290 world institutions and there are only 3 institutions listed in top 500. There are 18 institutions with the rank of 1000, 43 in top 2000, 100 in top 3000 and total of 128 among top 3268. The list includes the Government Organizations (GO), Higher Education institutions (HE), Health institutions (HL), Private institutions (PR) and Others (OT).

The Council of Scientific and Industrial Research (CSIR) being a group of 37 institutions spread across India tops the list with 21,671 publications (Figure 1). IISc Bangalore is the 2nd with 8,573 and IIT, Kharagpur is 3rd with 7,215 publications. These three institutions are among the top 500 global ranking [CSIR World Ranking (WR) 82, Regional Ranking (RR) 17, Country Ranking (CR) 1; IISc Bangalore WR 376, RR 80, CR 1; IIT Kharagpur WR 460, RR 99, CR 3].

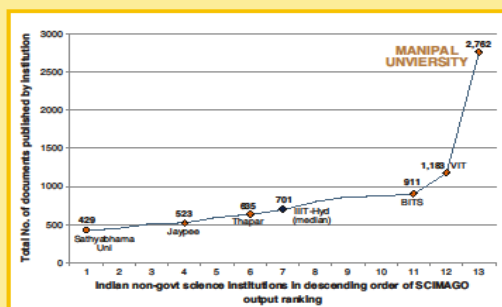


Figure 1: Output ranking: Non-govt. institutions [Total no. of documents published in scholarly journals indexed in Scopus]

Manipal University is ranked 19th in India, 271 in Asia region and globally ranked 1118 in publication output (Table 1). Among the non-government organization Manipal University is ranked 1st with 2,762 publications.

WR	RR	CR	Organization	Sector
82	17	1	Council of Scientific and Industrial Research	GO
376	80	2	Indian Institute of Science	HE
460	99	3	Indian Institute of Technology, Kharagpur	HE
536	115	4	University of Delhi	HE
553	121	5	Indian Institute of Technology, Delhi	HE
560	123	6	Indian Council of Agricultural Research	GO
600	131	7	Indian Institute of Technology, Madras	HE
602	132	8	All India Institute of Medical Sciences	HE
636	140	9	Indian Institute of Technology, Bombay	HE
649	144	10	Bhabha Atomic Research Centre	GO
681	150	11	Indian Institute of Technology, Kanpur	HE
737	165	12	Jadavpur University	HE
738	166	13	Banaras Hindu University	HE
856	198	14	Indian Institute of Technology, Roorkee	HE
859	199	15	Anna University	HE
946	224	16	Postgraduate Institute of Medical Education and Research	HE
963	231	17	Indian Council of Medical Research	HL
970	234	18	Tata Institute of Fundamental Research	HE
1118	271	19	Manipal University, Manipal	HE
1135	277	20	Aligarh Muslim University	HE
1154	285	21	Defense Research and Development Organisation	GO
1182	297	22	Annamalai University	HE
1204	307	23	Panjab University	HE
1250	325	24	University of Madras	HE
1258	327	25	University of Calcutta	HE

Table 1: SIR - 2012: TOP 25 Indian Institutes

Manipal University was not seen in SIR World Report 2009, but it was at 55th position in India [WR: 2115; RR: 528] in SIR 2010 Global Ranking. In SIR 2011 Global Rankings Manipal University was 36th in the nation, 425th in Asia and 1625th in the world. In SIR 2012 Global ranking, we are placed at 19th rank in nation, 271st in Asia and globally we are at 1118th rank.

Among the institutions of Manipal University the Kasturba Medical College (KMC), Manipal, has a Scopus h-index of 43, which is very high comparable to many of the Indian universities as per the reports of Department of Science and Technology (DST). Manipal College of Pharmaceutical Sciences, Manipal has a Scopus h-index of 36 and Manipal Institute of Technology, Manipal has 27. Manipal Life Sciences Centre, Manipal must have been part of KMC Manipal, according to Scopus and is not appearing in the list of Scopus.

Prepared by
Dr N. Udupa
Director - Research (Health Sciences), MU

ANNEXURE 7.4

**‘Incentive Awards for Faculty Research and Scientific Publications’
(under the policy “Incentives for Excellence in Teaching & Research”)**

Revised guidelines from April 1, 2013

Objectives:

- a. To improve the quantum and quality of research in Manipal University.
- b. To promote the publishing of papers in national and international journals of high repute with impact factor.
- c. To recognize research contribution of teaching faculty and research scientists working in Manipal University.
- d. To enhance research and innovation culture in Manipal University.

Revised Policy:

1. The revised policy shall be effective from April 01, 2013 and will apply to only those publications and patents which indicate Manipal University affiliation.
2. The Directorate of Research, Manipal University will access the research papers published by the faculty of Manipal University with effect from April 01, 2013 and assign points as per the revised policy. The Directorate of Research office will work with the libraries of MU to access relevant data/information related to these publications.
3. Points accumulated till March 31, 2013 under the existing scheme will remain valid and should be utilized within the next 3 years (i.e., before April 01, 2016) as per the old policy. Unavailed points may be encashed on pro rata basis as per the old policy.
4. The evaluation form to be submitted for incentives is provided in Annexure I. The completed form should be submitted to the Directorate of Research, Manipal University after uploading the full paper/abstract in digital repository (eprints) of Manipal University.

Points to be awarded for published papers:

The following points will be awarded to first author and corresponding author.

1. Articles published in high impact journals (with an impact factor above 10).
24 points
2. Original full paper/review article published in indexed national and/or international journals with an impact factor of 1 to 10.
12 points
3. Original full paper/review article published in indexed national and/or international journals with an impact factor less than 1 or with no impact factor. **06 points**
4. Short articles/case reports/letters to editor in national and international indexed journals.
04 points

5. All other authors will receive half the points awarded to first author and corresponding author.
6. No points will be awarded for papers published in non-indexed journals.
7. The papers to be considered for incentives should be published in the journals indexed by at least one of the indexing agencies mentioned in Annexure II.

As per Registrar, Manipal University circular Ref No-MU/REG/CIR-(T) Dt.- January 28, 2015 – Guidelines for “Incentive Awards for Faculty Research and Scientific Publications” has been amended as below.

Amendments:

The first author and the corresponding author will be awarded points as per the details below:

1. Original full paper/review article published in indexed and/or international journals with an impact factor

0 to 1	:	06 points
> 1 to 5	:	12 points
> 5 to 10	:	18 points
> 10 to 20	:	24 points
>20	:	36 points
2. Co-authors will receive half the points awarded to first author / corresponding author.

This amendment will be with effect from April 1, 2015 i.e. only for research papers published on or after April 1, 2015.

Plagiarism and related issues:

- It will be the responsibility of the authors to screen and scrutinize the manuscript for plagiarism and related issues before communicating with the journal.
- In case of complaints received on plagiarism and related issues, Manipal University will appoint a committee to investigate the matter and initiate appropriate action.

Points for books / chapters in book:

1. For a book edited/written by the faculty of Manipal University.
12 points will be equally distributed among all editors/authors
2. For one or more chapters contributed in a book by the faculty of Manipal University.
02 points will be equally distributed among all editors / authors contributed in the chapter(s). In any case, total points for distribution among editors / authors for a book shall not exceed 12 points
3. No additional points will be awarded for contributing to additional chapter(s) in the same book or in its subsequent editions.

Points for patents granted:

1. Points awarded for each granted patent(Indian or abroad) **18 points**
2. All the members indicated as inventors and co-inventors in patent granted will receive 18 points each.
3. The points will be awarded only to granted patents filed by faculty members of constituent units of Manipal University.
4. The certificate of patent should be submitted along with the evaluation form (Annexure I).
5. Points will not be granted for pending patents.

Research Incentives for points accrued on published papers/ patents/ books/ chapters in books:

1. For every 24 points accrued, a cash incentive of Rs.24,000 will be awarded.
2. Revised scheme for the redemption of accrued points for participating in international conferences.

Category	Country/Region	Points required
Tier I	SAARC, SE Asian and Middle East countries	24
Tier II	Europe, Africa, Australia, New Zealand and other Asian countries (excluding countries mentioned in Tier I)	48
Tier III	North America, Central America, Latin America and Caribbean countries	72

3. Only economy airfare and registration will be covered under this scheme. However faculty may avail accommodation charges and per diem allowance (double the rates as applicable to national conferences per day) from their annual conference entitlement.
4. Faculty/research scientists who opt for international conference will not receive cash award.
5. The incentives cited here can be availed by faculty appointed on post retirement engagement.
6. All the backlogs pertaining to points/incentives will be maintained at the current locations (in KMC Manipal, MIT, KMC Mangalore) until April 01, 2016.
7. The points accrued until March 31, 2013 should be redeemed before April 01, 2016 as per the existing research incentive policy.

Annexure I: Evaluation form for publication and patents

Annexure II: The journals in which the articles are published shall be indexed in any one of the following indexing agencies.

Chemical Abstracts Service, Directory of Open Access Journals, EBSCO Academic Search Complete, Intute, OAlster, Open J-Gate, Socolar, scholar, PubMed, CAS, Cinahl, Citebase, Current contents, Embase, Google Scholar, MEDLINE, OAIster, PubMed Central, Science Citation Index Expanded, SCImago, Scirus, Scopus, Zetoc, Thomson Reuters

Records:

Incentive

1. Evaluation form submitted by faculty, together with copy of paper.
2. Points allotted to each publication.
3. Total points accrued by each faculty.
4. Letters sent to HOI, when 24 points are accumulated by faculty.

ANNEXURE 7.5

Unique Tracking number for Research Grant applications

Ref: MU/REG/CIR

Date: September 11, 2012

CIRCULAR

In an attempt to streamline the process of following up on applications for research grants by individual researchers/departments/institutions to various funding agencies – national and international; it is proposed to allocate a Unique Tracking Number (UTN) for all grant applications. The recommendations from the Directorate of Research are as follows –

1. The UTN will be a 7 digit numeral, where the first two digits are the institutional code as allocated by the Admissions Office, the next two digits represent the calendar year and the block of last three digits is a running, serial number, generated by the institution applying for the grant. Eg: If Dept of Chemical Engineering, MIT is applying for an AICTE grant and the Director, MIT is sending the application in November 2012; the first four digits of the UTN will be 0912. And if there have been 34 applications from all departments of MIT in the current calendar year, the UTN for this application will be 0912035.
2. All the institutions and departments will send a monthly compilation of proposals handled by them during the month to the Directorate of Research. The format of the monthly form will be sent by the Directorate in the next one week.
3. The database of all applications will be maintained in the Directorate until closure. An application may be approved in entirety by the funding agency, approved with amendments or rejected. The Directorate will track and follow up the proposal until the submission of the final report and utilization certificate to the funding agency.
4. UTN is an internal tracking mechanism and for use only in University/interdepartmental communications.
5. Generation of UTN will be mandatory from 01.10.2012.
6. The HoIs/HoDs who receive communications from funding agencies regarding application status are requested to keep the Directorate updated.

I request the cooperation of all the Heads of Institutions and Departments in implementing this new initiative.

Dr. G. K. Prabhu
Registrar

To:- Heads of Institutions / University Teaching Departments / Research Centers of MU

Copy to:- Vice Chancellor | Pro Vice Chancellors, MU, Manipal
Director Research (Health Sciences | Technical) – *for the needful*
Director Finance, MU, Manipal

ANNEXURE 7.6

Review and Impact of Training Programme

Held for the nonteaching staff of Manipal University, Manipal

The consolidated details of the training programme and its feedback analysis was presented in the MRM held during January 2015.

A glimpse of the training programme is detailed here below:

Non-teaching Staff				
#	Batch No.	Number of employees	Dates of Training (8 hrs)	Overall Average score of Feedback on the training programme conducted (out of 5)
1	Batch - I	37	March 24, 2014	4.5
2	Batch - II	33	March 26, 2014	4.4
3	Batch - III	38	March 29, 2014	4.4
4	Batch - IV	39	April 9, 2014	4.4
5	Batch - V	36	April 16, 2014	4.5
6	Batch - VI	38	April 23, 2014	4.6
7	Batch - VII	22	May 07, 2014	4.7
<i>Overall remarks: Good and useful session</i>				
Summary of Training Effectiveness Analysis for the year 2014 - 2015				
(Feedback on Training Effectiveness collected from the supervisors in November 2014)				
#	Particulars	Average Score (Out of 5)		Total Average Score
		Executive Level	Administrative Staff Level	
1	Duration of the training per day	4.3	4.4	4.4
2	Selection of topics / course	4.4	4.3	4.3
3	Coordination of training by HR Team	4.5	4.5	4.5
4	Improvement of general efficiency	4.4	4.3	4.3
5	Positive change in their attitude	4.4	4.3	4.3
6	Ability to complete the given task	4.3	4.4	4.4
7	Participating as a team member	4.3	4.3	4.3
8	Motivating / encouraging other team members	4.1	4.2	4.1
9	Communicate effectively at work place	4.3	4.4	4.3
10	Punctually in work and commitment	4.4	4.5	4.4
	Overall Average Score	4.34	4.36	4.33

ANNEXURE 8.1

Academic Senate Members (2015)

#	Name	Position
1	Dr V M Katoch	Secretary to the Govt of India, Dept of Health Research, Ministry of Health & Family Welfare & Director General, Indian Council of Medical Research, New Delhi
2	Mr M D Nalapat	UNESCO Peace Chair, Gurgaon
3	Prof M S Ananth	Former Director, IIT Madras, Chennai Visiting Professor, Dept. of Chemical Engineering, Indian Institute of Science, Bangalore
4	Dr G N Singh	Secretary-cum-Scientific Director, Indian Pharmacopoeia Commission, Ministry of Health and Family welfare, Govt of India, Drug Controller General of India, Ghaziabad
5	Dr Sandeep Sancheti	Former Director, NITK Surathkal President, Manipal University Jaipur
6	Dr H Sudarshan Ballal	Medical Director & Chairman of Medical Advisory Board, Manipal Health Enterprises Private Ltd, The Annexe, 98/2, Rustom Bagh, Off HAL Airport Road, Bengaluru - 560017
7	Dr Mathew J Manimala	Prof, Indian Institute of Management, Bangalore
8	Mr Sashi Kumar	Chairman, Media Development Foundation & Asian College of Journalism, Second Main Road, Taramani, Chennai - 600113
9	Prof Mohamed Faizuddin	Former President, Indian Society of Periodontology, No 339, 4 th cross, 1 st stage, HBR Layout, Bengaluru – 560043
10	Dr Thomas V Chacko	Director, PSG – FAIMER South Asia Regional Institute, Secretary-General SEARAME, Prof & Head, Community Medicine & Medical Education, PSG Institute of Medical Sciences & Research, Coimbatore – 641004

Academic Senate Members (2002)

#	Name	Position
1	Dr N Chandrasekaran	Pro Vice-Chancellor, MIIIT, Bangalore
2	Dr R Seethalaxmi	Director of Medical Education, Govt of Karnataka, Bangalore
3	Dr S Chandrashekar Shetty	Vice Chancellor, Rajiv Gandhi University of Health Sciences, Bangalore
4	Dr (Mrs) Naina S Potdar	Principal, Bombay Nurses Training Institute, Mumbai
5	Dr (Mrs) Leela S Punja	HOD of Oral Pathology, Nair Hospital Dental College, Mumbai
6	Dr K V Thiruvengadam	41, GN Chetty Road, Chennai
7	Dr T NavneethRao	Chairman, Swami RamanandaThirtha Rural Institute, Hyderabad

ANNEXURE 8.2A

BoS – External members - Technical education

Sl. No	Board	External Member Name
1	MIT	<ol style="list-style-type: none"> 1. Mr. C N Raghupathi, Infosys Ltd., 44, Electronics City, Hosur Road, Bangalore – 560100 2. Prof (Dr) T P M Pakkala, Department of Statistics, Mangalore University, Mangalagangothri - 574199 3. Mr. Amitabh Vaidya, G M, Mahendra Reva, Bangalore 4. Dr. Vasudev Rao, Professor, TAPMI, Manipal
2	School of Communication	<ol style="list-style-type: none"> 1. Mr Jayant Kaikini, Writer/Journalist, E 204, Adrasha Hill Apartment, Opp. Dayanand College, Kumaraswamy Layout, Bangalore – 560078 2. Ms Maya Sharma, Senior TV Journalist, NDTV, 60/1, Coles Road, Fraser Town, Bangalore - 560005 3. Mr Nagesh Hegde, Senior Journalist, Mytri Grama, Sulikere Post, Kengeri Hobli, Bangalore-560060 4. Dr Niranjan Vanalli, Professor of Communication, Manasa Gangotri, Mysore University, Mysore 5. Mr Girish Kasaravalli, Film maker, Bangalore – Member 6. Prof Manu Chakravarthy, Film Critic, Flat # B, No 211, Kumbhavilla Apartment, 9th Cross, J P Nagar, II Phase, Bangalore – 560078 7. Mr Sivakumar, Dream Works Animation India Limited, Level 11, Navigator ITPB, Whitefield, Bangalore – 560066 8. Mr S R Vijay Shankar, Head, Corporate Affairs, Intel Technology India Pvt Ltd, 23-56, P, Outer Ring Road, Devara Beesana Halli, Varthur Hobli, Bellandur Post, Bangalore – 560103
3	School of Information Science	<ol style="list-style-type: none"> 1. Dr. Laxminidhi, Assistant Professor, Dept. of E&C, NITK, Surathkal 2. Dr. Niranjan U C, Director, R&T, MDN, Manipal 3. Mr. Sandeep Patil H G, Applied Cognition Systems Pvt. Ltd., Bangalore
4	School of Management	<ol style="list-style-type: none"> 1. Dr. Gururaj Kidiyoor, Professor, TAPMI, Manipal 2. Dr. A H Sequeira, Professor & Head Dept of HSS, NITK, Surathkal 3. Mr. Harinarayan Sharma, Chief Officer-Strategy & Business Development, Manipal Hospital, 98 HAL Airport Road, Bangalore- 560017
5	Faculty of Architecture	<ol style="list-style-type: none"> 1. Mr. Ajit Vyas Architect ,Urban Designer, PLURAL Architech, Plural Planners Urban Alternatives(P)Ltd, Prarthana, Nirmal Garden, Kunjan Bava Road, Vyttila, Ernakulam-682019. 2. Mr. Ashok Mendonca , Mendonca Associates, Basement Floor, Shalom Shopping Complex, Fr. Muller Road, Jeppu, Mangalore-575002

6	Dept of Mathematics, MIT	1. Dr S Parameshwara Bhat, Professor, Dept of Mathematics, Mangalore University, Konaje
7	Dept of Physics MIT	1. Dr Kasturi V Bangera, Professor, Dept of Physics, NITK, Surathkal
8	Dept of Commerce	<ol style="list-style-type: none"> 1. Mr. Ravi Krishnamurthy, Executive Director – Marketing, SBI Life Insurance Pvt Ltd, A 303, Joy Valencia, JVLR, Opposite Mejas Bus Depot, Andheri (East), Mumbai (BBA) 2. Mr. Sai Shridhar, Counsellor, CII Institute of Logistics, Unit E, 10th Floor, IIT Madras Research Park, Kanagam Road, Taramani, Chennai 600 113 3. Mr. Muralidhar Kini, Chartered Accountant, 22 Anant Nagar, Before Saina Clinic, Manipal 4. Mr. Ayan Mahapatra, National Head- Academic Relations, CIMA, CIMA India Liaison Office, Sunshine Towers, 32nd Floor, 616, Senapati Bapat Marg, Elphinstone, Mumbai 5. Dr. Rajiv Noronha, Head – Organization Effectiveness BPS, TATA Consultancy Services, Electronic City, Phase II, Bangalore – 560100 6. Ms. Ilham Punjani, Head of Business Relations, ACCA, Suite 5011, 50th Floor, Index Tower, Dubai International Financial Centre, Zabeel, Dubai
9	Dept of Philosophy and Humanities	<ol style="list-style-type: none"> 1. Mr. Akshara K V, Director, Ninasam, Heggodu, Honnesara (Post), Sagar Taluk, Shivamogga - 577417 2. Prof A Raghurama Raju, Professor, Dept of Philosophy, University of Hyderabad, AP - 500046 3. Prof Gopal Guru, Professor, School of Social Science, JNU, New Delhi
10	Dept of European Studies	<ol style="list-style-type: none"> 1. Dr. Sudarsan Padmanabhan, Associate Professor, Humanities and Social Sciences, Indian Institute of Technology Madras, Chennai – 600036 2. Dr. Jayaraj Amin, Professor, Department of Political Science, Mangalore University, Mangalore
11	Dept of Atomic and Molecular Physics	<ol style="list-style-type: none"> 1. Dr. Deepak Mathur, Professor, TIFR, Homibhaba Road, Navy Nagar, Mumbai 2. Dr. Aditya Dharmadhikari, TIFR, Homibhaba Road, Navy Nagar, Mumbai 3. Dr. T Pradeep, Professor, Department of Chemistry, Indian Institute of Technology - Madras, Chennai - 600 036

		4. Dr. N Gautham, Professor, Department of Crystallography and Biophysics, University of Madras, Chennai
12	Manipal Center for Natural Sciences	<ol style="list-style-type: none"> 1. Dr. Y. K. Gambhir, Distinguished Fellow, Department of Physics, IIT-Powai, Mumbai - 400076 2. Dr. Ajit Kembhavi, Adjunct Faculty, Director, Inter-University Centre for Astronomy and Astrophysics, Pune
13	Dept. of Design	<ol style="list-style-type: none"> 1. Ms. Sangeeta Shroff, Former Professor, NIFT Consultant, Design Education & Strategy, 6, Merchant Park, Paldi, Ahmedabad-380007 2. Mr. Faidhan Bhalli, Udefine Empire Mall, Mangalore-575001 3. Mr. Wendell Rodricks, Fashion Designer, 158 Near Francisco Loui Louis Gomme Garden Campal, Panjim, Goa – 403001
14	Dept. of Chemistry	<ol style="list-style-type: none"> 1. Dr. J. Keshavayya, Professor, Department of Chemistry, Kuvempu University, Jnanasahyadri, Shankaraghatta, Shimoga (Dist.), Karnataka 2. Dr. Balakrishna Kalluraya, Professor, Department of Organic Chemistry, Mangalagangothri, Mangalore University 3. Dr. P. K. Vasudeva, Deputy General Manager (R&D), SeQuent Research Limited, 120 A& B, Industrial Area, Baikampady, New Mangalore - 575011
15	Dept. of Geology	<ol style="list-style-type: none"> 1. Dr. B R Manjunath, Professor, Dept of Marine Geology, Mangalore University, Mangalagangothri - 574199 2. Dr. K N Chandrashekharappa, Professor & Head, Dept of Geology, Kuvempu University, Shivamogga – 577451

BoS – External members - Health Sciences

Sl. No	Board	External Member Name
1	Life Science	<ol style="list-style-type: none"> 1. Prof RiazMohamood, Prof & Chairman, Dept of Biotechnology & Bioinformatics, Kuvempu University, 2. DrRaviraja N S, Centre Head, Stempeutics Research Pvt Ltd, Manipal
2	Dental	<ol style="list-style-type: none"> 1. Dr Siddharth Pandit, Professor, Dept. of Oral Pathology and Microbiology, A.J. Institute of Dental Sciences, NH 17, Kuntikana, Mangalore- 575004 2. Dr Laxmikant Chatra, Professor& Head, Dept of Oral Medicine and Radiology, Yenepoya Dental College, Mangalore 3. Dr Rajaram Naik, Prof, Dept of Conservation Dentistry, A J Institute of Dental Sciences, NH 17,Kuntikana, Mangalore – 575004 4. Dr. Sudhakar Bhat, Professor & Head, Dept. of Prosthodontics, Shree Hasananba Dental college & Hospital, Vidya Nagar Post 86, Hassan – 573201 5. Dr Moksha Naik, Principal & Professor, Dept of Conservative Dentistry, K.V.G Dental College and Hospital, Sullia
3	Medical	<ol style="list-style-type: none"> 1. Dr Chitra Prakash Rao, Prof & Head, Dept of Anatomy, A J Institute of Medical Sciences, N H 66, Kuntikana, Mangalore – 575004 2. Dr Balraj, Dept of Forensic Medicine, J S S Medical College, SS Nagar, JSS Medical institutions campus, Mysore 570015 3. Dr P S Prakash, HOD, Medicine and Assoc Dean, K S Hegde Medical Academy, P O Nithyananda Nagar, Deralakatte, Ullal, Mangalore – 575022 4. Dr Rajesh Ballal, Dept of Surgery, K S Hegde Medical Academy, P O Nithyananda Nagar, Deralakatte, Ullal, Mangalore – 575022
4	Pharmacy	<ol style="list-style-type: none"> 1. Dr K V S R G Prasad, Prof, Dept of Pharmacology, Institute of Pharmaceutical Technology, Sri PadmavathiMahilaViswavidyalayam, Tirupati 2. Dr Dinesh Shenoy, Senior General Manager (F & D), Mylan Laboratories Limited, Plot No 31,32,33 & 34 A, Anrich Industrial Area, Bollarum, Jinnaram (Mandal), Medak - 502325

ANNEXURE 8.3

Inter Institutional / University Linkages

A. Interdisciplinary Programs and Departments involved:

Engineering

Sl. No.	Interdisciplinary Program	Department involved
1	Aeronautical and Automobile Engineering	<ul style="list-style-type: none"> ➤ Dept of Mathematics, MIT Manipal ➤ Dept of Humanities and Management, MIT Manipal ➤ Dept of Instrumentation and control Engineering, MIT Manipal
2	Biomedical Engineering	<ul style="list-style-type: none"> ➤ School of Lifesciences, KMC Manipal ➤ Dept of Mathematics, MIT Manipal ➤ Dept of Anatomy and Physiology, KMC Manipal ➤ Dept of Cardiology, Anaesthesiology and ENT, KMC Manipal ➤ Dept of Ophthalmology, and Speech and Hearing, SOAHS, KMC Manipal ➤ Depts of Radiology, Radiotherapy and Neurology, KMC Manipal ➤ Dept of Mechanical and Manufacturing Engineering, MIT Manipal ➤ Dept of Humanities and Social Sciences, MIT, Manipal ➤ Dept of Mathematics, MIT, Manipal ➤ Dept of Speech and Hearing and Physiotherapy, SOHAS, KMC Manipal
3	Department of Biotechnology	<ul style="list-style-type: none"> ➤ Dept of Mathematics, MIT, Manipal ➤ Dept of Humanities and Social Sciences, MIT, Manipal
4	Chemical Engineering	<ul style="list-style-type: none"> ➤ Dept of Mathematics, MIT, Manipal ➤ Dept of Chemistry, MIT, Manipal ➤ Dept of Humanities and Social Sciences, MIT, Manipal
5	Civil Engineering	<ul style="list-style-type: none"> ➤ Dept of Mathematics, MIT, Manipal ➤ Dept of Humanities and Social Sciences, MIT, Manipal
6	Computer Applications	<ul style="list-style-type: none"> ➤ Dept of Commerce, SOM, MIT Manipal ➤ Dept of Mathematics, MIT, Manipal ➤ Dept of Humanities and Social Sciences, MIT, Manipal

7	Computer Science and Engineering	<ul style="list-style-type: none"> ➤ Dept of Mathematics, MIT, Manipal ➤ Dept of Humanities and Social Sciences, MIT, Manipal ➤ Dept of Civil Engineering, MIT, Manipal ➤ Dept of Mechanical and Manufacturing, MIT, Manipal ➤ Dept of Physics, MIT, Manipal ➤ Dept of Electronics and Communication, MIT, Manipal ➤ Dept of Electrical and Electronics Engineering, MIT, Manipal ➤ Chemistry, MIT, Manipal ➤ Humanities and Social Sciences, MIT, Manipal
8	Electronics and Communication Engineering	<ul style="list-style-type: none"> ➤ Dept of Mathematics, MIT, Manipal ➤ Dept of Humanities and Social Sciences, MIT, Manipal
9	Electrical and Electronics Engineering	<ul style="list-style-type: none"> ➤ Mechatronics, MIT, Manipal
10	Instrumentation and Control Engineering (I and CE)	<ul style="list-style-type: none"> ➤ Dept of Mathematics, MIT, Manipal ➤ Dept of Humanities and Social Sciences, MIT, Manipal ➤ Dept of Physics, MIT, Manipal ➤ Dept of Electrical & Electronics, MIT Manipal ➤ Dept of Electronics & Communication, MIT Manipal ➤ Dept of Civil Engineering, MIT, Manipal ➤ Dept of Mechanical and Manufacturing, MIT Manipal ➤ Dept of Computer Science, MIT Manipal
11	Information and Communication Technology	<ul style="list-style-type: none"> ➤ Dept of Mathematics, MIT, Manipal ➤ Dept of Civil Engineering, MIT, Manipal ➤ Dept of Electronics & Communication, MIT Manipal ➤ Dept of Mechanical and Manufacturing, MIT Manipal ➤ Dept of Physics, MIT, Manipal ➤ Dept of Humanities and Social Sciences, MIT, Manipal ➤ Dept of Electrical & Electronics, MIT Manipal ➤ Dept of Computer Science, MIT Manipal ➤ Dept of Chemistry, MIT, Manipal

12	Mechanical & Manufacturing Engineering	<ul style="list-style-type: none"> ➤ Dept of Mechatronics, MIT, Manipal ➤ Dept of Mathematics, MIT, Manipal ➤ Dept of Humanities and Social Sciences, MIT, Manipal ➤ Dept of Electronics & Communication, MIT Manipal ➤ Dept of Instrumentation and Control Engineering, MIT Manipal ➤ Dept of Humanities and Social Sciences, MIT, Manipal ➤ Dept of Electrical & Electronics, MIT Manipal ➤ Dept of Computer Applications, MIT Manipal ➤ Dept of Computer Science, MIT Manipal ➤ Dept of Physics, MIT, Manipal
13	Mechatronics Engineering	<ul style="list-style-type: none"> ➤ Dept of Mathematics, MIT, Manipal ➤ Dept of Mechanical and Manufacturing, MIT Manipal ➤ Dept of Electrical & Electronics, MIT Manipal ➤ Dept of Electronics & Communication, MIT Manipal ➤ Dept of Instrumentation and Control Engineering, MIT Manipal ➤ Dept of Mechanical and Manufacturing, MIT Manipal ➤ Dept of Computer Science, MIT Manipal
14	Printing and Media Engineering =	<ul style="list-style-type: none"> ➤ Dept of Mathematics, MIT, Manipal ➤ Dept of Electrical & Electronics, MIT Manipal ➤ Dept of Mechanical and Manufacturing, MIT Manipal ➤ Dept of Computer Applications, MIT Manipal ➤ Dept of Electronics & Communication, MIT Manipal ➤ Dept of Humanities and Social Sciences, MIT, Manipal ➤ Dept of Computer Science, MIT Manipal

Geopolitics and International Relations

Sl. No.	Interdisciplinary Program	Departments involved
1	Study Abroad Program with Universities in the United States	<ul style="list-style-type: none"> ➤ Dept of Geopolitics & International Relations ,SOC,MIT,Manipal ➤ Dept of Philosophy & Humanities, SOC, MIT Manipal, ➤ Dept of Public Health,KMC Manipal ➤ Dept. of Ayurveda, KMC, Manipal

Information Sciences

Sl no	Interdisciplinary Program	Departments Involved
1	MSc Tech	Dept of Mathematics, MIT Manipal

Philosophy and Humanities

Sl. No.	Interdisciplinary Program	Department involved
1	Three month Research and Writing Workshop for MU faculty	TAPMI, Manipal
2	Certificate Course on "Perspectives on Disability"	SOAHS, KMC Manipal
3	Teaching Modules on logic, ethics, medical humanities, humanities for engineering and architecture etc	MMMC, KMC, TAPMI, FOA and MIT

Medical

Sl. No.	Interdisciplinary Program	Department involved
1	MBBS	Problem based clinically integrated learning process: based on the problem different departments from pre, para clinical and clinical subjects participate in the activity.
2	MHA	School of Management

Allied Hospitality Studies

Sl. No.	Interdisciplinary course	Department involved
1	MSc Dietetics	Dept of Hospital Administration, KMC, Manipal
2	MSc (DAN)	Dept of Biochemistry, KMC, Manipal Dept of Physiology, KMC, Manipal Dept of Hospital Administration, KMC Manipal

School of Allied Health Sciences

Sl. No.	Interdisciplinary course	Department involved
1	BSc (MRT)	School of Lifesciences, KMC, Manipal
2	MSc (Medical Radiation Physics)	
3	MSc- HHIA	Dept of Hospital Administration, KMC, Manipal
4	MSc- MIT	Dept of Hospital Administration, KMC, Manipal

Dental

Sl. No.	Interdisciplinary course	Department involved
1	BDS(Prostodontics)	School of Allied Health Sciences School of Lifesciences

Statistics

Sl. No.	Interdisciplinary course	Department involved
1	Certificate course in Biostatistics and Epidemiology	School of Allied Health Sciences

School of Life Sciences

Sl. No.	Interdisciplinary course	Department/Constituent unitinvolved
1	BSc Biotechnology	KMC, MIT, MCOPS, Dept of Statistics,KMC,ManipalComputer and Information Sciences
2	MSc Medical Biotechnology	MCOPS, Dept of Statistics,KMC ,Manipal
3	MSc Molecular Biology and Human Genetics	KMC, Dept of Statistics
4	MSc Bioinformatics	Dept of Statistics,KMC,Manipal,Computer and Information Sciences
5	Certificate Course in Bioinformatics	Computer and Information Sciences
6	PhD	KMC,Manipal, MCOPS, Dept of Statistics,KMC,Manipal

Nursing

Sl. No.	Interdisciplinary program	Department involved
1	MSc	School of Life sciences, KMC Manipal

Public Health

Sl. No.	Interdisciplinary program	Department involved
1	MPH	<ul style="list-style-type: none"> ➤ Department of Statistics, KMC Manipal ➤ School of Communication,MIT,Manipal ➤ School of Management,MIT,Manipal ➤ Dept of Hospital Administration ,KMC ,Manipal

Pharmaceutical Sciences

Sl. No.	Interdisciplinary program	Department/University involved
1	Integrated MBA	School of Management, MIT ,Manipal

Regenerative Medicine

Sl. No.	Interdisciplinary program	Department/Institution involved
1	MSc	<ul style="list-style-type: none"> ➤ Pharmacology Department ,MCOPS ,Manipal ➤ Dept of Statistics,KMC,Manipal ➤ School of Lifesciences,KMC Manipal ➤ Stempeutics Research pvt Ltd

Architecture

	Interdisciplinary Program	Department involved
1	B Arch /MArch	<ul style="list-style-type: none"> ➤ Dept of CivilEngineering,MIT,Manipal ➤ Dept of Mechanical,MIT,Manipal ➤ Dept of Electrical,MIT,Manipal

European Studies

	Interdisciplinary Program	Department/Institution involved
1	MA(European Studies)	<ul style="list-style-type: none"> ➤ TAPMI, ➤ Dept of Geopolitics and International Relations,SOC,MIT Manipal, ➤ Dept of Humanities and Social Sciences,MIT

Atomic and Molecular Physics

Sl No	Program	Collaboration with
1	MSc	School of Information Sciences,

B. Courses / Collaborations with other universities, industries, foreign institutions, etc.**Engineering**

Sl. No.	Program	Collaboration with
Chemical Engineering		
1	MTech	University of Nottingham University of South Alabama

Computer Science and Engineering		
2	B Tech/ M Tech	Infosys ,EMC ² ,Intel,Cisco
Information and Communication technology		
3	M Tech (Software Engineering) Dual degree	TU/e,Eindhoven,Netherlands
Printing Technology		
4	MTech (Printing and Media Technology) Dual degree	Chemnitz University of Technology.

Management

Sl. No.	Program	Collaboration with
1	MBA	Group T University ,Belgium

Allied Hospitality Studies

Sl no	Program	Collaboration with
1	MSc(HTM)	University College,Birmingham,UK
2	BHMTT	Waikato University,New Zealand

European Studies

Sl no	Program	Collaboration with
1	MA (European Studies) Dual Degree	<ul style="list-style-type: none"> • Hochschule Bremen University of Applied Sciences, Germany • Universite de Provence Aix Marseille I, France • University of Latvia, Riga, Latvia • Metropolitan University Prague, CzechRepublic

Communication

Sl No	Program	Collaboration with
1	Masters Programme in Film Art and Film Making-Dual Degree	EICAR ,France

Information Sciences

Sl No	Program	Collaboration with
1	MSc Tech (Dual Degree)	<ul style="list-style-type: none"> ➤ ESIGELEC(France) ➤ Lancaster University (LU),UK ➤ Edinburgh Napier University(ENU),UK ➤ Group T University,Belgium
2	MSc Tech	<ul style="list-style-type: none"> ➤ Medical Software with Applied Cognition Systems, Bangalore ➤ VLSI System Design and Verification with Whizchip Technologies Pvt Ltd., Bangalore. ➤ VLSI Design with Whizchip Technologies Pvt Ltd., Bangalore ➤ Embedded Systems with Applied cognition Systems, Bangalore ➤ Embedded Systems withBrisa Technologies , Bangalore ➤ Medical Software withPancea Technologies , Bangalore ➤ Embedded and Wireless Technology with Applied cognition Systems, Bangalore ➤ Embedded and Wireless Technologies withBrisa Technologies , Bangalore

Commerce

Sl no	Program	Collaboration with
1	BBM (Professional)	Chartered Institute of Management Accountants (CIMA), UK.
2	M Com (Logistics and Supply Chain Management)	Confederation of Indian Industry (CII), Logistics Institute, Chennai.
3	Post Graduate Diploma in Jewellery Sales and Retail Operations	Reliance Jewels

Allied Health Sciences

Sl no	Program	Collaboration with
1	MPT in Sports and Clinical Biomechanics	Robert Gordon University, Scotland

Life Sciences

Sl no	Program	Collaboration with
1	MSc Bioinformatics	Maastricht University, the Netherlands.

Public Health

Sl No	Program	Collaboration with
1	Foundation course on Global Health (e-Learning)	Maastricht University, The Netherlands and McMaster University, Canada

Statistics

Sl No	Program	Collaboration with
1	Executive education programme in Biostatistics	Novartis, Hyderabad

Pharmaceutical Sciences

Sl No	Program	Collaboration with
1	MSc	Napier Edinburgh University, UK

C. Dual degree Programs of Manipal University

Sl No	Partner University	MU Institution/ Dept	Study period in Manipal	Study period in partner University	MU Degree	Partner Degree
1	Technical University, Eindhoven, The Netherlands	MIT/ ICT	12 months	12 months	M Tech (Software Eng)	M Sc
2	Technical University, Chemnitz, Germany	MIT/Printing tech	06 months	06 months + 12 months	M Tech (Printing tech)	M Sc
3	Lancaster University, UK	MCIS	12 months	12 months	M Sc (Tech)	M Sc
4	Edinburgh Napier University, UK	MCIS	12 months	12 months	M Sc (Tech)	M Sc
5	Edinburgh Napier University, UK	MU/DAPS	12 months	12 months	M Sc	M Sc
6	Robert Gordon University, UK	MCOAHS/PT	12 months	12 months	MPT (Sports & Clinical biomechanics)	MSc (Sports Biomech)

7	ESIGELEC, France	MCIS	06 months	06 months + 12 months	M Sc (Tech)	M Sc
8	Groep T International University, Belgium	MCIS	06 months	06 months + 12 months	M Sc (Tech)	M Sc (Electronics)
9	Groep T International University, Belgium	MCIS	12 months	12 months	M Sc (Tech)	M Sc (Electromech)
10	Groep T International University, Belgium	MIM	12 months	12 months	MBA	PGD
11	EICAR, France	MIC	12 months	12 months	MFA	M Sc
12	Maastricht University, The Netherlands	MLSC	12 months	12 months	M Sc (Bioinf)	M Sc
13	Hochschule Bremen, Germany	MU/MCES	18 months	06 months	MESM	MES
15	University of Nottingham, UK	MIT/ Chemical Eng	12 months	12 months	M Tech (Chem)	M Sc
16	University of Southern Alabama, USA	MIT/ Chemical Eng	12 months	12 months	M Tech (Chem)	M Sc

The university is successful in offering dual degree programmes through its constitute institutes, centers and departments in collaboration with universities abroad. The programme provides opportunity for students to have an experience to go through higher education systems in India as well as abroad. It also provides an opportunity to accomplish their research objectives by getting an opportunity to carry out Doctoral research after successful completion of dual degree.

ANNEXURE 8.4

Departmental Library books

Mangalore campus - Medical Books

SL. No	Name of the Department	Number of Books
1	Anatomy	430
2	Anaesthesia	183
3	Animal house	5
4	Biochemistry	276
5	Blood Bank	13
6	Cardiology	30
7	Community Medicine	390
8	Chest Medicine	71
9	ENT	216
10	Forensic Medicine	172
11	Gastroenterology	3
12	KMC-Office	17
13	Medicine	86
14	Medical Education	01
15	Microbiology	219
16	MRD	16
17	OBG	133
18	Ophthalmology	89
19	Pathology	518
20	Paediatrics	105
21	Pharmacology	156
22	Physiotherapy	178
23	Psychiatry	56
24	Physiology	143
25	Photography	2
26	Radiology	77
27	Radio Diagnosis	89
28	Speech & Hearing	182
29	Surgery	108
30	Skin & VD	54
	Total	4018

Dental Books

SL. No	Name of the Department	Number of Books
1	Community Dentistry	46
2	Periodontics	115
3	Oral & Maxillofacial Surgery	88
4	Orthodontics	148
5	Oral Radiology	75
6	Dental Material	36

7	Pedodontics	98
8	Oral Pathology	96
9	Conservative Dentistry	118
10	Prosthodontics	74
	Total	894

Manipal campus – Health Sciences

SL.No.	Department	No.of Books issued to department
1	Anaesthesia	63
2	Anatomy	325
3	Ayurveda	78
4	KMC IC	358
5	Biochemistry	139
6	Biotechnology (life Science)	351
7	Blood Bank	2
8	Cardiology	159
9	Cardiothoracic Surgery	73
10	Clinical Psychology	33
11	Community Medicine	127
12	Clinical Biochemistry	22
13	Clinical Laboratory	20
14	Dr TMA Pai Hospital, Karkala	67
15	Dr TMA Pai Hospital, Udupi	67
16	ENT	78
17	Forensic Medicine	93
18	Gastroenterology	6
19	Hospital Administration	2
20	MMMc (ICHS)	1151
21	MCODS	312
22	MCON	17
23	MCOPS	841
24	Medicine	146
25	Microbiology	131
26	Medical Laboratory Technology	36
27	Health Information Management	105
28	Medical Records Department	43
29	Medical Education	14
30	Medical Imaging Technology	30
31	Manipal Institute of Communication	37
32	Medical Simulation centre	5
33	Nephrology	58
34	Neurosurgery	76
35	Neurology	33
36	Nuclear Medicine	36
37	Obstetrics and Gynecology	117

38	Occupational Therapy	25
39	Ophthalmology	68
40	Orthopedics	23
41	Pediatrics	68
42	Pediatric Surgery	36
43	Pathology	72
44	Pharmacology	149
45	Physiology	137
46	Physiotherapy	117
47	Psychiatry	93
48	Pharmacy Manufacturing Wing	8
49	Planning	27
50	Public Health	47
51	Radiodiagnosis	141
52	Radiotherapy	17
53	Respiratory Medicine (PTCD)	6
54	Respiratory Therapy	35
55	Manipal School of Nursing	170
56	Dermatology(Skin & STD)	73
57	CAMP (Spectroscopy)	234
58	Speech and Hearing	39
59	Surgery	35
60	Statistics	18
61	Urology	62
62	Virology	26
	Total	6977

Manipal campus –Technical Education

SL.No.	Department	No.of Books issued to department
1	Architecture	117
2	Biomedical Engg.	150
3	Chemical Engg.	66
4	Civil Engg.	110
5	Computer Science &Engg.	132
6	Electrical & Electronics Engg.	370
7	Electronics & Communication Engg.	271
8	Mechanical & Manufacturing Engg.	1034
9	Printing & Media Engg.	145
10	Information & Communication Technology	49
11	Instrumentation & Control Engg.	230
12	Biotechnology	0
13	Mechatronics	110
14	Aeronautical & Automobile Engg.	190
15	Dept. Of Computer Applications (M C A)	17
16	Physics	105

17	Chemistry	83
18	Mathematics	178
19	Continuing Education	70
20	Academic Section	2
21	HAM Club	10
22	Hostel Library	692
23	Dept. of European Studies	4536
24	Department of Philosophy and Humanities	3760
25	Commerce	856
	Total	13283

There is no Departmental library concept in the small institutions like School of Management, School of Communication and Welcomgroup Graduate School of Hotel Administration, as these institutions have exclusive in-house library.

ANNEXURE 8.5

Staff Ph D count:

Unit Name	Male	Female	Total
Kasturba Medical College, Manipal	16	11	27
School of Allied Health Sciences, Manipal	17	10	27
School of Life Sciences, Manipal	16	4	20
Department of Statistics	4	1	5
Department of Public Health	1	1	2
Department of Virus Research	1	0	1
Department of Library & Information Science	2	1	3
Manipal College of Dental Sciences, Manipal	4	0	4
Manipal College of Nursing, Manipal	1	11	12
Manipal College of Pharmaceutical Sciences, Manipal	46	9	55
Melaka Manipal Medical College – Manipal Campus	19	13	32
Kasturba Medical College, Mangalore	12	23	35
Manipal College of Dental Sciences, Mangalore	1	0	1
Manipal Institute of Technology, Manipal	160	35	195
Faculty of Architecture, Manipal	1	2	3
Department of Atomic and Molecular Physics	5	1	6
Manipal Centre for Natural Sciences	3	0	3
School of Management, Manipal	5	3	8
Department of Commerce	1	0	1
School of Communication, Manipal	0	2	2
Department of Geopolitics & International Relations	5	0	5
Department of Philosophy and Humanities	5	2	7
Department of European Studies	0	1	1
School of Information Sciences, Manipal	0	1	1
Welcomgroup Graduate School of Hotel Administration, Manipal	0	0	0
School of Regenerative Medicine, Bangalore	4	2	6
MAHE Dubai Campus	18	7	25
MAHE Melaka Campus	1	2	3
Total number of faculty members with PhD qualification	348	142	490

Ph D awarded – 2013 & 2014

#	Name of the Research Scholar	Title of Thesis	Institution where the research was conducted	Name of the Guide/Super visor	Date of Award
1	Ms. Savitha Swamy	RESHAPING NEIGHBOURHOOD PARKS FOR BIODIVERSITY AND PEOPLE: A STUDY ON POCKET GREEN SPACES IN BANGALORE, INDIA	ATREE, Bangalore	Dr. M. Soubadra Devy	09/01/2013
2	Ms. Sonia Sen	Conserved peripheral and central roles of transcription factors, empty spiracles and orthodenticle, in Drosophila olfactory system development	NCBS, Bangalore	Dr. K. VijayRaghavan	15/01/2013
3	Mr. Kamath Dattaguru Vinayak	INVESTIGATION OF CURRENT-MODE VLSI CONTINUOUS-TIME FILTERS USING DO-OTA, SO-OTA AND VOLTAGE-MODE AMPLIFIERS USING CFOA	MIT, Manipal	Dr. P.V. Ananda Mohan	21/01/2013
4	Mr. Dinesh N.	A STUDY OF SELECT PSYCHOLOGICAL INTERVENTIONS IN THE MANAGEMENT OF CANCER PAIN	MCOAHS, Manipal	Dr. P.S.V.N. Sharma	28/01/2013
5	Ms. Priyankana Mukherjee	DECIPHERING THE MECHANISMS OF ACTIN REORGANIZATION DURING MYOBLAST FUSION	NCBS, Bangalore	Dr. K. VijayRaghavan	01/02/2013
6	Mr. H.M. Rajashekhar Swamy	NON-LINEAR DYNAMIC ANALYSIS OF SOIL STRUCTURE INTERACTION OF THREE DIMENSIONAL STRUCTURE FOR VARIED SOIL CONDITIONS	MIT, Manipal	Dr. Krishnamoorthy	02/02/2013
7	Ms. Gayathry Nayak	EFFECT OF YOGA THERAPY ON PHYSICAL, PSYCHOLOGICAL, BIOCHEMICAL AND OTHER QUALITY OF LIFE PARAMETERS IN PERIMENOPAUSAL WOMEN	KMC, Manipal	Dr. Anjali Rao	02/02/2013
8	Mr. Faizal P.	POPULATION ANALYSIS OF THE PHARMACOKINETIC DATA AND TOXICITIES	MCOPS, Manipal	Dr. Vadhiraaja B.M.,	09/02/2013

		OF PACLITAXEL IN BREAST CANCER PATIENTS			
9	Ms. Swarnali Majumder	APPLICATION OF TOPOLOGY IN INVERSE PROBLEM: GETTING EQUATIONS FROM ECG AND SOUND DATA	NIAS, Bangalore	Dr. Prabhakar G. Vaidya	18/02/2013
10	Ms. Carmelita N. Marbaniang	ArgP protein of Escherichia coli: roles in osmoregulation, gene regulation and inter-relationship with LysG of Corynebacterium glutamicum	CDFD, Hyderabad	Dr. J. Gowrishankar	27/02/2013
11	Mr. Vivek Bhaskaran	CLONING, EXPRESSION, PURIFICATION & BIOCHEMICAL CHARACTERIZATION OF A PUTATIVE PEPTIDASE FROM STAPHYLOCOCCUS AUREUS COL0085	St. Joseph's College, Bangalore	Dr. Sandra Misquith	28/02/2013
12	Mr. Sankappa Rai U.	STUDIES ON SYNTHESIS, CHARACTERIZATION AND BIOLOGICAL ACTIVITY OF SOME NITROGEN CONTAINING HETEROCYCLIC 516COMPOUNDS	MIT, Manipal	Dr. Arun M. Isloor	02/03/2013
13	Mr. Chetana H.C.	ASSESSING THE ECOLOGICAL PROCESSES IN ABANDONED TEA PLANTATIONS AND ITS IMPLICATION FOR ECOLOGICAL RESTORATION IN THE WESTERN GHATS, INDIA	ATREE, Bangalore	Dr. T. Ganesh	08/03/2013
14	Mr. Fiddy Davis J.	DOSE RESPONSE RELATIONSHIP BETWEEN EXERCISE INTENSITY AND C REACTIVE PROTEIN IN HEALTHY INDIVIDUALS	MCOAHS, Manipal	Dr. Sudha Vidyasagar	20.03.2013
15	Mr. Mayukh Chatterjee	An Uncommon Performing Monkey: Behavioural Flexibility and Social Diversity in the Northern Bonnet Macaque <i>Macaca radiata radiata</i>	NIAS, Bangalore	Dr. Anindya Sinha	23.03.2013
16	Mr. G. Arvind Kumar	BIOAVAILABILITY ENHANCEMENT OF CANDESARTAN CILEXETIL AND EPROSARTAN	MCOPS, Manipal	Dr. M. Sreenivasa Reddy	02/04/2013

		MESYLATE USING MICROEMULSION TECHNOLOGY			
17	Mr. Praful Balavant Deshpande	ORAL NANOPARTICULATE DRUG DELIVERY SYSTEMS OF LERCANIDIPINE	MCOPS, Manipal	Dr. N. Udupa	05/04/2013
18	Mr. Shah Nishant Nikunj	THE TECHNOSOCIAL SUBJECT: CITIES, CYBORGS AND CYBERSPACE	CSCS, Bangalore	Dr. S.V. Srinivas	09/04/2013
19	Ms. Leelavathi D. Acharya	EVALUATION OF PRESCRIPTION PATTERNS AND COST OF ILLNESS OF TYPE-2 DIABETIC PATIENTS IN A TERTIARY HEALTH CARE HOSPITAL	MCOPS, Manipal	Dr. N.R. Rau	13/04/2013
20	Mr. James Arulraj	INTERCALATION OF ORGANIC ANIONS AND INTRACRYSTALLINE REACTIONS IN ANIONIC CLAYS	St. Joseph's College, Bangalore	Dr. Michael Rajamathi	16/04/2013
21	Ms. Mency Sebastian	LAYERED COMPOSITES FOR ELECTROCHEMICAL CHARGE STORAGE DEVICES	St. Joseph's College, Bangalore	Dr. Michael Rajamathi	16/04/2013
22	Ms. Jyothi Machado	SEMICONDUCTOR AND MAGNETIC OXIDE NANOPARTICLES AND LAYERED SOLIDNANOPARTICLE COMPOSITES FROM LAYERED SOLID PRECURSORS	St. Joseph's College, Bangalore	Dr. Michael Rajamathi	26/04/2013
23	Ms. Bhagyajyothi D.	THE ROLE OF SELECT INDIGENOUS PHYTOTHERAPEUTIC AGENTS IN AMELIORATING THE COMPLICATIONS IN STREPTOZOTOCIN INDUCED DIABETIC RATS	KMC, Mangalore	Dr. C.V. Raghuv eer	29/04/2013
24	Mr. Radish Kumar B.	ASSESSMENT OF SWALLOWING IN ADULTS: QUALITATIVE AND QUANTITATIVE MEASURES	KMC, Mangalore	Dr. Jayashree S. Bhat	03/05/2013
25	Mr. Jamshaid Ali	Computational annotation of typical apicomplexan proteins and biochemical studies of highly conserved <i>Plasmodium falciparum</i> acyl CoA binding proteins	CDFD, Hyderabad	Dr. Akash Ranjan	04/05/2013

26	Mr. Niranjana S.	CHARACTERISATION OF NANOCARBON THIN FILMS	MIT, Manipal	Prof. B.S. Satyanarayana	06/05/2013
27	(Late) Ms. Vimala Parthasarathy	SOCIAL MARKETING STRATEGIES OF SUCCESSFUL NGOs-A STRATEGIC PERSPECTIVE WITH REFERENCE TO SELECTED NGOs IN THE STATES OF KARNATAKA & TAMIL NADU	Bharathiya Vidya Bhavan, Bangalore	Dr. N.S. Viswanath	18/05/2013
28	Mr. Sanjiban Chakrabarty	CONSTRUCTION AND CHARACTERIZATION OF HUMAN BAC LIBRARY	MLSC, Manipal	Dr. K. Satyamorthy	03/06/2013
29	Mr. S. Sudarshan	STRUCTURAL CHANGES IN THE HIPPOCAMPUS ASSOCIATED WITH TEMPORAL LOBE EPILEPSY	MMMC, Manipal	Dr. Satheesha Nayak B.	10/06/2013
30	Mr. Debapriyo Chakraborty	Genes in Space and Time Population Genetic Structure and Demographic History of Two Primate Species, the Arunachal Macaque <i>Macaca munzala</i> and Bonnet Macaque <i>Macaca radiata</i>	Nature Conservation Foundation, Mysore	Dr. Anindya Sinha	11/06/2013
31	Mr. Md Khursheed	IDENTIFICATION AND FUNCTIONAL CHARACTERIZATION OF NOVEL PANCREATIC CANCER GENE(S)	CDFD, Hyderabad	Dr. M.D. Bashyam	22/06/2013
32	Ms. Seena Biju	THE 6-SIGMA STRATEGY IN THE QUALITY METRICS OF SERVICES IN ACADEMIC INSTITUTIONS	Dept. of Statistics, Manipal University, Manipal	Dr. N. Sreekumaran Nair	22/06/2013
33	Mr. Sidhartha Kumar Mahali	UNDERSTANDING ADVANCED GLYCATION END PRODUCT (AGE)-MEDIATED CELL SIGNALING AND ITS REGULATION	CDFD, Hyderabad	Dr. Sunil Kumar Manna	02/07/2013
34	Ms. Poornima Panduranga Kundapur	AN EMPIRICAL STUDY ON JENNEX & OLFMAN KMS SUCCESS MODEL IN SOFTWARE SECTORS: DYNAMIC FACTOR ANALYSIS USING SYSTEM DYNAMICS	MIT, Manipal	Dr. Lewlyn L.R. Rodrigues	11/07/2013

35	Ms. Nandini Adwait Sahasrabuddhe	Investigation of role of Dicer using proteomics approach	Institute of Bioinformatics , Bangalore	Dr. Akhilesh Pandey	11/07/2013
36	Dr. Poornima Manjrekar	RELATION OF METABOLIC SYNDROME WITH INFLAMMATORY MARKERS IN NON-DIABETIC FIRST DEGREE RELATIVES OF TYPE 2 DIABETES PATIENTS	KMC, Mangalore	Dr. C.V. Raghuv eer	13/07/2013
37	Ms. Teena Antony	WOMEN'S EDUCATION DEBATES IN KERALA: FASHIONING <i>STHREEDHARMAM</i>	CSCS, Bangalore	Dr. Tejaswini Niranjana	17/07/2013
38	Mr. Gaurav Bairwa	STUDIES ON VIRULENCE FACTORS OF <i>Candida glabrata</i>	CDFD, Hyderabad	Dr. Rupinder Kaur	20/07/2013
39	Mr. Gurumurthy G.P.	MAJOR ION, TRACE ELEMENT AND ORGANIC CARBON GEOCHEMISTRY OF RIVER NETHRAVATI, SOUTHWEST COAST OF INDIA	MIT, Manipal	Dr. K. Balakrishna	20/07/2013
40	Mr. T.N.V. Ganesh Kumar	DESIGN, SYNTHESIS AND EVALUATION OF ANTIMYCOBACTERIAL ACTIVITY OF TRIAZOLES	MCOPS, Manipal	Dr. G. Gautham Shenoy	03/08/2013
41	Ms. Nithyakala C.M.	Isolation and characterisation of antidiabetic and antioxidant compounds from some medicinal plants- <i>Cinnamomum zeylanicum</i> , <i>Cinnamomum camphora</i> , <i>Cinnamomum tamala</i> , <i>Anethum graveolens</i> , <i>Triticum aestivum</i> and <i>Coriandrum sativum</i>	St. Joseph's College, Bangalore	Dr. B.V. Somashekaraiah	06/08/2013
42	Mr. Narayan Sharma	Primates on the Edge: Ecology and Conservation of Primate Assemblages in the Fragmented Lowland Rainforests of the Upper Brahmaputra Valley, Northeastern India	NIAS, Bangalore	Dr. Anindya Sinha	12/08/2013
43	Mr. Bore Gowda S.B.	DESIGN AND IMPLEMENTATION OF CLUSTERING AND ROUTING PROTOCOLS FOR WIRELESS SENSOR NETWORK	MIT, Manipal	Dr. Puttamadappa C.	22/08/2013
44	Ms. Syeda Aisha Hanea	Studies on Transcription-Translation coupling and the consequences of its failure	CDFD, Hyderabad	Dr. J. Gowrishankar	24/08/2013

		in <i>Escherichia coli</i> : Tests for compromised genomic integrity and increased propensity for occurrence of RNA-DNA hybrids (R-loops) in <i>rho</i> and <i>nusG</i> mutants			
45	Mr. Shounak De	ELECTRONIC PROPERTIES OF LOW TEMPERATURE PROCESS GROWN NANOCUSTER CARBON FILMS	MIT, Manipal	Prof. B.S. Satyanarayan a	24/08/2013
46	Ms. Sindhu S. Nair	Chemical and Biochemical characterization of active components in medicinal plants- <i>Artocarpus altilis</i> , <i>Artocarpus heterophyllus</i> and <i>Piper betle</i>	St. Joseph's College, Bangalore	Dr. B.V. Somashekariah	02/09/2013
47	Ms. B. Reshmi	ACCEPTABILITY AND EFFECTIVENESS OF TWO COMMUNITY BASED HEALTH INSURANCE SCHEMES IN KARNATAKA	MCOAHS, Manipal	Dr. N. Sreekumaran Nair	11/09/2013
48	Mr. Suryawanshi Kulbhushansingh Ramesh	Human-Carnivore Conflicts: Understanding predation ecology and livestock damage by snow leopards	Nature Conservation Foundation, Mysore	Dr. Charudutta Mishra	17/09/2013
49	Mrs. Surekha	A STUDY OF INVERSE, MIXED BLOCK DOMINATION AND RELATED CONCEPTS IN GRAPHS	MIT, Manipal	Dr. Pradeep G. Bhat	27/09/2013
50	Mr. Jayesh Mudgal	Anti-inflammatory and anti-hyperalgesic activity of thiazolidin-4-ones and heterocyclic homoprostanoids	MCOPS, Manipal	Dr. N. Gopalan Kutty	28/09/2013
51	Mr. Sanal T.S.	DERIVATION OF A STATISTICAL MODEL FOR PREDICTING POOR CONTROL OF DIABETES MELLITUS	Department of Statistics, Manipal University	Dr. N. Sreekumaran Nair	28/09/2013
52	Mr. Anoop Kishore	An Appraisal of the Anti-diabetic and Hypolipidaemic Activities of Thiazolidine-4-ones With Nicotinamide Moiety in Animal Models	MCOPS, Manipal	Dr. N. Gopalan Kutty	05/10/2013
53	Mr. R. Rajesh	The Study of Pharmacovigilance of Highly Active Antiretroviral Therapy in Human Immunodeficiency Virus Positive Patients	MCOPS, Manipal	Dr. Sudha Vidyasagar	17/10/2013
54	Mr. Shiva Kumar B.M.	Identification of Molecular Markers to Detect Patients with Idiopathic Ulcerative	KMC, Manipal	Dr. Ganesh Pai	22/10/2013

		Colitis at Risk of Developing Colorectal Cancer			
55	Mr. Nitesh Kumar	Development and evaluation of liposomal carrier systems for hepatoprotective agents to target liver	MCOPS, Manipal	Dr. C. Mallikarjuna Rao	23/10/2013
56	Mr. Arun Kumar	INDUSTRIALLY IMPORTANT ORGANIC TRANSFORMATIONS OVER MODIFIED SOLID CATALYSTS	GE India Technology Centre, Bangalore	Dr. Ashok Menon	23/10/2013
57	Mr. Sidhartha Sankar Kar	Design, Synthesis and Evaluation of Antimycobacterial activity of Diphenyl ether derivatives	MCOPS, Manipal	Dr. G. Gautham Shenoy	24/10/2013
58	Mr. S. Raja	AQUEOUS TWO PHASE SYSTEMS FOR THE RECOVERY OF BIOMOLECULES FROM TANNERY WASTEWATER	MIT, Manipal	Dr. V. Ramachandra Murty	26/10/2013
59	Ms. Rekha M.	Manganese oxide/porous support catalysts for organic transformations - Investigation of their structure-activity relationship	St. Joseph's College, Bangalore	Dr. N. Nagaraju	30/10/2013
60	Ms. Indira K.P.	SUBORDINATION AND CONVOLUTION PROPERTIES OF SUBCLASSES OF UNIVALENT FUNCTIONS	MIT, Manipal	Dr. Ramesha C.	28/11/2013
61	Mr. Sareesh N.N.	RADIOFREQUENCY ELECTROMAGNETIC RADIATION INDUCED BEHAVIOURAL CHANGES AND THEIR CELLULAR BASIS IN WISTAR RATS	MMMC, Manipal	Dr. Satheesha Nayak	30/11/2013
62	Mr. G. Sreejith	Nasal Carriage of Methicillin Resistant <i>Staphylococcus aureus</i> (MRSA) in School Children of Udupi Taluk: An Epidemiological Study	MMMC, Manipal	Dr. Indira Bairy	16/12/2013
63	Mr. Anupratap Tomar	Effects of chronic stress on encoding of space and context in the hippocampus: behavioural and <i>in vivo</i> electrophysiological analyses	NCBS, Bangalore	Dr. Sumantra Chattarji	16/12/2013
64	Ms. Pragati Jain	Spatiotemporal modeling of neuronal protein synthesis in synaptic plasticity	NCBS, Bangalore	Dr. Upinder S. Bhalla	23/12/2013

65	Mr. Snehil Dixit	EFFECT OF AEROBIC EXERCISE TRAINING ON PERIPHERAL NEUROPATHY: A RANDOMIZED CONTROLLED TRIAL	MCOAHS, Manipal	Dr. G. Arun Maiya	26/12/2013
66	Mr. Rajesh V.	Study on Development and Implementation of Adverse Event Trigger Tool System for Surgery Department of a Tertiary Care Teaching Hospital	MCOPS, Manipal	Dr. B.H. Anand Rao	30/12/2013
67	Mr. K. Parthasarathy	Neural Mechanisms of stereo olfaction	NCBS, Bangalore	Dr. Upinder S. Bhalla	02/01/2014
68	Mr. Ravi R.	Studies on Insect Community Responses to Habitat Restoration Efforts in Tropical Forests of Western Ghats	ATREE, Bangalore	Dr. Priyadarsana Dharma Rajan	06/01/2014
69	Mr. Rajeev Kumaramkandath	THE DISCURSIVE FORMATION OF SEXUAL SUBJECTS: SEXUAL MORALITY AND HOMOSEXUALITY IN KERALAM	CSCS, Bangalore	Dr. Sitharamam Kakarala	06/01/2014
70	Ms. Bitasta Das	UNRAVELLING ETHNIC TENSIONS: COLONIALISM, POST-COLONIALISM AND THE QUESTION OF IDENTITY IN ASSAM	CSCS, Bangalore	Dr. Sitharamam Kakarala	06/01/2014
71	Ms. Preethi Sudha V.B.	TRADITIONAL KNOWLEDGE-BASED CONTEMPORARY METHOD OF USING COPPER FOR ENHANCING THE QUALITY OF DRINKING WATER	FRLHT, Bangalore	Dr. Padma Venkat	09/01/2014
72	Mr. Vivek R.	EFFECT OF HABITAT ALTERATION ON CANOPY BIRD AND SMALL MAMMAL COMMUNITIES IN THE WET EVERGREEN FORESTS OF THE WESTERN GHATS	ATREE, Bangalore	Dr. T. Ganesh	10/01/2014
73	Mr. Sudhanshu Sekhar Sahu	EFFECTS OF RESVERATROL ON NEUROANATOMICAL, NEUROBEHAVIORAL AND BIOCHEMICAL RECOVERY AGAINST PRENATAL RESTRAINT STRESS IN RATS	KMC, Mangalore	Dr. Gayathri M. Rao	13/01/2014

74	Mr. Raghavendra Prabhu P.	INVESTIGATION ON THE EFFECTS OF PROCESS PARAMETERS FOR FATIGUE LIFE IMPROVEMENT USING TURN-ASSISTED DEEP COLD ROLLING PROCESS	MIT, Manipal	Dr. S.M. Kulkarni	17/01/2014
75	Mr. Chandra Pal Singh	Elucidation of microRNA(s) role in host-pathogen interaction in silkworm	CDFD, Hyderabad	Dr. K.P. Arun Kumar	17/01/2014
76	Mr. Girish Thunga P.	Evaluation of treatment pattern and outcome with emphasis on pralidoxime dosage regimen in organophosphorus poisoning	MCOPS, Manipal	Dr. Sureshwar Pandey	21/01/2014
77	Mr. Deekshit	Molecular characterization of nontyphoidal <i>Salmonella</i> associated with aquatic food products and environment	College of Fisheries, Mangalore	Dr. Indrani Karunasagar	22/01/2014
78	Mr. Krishna Kumar B.	STUDY ON TYPE THREE SECRETION SYSTEM IN PATHOGENIC <i>Vibrio parahaemolyticus</i> ASSOCIATED WITH SEAFOOD	College of Fisheries, Mangalore	Dr. Indrani Karunasagar	22/01/2014
79	Mr. Ashwatha Narayana Prabhu	SYNTHESIS AND CHARACTERIZATION OF NONLINEAR OPTICAL CRYSTALS OF CHLORINE AND BROMINE SUBSTITUTED CHALCONE DERIVATIVES	MIT, Manipal	Dr. V. Upadhyaya	24.01.2014
80	Mr. Chavan Shashidhar Rao	Adaptive Responses to Swing in Normal Children and their Cross-Validation	SOAHS, Manipal	Dr. K.B. Kumar	28/01/2014
81	Mr. Sanjay Shekar Gottipamla	A NOVEL APPROACH TO PRODUCE BONE MARROW DERIVED MESENCHYMAL STROMAL CELLS FOR THERAPEUTIC APPLICATIONS	MIRM, Bangalore	Dr. Raviraja N.S.	01/02/2014
82	Mr. Ashok Kumar	EPIGENETIC MODULATION DUE TO RADIATION EFFECT	SOLS, Manipal	Dr. Padmalatha Rai S.	03.02.2014
83	Prof. Harishchandra Hebbar	Fast Image Retrieval Techniques for Medical Images	SOIS, Manipal	Dr. Niranjan U.C.	07/02/2014
84	Ms. Nazia Parveen	Understanding <i>Mycobacterium tuberculosis</i> heat shock protein 60 (Mtbhsp60) mediated modulation of macrophage	CDFD, Hyderabad	Dr. Sangita Mukhopadhyay	10/02/2014

		immune responses			
85	Mr. Syed Sajjad Hussien	IMPROVING BIOAVAILABILITY OF TENOFOVIR USING NANOPARTICLE FORMULATION TECHNIQUES	MCOPS, Manipal	Dr. Premnath Shenoy	10/02/2014
86	Ms. Saleena Ummer Velladath	EVALUATION OF BIOMARKERS FOR THE EARLY DIAGNOSIS OF ACUTE KIDNEY INJURY DUE TO CISPLATIN CHEMOTHERAPY	SOAHS, Manipal	Dr. Nalini K.	13/02/2014
87	Ms. Smitha Sunil Kumaran Nair	Knowledge-based System for Amyloidogenic Protein Sequence Analysis using Soft Computing Approach	MIT, Manipal	Dr. N.V. Subba Reddy	17/02/2014
88	Ms. Sreeja K.G.	Emergent non-agrarian livelihoods and resource linkages in the agroecosystems of a river basin: A case study of Chalakudy river basin, Kerala	NIAS, Bangalore	Dr. P.K. Shetty	24/02/2014
89	Ms. Kanthi	Embedded Control System for Active Ankle Foot Orthosis	MIT, Manipal	Dr. V.I.George	25/02/2014
90	Ms. Mamatha Balachandra	ENHANCING THE EFFICIENCY OF MANETS BY IMPROVING THE ROUTING TECHNIQUES AND QOS PARAMETERS	MIT, Manipal	Dr. Prema K.V.	26/02/2014
91	Mr. Amitabh Ranjan	STUDIES ON THE FACTOR DEPENDENT INHIBITION OF Rho DEPENDENT TERMINATION	CDFD, Hyderabad	Dr. Ranjan Sen	27/02/2014
92	Mr. Vijaya Kumar S.	Pharmacognostical, Phytochemical and Lipid Lowering Evaluation of <i>Melia azedarach</i> Linn.	MCOPS, Manipal	Dr. Shreedhara C.S.	27/02/2014
93	Ms. Poornima Bhagavath	STRUCTURE PROPERTY RELATIONSHIPS OF SOME NEW LIQUID CRYSTALLINE MATERIALS	MIT, Manipal	Dr. Maddasani Srinivasulu	01/03/2014
94	Mr. Chandrakantha B.	Synthesis, Characterization and Pharmacological activity of some new substituted 1,2,4-Triazole, Pyrazole, 1,3,4-Oxadiazole and 1,3,4-Thiadiazole derivatives	MIT, Manipal	Dr. Arun M. Isloor	04/03/2014

95	Ms. S.G. Jyothi	Isolation and Characterization of Antidiabetic and Antioxidant Compounds from <i>Cassia auriculata</i> L.	St. Joseph's College, Bangalore	Dr. B.V. Somashekariah	11/03/2014
96	Mr. Y. Ravi Shankar Reddy	Effectiveness of Kinaesthetic Rehabilitation on Proprioception in Patients with Cervical Spondylosis - A Randomized Controlled Trial	MCOAHS, Manipal	Dr. Arun Maiya	20/03/2014
97	Mr. Mohammad Mahboob Kanafi	Human Dental Pulp Stem cells - Isolation, Characterization and Differentiation to Dopaminergic Neurons and Islet Cells and its Preclinical Studies in diabetic type I model	MIRM, Manipal	Dr. Pawan Kumar Gupta	24.03.2014
98	Mr. Raghavendra Upadhy	Screening and characterization of novel compounds from marine organisms for biomedical applications	MLSC, Manipal	Dr. K. Satyamoorthy	25/03/2014
99	Mr. Jafar K.	THE IMPACT OF EDUCATION-LED GROWTH ON HUMAN DEVELOPMENT A CASE-STUDY OF MALAPPURAM DISTRICT, KERALA	St. Joseph's College, Bangalore	Prof. Narendar Pani	02/04/2014
100	Ms. Kathyayini Kunjibettu	PALAKALA SITARAMA BHATTARA SAMAGRA KRITHIGALU: ONDU ADHYAYANA	RRC, Udupi	Dr. Ashok Alva	14.04.2014
101	Mr. Maruti Nandan Rai	A study of host-pathogen interaction in <i>Candida glabrata</i>	CDFD, Hyderabad	Dr. Rupinder Kaur	15.04.2014
102	Mr. Shovan Saha	OUTCOMES OF ASSISTIVE TECHNOLOGY IN INDIAN POPULATION WITH LOCOMOTOR DISABILITY	SOAHS, Manipal	Dr. Bhaskarananda Kumar	19/04/2014
103	Mr. Murthy B.R.N.	OPTIMIZATION OF PROCESS PARAMETERS IN DRILLING OF GLASS FIBER REINFORCED POLYMER COMPOSITES USING TAGUCHI AND SYSTEM DYNAMICS APPROACH	MIT, Manipal	Dr. Lewlyn L. Raj Rodrigues	21/04/2014
104	Ms. Jyothi R.K.	Effectiveness of Pranayama on cancer related fatigue and selected biochemical parameters among patients with breast cancer	MCON, Manipal	Dr. M.S. Vidyasagar	23/04/2014

		undergoing radiation therapy in Shirdi Sai Baba Cancer Hospital & Research Centre, Kasturba hospital, Manipal			
105	Mr. P.B. Ravikiran	WOUND HEALING POTENTIAL OF NIGELLA SATIVA IN MICE EXPOSED TO DIFFERENT DOSES OF GAMMA RADIATION	MLSC, Manipal	Dr. Ganesh Chandra Jagetia	30/04/2014
106	Ms. Kranti Prashant Musmade	FORMULATION AND EVALUATION OF NANOPARTICULATE SUNSCREEN CONTAINING PLANT POLYPHENOLS AS ULTRAVIOLET RADIATION ABSORBING COMPOUNDS	MCOPS, Manipal	Dr. N. Udupa	05/05/2014
107	Mr. Ratheesh R.	A COMPREHENSIVE ANALYSIS OF TUMORIGENESIS PATHWAYS DRIVING EARLY AND LATE ONSET COLORECTAL CANCER IN INDIA	CDFD, Hyderabad	Dr. M.D. Bashyam	13/05/2014
108	Ms. Prajna Marpally	Dr. N.S. LAXMINARAYANA BHATTARA SAMAGRA KAVYA: ONDU ADHYAYANA	RRC, Udupi	Dr. Ashok Alva	15/05/2014
109	Mr. Shah Mohammed Abdul Khader	FLUID-STRUCTURE INTERACTION OF BLOOD FLOW THROUGH HUMAN ARTERIES	MIT, Manipal	Dr. Raghuvir Pai B.	15/05/2014
110	Mr. Manohar Vincent Serrao	IMPACT OF FINANCIAL INCLUSION POLICY- A STUDY ON THE SOCIO-ECONOMIC STATUS OF RURAL AND URBAN HOUSEHOLDS	MIM, Manipal	Dr. Aloysius H. Sequeira	19/05/2014
111	Mr. B. Dinesh Rao	DIFFERENCE BASED FRACTAL GENERATION AND COMPRESSION	SOIS, Manipal	Dr. Niranjana U.C.	20/05/2014
112	Ms. Smitha N. Pai	ENERGY CONSERVATION PROTOCOLS FOR WIRELESS SENSOR NETWORKS	MIT, Manipal	Dr. K.C. Shet	22/05/2014
113	Mr. Om Prakash Ranjan	Chronomodulated drug delivery systems of montelukast sodium for asthma and allergic rhinitis	MCOPS, Manipal	Dr. M. Sreenivasa Reddy	30/05/2014

114	Mr. V. Thivaharan	Remediation of Hydrocarbon-Contaminated Soils through Indigenous Microbial Biosurfactants	MIT, Manipal	Dr. V. Ramachandra Murty	02/06/2014
115	Mr. Dhirendra Babji Sanghai	Pharmacognostical, phytochemical and hepatoprotective studies on <i>Clitoria ternatea</i> L., <i>Tephrosia purpurea</i> (L.) Pers. and <i>Malvastrum coromandelianum</i> (L.) Garcke	MCOPS, Manipal	Dr. C.S. Shreedhara	06/06/2014
116	Mr. N. Manikandan	DEVELOPMENT AND VALIDATION OF A MOBILITY DISABILITY SCALE FOR COMMUNITY DWELLING INDIVIDUALS	SOAHS, Manipal	Dr. K.B. Kumar	07/06/2014
117	Mr. Rohit S. Naniwadekar	Seed dispersal by hornbills, conservation status and the consequences of their decline in tropical forests of Arunachal Pradesh	NCF, Bangalore	Dr. Aparajita Datta	13/06/2014
118	Mr. Tony Thomas	MODIFIED CARBON PASTE ELECTRODES FOR POTENTIAL APPLICATIONS IN THE ELECTROCHEMICAL INVESTIGATION OF BIOLOGICALLY SIGNIFICANT ORGANIC MOLECULES AND INORGANIC SPECIES	St. Joseph's College, Bangalore	Dr. Ronald J Mascarenhas	20/06/2014
119	Mr. Arindam Basu	Genetic polymorphisms in <i>CYP17</i> , <i>CYP11A</i> , <i>11β-HSD1</i> genes in patients with Polycystic ovarian syndrome and its correlation with insulin resistance and cortisol excess	KMC, Mangalore	Dr. Prabha Adhikari	01/07/2014
120	Mrs. Vinutha R. Bhat	STUDIES ON ANTIDIABETIC ACTIVITY AND RELATED BLOOD BIOCHEMISTRY PROFILE OF SOME INDIGENOUS PLANTS	KMC, Manipal	Dr. Shivananda Nayak	02/07/2014
121	Mr. Chandrashekhar Kumar B.	STUDIES ON SYNTHESIS, CHARACTERISATION AND ANTIMICROBIAL ACTIVITY OF SOME NOVEL HETEROCYCLIC DERIVATIVES	MIT, Manipal	Dr. K.R. Venugopal Reddy	15/07/2014
112	Mr. R.S. Jeyaprakash	SYNTHESIS OF RHODANINE AND FUSED PYRIDINE	MCOPS, Manipal	Dr. K.K. Srinivasan	16/07/2014

		ANALOGUES AS ANTIMALARIAL AGENTS			
123	Ms. Sunila John	DEVELOPMENTAL CHANGES IN VERBAL FLUENCY OUTPUT OF MALAYALAM SPEAKING CHILDREN	SOAHS, Manipal	Dr. B. Rajashekhar	23/07/2014
124	Mr. Riyaz Ahmad	AN INVESTIGATION INTO THE INTERACTIONS AMONG WILD UNGULATES AND LIVESTOCK IN THE TEMPERATE FORESTS OF KAJ-I-NAG	NCF, Mysore	Dr. Yash Veer Bhatnagar	28/07/2014
125	Mr. Arvind Kumar Pandey	STUDY OF CERTAIN PHYSICOCHEMICAL PROPERTIES OF SUBCUTANEOUS FAT ALONG WITH ANATOMY OF SUPERFICIAL FASCIA OF UPPER AND LOWER ABDOMEN: IMPLICATION FOR RESISTANCE TO RESORPTION OF LOWER ABDOMINAL FAT	KMC, Manipal	Dr. Pramod Kumar	30/07/2014
126	Mr. P. Vasanthakumar	THREE DIMENSIONAL STUDY OF CRANIOFACIAL MORPHOLOGY IN SOUTH INDIAN POPULATION USING DIRECT AND INDIRECT ANTHROPOMETRY	MMMC, Manipal	Dr. Pramod Kumar	31/07/2014
127	Mr. Syed Wajeed	Mutational and biochemical analysis of Mal120 - An adenyl cyclase from <i>Mycobacterium avium</i>	St. Joseph's College, Bangalore	Dr. Sandra Misquith	01/08/2014
128	Mr. Arindam Chakraborty	CLINICO-MICROBIOLOGICAL STUDY OF EXTRAINTESTINAL PATHOGENIC <i>Escherichia coli</i> FROM PATIENTS ADMITTED IN A TERTIARY CARE HOSPITAL AT MANGALORE	KMC, Mangalore	Dr. Prabha Adhikari	12/08/2014
129	Ms. Vaishnavi M.	STUDY OF PHYTOREMEDIATION POTENTIAL OF AN INDIGENOUS PLANT: ENZYMATIC DEGRADATION OF PESTICIDES IN MAIZE	St. Joseph's College, Bangalore	Dr. Nayeem Ullah Khan	16/08/2014

130	Mr. Patagundi Basanna Shivaputra	STRATEGIES FOR SUSTENANCE OF MARKET SHARE: A STUDY OF OPERATING SYSTEM PRODUCTS	Bharatiya Vidya Bhavan, Bangalore	Dr. N.S. Viswanath	18/08/2014
131	Mr. Deepak R.	SECURITY RETURNS SPECTRUM-AN ANALYSIS OF SEASONALITY AND SENSITIVITY OF INDIAN STOCK MARKETS	Bharatiya Vidya Bhavan, Bangalore	Dr. Mukesh K. Chaudhry	18/08/2014
132	Ms. Smitha Manjunath Nayak	PREVENTIVE HEALTHCARE AND PUBLIC AWARENESS : A STUDY ON ANTENATAL CARE AMONG WOMEN IN RURAL KARNATAKA	MIM, Manipal	Dr. K.V.M. Varambally	02/09/2014
133	Mr. M. Srinivas Kini	STUDIES ON REMOVAL OF COLOUR FROM WASTEWATER	MIT, Manipal	Dr. M.B. Saidutta	03/09/2014
134	Ms. Veena Rao	GROWTH DETERMINANTS AND PERFORMANCE OF WOMEN ENTREPRENEURS IN FASHION ENTERPRISES	SOIS, Manipal	Dr. A. Venkatachalam	05/09/2014
135	Ms. Reena Reshma D'Souza	INDIAN HUMAN BACTERIAL ARTIFICIAL CHROMOSOME LIBRARY CONSTRUCTION AND ITS CHARACTERIZATION WITH THE GENOME OF EPSTEIN-BARR VIRUS TRANSFORMED LYMPHOBLASTOID CELLS	SOLS, Manipal	Dr. K. Satyamoorthy	19/09/2014
136	Mr. Prathap M Baby	BLOOD VOLUME ANALYSIS: A NEW TECHNIQUE USING TRIVALENT CHROMIUM 51 – AN EXPERIMENTAL STUDY	MMMC, Manipal	Dr. Pramod Kumar	24/09/2014
137	Mr. Vijayanarayana K.	ANALYSIS OF RISK FACTORS, ANTIBIOTIC RESISTANCE AND USAGE PATTERN IN HOSPITAL ACQUIRED PNEUMONIA	MCOPS, Manipal	Dr. Anantha Naik Nagappa	01/10/2014
138	Mr. Raghavendra U.	ROBUST OBJECT DETECTION AND TRACKING USING STEREO VISION	MIT, Manipal	Dr. Krishnamoorthi Makkithaya	06/10/2014
139	Ms. Blessy Prabha Valsaraj	A RANDOMIZED CONTROLLED TRIAL ON EFFECTIVENESS OF COGNITIVE BEHAVIOURAL	MCON, Manipal	Dr. Shripathy M. Bhat	09/10/2014

		<p>THE THERAPY (CBT) ON ANXIETY, DEPRESSION, ADHERENCE AND QUALITY OF LIFE AMONG PEOPLE UNDERGOING HAEMODIALYSIS IN A SELECTED TERTIARY CARE HOSPITAL OF SOUTH KARNATAKA</p>			
140	Mr. Anil T.M.	<p>EVALUATION OF PHARMACEUTICAL CARE FOR PATIENTS WITH CARDIOVASCULAR DISEASES</p>	MCOPS, Manipal	Dr. Anantha Naik Nagappa	09/10/2014
141	Ms. Manjula Shenoy K.	<p>NEW APPROACHES FOR ONTOLOGY MAPPING TO IMPROVE ACCURACY</p>	MIT, Manipal	Dr. K.C. Shet	10/10/2014
142	Ms. Nitya Vasudevan	<p>TURNING TOWARDS THE BODILY SUBJECT: THEORISING THE FIELD OF VISIBILITY IN CONTEMPORARY INDIA</p>	CSCS, Bangalore	Dr. Tejaswini Niranjana	14/10/2014
143	Mr. Ashwin Kumar A.P.	<p>LOCAL LABYRINTHS: LANGUAGE AS A PROBLEMATIC</p>	CSCS, Bangalore	Dr. Tejaswini Niranjana	14/10/2014
144	Mr. Meenatchi Sundaram S	<p>DESIGN, SIMULATION AND OPTIMIZATION OF MICRO PRESSURE SENSORS</p>	MIT, Manipal	Dr. S.M. Kulkarni	21/10/2014
145	Ms. Sonia R.B. D'Souza	<p>EFFECTIVENESS OF INDIAN CLASSICAL MUSIC ON DEVELOPMENTAL RESPONSES OF PRETERM INFANTS ADMITTED TO A TERTIARY LEVEL NEONATAL INTENSIVE CARE UNIT (NICU), KASTURBA HOSPITAL, MANIPAL – A RANDOMIZED CONTROLLED TRIAL</p>	MCON, Manipal	Dr. Vijay Kumar	27/10/2014
146	Ms. Mane Pallavi Ramesh	<p>ANALYSIS AND PERFORMANCE ENHANCEMENT OF NETWORK CODING FOR WIRELESS NETWORKS</p>	MIT, Manipal	Dr. M. Sathish Kumar	30/10/2014
147	Dr. Atulya M.	<p>DEVELOPMENT AND EVALUATION OF A NANOPARTICULATE DRUG DELIVERY SYSTEM TO TARGET BIOFILM MASTITIS INFECTIONS</p>	MCOPS, Manipal	Dr. J. Venkata Rao	10/11/2014

148	Mr. Abraham M. Joshua	COMPARISON OF TRADITIONAL BALANCE EXERCISE, PROGRESSIVE RESISTANCE STRENGTH TRAINING AND A COMBINATION OF BOTH AMONG INSTITUTIONALIZED ELDERLY WITH BALANCE IMPAIRMENT – A RANDOMIZED CONTROLLED TRIAL	KMC, Mangalore	Dr. Vivian D'Souza	11/11/2014
149	Mr. Ajithkumar M.P.	SYNTHESIS, CHARACTERIZATION AND REACTIVITY RATIOS OF COPOLYMERS AND TERPOLYMERS	MIT, Manipal	Dr M P Yashoda	15/11/2014
150	Ms. Maxie Andrade	DEVELOPMENT AND PSYCHOMETRIC EVALUATION OF THE TOOL: APTITUDE TOWARDS NURSING	MCON, Manipal	Dr. Shreemathi S. Mayya	18/11/2014
151	Ms. Geetha Mathew	PHARMACOLOGICAL, MECHANISTIC AND IN SILICO EVALUATION OF SELECTED NOVEL NON-ULEROGENIC ANTI-INFLAMMATORY INDANEDIONE DERIVATIVES	MCOPS, Manipal	Dr. M.K. Unnikrishnan	21/11/2014
152	Mr. K. Vijaya Bhaskar	Synthesis and Neuroprotective Activity of Tetrahydrobenzo[b]pyrans	MCOPS, Manipal	Dr. K.K. Srinivasan	05/12/2014
153	Mr. K. Narayanan	STUDIES ON ISOLATION AND CHARACTERIZATION OF FUNGAL CHONDROITINASE AND ITS THERAPEUTIC APPLICATIONS	MCOPS, Manipal	Dr. V.M. Subrahmanya m	06/12/2014
154	Ms. Tripti M.	GEOCHEMICAL AND ISOTOPIC STUDIES OF THE SWARNA – MADISAL RIVER AND ITS ESTUARY, SOUTHWEST COAST OF INDIA	MIT, Manipal	Dr. K. Balakrishna	12/12/2014
155	Ms. Pranita Pai	PHARMACOGENOMICS OF CRITICAL CANDIDATE GENES INVOLVED IN DRUG RESPONSE TO SCHIZOPHRENIA	SOLS, Manipal	Dr. K. Satyamoorthy	12/12/2014
156	Mr. Vamshi Krishna T.	FORMULATION AND EVALUATION OF POLYMERIC MULTIPARTICULATE	MCOPS, Manipal	Dr. M. Sreenivasa Reddy	18/12/2014

		DRUG DELIVERY SYSTEMS OF RIFAMPICIN AND ISONIAZID			
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Ph D registered**Year 2013**

Sl. No	Name of the Student	Department	Title / Topic of Research	Name and Academic Qualifications of the Research Supervisor
1.	Ms Smitha Holla	Asst Professor Dept of Maths MIT, Manipal	Inverse mixed domination and related parameters of a graph	S Ravishankar Bhat, Ph D
2.	Mr Gururaj	Asst Profesor Dept of CSE, MIT, Manipal	Computationally efficient Multi-View video coding	DR Karunakar A Kotegar, Ph D
3.	Ms Hebar Priti Raghavendra	Research Scholar ATREE, Bangalore	Ecology and conservation genetics of Anurans in Myristica swamps of the central western ghats	Dr G Ravikath, Ph D
4.	Mr Sabir Haque	Research Scholar Mic, Sr Lecturer, Dept of M&C, MU-Dubai Campus	A study on the impact of social media on journalism : Its production and evolving consumption pattern-A UAE perspective	Dr Padma Rani, Ph D
5.	Mr Lakshmanrao S Paragond	Assistant professor, Dept of E&E, MIT, Manipal	Performance analysis of wind and solar hybrid power system, in isolated and grid connected mode of operation	Dr Ciji Pearl kurian, Ph D Dr B K Singh, Ph D
6.	Mr Muhammed Ali A V	Junior Research Fellow, Dept of Physics, MIT, Manipal	Fabrication and characterization of flexible and transparent ambipolar oxide thin film transistors and inverters	Dr Dhananjay Kekuda, Ph D
7.	Mr Arun George Menon	Research Scholar CSCS, bangalore	Rethinking technology, identity, and the subject in contemporary India	Dr S V Srinivas, Ph D , Ph D
8.	Ms Bindu S	Asst Professor, Dept of E&E, MIT, manipal	Characterization of three phase squirrel cage induction motor faults through asymmetric machine modeling	Dr Vinod V Thomas, Ph D
9.	Ms Soundarya Iyer	Research Scholar, NIAS, Bangalore	Dynamics of rural transformation in Karnataka: A view from three Villages	Dr Narendar Pani, Ph D
10.	Ms Shivani Agarwal	Research Scholar ATREE Bangalore	Impact of Institutions on land cover change and landscape fragmentation in Indian dry tropical forest landscapes	Dr Harini Nagendra, Ph D

11.	Ms Hita Unnikrishnan	Research Scholar ATREE Bangalore	The changing nature of ecological and social vulnerabilities within the context of the urban lake social -ecological system in Bangalore	Dr Gladwin Joseph, Ph D Dr Harini nagendra, Ph D
12.	Mr Nirmal Kumar Nigam	Asst Professor Sr Scale, Dept of MCA, MIT, Manipal	Efficient clustering algorithm for mining data streams through cluster ensembles	Dr Krishnamoorthi Makkithaya, Ph D
13.	Ms Krithika Dota	Research Scholar DAMP Manipal	Interaction of ultrafast intense light with atoms (Ar, Xe), Molecules (H ₂ O, CS ₂) and transparent dielectrics (glass, BaF ₂)	Dr Santhosh C, Ph D Dr Deepak mathur, Ph D
14.	Ms Subbalaxmi S	Asst Professor Dept of Biotechnology, MIT, Manipal	Production of tannase under solid state fermentation by bacterial asolates	Dr V Ramachandra Murty, Ph D
15.	Mr Ravishanker Baliga B	Asst Professor, Dept of Aero & Auto Engg, MIT, Manipal	Evaluation and enhancement of performance of carbon nano-fiber reinforced UHMWPE tibia; plates in knee implants	Dr Raghuvir Pai B, Ph D Dr Sharath Rao K, Ph D
16.	Mr Anand V	Research Scholar Dept of Geopolitics, MU, manipal	The evolution of China's strategic culture and its geopolitical significance and implications	Dr Arvind Kumar, Ph D
17.	Ms Pavithra G C	Research Scholar PPISR, Bangalore	Structural studies of phosphoribosyltransferases from pathogenic bacteria	Dr U A Ramgopal, Ph D
18.	Mr Chetan Basavaraj Singai	Research Scholar NIAS, Bangalore	Higher education and University Governance in India: A case study of two Universities in Karnataka	
19.	Ms Shweta Basnett	Research Scholar ATREE, Bangalore	Influence of phenological patterns and climate change on plant pollinator interactions of high altitude rhododendron species in Sikkim Himalayas	DR Robert John Chandran, Ph D Dr Soubadra Devy, Ph D
20.	Mr Vikram Baliga k	Assistant professor Dept of Commerce MU, manipal	Marketing strategies with specific reference to Udupi Brinjal	Dr H G Joshi, Ph D
21.	Mr Jose Mamman	Assistant professor, Dept of Commerce, MU, Manipal	A study on effectiveness and sustainability of social Entrepreneurship with special reference to entrepreneurial training Institutes	Dr H G Joshi, Ph D
22.	Mr Krishna Prakasha K	Asst professor Dept of I&CT MIT, Manipal	Design and implimentation of an efficient wireless public key infrastructure in M-Commerce.	Dr Balachandra, Ph D

23.	Ms P B Shanthi	Asst Professor Dept of CSE, MIT, Manipal	Cytological image investigation for detection of cervical cancer using soft computing techniques	Dr Hareesha K S, Ph D
24.	Mr Madhushankar a M	Assistant professor MCIS, Manipal	Design of low power miniaturized, self activated electrolarynx	Dr Somahekhara Bhat, Ph D Dr Keerthana prasad, Ph D
25.	Ms Vidya H C	Assistant professor, Dept of Mathematics, MIT, Manipal	Some studies in the field of modular equations and two-dimensional series evaluations	Dr Srivatsa Kumar B R, Ph D
26.	Ms Priyam Laxmi Borgohain	Research Scholar NIAS, Bangalore	Downstream Environmental and Socio-Economic Impacts of Hydropower Projects in Northeast India - Case studies of Ranganadi and Lower Subansiri Hydroelectric Projects	Dr Dilip R Ahuja, Ph D
27.	K Arathi Bhat	Assistant professor, Dept of Mathematics, MIT, Manipal	Graph Parameters and Algorithms.	Dr Sudhakara G, Ph D
28.	Mr Derrick Ian Joshua	Environment Executice, (Q&C), MU, & Guest Faculty Civil Engg, MIT, Manipal	Detection of Selected Antibiotics and Antibiotic Resistant Genes in Nethravathi River, Karnataka state, South India	Dr K Balakrishna, Ph D Dr Indira Bairy, Ph D , MMMC
29.	Ms Akshatha	JRF Dept of Physics, MIT, Manipal	The study of effects of radiation on Eu ₂ O ₃ doped lead fluoroborate glasses.	Dr Sudha D Kamath, Ph D Dr Raviprakash Y, Ph D
30.	Ms Sandhya Rani S R	Research Scholar BVB, Bangalore	The application of total Quality Management (TQM) in Not for the Profit Organizations (NPOs)- with special reference to the Akshaya Patra Foundation in India	Dr T V Raju, Ph D
31.	Ms Navya G S	Research Scholar BVB, Bangalore	An Economic Evaluation of Sakala Public Goods Guarantee Programme of Government of Karnataka	Dr T V Raju, Ph D
32.	Nataraj I M	Research Scholar BVB, Bangalore	The impact of employee wellness on organizational performance -A study of select IT Organizations	Dr N S Viswanath, Ph D Dr T V Raju, Ph D
33.	Kannan N	Assistant Professor, Dept of Biotechnology, MIT, Manipal	Physiochemical Assessment of Mineral Based Siddha Formulations for their Bioefficay.	Dr S Balaji, Ph D Dr N V Anil Kumar, Ph D

34.	Kulkarni Sanket Sudhir	Research Scholar NIAS, Bangalore	India's Energy Security Concerns and Policy Formulation: A case study of Cross-Border Natural Gas Pipelines	Dr M mayilvaganan, Ph D
35.	Ms Srividya R	Assistant Professor Dept of E&E, MIT, Manipal	An embedded system for the control and optimization of tunable illumination spectra for LED luminaries	Dr Ciji pearl Kurian, Ph D
36.	Mr Vairavel P	Assistant Professor Dept of Chemical Engg, MIT, Manipal	Studies on Removal of Colour from Dye Wastewater Using Dual Adsorbent	Dr V Ramachandra Murty, Ph D
37.	Ms Kavitha Koppula	Assistant Professor, Dept of Mathematics, MIT, manipal	Ideals and their different prime forms in Seminearrings	Dr Kedukodi Babushri Srinivas, Ph D Dr Kuncham Syam Prasad, Ph D
38.	R M Piragash Kumar	JRF, Dept of Electronics & Communication, MIT, Manipal	Fabrication and Characterization of Plasmonic Nanostructures for Photovoltaic Applications.	Dr Vemuru hema Sundara Moorthy, Ph D
39.	G Pardhavardhini	Principal WGSMA, Manipal	Development of a model for hospitality management education program based on stakeholder perceptions and expectations	Dr H G Joshi, Ph D
40.	Mr Vikram Aditya M	Full Time Research ATREE, Bangalore	Assessing the impacts of landscape change and habitat degradation on mammal diversity and distribution in the northern Eastern Ghats, Andhra Pradesh, using ecological, geographic and social information	Dr T Ganesh, Ph D Dr Aravind N A, Ph D
41.	Mr Manish Kumar	Full Time Research ATREE, Bangalore	Ecohydrology of Sikkim Himalayas and its Future in a Changing Climate.	Dr Jagdish Krishnaswamy, Ph D
42.	Mr Nandish S	Assistant Professor, SOIS, Manipal	Fusion of multimodal brain images for neurosurgical planning.	Dr G K Prabhu , Ph D Dr Rajagopal, Ph D
43.	Ms Yangchenla Bhutia	Full Time Research ATREE, Bangalore	Mechanisms determining the species distribution, abundance and patterns of co-occurrence of fagaceae in the Sikkim Himalaya	DR Robert John Chandran , Ph D Dr Soubadra Devy, Ph D
44.	Mr Acharya Sriprasad	Assistant Professor, Dept of Chemical Engg, MIT, Manipal	Targeted drug delivery using biodegradable polymers	Dr Bharath Raja Guru, Ph D
45.	Mr Ganapathi Nayak K	Assistant Professor-Senior,	Error resilience and concealment for scalable	Dr Raviraj Shetty, Ph D

		DCA, MIT, Manipal	video communication.	
46.	Ms Madhuri Ramesh	Research Scholar ATREE, Bangalore	Conservation and Sustainable Development in a Nonequilibrium Environment: A study of Marine Turtles in Odisha, India	Dr Kotegar Karunakar Annappa, Ph D
47.	Mr Amit John Kurien	Research Scholar ATREE, Bangalore	Shifting Cultivation, Deforestation, and Livelihood sustainability: Causes and Consequences of Forest – Agricultural transformations in Garo hills, Meghalaya in Northeast India	Dr Nitin Devdas Rai, Ph D
48.	Mr Anjan Gudigar	Assistant Professor, Dept of I&CE, MIT, Manipal	Intelligent robust detection and recognition of traffic sign.	Dr Sharachchandra Lele, Ph D
49.	Mr Ashwin Kumar Devaraj	Asst Professor Dept of Mech & Mfg Engg, MIT, Manipal	Numerical investigation of meniscal tears and the effects of meniscectomies on secondary degenerative arthritis	DR Shreesha C, Ph D
50.	Ms Ronita Mukherjee	Research Scholar ATREE, Bangalore	Consequences of urban demand on pollination service and livelihoods of the reliant communities: A study in the peri-urban landscapes of Bangalore, India	Dr Raviraja, Ph D Dr Kiran Kumar V Acharya, Ph D
51.	Ms Priya Gupta	Research Scholar NIAS, Bangalore	Interface of exclusionary conservation policies and rights of communities: Case study of a Protected Area.	Dr M Soubadra Devy, Ph D
52.	Mr Chaitanya C VS	Assistant Professor, SOIS, Manipal	Design of Low Power-Delay Product Multiplier and Divider Units	Dr P K Shetty, Ph D
53.	Mr B S Manjunatha	Assistant Professor, Dept of Chemistry, MIT, Manipal	Studies on Flame Retardant applications of Five Membered Heterocycles on polymer Matrix.	Dr P R Venkateswaran, Ph D Dr Keerthana I, Ph D
54.	Mr Sanoop M	Assistant Professor, Dept of I&CT, MIT, Manipal	Cloud enabled Secure and Adaptive Traffic Alerts Management System	Dr Subramanya Bhat K, Ph D Dr Gaonkar Santosh Laxman, Ph D
55.	Ms Chaitra U	Research Scholar, Dept of Physics, MIT, manipal	Growth of Zinc Oxide Thin Films for Device Applications.	Dr Manohara Pai M M, Ph D Dr Radhika M Pai, Ph D
56.	Mr.Muralikrishna S N	Assistant Professor Dept of Computer Applications MIT, Manipal	Development of Novel Algorithms for Human Action and Activity Recognition in Video Surveillance Systems.	Dr Mohan Rao K, Ph D Dr Dhananjaya Kekuda, Ph D

57.	Mr.Raghavendra Ganiga	Assistant Professor Dept of I&CT MIT, Manipal	A Cloud Based Approach for Secured Storage and Retrieval of Standard Electronic Health Records.	Dr Balachandra, Ph D Dr U Dinesh Acharya, Ph D
58.	Mr.Rajesh K	Assistant Professor Dept of I&CT MIT, Manipal	Role Based Utility Computing for Cloud Applications in Emergency Situations	Dr Radhika M Pai, Ph D Dr Manohara Pai M M, Ph D & Dr Rajesh Kumar Sinha, Ph D
59.	Mr Manjunathan P	Research Scholar PPISR, Bangalore	Designing heterogeneous catalysts for the conversion of glycerol and furfural into value added chemicals	Dr Ashalatha Nayak, Ph D
60.	Mr S K Sahenawaz Sarwar Shameem	Assistant Professor, Dept of computer Applications MIT, Manipal	Performance Improvement in High Efficiency Video Coding Through Data - Level Parallelization	Dr Ganapati V Shanbhag, Ph D Dr Sanjeev Maradur, Ph D
61.	Ms Girija V Attigeri	Assistant Professor-Sr Scale, Dept of I&CT, MIT, Manipal	Efficient Methodology to Identify the Outliers in Financial Big Data for Fraud Detection.	Dr Kotegar Karunakar Annappa, Ph D
62.	Ms Poorna Balaji	Research Scholar ATREE, Bangalore	Socio-environmental transformations due to mining and conservation measures in Southern Odisha, India	Dr Manohara Pai M M, Ph D Dr Radhika M Pai, Ph D
63.	Ms Ovee Harischnadra Thorat	Research Scholar ATREE, Bangalore	Transformation of coupled human-grassland system under development interventions in Banni grasslands of Kachchh, Gujarat.	Dr Nitin Devdas Rai, Ph D
64.	Ms. Kalpita Bhar Paul,	MU Scholarship Candidate, MCPH, Manipal	Conceptualization, Perception and Intervention on Environmental change in West Bengal	Meera Baidur, Ph D
65.	Ms. Dhanasree Jayaram	MU Scholarship Candidate, Geopolitics & IR, Manipal	Military Dimensions of Environmental Security:An Indian Perspective	Dr Nanda Kishor M S, Ph D
66.	Ms Pooja R Kamath	MU Scholarship Candidate, Dept of Chemistry, MIT, Manipal	Enterprise Mashup software to enhance collaborative intelligence in Enterprise 3.0 through interoperability with web.	Dr Dhanya Sunil, Ph D
67.	Mr Shreyas Suresh Rao	MU Scholarship Candidate, Dept of CSE, MIT, Manipal	Enterprise Mashup software to enhance collaborative intelligence in Enterprise 3.0 through interoperability with web.	Dr Ashalatha Nayak, Ph D
68.	Mr Hemanth Hegde	MU Scholarship Candidate Dept of Chemistry, MIT,	Synthesis and Characterization of some novel Six-membered	Dr Nitin Kumar S Shetty, Ph D

		Manipal	Heterocyclic Compounds of Pharmaceutical interest	
69.	Ms Hamsa nayak	MU Scholarship Candidate dept of Mathematics, MIT, Manipal	Ideal like substructures of Gamma Nearrings with links to fuzzy sets and rough sets	Dr Kuncham Syam Prasad , Ph D Dr Kedukodi Babushri Srinivas, Ph D
70.	Mr Rudresh Deepak Shirwaikar	MU Scholarship Candidate Dept of CSE, MIT, Manipal	Data Mining framework for prediction of apnea and drug dosage of caffeine and Aminophylline in Neonates	Dr U Dinesh Acharya, Ph D Dr Krishnamoorthi Acharya, Ph D & Dr Surulivel Rajan M, Ph D
71.	Mr Ashith V K	MU Scholarship Candidate Dept of Physics, MIT, Manipal	Characterization of SILAR deposited Binary and Ternary compound Semiconductor Thin Films	Dr Gowrish Rao K, Ph D
72.	Ms Redkar Shweta Anand	MU Scholarship Candiadte Dept of CA, MIT, manipal	Intelligent Prediction Model for Drug Repurposing using Soft Computing Techniques	Dr Hareesha K S, Ph D Dr S Balaji, Ph D
73.	Ms Sushruta S Hakkimane	MU Scholarship Candidate, Dept of Biotech, MIT, Manipal	Nanomaterial based Therapeutics for the Treatment of Tuberculosis	Dr Bharath Raja Guru, Ph D Dr Indira Bairy, Ph D
74.	Mr Priyodip Paul	MU Scholarship candidate Dept of Biotech MIT, Manipal	Assesment of Phosphatase from selected Bacteria for Probiotic application.	Dr S Balaji, Ph D
75.	Ms Shilpa T	MU Scholarship Candidate, DAMP, Manipal	Structural Studies of Arsenic Metallochaperone ArsD	Dr Abdul Ajees Abdul Salam, Ph D
76.	Mr Muhammed Shameem K M	MU Scholarship Candidate DAMP, manipal	Design and development of a hybrid Laser-Induced Breakdown Spectroscopy(LIBS)- raman system using Echelle Spectrograph for Material characterization	D Unnikrishnan VK, Ph D Dr Santhosh C, Ph D
77.	Mr Jijo Easo George	MU Scholarship Candidate DAMP, Manipal	Surface Wettability Tailoring by Physical and chemical methods	Dr Sajan D George, Ph D
78.	Mr Adarsh Rag	MU Scholarship Candidate Dept of E&C, MIT, Manipal	Synthesis and characterization of reduced Graphene Oxide(rGO) and Graphene for supercapacitor applications	Dr. Somashekhara Bhat , Ph D Dr. Shounak De, Ph D
79.	Ms Harinakshi Karkera	Scholarship Candidate Dept of Mathematics, MIT	Wavelets Applications to Boundary Value Problems	Dr Nagaraj N Katagi, Ph D
80.	Sachin Digamber	Kasturba Medical College	Effect of assisted hatching on developmental potential of the embryo and reproductive outcome	Satish Kumar Adiga, PhD
81.	Ramya Nair M	Kasturba Medical	Use of calcium signaling	Guruprasad Kalthur,

	T	College	molecules in artificial oocyte activation and understanding the early developmental dynamics of parthenotes	PhD
82.	Umesh Thonse	Kasturba Medical College	Modification and demonstration of efficacy of an existing module for affect recognition training in Schizophrenia	P S V N Sharma, MD
83.	Sushma R K	Kasturba Medical College	Histological, cellular, biochemical and biomechanical evaluation of wound healing properties of Indian traditional medicines in normal and diabetic rat models	Kumar M R, PhD
84.	Sapna Ganesh	Kasturba Medical College	Effectiveness of social group work intervention for persons with alcohol dependence syndrome and to their care givers	Sripathy Bhat M, MD
85.	Gagan Bajaj	Kasturba Medical College	Assessment of cognitive-communicative abilities in middle aged adults	Jayashree S Bhat, PhD
86.	Soupranika S	Kasturba Medical College	Role of Lp (a), oxidative stress, annexin V and matrix metalloproteinases as cardiac risk factors in nephrotic syndrome	Benedicta D Souza, PhD
87.	Mohan Kumar K	Kasturba Medical College	Confusion of Kannada consonants among individuals with normal hearing and hearing impairment	Jayashree S Bhat, PhD
88.	Rachana K	Kasturba Medical College	Study of prenatal effects of isotretinoin on neural crest cell migration and craniofacial development in rats: A possible involvement of neurotropic factor and oxidative stress	Sampath Kumar Madhyastha U, PhD
89.	Amith Kumar	Kasturba Medical College	Prospective role of Psidium guajava and Persea americana leaf extracts against radiation induced acute radiation syndrome, cellular damage and genotoxicity in rats	Reshma Kumarchandra, PhD
90.	Neeta Shetty	Manipal College of Dental Sciences	Effectiveness of dental health education on utilization of restorative dental care among rural	Kundabala M, MDS

			women associated with self-help groups of Mangalore Taluk – A cluster randomized study	
91.	Anjalin D Souza	Manipal College of Nursing	Effectiveness of Comprehensive Haemophilia Education Program (CHEP) on health related quality of life and clinical outcomes of children and young people with haemophilia in selected haemophilia clinics of Karnataka	Dinesh M Nayak, MD
92.	Ansuya .	Manipal College of Nursing	Prevalence and risk factors for malnutrition and effectiveness of need based intervention on nutritional status and cognitive development of preschool children in Anganawadi Centers of Udupi district	Baby S Nayak, PhD
93.	Swapnil Jayant Dengle	Manipal College of Pharmaceutical Sciences	Bioavailability enhancement of ritonavir and saquinavir by co-amorphous technology	Krishna Murthy Bhat, PhD
94.	Kiran Avadhani	Manipal College of Pharmaceutical Sciences	Preparation and evaluation of nanoparticulate sunscreens containing epigallocatechin-3-gallate and selected antiaging agents	Srinivas Mutalik, PhD
95.	Asim Priyendu	Manipal College of Pharmaceutical Sciences	Study of pharmaco-economic burden of antibiotic resistance in ICU patients in a tertiary care hospital	Anantha Nagappa Naik, PhD
96.	Vasudev Pai	Manipal College of Pharmaceutical Sciences	Development of standardized polyherbal formulation for Alzheimers disease	Sreedhara C S, PhD
97.	Prateek Jain	Manipal College of Pharmaceutical Sciences	Development and evaluation of oral particulate drug delivery system of decitabine for cancer chemotherapy	Nayanabhirama Udupa, PhD
98.	Lokhande Alkeshkumar Pandharinath	Manipal College of Pharmaceutical Sciences	Implementation and assessment of periodic safety update report system in a tertiary care teaching hospital	Unnikrishnan M K, PhD
99.	Chonkar Ankita Deepak	Manipal College of Pharmaceutical Sciences	Formulation and evaluation of transmucosal drug delivery systems of	Nayanabhirama Udupa, PhD

			Lercanidipine	
100.	Seena K X	Manipal College of Pharmaceutical Sciences	Nephroprotective evaluation of bioactive fractions of <i>Bridella retusa</i> and <i>Homonoia riparia</i>	M Manjunath Setty, PhD
101.	John Preshanth Kumar P	Manipal College of Pharmaceutical Sciences	Development of clinical decision support system for antimicrobial stewardship and assess its impact in a tertiary care academic hospital	H Manjunath Hande, MD
102.	Deepak Bhare	Manipal College of Pharmaceutical Sciences	Novel sensitizers of stem cell mediated trail therapy for treatment of glioblastoma multiformae	Sreedhara Ranganath Pai, PhD
103.	Amol Baban Khade	Manipal College of Pharmaceutical Sciences	Rational design and synthesis of diphenyl ether derivatives as antitubercular agents	Gautham Shenoy G, PhD
104.	Kishan M M	Manipal College of Allied Health Sciences	Comparison of temporal processing, speech perception and quality of life through multi-channel and channel free TM hearing aids in hearing impaired	Rajashekhar B, PhD
105.	S Suresh	Manipal College of Allied Health Sciences	Development and standardization of radiation awareness tool for medical practitioner	Rajagopal K V, MD
106.	Kusumakshi .	Manipal College of Allied Health Sciences	Prevalence of Group A, G and C Streptococcus species among school going children in Udupi district	Shobha K L, MD
107.	Asha Patil	Manipal College of Allied Health Sciences	Validity of urinary biomarker uTWEAK with activity and chronicity indices in lupus nephritis in a tertiary care hospital	Mary Mathew, MD
108.	Jyothi Thomas	Manipal College of Allied Health Sciences	Development of a protocol for screening visual impairment in children aged 3-6 years	Gogate Parikshit Madhav
109.	Sahana A	Manipal College of Allied Health Sciences	Prevalence of pelvic floor dysfunction and physiotherapy interventions for urinary incontinence and pelvic organ prolapsed in women of Udupi Taluk	Bhamini K Rao, PhD
110.	Archana G	Manipal College of Allied Health Sciences	Efficacy of a novel structured aural rehabilitation module in Kannada for adults with hearing impairment	Krishna Y, PhD

111.	K R Banumathe	Manipal College of Allied Health Sciences	Relationship of visual perception, visual motor integration and handwriting with academic performance in Elementary School children: A cohort study	P S V N Sharma, MD
112.	Stephen Rajan Samuel	Manipal College of Allied Health Sciences	Effectiveness of exercise based rehabilitation on functional capacity and quality of life in head & neck cancer patients receiving chemo-radiotherapy	Arun G Maiya, PhD
113.	Sambit Dash	Melaka Manipal Medical College (Manipal Campus)	Anti ganglioside antibody profile and serum inflammatory markers in Guillain Barre Syndrome patients	Pragna Rao, PhD
114.	Nishanth B Bhat	Melaka Manipal Medical College (Manipal Campus)	Phytochemical investigation and bioprospecting of selected lichen species	Gautham Shenoy G, PhD
115.	Prathibha Maria D Almeida	Melaka Manipal Medical College (Manipal Campus)	The attenuating efficacy of Clitoria ternatea aqueous root extract and combined choline with DHA supplementations on deficits in behaviour and neural plasticity: A study on perinatal stressed rats through aging	Kiranmai S Rai, PhD
116.	Swapna S	Kasturba Medical College	Cost effectiveness analysis of various treatment regimens among psoriasis patients using Markov model	Anantha Nagappa Naik, PhD
117.	Bhaskar Ballal	School of Life Sciences	Characterization of jasmine cultivars of coastal Karnataka using morphological, cytological, phytochemical and molecular methods	Narasimhan S, PhD (Now he is in Biotech MIT)
118.	Poojari Poornima Shyam Sarojini	School of Life Sciences	The influence of He-Ne laser irradiation on the content of withanolide in Withania Somnifera (L.) Dunal	A Muthusamy, PhD
119.	Binil V	MCON, Mangalore	Effect of aggression management and violence prevention among nursing personnel working in psychiatric and emergency settings of selected hospitals of DK &	Christopher Sudhaker, PhD

			Udupi districts	
120.	Soumya Christabel	MCON, Mangalore	Effectiveness of E-surveillance by the Infection Control Competent Nurses (ICCN) in selected hospitals of Udupi and DK district, Karnataka	Christopher Sudhaker, PhD
121.	Meenal Aurelia Francis	School of Regenerative Medicine	Deciphering the cross-talk between β and non- β cells derived from induced pluripotent stem cells in reversal of in vivo hyperglycemia	Anujit Kumar K V, PhD
122.	Anitha J	Manipal University	Characterization of influenza neuraminidase gene and production of influenza virus like particles (VLPs)	Arunkumar G, PhD
123.	Sabeena S	Manipal University	Prevalence of human papilloma virus in Udupi Taluk, Udupi District, Karnataka, India	Parvati V Bhat, PhD
124.	Dinesh Natesan	National Centre for Biological Sciences	Characterization and modeling of neural circuits that integrate visual and mechanosensory stimuli in antenatal mechanosensors of hawk moths	Sanjay Prafullachandra Sane, PhD
125.	Nishma Dahal	National Centre for Biological Sciences	The role of pleistocene glaciations on the evolution of Pikas in the Himalaya	Uma Ramakrishnan, PhD
126.	Binnu Gangadharan	National Centre for Biological Sciences	Tropomyosin mutants in inherited cardiomyopathy	R Sowdhamini, PhD
127.	Raja Lakshmi S	National Centre for Biological Sciences	Role of H-NS and its paralogous protein StpA in transcription regulation of E.Coli	Sandeep Krishna, PhD
128.	Vidyanand S	National Centre for Biological Sciences	Role of micro RNAs in planarian regeneration	Jyotsna Dhawan, PhD
129.	Dhiru Bansal	National Centre for Biological Sciences	To study post-transcriptional regulation essential for regeneration and stem cell function in <i>Schmidtea mediterranea</i>	Jyotsna Dhawan, PhD
130.	Swarna Mathre	National Centre for Biological Sciences	Regulation of growth and development by lipid kinases	Raghu Padinjat, PhD
131.	Aniruddha Panda	National Centre for Biological Sciences	Biochemical analysis of phospholipase D in lipid homeostasis in <i>Drosophila</i>	Raghu Padinjat, PhD

132.	Ekaterina Brocke	National Centre for Biological Sciences	Tool development for multiscale simulations	Upinder Singh Bhalla, PhD
133.	Devaiah M K	National Institute of Malaria Research	Identification of Anopheles stephensi midgut microflora and their effect on sporogonic development of Plasmodium species	Susanta Kumar Ghosh, PhD
134.	Arijit Pal	Salim Ali Centre for Ornithology and Natural History	A study on reproductive behavior of Nicobar long tailed macaque (<i>Macaca fascicularis umbrosa</i>) in Nicobar Islands, India	H N Kumara, PhD
135.	Savita Jayaram	Institute of Bioinformatics	Altered signaling pathways and processes in glioblastoma multiforme – a bioinformatics study	Ravi Sirdeshmukh, PhD
136.	Manoj Kumar Gupta	Institute of Bioinformatics	Altered micro RNA and molecular effects in glioblastoma	Ravi Sirdeshmukh, PhD
137.	Suran R Nambisan	Institute of Bioinformatics AND Applied Biotechnology	Identification of <i>Amaranthus Hypochondiracus</i> specific microflora through metatranscriptomics of the root	Subhashini Srinivasan, PhD
138.	Mubashshir Rasheed	Centre for DNA Fingerprinting and Diagnostics	Role(s) for yapsins in physiology and pathogenesis of <i>Candida glabrata</i>	Rupinder Kaur, PhD
139.	Suryanarayana Seera	Centre for DNA Fingerprinting and Diagnostics	Computational studies on intrinsically disordered proteins harbouring disease causing missense mutations.	H A Nagarajaram, PhD
140.	Abhishek Kumar	Centre for DNA Fingerprinting and Diagnostics	Structural and functional analysis of <i>Plasmodium falciparum</i> Acyl CoA Binding Protein (ACBP)	Akash Ranjan, PhD
141.	Nalini Raghunathan	Centre for DNA Fingerprinting and Diagnostics	Studies on Rho-dependent transcription termination and avoidance of RNA:DNA hybrids (R-loops) in <i>Escherichia Coli</i>	J Gowrishankar, PhD
142.	Neha Ghosh	Centre for DNA Fingerprinting and Diagnostics	Investigating the role of Abd-B and Dsx in sex-specific proliferation of the terminal postembryonic neuroblast	Rohit Joshi, PhD
143.	Vishwanath Jha	Centre for DNA Fingerprinting and Diagnostics	Identification and molecular characterization of the ESAT-6 interactome: impact on mycobacterial pathogenesis	Sangita Mukhopadhyay, PhD

144.	Varun Jayeshkumar Shah	Centre for DNA Fingerprinting and Diagnostics	Studies on non-canonical functions of splicing proteins in maintaining genomic stability	Maddika Subba Reddy, PhD
145.	Vakkalagadda A Ramesh	Centre for DNA Fingerprinting and Diagnostics	Computational studies on human nsSNPs in conjunction with protein-protein interaction networks	H A Nagarajaram, PhD
146.	Raviranjn Kumar	Centre for DNA Fingerprinting and Diagnostics	Investigating the role of Hox gene deformed in central nervous system patterning in <i>Drosophila melanogaster</i>	Rohit Joshi, PhD
147.	Rajeshree Sanyal	Centre for DNA Fingerprinting and Diagnostics	Analysis of the (p)ppGpp and DksA mediated stringent response regulatory network in <i>Escherichia coli</i>	R Harinarayanan, PhD
148.	Raju Kumar	Centre for DNA Fingerprinting and Diagnostics	Molecular characterization of early-onset sporadic rectal cancer	Murali Dharan Bashyam, PhD
149.	Biswajit Samal	Centre for DNA Fingerprinting and Diagnostics	Role of DSF in regulation of virulence associated functions; characterization of DSF sensing and response mechanisms	Subhadeep Chatterjee, PhD
150.	Amit Mahendra Karole	Centre for DNA Fingerprinting and Diagnostics	Role of MLL complex in regulation of rDNA transcription	Shweta Tyagi, PhD
151.	Mugdha Singh	Centre for DNA Fingerprinting and Diagnostics	Human genetic diversity studies in Indian populations: Analysis of Mitochondrial and Y chromosomal variations	Madhusudan Reddy Nandineni, PhD
152.	Shinde Swapnil Rohidas Anupama	Centre for DNA Fingerprinting and Diagnostics	Dissecting the cellular roles of phosphoinositide phosphatases	Maddika Subba Reddy, PhD
153.	Rajvardhan Madhukar Kapshikar	Centre for DNA Fingerprinting and Diagnostics	Study of mechanism and physiological role of Rho-dependent transcription termination and modulation by H-NS family of proteins in <i>Escherichia coli</i>	J Gowrishankar, PhD
154.	Anjana Kar	Centre for DNA Fingerprinting and Diagnostics	Human exome sequencing for identification of candidate genes in families with rare autosomal recessive disorders	Ashwin Bhikaji Dalal, PhD
155.	Samir Ahmad	Lupin Research Park	Design and development of novel drug delivery technology for depot injection of Ziprasidone	Archna Roy, PhD

156.	Bhalerao Hemant Hanumant	Lupin Research Park	Studies on design and evaluation of novel ophthalmic drug delivery systems for antiglaucoma and antibacterial agents	Sajeev Chandran, PhD
157.	Galande Amol Dattatreya	Lupin Research Park	Development and evaluation of oral liquid pediatric delivery system	Naveen Ahuja Khurana, PhD
158.	Aher Umesh Parashram	Lupin Research Park	Development of new and an efficient synthetic route of nucleoside analogues by utilizing the glycosylation protocols	Dhananjai Srivastava, PhD
159.	Gohel Sunilkumar Vinubhai	Lupin Research Park	Study of plausible enhancement in aqueous solubility and dissolution rate of poorly soluble drugs by cocrystalization techniques.	Girij Pal Singh, PhD
160.	Sunil Ramrao Murkute	Lupin Research Park	Isolation, characterization and, synthesis of impurities of Omeprazole, Ziprasidone, Cefadroxil in API and formulations	Girij Pal Singh, PhD
161.	Tilekar Ajay Ramachandra	Lupin Research Park	Design, synthesis and application of novel carbocycles by organocatalysed enantioselective multifunctional transformations	Neelima Sinha, PhD
162.	Mahajan Deepak Puna	Lupin Research Park	Synthesis of novel chiral phase transfer catalysts from proline, mandelic acid, tartaric acid and their use in asymmetric chemical synthesis	Himanshu Madhav Godbole, PhD
163.	Venkata Narotham M	Lupin Research Park	Development of a novel catalytic system for asymmetric oxidation of sulfides	Himanshu Madhav Godbole, PhD
164.	Hajare Anil Kashiram	Lupin Research Park	Development of novel methods for the synthesis of functionalized tetrahydro-fused heterocycles	Neelima Sinha, PhD
165.	Shabade Samir Shanteshwar	Lupin Research Park	Synthesis of hydroxamate derivative through rationale approach and evaluation of their anti-cancer activity	Purna Chandra Ray, PhD
166.	Mahip Kalyan Verma	Lupin Research Park	Gastric inhibitory polypeptide receptor (GIPR) mediated actions in CNS: implications for neurological disorders	Kumar V S Nemmani, PhD

167.	Mohite Sharadchandra Sudam	Lupin Research Park	Identification, isolation and characterization of unknown impurities in Budesonide, metaxalone and Fesoterodine drug substances and its pharmaceutical products	Ashish Sumantbhai Doshi, PhD
168.	Shobha Rani S	National Centre for Biological Sciences	Spatio-temporal patterns of stress induced structural plasticity in limbic circuits	Sumantra Chatterji, PhD
169.	Chakraborti Kasturi	National Centre for Biological Sciences	Understanding the role of chloride in the secretory pathway using DNA-based chloride sensors	Yamuna Krishnan, PhD
170.	Hemalatha B	National Centre for Biological Sciences	Behavioral and molecular mechanisms underlying division of labor and longevity in the Asian dwarf honey bee, Apis florea	Axel Brockmann, PhD
171.	Meghana Deepak Shirke	National Botanical Research Institute	Genome-wide comparison and host-pathogen interaction studies in rice blast fungus Magnaporthe	Ramaswamy S, PhD
172.	Priya Darshini Gurung	National Centre for Biological Sciences	Responses of generalist and specialist alpine plants to climate change	Uma Ramakrishnan, PhD
173.	Naveen Narayanan	National Centre for Biological Sciences	Structural analysis of type – III DNA methyltransferases involved in adaptation	Deepak Thankappan Nair, PhD
174.	Harmeet Kaur	Regional Centre for Biotechnology	New paradigm in antigen reaction: Systems approach of antibody-antigen interaction data	Vengadesan Krishnan, PhD
175.	Pergu Rajaiah	Regional Centre for Biotechnology	Molecular mechanism of tunneling NanoTube (TNT) biogenesis and function	Chittur V Srikanth, PhD
176.	Harsh Kumar	Regional Centre for Biotechnology	The role of exocyst complex in cytokinesis	Sivaram S Mylavarapu, PhD
177.	Sagar Pralhad Mahale	Regional Centre for Biotechnology	Molecular mechanisms governing the spindle assembly checkpoint	Sivaram S Mylavarapu, PhD
178.	Gayatree Mohapatra	Regional Centre for Biotechnology	Studies on the role of SUMOylation in Salmonella induced enteritis	Chittur V Srikanth, PhD
179.	Thiruvvelselvan P	Thrombosis Research Institute	Leukocyte subpopulation in Coronary Artery Disease (CAD) patients: Role in plaque instability and severity of disease	Lakshmi A Mundkur, PhD
180.	Ankit Kailashchandra	Thrombosis Research Institute	Development of integrative platform for understanding	Rajani Kanth Vangala, PhD

	Sharma		the modulation of clinically important pathways in Coronary Artery Disease pathways	
181.	Madankumar Ghatge	Thrombosis Research Institute	Integrative networker biomarker strategy for premature coronary artery disease in young Asian Indians	Rajani Kanth Vangala, PhD
182.	Thota V L Narasimha Rao	Thrombosis Research Institute	Immune modulation and atherosclerosis in ApoB48/Ldlr mice: correlation of immune response and gene expression with disease progression	Lakshmi A Mundkur, PhD
183.	Jinsha K	Institute of Bioinformatics AND Applied Biotechnology	Evaluation of the effect of Curcumin and its derivatives on the expression profile of micro RNAs in ovarian cancer cells	Bibha Choudhary, PhD
184.	Abha Jain	Regional Centre for Biotechnology	Structural biology of allergy-specific proteins from solanaceae family	Dinakar M Salunke, PhD
185.	Gowtham Kumar Annarapu	Regional Centre for Biotechnology	Hemoglobin regulation of thrombosis in hemolytic conditions	Prasenjit Guchhait, PhD
186.	Somanath Kundu	Regional Centre for Biotechnology	Investigating the effect of bile acid amphiphiles on cancer and angiogenesis progression	Avinash Bajaj, PhD
187.	Vedagopuram Sreekanth	Regional Centre for Biotechnology	Design and engineering of lipid-anticancer drug conjugates for cancer therapy	Avinash Bajaj, PhD
188.	Pranita Hanpude	Regional Centre for Biotechnology	Understanding of molecular basis of BRCA-1 associated protein-1 (BAP1) function in cellular processes	Tushar Kanti Maiti, PhD
189.	Sreelakshmi K S	Institute of Bioinformatics	Integrated transcriptomic and proteomic analysis of the Indian malaria vector - Anopheles stephensi	Keshava Prasad T S, PhD
190.	Gourav Dey	Institute of Bioinformatics	Mass spectrometry-driven genome annotation of Anopheles stephensi Liston, a major malaria vector in India	Keshava Prasad T S, PhD
191.	Manish Kumar	Institute of Bioinformatics	Proteomic analysis of fat body of Anopheles stephensi Liston using high-resolution mass spectrometry	Keshava Prasad T S, PhD

192.	Vadla Raghavendra	Centre for DNA Fingerprinting and Diagnostics	To understand the function of Histone H3K56 acetylation in DNA damage signaling and cell metabolism in mammals	Devyani Haldar, PhD
193.	Lahiri Konada	Centre for DNA Fingerprinting and Diagnostics	Understanding the functions of fission yeast sirtuin Hst4 in DNA replication	Devyani Haldar, PhD
194.	Amrita Sengupta	Centre for DNA Fingerprinting and Diagnostics	To investigate and understand the nuclear functions of mammalian sirtuin 3	Devyani Haldar, PhD
195.	Chandra Sekhar Pasula	Palamur Biosciences	Evaluation of anti-cancer properties and adoptive response of quercetin	Savithiri Shivakumar, PhD

Year 2014

Sl. No	Name of the Student	Department	Title / Topic of Research	Name and Academic Qualifications of the Research Supervisor
1.	Ms Lalitha Devi	Research Scholar Dept of Physics, MIT, Manipal	Microwave Assisted Synthesis of Zinc Sulfide Nanostructures.	Dr Mohan Rao K, Ph D Dr Dhananjaya Kekuda, Ph D
2.	Ms Dayakshini	Research Scholar Dept of I&CE, MIT, Manipal	Development of a Computer Aided System for the Detection of Breast Cancer using Thermogram images	Dr Surekha Kamath, Ph D Dr Keerthana I, Ph D & Dr Rajagopal K V, Ph D
3.	Mr Sandeep Patil H G	Research Scholar, SOIS, Manipal	Non Invasive Approach for Determination of Anemia using Image processing	Dr P S Ramkumar, Ph D Dr G K Prabhu, Ph D
4.	Mr Asish Oommen Mathew	Asst Professor HSS, MIT	Knowledge Management in Indian Information Technology Industry - A study of the Influence of critical success factors on process capability and effectiveness	Dr LLR Rodrigues, Ph D
5.	Mr Satheesh Babu R	Research Scholar Dept of I&CE, MIT, manipal	Two- Degree-Of-Freedom Nonlinear Control Methodology through Robust Process Model Parameterizatio	Dr I Thirunavukkarasu, Ph D
6.	Mr Guruprasad	Asst Professor, Dept of E&C, MIT, manipal	Investigation on Performance Improvement of a Low Drop Out Voltage Regulator	Dr Kumara Shama, Ph D
7.	Ms Supreetha B S	Asst Professor-Sr. Scale, Dept of E&C MIT, manipal	Soft Computing Models for Forecasting Ground Water Level in Lateritic Terrain	Dr K Prabhakara Nayak, Ph D Dr Narayan Shenoy K, Ph D

8.	Ms Nimisha Agarwal	Research Scholar NIAS Bangalore	Assessment of Farmers' Perception of Climate Change and Local Adaptation Strategies in Uttar Pradesh	Dr P K Shetty, Ph D
9.	Mr Vijaykumar	Research Scholar SOC, Manipal	A Study of Brand Promotion Activity through Product Placement in Bollywood Blockbuster Films.	Dr Padma Rani, Ph D
10.	Mr Sayinath Udupa N V	Assistant Professor Dept of Maths, MIT, Manipal	Strong block domination and related parameters in graphs.	Dr. S Ravishankar Bhat, Ph D
11.	Mr S Ramgopal	Research Scholar BVB, Bangalore	Supply Chain efficiency in Agri-Business: A case study of Apple Industry in India.	Dr N S Viswanath, Ph D Dr Sayinath Udupa, Ph D
12.	Ms Chandrima Home	Research Scholar ATREE, Bangalore	The ecological and social dimensions of human-dog-wildlife conflict in the Upper Spiti Landscape, Himachal Pradesh, India.	Dr Abi Thamim Vanak, Ph D Dr Yash Veer Bhatnagar, Ph D
13.	Ms Rashmi M	Research Scholar NIAS Bangalore	Mobile phones and changing Media consumption practices in Bangalore.	Dr carol upadhyay, Ph D
14.	Ms Manjula C Belavagi	Assistant Professor, Dept of I&CT, MIT, Manipal	Traffic Prediction Based Intrusion detection for Wireless Sensor Networks.	Dr Balachandra, Ph D
15.	Mr Pradeep P Shanbogh	Research Scholar PPISR, Bangalore	Semiconducting Oxide Nanoparticles: Band Gap Engineering, Photocatalysis and Photoluminescence Studies	Dr Nalini G Sundaram, Ph D Dr Ashok Rao, Ph D
16.	Ms Swetha Lankipalli	Research Scholar PPISR, Bangalore	Structure guided modification and characterization B7-2 molecule for potential use in immunotherapy	Dr Udupi A Ramagopal, Ph D
17.	Ms Sumithra Sunder	Research Scholar NIAS, Bangalore	Creative collectives: A case study of collaborative practices in Karnataka.	Dr Sharada Srinivasan, Ph D
18.	Ms Ashwini Bhat	Asst Professor Dept of Mathematics, MIT, Manipal	Numerical & Semi-Numerical Solution for Boundary Value Problems Arising in Fluid Dynamics	Dr Nagaraj N Katagi, Ph D Dr Sessap A Rai, Ph D
19.	Ms Radhika Bhandary P	Asst. Professor, Dept of Civil Engineering, MIT, manipal	Stability analysis of Embankments on Consolidating Soil using Finite Element Method and Genetic Algorithm.	Dr A Krishnamoorthy, Ph D Dr Asha Uday Rao, Ph D
20.	Ms Swathinayak	Asst. Professor, Dept of Maths, Mit, Manipal	Energy of Graph and its Generalized Complements.	Dr Pradeep G Bhat, Ph D

21.	Ms Vidya Kudva	Research Scholar SOIS Manipal	Color Image Analysis for Cervical Cancer Screening.	Dr Keerthana I, Ph D
22.	Mr Srinivas T V	Research Scholar BVB, Bangalore	Total Service Quality in Healthcare: With special reference to Yeshasvini Project in Karnataka	Dr N S Viswanath, Ph D Dr Sayinath Udupa, Ph D
23.	Mr Sandeep Sen	Research Scholar ATREE, Bangalore	Center of Origin of Black pepper and Phylogeny of Genus Piper in India.	Dr G Ravikanth, Ph D Dr Aravind N A, Ph D
24.	Ms Roshmi Rekha Sarma	Research Scholar ATREE, Bangalore	Influence of spatial and temporal scales of disturbance on patterns of distribution: A study using land snails of the Western Ghats, India	Dr Aravind N A, Ph D
25.	Ms. Sethu H S	Associate Professor WGSMA, Manipal	Effectiveness of entrepreneurship Development Programmes on New Venture Creation in Udupi District.	Dr Asha Kamath, Ph D
26.	Mr Joseph John Nalloor	Research Scholar SOC Manipal	Indian Media Business in UAE: A study on the Emergence of Diasporic Malayalam Newspapers (UAE Edition)	dr Padma Rani, Ph D
27.	Mr Alok Mohan	Research Scholar Geopolitics & IR, MU	External Factors in India's Internal Security: Strategies and Solutions	Dr Arvind Kumar, Ph D
28.	Mathias Selvine George	Asst Professor Dept of Mathematics, MIT, Manipal	Spectrum Related Parameters and Properties of Resolvents of Linear Operators	Dr Indira K P, Ph D
29.	Ms Swathi K S	Research Scholar Dept of Humanities & Management, MIT, Manipal	Impact of Hospital Accreditation on Quality of Patient Care and Satisfaction	Dr A Siva Kumar, Ph D Dr B Gopalakrishna, Ph D
30.	Vinay Madhusudanan	Asst Professor Dept of Mathematics, MIT, manipal	Graphs Associated with Algebraic Structures.	Dr Sudhakara G, Ph D
31.	Shashi Kumar G S	Research Scholar Dept of Biomedical Engg, MIT	Hybrid Soft Computing Approaches for the classification of Human Emotions Using Electroencephalogram(EEG)	Dr Niranjana S, Ph D
32.	Srinivas G	Research Scholar Dept of Mechatronics MIT, Manipal	Evaluation and enhancement of Axial Flow Compressor Performance Under Distorted Phenomena in Transonic Flow.	Dr Raghunandana K, Ph D Dr Satish Shenoy B, Ph D
33.	Thejas K R	Kasturba Medical College	Validation of autoantibodies and their combined role with clinical	Suma Nair, MD

			anthropometric and behavioral factors in predicting breast cancer risk in Indian women	
34.	Shivakumar M	Kasturba Medical College	Population pharmacokinetic and pharmacodynamic study of aminopylline and caffeine in premature newborns with apnea	Leslie Edward Lewis, MD
35.	Ranjini H S	Kasturba Medical College	Invitro study of natural inhibitors of angiotensin converting enzyme (ACE) in sheep (Ovis aries) tissues	Padmanabha Udupa E G, Ph D
36.	Kiran Kumar N	Kasturba Medical College	Evaluation of causative factors in amoldipine induced pedal edema and demonstration of resolution in edema with substitution of cilnidipine	Ranjan S K, DM
37.	Kamat Nagesh Narayan	Kasturba Medical College	Cost of illness, quality of life and patient education in chronic nonmalignant intestinal diseases	Ganesh Pai C, MD
38.	Pradeepa H D	Kasturba Medical College	Twenty four hour continuous temperature recording: normal pattern and usefulness in patients with fever	Chakrapani M, MD
39.	Jaseem T	Kasturba Medical College	Correlation of thyroid peroxidase antibody titer to cardiovascular markers in subclinical and overt hypothyroid subjects before and after treatment	Dr Anupama Hegde, Ph D
40.	Jyoti Kumari	Kasturba Medical College	Virulence, antibiotic resistance and molecular profile of hospital aquired methicillin resistant Staphylococcus aureus	Gopalkrishna Bhat K, Ph D
41.	Shilpa N Bijoor	Kasturba Medical College	Heart rate variability and Q-Tc analysis in solid malignant tumor	Subbalakshmi N K, Ph D
42.	Arjun B Y	Kasturba Medical College	Educational intervention to improve adherence to anti retro-viral therapy (ART) among people living with human immunodeficiency virus (PLHIV)- a randomized controlled trial	Unnikrishnan B, MD

43.	Maninder Kour	Kasturba Medical College	Role of prolactin and somatostatin in breast cancer progression an in-vivo study	Vinodini N A, Ph D
44.	Durgarao Yalla	Kasturba Medical College	Assessment of biochemical markers of cardiovascular complications following vitamin D and vitamin D plus alpha lipoic acid supplementation in type –II diabetes patients	Poornima Manjrekar, MD, Ph D
45.	Ramesh C	Manipal College of Nursing	Effectiveness of comprehensive nursing interventions programme (CNIP) on anxiety, fatigue, self-efficacy and quality of life (QOL) among patients undergoing coronary artery bypass graft surgery	Baby S Nayak, Ph D
46.	Shejila C H	Manipal College of Nursing	A randomized controlled trial to evaluate the impact of nurse navigator programme (NNP) on anxiety, psychological distress and quality of life of breast cancer patients in a tertiary care hospital, Karnataka	Mamatha Shivanand Pai, Ph D
47.	Vishnu Renjith	Manipal College of Nursing	Effect of multicomponent intervention on migraine	Anice George, Ph D
48.	Managuli Renuka Suresh	Manipal College of Pharmaceutical Sciences	Development and evaluation of asenapine maleate nanoformulations to improve bioavailability through intestinal lymphatic system	Srinivas Mutalik, Ph D
49.	Bhavana B Bhat	Manipal College of Pharmaceutical Sciences	Study on reporting and evaluation of Adverse Drug Reactions of herbal medicines for lifestyle disorders	D Sreedhar, Ph D
50.	Rajalekshmi M	Manipal College of Pharmaceutical Sciences	Bioactivity guided fractionation approach for the evaluation of anticancer activity on the rhizome of Sansevieria roxburghiana Schult. & Schult.f.	Sreedhara C S, Ph D

51.	Gunjawate Dhanshree Rajesh	Manipal College of Allied Health Sciences	Comprehensive voice evaluation in Indian classical singers	Venkatarama Aithal U, Ph D
52.	Sonia Khurana	Manipal College of Allied Health Sciences	Effect of structured neonatal physiotherapy intervention on neuromotor development of moderate to late preterm infants	Bhamini K Rao, Ph D
53.	Deepika V Bhat	Manipal Life Sciences Center	Functional role of endophytes in overcoming stress and in eliciting host derived secondary metabolites	T S Murali, Ph D
54.	Manik Vohra	Manipal Life Sciences Center	Effect of allele specific DNA methylation in folate pathway genes in type 2 diabetes	Padmalatha Rai S, Ph D
55.	Monica Shirley Mani	Manipal Life Sciences Center	Cellular and molecular mechanisms involved in variations to lead toxicity	Herman Sunil D Souza, Ph D
56.	Vaibhav Shukla	Manipal Life Sciences Center	Characterization and functional evaluation of miRNAs in cervical carcinogenesis	Satyamoorthy K, Ph D
57.	Swathy P S	Manipal Life Sciences Center	Biochemical and molecular characterization of bioactive molecules in He- Ne laser irradiated brinjal (<i>Solanum melongena</i> L.)var. mattu gulla	A Muthusamy, Ph D
58.	Ipsita Pujari	Manipal Life Sciences Center	Modulation of ‘Moscatalin’ biosynthetic pathway in <i>Dendrobium ovatum</i>	Vidhu Sankar Babu, Ph D
59.	Melissa Glenda Lewis	Department of Statistics	Application of Bayesian methods in public health evidence synthesis	Sreekumaran Nair N, Ph D
60.	Jessy A	Dept of Library and Information Science	An evaluation of the health science professionals’ utilization of electronic information resources at Manipal University, Manipal	Mahabaleswara Rao, Ph D
61.	Azadeh Bagheri	Kasturba Medical College	Angiogenic factors and cytokines in relation to maternal NK-cell activity in embryo implantation	Pragna Rao, MD

62.	Sanu Susan Jacob	Kasturba Medical College	Eryptotic pathways in infectious diseases associated with Anemia	Pragna Rao, MD
63.	Ansha Patel	Kasturba Medical College	Effectiveness of modified mindfulness based cognitive therapy in couples with infertility, undergoing intra uterine insemination	P S V N Sharma, MD
64.	Bheemesh Vangalapati	Kasturba Medical College	Retrogression of diabetic complications by Tribulus terrestris & Pterocarpus marsupium in nicotinamide – streptozotocin induced diabetes mellitus in Wistar rats: Is inflammatory modulation the answer?	Poornima Manjrekar, MD
65.	Zahoor Ahmed Rather	Kasturba Medical College	Role of melatonin in modulation of ethanol intake following forced ethanol consumption and deprivation in wistar rats	Mukta N Chowta, MD
66.	Renu G	Manipal College of Nursing	A randomized controlled trial on home safety supervisory program (HSSP): influence on childhood injury knowledge, home safety practices and caregivers' child supervisory practices in Udupi	Anice George, Ph D
67.	Nimmy Kumar	Manipal College of Pharmaceutical Sciences	Isolation and characterization of phytoconstituents from Elytranthe parasitica (L.) Danser and evaluation of its anticancer activity	Richard Lobo, Ph D
68.	Akhila H S	Manipal College of Pharmaceutical Sciences	Evaluation of novel non ulcerogenic synthetic molecules in inflammation	Unnikrishnan M K, Ph D
69.	Anuraag Muralidharan	Manipal College of Pharmaceutical Sciences	Drugs from marine microbial source for Alzheimer's disease – an exploratory study	J Venkata Rao, Ph D
70.	Magith Thambi	Manipal College of Pharmaceutical Sciences	Evaluation of the effect of ketogenic diet on gut microbiota in paediatric patients with drug-resistant epilepsy	Kurupath Radhakrishnan , DM

71.	Lavanya Kondapalli	Manipal College of Pharmaceutical Sciences	Brain targeted multifunctional nanoformulation for the treatment of Alzheimer's disease	Srinivas Mutalik, Ph D
72.	Aju Abraham	Manipal College of Allied Health Sciences	Maturation of auditory processing in non habilitated adolescents and adults with prelingual hearing impairment using event related potentials	Krishna Y, Ph D
73.	Kiran S	Manipal College of Allied Health Sciences	Investigating the evidence for sub-lexical dyslexia in semi-syllabic orthography	Gopeekrishnan ., Ph D
74.	Sheela S	Manipal College of Allied Health Sciences	Aerodynamic and perceptual measures in non-indwelling and indwelling tracheoesophageal prosthetic voice	Venkataraja Aithal U, Ph D
75.	Kotian Rahul Pratap	Manipal College of Allied Health Sciences	Estimation of fractional anisotropy values using diffusion tensor imaging in normal brain	Prakashini K, Ph D
76.	Krithica S	Manipal College of Allied Health Sciences	Prevalence of visual stress and role of orthography on reading performance among bilingual children with and without dyslexia	Peter Allen, Ph D
77.	Ramesh Babu M G	Melaka Manipal Medical College (Manipal Campus)	Variations in default mode network of brain among rajayoga meditators, non-meditators and patients with migraine disorder – An in-depth voxel based morphometric analytical study of sMRI and fMRI	Kiranmai S Rai, Ph D
78.	Sujatha Prabhu P	Melaka Manipal Medical College (Manipal Campus)	Evaluation of goal-directed intraoperative fluid therapy in general surgical patients undergoing open major bowel surgery	Anitha N, MD
79.	Ashwini Aithal P	Melaka Manipal Medical College (Manipal Campus)	Safety and efficacy of human bone marrow derived mesenchymal stromal cells in liver cirrhosis animal model	Laxminarayana Bairy K, MD

80.	Arul Amuthan L	Melaka Manipal Medical College (Manipal Campus)	Nephroprotection studies based on bioactivity guided fractions of Vernonia cinerea (Asteraceae) against cisplatin induced damage – An experimental pharmacological approach	Vasudha Devi, MD
81.	Shakta Mani Satyam	Melaka Manipal Medical College (Manipal Campus)	Influence of gender and obesity on analgesic modulation of tramadol in rats: a neuroendocrinological approach	Laxminarayana Bairy K, MD
82.	Suganthi Martena Devadas	Melaka Manipal Medical College (Manipal Campus)	Understanding the genetic basis of biofilm formation in Non-Candida albicans Candida (NCAC) species with special reference to role in pathogenesis and resistance to anti-fungal drugs	Mamatha Ballal, Ph D
83.	Vignesh B S	Melaka Manipal Medical College (Manipal Campus)	The study on genotyping of Helicobacter pylori virulence associated genes with special reference to cagA EPIYA Motif from clinical isolates in South Coastal region of Karnataka	Mamatha Ballal, Ph D
84.	Tatiyana Mandal	Melaka Manipal Medical College (Manipal Campus)	Impact of functional polymorphisms in serotonin transporter gene (SLC6A4) and cytochrome P450C19 (CYP2C19) gene on response to escitalopram in patients with major depression	Laxminarayana Bairy K, MD
85.	Manoj Bhat K	Manipal Life Sciences Center	Systems biology of one carbon pathway	Padmalatha Rai S, Ph D
86.	Bharath H R	Manipal Life Sciences Center	The influence of low level laser irradiation on tissue repair in burn injury	Krishna Kishore Mahato, Ph D
87.	Aswathy Raj S	Dept of Virology	Molecular characterization of Coxsackievirus A6 and development of an epitope based candidate vaccine	Arunkumar G, Ph D
88.	Sheeba G	Foundation for Revitalisation of Local Health Traditions	Scientific evaluation of copper and selected rasayana herbs as drinking water quality enhancers	Padmavathy Venkatasubramanian, Ph D

89.	Lavanyaa M	inStem	Structure and function studies of nucleotide sugar transporters	Ramaswamy S, Ph D
90.	Gaitonde Nikhil Nishikant	National Centre for Biological Sciences	The role of ecological selection on morphological diversification and mating systems	Krushnamegh J Kunte, Ph D
91.	Shaista Jabeen	National Centre for Biological Sciences	Role of gap junctions in assembling the visual circuitry of zebrafish larvae	Vatsala Thirumalai, Ph D
92.	Vaibhhav Sinha	National Centre for Biological Sciences	Exploring viral competitive strategies using the lambda phage	Sandeep Krishna, Ph D
93.	Aditi Mukherjee	Salim Ali Centre for Ornithology and Natural History	Burrow use patterns by terrestrial vertebrates in Keoladeo National Park, Bharatpur, India	H N Kumara, Ph D
94.	Nair Vidya Gopinathan	Iladevi Cataract and Intraocular Lens Research Centre	Molecular genetics of congenital ocular anomalies	S Rajkumar, Ph D
95.	Panga Venugopal	Institute of Bioinformatics AND Applied Biotechnology	Investigation of inflammatory network systems in rheumatoid arthritis using systems biology approaches	Srivatsan Raghunathan, Ph D
96.	Poulami Dey	Institute of Bioinformatics AND Applied Biotechnology	Role of cytokines and gene variants in rheumatoid arthritis a systems biology approach	Srivatsan Raghunathan, Ph D
97.	Vandana Viswanathan	Institute of Bioinformatics AND Applied Biotechnology	Comparative and functional genomic studies carotenoid biosynthesis in <i>Sphingomonas</i> species	Shivakumara Swamy Siddaramappa, Ph D
98.	WG CDR Srinidhi S	Salim Ali Centre for Ornithology and Natural History	Assessment of impact and management strategies of the bird buzzards to aircrafts in India	P Pramod, Ph D
99.	Beena H B		Antimicrobial resistance profile of clinical isolates of klebsiella with special reference to extended spectrum betalactamases and carbapenemases	Shalini Shenoy M, Ph D
100.	Advani Jayshree Nareshkumar	Institute of Bioinformatics	Whole genome sequencing analysis of Mycobacterium tuberculosis clinical isolates from India	Keshava Prasad T S, Ph D

101.	Vidya G	Institute of Bioinformatics AND Applied Biotechnology	Mechanism of chromosomal translocation and therapeutics	Bibha Choudhary, Ph D
102.	Vadgama Paresh Natwarlal	Lupin Research Park	Microemulsion based system for non-parenteral delivery of therapeutic proteins	Alok Sharma, Ph D
103.	Joshi Omkar Umesh	Lupin Research Park	Antimicrobial resistance profile of clinical isolates of klebsiella with special reference to extended spectrum betalactamases and carbapenemases	Archna Roy, Ph D
104.	Nehate Sagar Purushottam	Lupin Research Park	Synthesis of ionic liquids and their use in enantioselective reactions	Himanshu Madhav Godbole, Ph D
105.	Bokare Anand Motiram	Lupin Research Park	A study on the role of central 5-HT ₆ receptors in memory impairment associated with neurodegeneration	Mandar R Bhonde, Ph D
106.	Sarde Ankush Gangaram	Lupin Research Park	Total synthesis and biological screening of Calcaripeptides A-C and their analogs	Kulkarni Sanjeev Anant, Ph D
107.	Nigade Prashant Balasaheb	Lupin Research Park	Prediction of tumor-to-plasma ratios (K _{ptumor}) in subcutaneous xenografts mouse models by development of correlation-based regression equations using normal tissue-to-plasma ratios (K _{ptissue})	Kumar V S Nemmani, Ph D
108.	Dev Ashish Giri	Centre for DNA Fingerprinting and Diagnostics	Introgession of translocations from Neurospora crassa to Neurospora tetrasperma: a search for nucleus-limited genes	Durgadas B Kasbekar, Ph D
109.	Pratyusha Bala	Centre for DNA Fingerprinting and Diagnostics	Identification of tumorigenic pathways driving early-onset sporadic rectal cancer	Murali Dharan Bashyam, Ph D
110.	Richa Gupta	Centre for DNA Fingerprinting and Diagnostics	Studies on crosstalks between Rho-dependent termination and other physiological process	Ranjan Sen, Ph D

111.	Rashmi Sipani	Centre for DNA Fingerprinting and Diagnostics	Understanding the role of grainyhead in Drosophila Central Nervous system development	Rohit Joshi, Ph D
112.	Shruti Srivastava	Centre for DNA Fingerprinting and Diagnostics	Biological functions of a PE/PPE protein during Mycobacterium tuberculosis infection	Sangita Mukhopadhyay, Ph D
113.	Ravish Sharma	Centre for DNA Fingerprinting and Diagnostics	Studies on roles of the paralogous phosphotransferase system in K ⁺ metabolism in Escherichia coli	Abhijit Sardesai, Ph D
114.	Dolasia Komal Chendreshkumar Chetana	Centre for DNA Fingerprinting and Diagnostics	Immunomodulatory properties of PPE18 protein of Mycobacterium tuberculosis and its implication as therapeutics to treat endotoxemia	Sangita Mukhopadhyay, Ph D
115.	Boarase Bhushan Bhikanrao	Lupin Research Park	Application of Ugi reaction for the synthesis of ACE inhibitors, ureidopenicillins and antioxidant	Himanshu Madhav Godbole, Ph D
116.	Sasane Sachin Arun	Lupin Research Park	New modified strategies towards synthesis of statins, prostaglandins and chiral amine induced active pharmaceutical ingredients	Bhise Nandu Baban, Ph D
117.	Gairika Ghosh	Centre for DNA Fingerprinting and Diagnostics	Studies on transcription antiterminators	Ranjan Sen, Ph D
118.	Avani Chandubhai Dodiya	Lupin Research Park	Development of in-vitro dissolution method and establishing in vitro and in vivo correlation/relationship (IVIVC/R) for oral dosage form	Sajeev Chandran, Ph D
119.	Deokar Vaibhav Dnyaneshwar	Lupin Research Park	Characterization and functional evaluation of miRNAs in cervical carcinogenesis	Alok Sharma, Ph D
120.	Bahirat Umakant Ashok	Lupin Research Park	Role of GPR119 agonists for the treatment of NonAlcoholic SteatoHepatitis (NASH)	Kumar V S Nemmani, Ph D

121.	Hemanthkumar Khushal Gaidhane	Lupin Research Park	Design, development and in-vitro evaluation of a topical formulation of corticosteroid	Rajiv Kumar Khurana, Ph D
122.	Velankar Avadhoot Dilip	Salim Ali Centre for Ornithology and Natural History	Population status and resource utilization of Nicobar long tailed macaque (<i>Macaca fascicularis umbrosa</i>) in Nicobar Islands, India	H N Kumara, Ph D
123.	Rakesh Trivedi	Centre for DNA Fingerprinting and Diagnostics	Computational studies on intrinsically disordered proteins	H A Nagarajaram, Ph D
124.	Nida Ali	Centre for DNA Fingerprinting and Diagnostics	Functions and mechanisms of action of the endoribonucleic RNase E in <i>Escherichia coli</i>	J Gowrishankar, Ph D
125.	Srinivas Animireddy	Centre for DNA Fingerprinting and Diagnostics	Molecular characterization of recurrent genetic lesion identified in pancreatic cancer	Murali Dharan Bashyam, Ph D
126.	Debasish Kumar Ghosh	Centre for DNA Fingerprinting and Diagnostics	Comparative studies on regulation of repeat induced misfolded protein in human and plasmodia	Akash Ranjan, Ph D
127.	Joshi Atul Arvind	National Centre for Biological Sciences	Shola-grassland dynamics: What limits the shola woody species to establish in the adjoining grasslands of the Western Ghats, India?	Mahesh Sankaran, Ph D
128.	Anu G Nair	National Centre for Biological Sciences	Modeling biochemical network involved in synaptic plasticity	Upinder Singh Bhalla, Ph D
129.	Sujit Suklabaidya	Institute of Life Sciences	Identification of novel drugs against desmoplastic pancreatic tumor	Shantibhusn Senapati, Ph D
130.	Sumeet Jain	Institute of Life Sciences	Investigation of the role of bacterial infection in prostate cancer progression	Shantibhusn Senapati, Ph D
131.	Ashoka Chary Taviti	Institute of Life Sciences	Understanding the role of MinD ATPase and its interactions with other cell division proteins on MinCD oscillation in <i>E.Coli</i>	Tushar Kant Beuria, Ph D

132.	Praveen Barrodia	Institute of Life Sciences	Function of hypothetical proteins in zebrafish organogenesis	Rajeeb Kumar Swain, Ph D
133.	Santanu Maji	Institute of Life Sciences	Restoring cell death in chemoresistant Oral Squamous Cell Carcinomas (OSCC)	Rupesh Dash, Ph D
134.	Sabira Mohammed	Rajiv Gandhi Centre for Biotechnology	The role of SPHK1/S1P axis in innate immune response	Harikumar K B, Ph D
135.	Sabindra Kumar Samal	Institute of Life Sciences	A novel DDX3 inhibitor to treat oral squamous cell carcinoma	Rupesh Dash, Ph D
136.	Rashmi Ray	Institute of Life Sciences	LPA-ATX axis in inflammation and immune response	Vivek Rai, Ph D
137.	Rakshith Shetty		Development of stable effervescent formulation of N-acetyl L-Cysteine using a twin screw processor	Nayanabhirama Udupa, Ph D
138.	Pushpinder Singh Bawa	Institute of Bioinformatics AND Applied Biotechnology	Big data in biomarker discovery : prostate cancer	Subhashini Srinivasan, Ph D
139.	Vineet Kumar Singh	Apotex Research Pvt Ltd	LCMS based quality control of commercially important herbal extracts	Deepak M, Ph D
140.	Homchoru Mondal	Bhat Biotech Pvt Ltd	Development of an image analytic and electrochemical method for measurement of hemoglobin and glycated hemoglobin	Arun Chandrashekar, Ph D

ANNEXURE 8.6A

Details of Consultancy services offered and funds generated

1. School of Allied Health Sciences, Manipal

- In additions to Clinical Services Provided at Kasturba Hospital, Manipal, SOAHSis actively providing services at Dr TMA Pai Hospital Udupi where the 30% of the total income generated is used for the Academic Advancement of faculty members.
- Department of Health Information Management received an amount of Rs. 5 Lakhs as a consultation fee from University of Botha for the Launch of B.Sc. HIA program.

2. School of Life Sciences, Manipal

- Cytotoxicity / Geno toxicity / Biophysics

3. Dept. of Statistics, KMC Manipal

Areas of consultancy: Statistics, Epidemiology and Research Methodology

Dept. faculty runs a consultancy centre which provide consultancy in Research design, data processing, statistical analysis and use of various statistical packages for the benefit of research scholars, Graduates, Post graduates & Faculty members. Center provide consultancy for Research design, data analysis, report writing, also provide guidance PhD scholars, Conduct summer courses for research student & contribute to the research committee in evaluating PhD Protocols, interim reports etc.

Revenue generated: These Services are provided free of cost.

4. Manipal College of Nursing, Manipal

INC - GFATM -7 Project on HIV/AIDS & TB

The INC-GFATM Project on Strengthening Institutional Capacity for Nursing Training on HIV/AIDS & TB in India under GFATM 7 project contributes to this strategy. This project is executed in coordination with National AIDS Control Organization and Central TB Division. The project component being implemented through the Indian Nursing Council focuses on strengthening institutional capacity for nursing training on HIV/AIDS & TB in India. The principal Recipient for this programme is the Indian Nursing Council.

Manipal College of Nursing Manipal, Manipal University, is selected as one of the Sub Sub Recipient for this project. MCON.Manipal is covering beautiful 14 Karnataka districts. Geographically Karnataka has three principle zones called coastal strip,

Western Ghat and Deccan Plateau and deccanplateu is consists of large area in Karnataka. Under GFATM Project Maniapl College of Nursing, Manipal's coverage area has representation from all above three principle zones of Karnataka i.e Shivamoga, Kodagu, Chikmaglur, Hassan Dakshina Kannada, Udupi, Gadag, Uttara Kannada, Haveri, Koppala, Belgaum, Dharwad, Bellary and Davanagere likewise we tried to have participants from all regions in this year from both private and public sector.

Following are the training details till Dec 2014

Number of Nurses trained on HIV/AIDS & ART : 2029

Number of ANMs trained on HIV/AIDS & STI : 905

Number of Nurses trained on TB : 263

Number of ANMs trained on TB : 119

Number of Nursing Administrators trained : 262

There are Seven faculty from Manipal College of Nursing had undergone special training about HIV/AIDS & ART under this project to train staff nurses and 5 faculty were trainers for training on Tuberculosis. Supportive supervision of the staff nurses' is the part of this project which fosters a collaborative approach to strengthen staff nurse's performance on care support and treatment for PLHIVs. Through this way Manipal College of Nursing has become a part of NACP III, IV and RNTCP and trying to set an example for Public Private Partnership through this process. It is trying its level best to contribute towards the strengthening of public health and combat against present day's most stigmatized infection HIV/AIDS and biggest health problem of Inida TB at locally, nationally and globally.

Total Amount received till Dec 2014: Rs 2,69,05,300/-

ICMR-DHR FUNDED PROJECT on "Capacity building for nurse educators to conduct multidisciplinary research in geriatric area"

The principal investigator for the project is Dr Anice George, Dean, Manipal College of Nursing Manipal with all professors and HoDs' as co investigators. The project is of five years duration with first year for the preparation of Training module on Geriatric Health Research followed by training of trainers workshop, for the next four years there will be training workshops for nurse educators on "how to conduct multidisciplinary research in Geriatric care area". For each year we have divided the entire nursing colleges of India in to four different zones (North, east, west and south) and each zone will be covered every year. A total of 120 nurse educators divided in four groups will be trained. Thirty nurse educators will be in one group and will

attend the workshop for three weeks duration. ICMR-DHR have sanctioned a total amount of rupees 55laks towards this project accomplishment.

Nursing Research Methodology Workshop

- The Manipal college of Nursing initiated the Nursing research methodology workshop for Post graduate Nursing students of Karnataka. From 24th to 26th September 2013, PG students (16) were deputed by various institutions for the workshop. The amount generated: Rs 24000.
- The same workshop was conducted again from 25th to 27th February 2014 on Nursing research Methodology workshop was conducted for 14 PG students. The amount generated: 21000/
- Workshop on systematic review was organized for the faculty of MCON to sensitize the faculty on conducting systematic review.

5. Manipal College of Pharmaceutical Science, Manipal

- Formulation development
- Analytical testing services
- Preclinical animal testing
- Community Pharmacy
- Poison information center
- Drug information center

Income generated: 2 laks/ year (Appox)

6. Melaka Manipal Medical College, Manipal

Areas of consultancy: laboratory management, diagnostic services

Income generated: Nil

7. Manipal College of Dental Sciences, Manipal

S.No	Areas of consultancy	Income generated		
		2012	2013	2014
1	Mechanical testing of materials	61,894.00	1,06,656.00	1,75,362.00
		0		0

8. Manipal Institute of Technology, Manipal

- Chemical Engineering

Analysis Procedures testing

- Areas of consultancy: Oil testing and particle size analysis in instrumental analysis Lab
- Income generated: 2012,2013, 2014 = Total Amount Rs.31,232

- **Civil Engineering**

- Areas of consultancy-Civil engineering material testing, concrete mix design, strength of materials, soil testing, surveying, environmental lab, non-destructive testing and structural engineering lab. Individual consultancy by the faculty related to design and analysis of civil engineering structures.
- Income generated: 65 lakh

- **Electrical and Electronics Engineering**

Sl. No.	Area of consultancy	Income generated
1	Photometric Testing	Rs. 3 lakhs/year

- **Instrumentation and Control Engineering (I and CE)**

Pressure gauges from Kasturba Medical College and Hospital and Navyuga Constructions, Udupi are being calibrated and certified in the laboratory regularly.

- **Printing and Media Engineering**

Areaof consultancy	Income Generated in INR		
	2012	2013	2014
Colour Science	4725	4020	2400
Quality Control	3465	2025	900
Total			17535 INR

- **Faculty of Architecture**

- Heritage Conservation Project of Sannati, Dharwad District, Karnataka Rs. 71 lakhs from Archaeological Society of India. (2011-13)
- Gersoppa Temple Chaturmukha Basadi, Karnataka Rs. 1 lakh from Archaeological Society of India. (2011-12)

9. School of Communication, Manipal

- 1) Film Making
- 2) Advertising

Total income generated:	2012	:	Rs. 54,656.00
	2013	:	Rs. 1, 29,700.00
	2014	:	Rs. 12,000.00

School of Information Science, Manipal

- Softjin has offered a research project to study certain aspects of VLSI Design for the benefits of both Softjin and SOIS. The amount is for Rs. 60,000/-.

Medical

Mangalore campus:

Lab investigations:

Particular	2012-13	2013-14	2014-15
Revenue from Testing Samples from various associated labs/hospitals	43,61,209	56,25,797	74,22,241

Other than the above, some of our consultants have served as consultants to various governmental and non-governmental organizations for effective implementation of various healthcare policies and national health programmes.

Our faculty members are:

1. Technical Consultant for Karnataka State Health System Resource Centre and ICRA for Evaluation of Skilled Birth Attendant Training in 30 districts of Karnataka state.
2. Technical Consultant for Karnataka Health Promotion Trust and St John's National Academy of Health Sciences, Bangalore. Also, for Samastha Team Training in the Comprehensive care of PLHIV for doctors, nurses and counselors of Community Care Centers and integrated positive prevention clinics.
3. National Consultant on India adaptation of training package on WHO Child Growth Standard (Integrating Mother and Child Protection Card)
4. State Medico-legal Consultant

5. Consultants for NACO
6. Consultant for National Institute of Public Participation for Child Development
7. Ministry of Women and Child Welfare

Manipal Campus

Lab investigations:

Particular	2011-12(April 1 st to March 31 st)	2012-13(April 1 st to March 31 st)	2013-14(April 1 st to July 31 st)
Revenue from Testing Samples from various associated labs/hospitals	Rs 14,14,110	Rs 21,34,550	Rs 7,41,315

A good network has been developed between Kasturba Hospital, Manipal and local healthcare agencies like PHCs, district hospital, private practitioners and nursing homes. Professional interactions and extension of consultancy services are provided. Several interactive sessions between consultants and other professionals are arranged through regular CMEs, workshops, conferences of local chapters of various professional associations. Indian Medical Association (Udupi and Manipal chapter) also conduct regular professional meetings

Clinical Trials – Manipal Campus

KASTURBA MEDICAL COLLEGE, MANIPAL					
Clinical trials detail for the period January 1, 2012 to December 31, 2012					
#	Trial/Project name	Principle Investigator	Funding Agencies	Grant received on (Month and year)	Total Grants received (INR)
1	13 Global Research 1218.52	Dr Sudha Vidyasagar	Siro Clinpharm Pvt Ltd	2/23/2012	288,701.00
2	An Invitro Study of Pseudomonas Aeruginos	Dr Shashidhar V	Apex Laboratories Private Ltd.	3/31/2012	90,000.00
3	Clinical Training on Ultra Sound	Dr V R K Rao	Philips Electronics India Ltd	2/29/2012	148,905.00

4	Contrast enhanced ultrasonography in evaluation of focal liver masses	Dr Gouri Kaur	Philips Electronics India Ltd	7/25/2012	75,507.00
5	Evaluation of preservatives efficacy test of pharmaceutical products	Dr K L Bairy	Apex Laboratories Pvt Ltd	5/9/2012	242,000.00
6	Ipca/HQMT/PIII-10 study	Dr Nalini Bhaskaranand	Ipca Laboratories Ltd	9/13/2012	73,000.00
7	MBI02-073	Dr Sudha Vidyasagar	Icon Clinical Research India Pvt Ltd	1/24/2012	122,608.00
				1/24/2012	103,230.00
8	Medical Device Project-Intel	Dr Raviraj Acharya	Intel Technology India Ltd	3/21/2012	360,000.00
				8/28/2012	123,596.00
9	Microbial limit test of pharmaceutical products	Dr K L Bairy	Apex Laboratories Pvt Ltd	5/9/2012	330,000.00
10	Microbial Sensitivity Studies of Sofinox RD	Dr Shashidhar	Apex Laboratories Pvt Ltd	4/30/2012	116,000.00
				5/9/2012	116,000.00
11	MK0524-A108-00	Dr Sudha Vidyasagar	Covance India Pharmaceutical Services India Pvt. Ltd	12/26/2012	56,014.00
				12/31/2012	126,640.00
12	Novartis CSPP100F2301	Dr Padma Kumar	Manipal Acunova Ltd	3/15/2012	226,800.00
				4/17/2012	81,000.00
				5/31/2012	27,000.00
				8/9/2012	27,000.00
13	OSKIRA-1-D4300C00001 and 5	Dr Janardhana Aithala	Quintiles Research (India)	11/13/2012	47,677.00

	Study		Pvt Ltd	4/27/2012	32,589.00
				6/16/2012	40,808.00
				9/13/2012	88,016.00
				2/23/2012	153,265.00
14	Pfizer A0081096	Dr S N Rao	Manipal Acunova Ltd	8/9/2012	92,290.00
15	PPD CV-185056	Dr Ganesh Kamath	PPD Pharmaceutical Development India Pvt Ltd	2/23/2012	136,824.00
				5/29/2012	340,757.00
16	PPD012	Dr Sudha Vidyasagar	PPD Pharmaceutical Development India Pvt Ltd	1/31/2012	62,453.00
				4/27/2012	517,481.00
17	Protocol No: EX2211-3748	Dr Sudha Vidyasagar	Novo Nordisk India Pvt Ltd	12/7/2012	30,000.00
				3/22/2012	10,000.00
18	Protocol No: SYM 001-003 Study	Dr Mukhyaprana Prabhu	Asiatic Clinical Research Pvt Ltd	3/23/2012	1,717.00
19	Protocol Write up on Sofinox	Dr K L Bairy	Apex Laboratories Private Ltd.	3/31/2012	18,000.00
20	Protocol 01/In vitro study/Pharmacology /2012	Dr K L Bairy	Apex Laboratories Pvt Ltd	9/7/2012	214,200.00
21	Protocol 01/Skin Irritancy/2012	Dr K L Bairy	Apex Laboratories Pvt Ltd	9/27/2012	171,600.00
22	Protocol 02/12 Efficacy of Topical Antimicrobials, on MRSA	Dr K L Bairy	Apex Laboratories Private Ltd.	3/31/2012	146,520.00
23	Protocol 02/In vitro study/Pharmacology /2012	Dr K L Bairy	Apex Laboratories Pvt Ltd	9/7/2012	110,100.00

24	Protocol 03/12 Comparative Study of MRSA	Dr K L Bairy	Apex Laboratories Private Ltd.	3/31/2012	146,520.00
25	Protocol 04/2012 Medical Write	Dr K L Bairy	Apex Laboratories Private Ltd.	3/31/2012	108,000.00
26	Protocol 05/2012	Dr K L Bairy	Apex Laboratories Private Ltd.	3/31/2012	81,000.00
27	Protocol KMC/PHA/ZINCO VIT 005/2012	Dr K L Bairy	Apex Laboratories Pvt Ltd	8/22/2012	265,320.00
28	Protocol KMC/PHA/ZINCO VIT 006/2012	Dr K L Bairy	Apex Laboratories Pvt Ltd	8/22/2012	234,524.00
29	Protocol KMC/PHA/ZINCO VIT 007/2012	Dr K L Bairy	Apex Laboratories Pvt Ltd	8/22/2012	222,912.00
30	Protocol NIS-CAP- XXX- 2011/1:EPICOR ASIA Study	Dr Tom Devasia	Max Neeman Medical International Ltd	8/10/2012	21,000.00
31	Protocol No: P08388	Dr Pratap Kumar	G V K Biosciences Pvt Ltd	9/7/2012	10,000.00
				12/29/2012	75,500.00
32	Protocol No: ACES 256 Study	Dr P S V N Sharma	Covance India Pharmaceutical Services Pvt Ltd	2/27/2012	145,246.50
33	Protocol No: SYR- 322_302 Study	Dr Padma Kumar	Siro Clinpharm Pvt Ltd	8/6/2012	20,624.00
34	Protocol No: ABB- 09-001	Dr Dinesh Nayak	Max Neeman Medical International Ltd	5/29/2012	69,488.00
				7/31/2012	231,118.00
35	Protocol No: CACZ885M2301 study	Dr Tom Devasia	Novartis Healthcare Ltd	11/6/2012	20,366.11
				11/6/2012	4,500.00

				11/6/2012	66,960.00
				11/6/2012	47,640.00
				7/27/2012	10,095.00
				7/31/2012	25,000.00
36	Protocol No: CT-P6/3.1study	DrDonald Fernandes	Parexel,Bangalore	6/30/2012	1,303,325.00
37	Protocol No: D4130C00004 Study	Dr P S V N Sharma	Quintiles Research (India) Pvt Ltd	1/31/2012	2,176.00
				2/23/2012	64,099.00
				5/29/2012	45,247.00
38	Protocol No: EX2211-3748	Dr Sudha Vidyasagar	Novo Nordisk Pvt Ltd	7/31/2012	297,933.00
39	Protocol No: GLP108486	Dr Kavitha Saravu	PPD Pharmaceutical Development India Pvt Ltd	4/25/2012	368,598.00
40	Protocol No: SPRL/OA/09-10/001 STUDY	Dr Vivek Pandey	Manipal Acunova Ltd	5/29/2012	239,264.00
				6/25/2012	123,760.00
				10/31/2012	209,950.00
				12/31/2012	103,155.00
41	Protocol/Micro/02/2012	Dr.Shashidhar	Apex Laboratories Pvt Ltd	9/7/2012	121,000.00
42	Protocol: MICRO/03/12 Study	Dr Shashidhar	Apex Laboratories Pvt Ltd	12/29/2012	151,000.00
43	Protocol- KMC/PHA/SUR/001/2012	Dr Rajagopal Shenoy	Apex Laboratories Pvt Ltd	7/11/2012	506,000.00

44	Protocol- PHA/DERMA/01/2 012	Dr Satish Pai	Apex Laboratories Pvt Ltd	7/11/2012	488,000.00
45	Research Collaboration	Dr Raviraj Acharya	Intel Technology India Pvt Ltd	11/10/2012	55,000.00
46	TUXEDO-India Study	Dr Ranjan Shetty	Escorts Heart Institute and Research Center Ltd	1/31/2012	90,000.00
				2/29/2012	27,000.00
				4/27/2012	90,000.00
				6/1/2012	90,000.00
				6/20/2012	30,000.00
				8/31/2012	90,000.00
				9/21/2012	57,870.00
47	Wound healing studies of Sofinox RD cream,Sofinox cream,Bactroban cream and Altrago cream	Dr K L Bairy	Apex Laboratories Pvt Ltd	5/9/2012	321,000.00
				6/18/2012	163,500.00
48	WSA-CS-004 study	Dr Dipak Ranjan Nayak	Quintiles Research (India) Pvt Ltd	8/10/2012	50,000.00
				9/21/2012	627,944.00
49	WSA-CS-008 study	Dr Sudha Vidyasagar	Quintiles Research (India) Pvt Ltd	9/29/2012	498,858.00
				10/31/2012	50,000.00
Total					13,018,790.61

Clinical trials detail for the period January 1, 2013 to December 31, 2013

#	Project Name	Principle Investigator	Funding Agencies	Grant received on(Month and year)	Total Grants Received (In Rs.)
1	OSKIRA 1-D4300C00001 and OSKIRA -X-D4300C00005	Dr. JanardhanaAithal a	Quintiles Research (India) Pvt. Ltd	22/01/2013	14,123.00
2	TUXEDO-India Study	Dr. RanjanShetty	Escorts Heart Institute and Research Center Ltd	22/01/2013	190,744.00
3	Protocol No. CACZ885M2301 Study	Dr. Tom Devasia	Novartis Healthcare Ltd	22/01/2013	15,380.00
4	Protocol NANO/INN/SUP/001	Dr.RanjanShetty	Innvolution Med System	22/01/2013	40,000.00
5	Novartis CSPP100F2301	Dr.Padma Kumar	Novartis Healthcare Pvt Ltd	22/01/2013	54,000.00
6	Siro 1218.17	Dr.SudhaVidyasagar	Manipal Acunova Ltd	06/02/2013	5,539.00
7	Quintiles DORIIN12002	Dr.SudhaVidyasagar	Manipal Acunova Ltd	06/02/2013	4,526.00
8	Novartis CSPP100A2340	Dr.Padma Kumar	Manipal Acunova Ltd	06/02/2013	18,344.00
9	NovartisCSPP100F2301	Dr.Padma Kumar	Manipal Acunova Ltd	06/02/2013	19,440.00
10	NovartisCSPP100F2301	Dr.Padma Kumar	Novartis Healthcare Pvt Ltd	21/02/2013	36,000.00
11	Apex Animal Study	Dr.K L Bairy	Manipal Acunova Ltd	06/02/2013	75,692.00
12	Apex Animal Study	Dr.K L Bairy	Manipal Acunova Ltd	19/02/2013	48,126.00
13	ICON CV 181038/ICON CS0011-A-U-302	Dr.SudhaVidyasagar	Manipal Acunova Ltd	06/02/2013	11,932.00

14	ICON CV 181038/ICON CS0011-A-U-302	Dr.SudhaVidyasa gar	Manipal Acunova Ltd	06/02/2013	90,316.00
15	Apex- Hypertriglyceridemi a	Dr.SudhaVidyasa gar	Manipal Acunova Ltd	06/02/2013	59,439.00
16	Quintiles Docetaxel / Quintiles 9238IL/0064	Dr.Joseph Thomas	Manipal Acunova Ltd	06/02/2013	12,104.00
17	Quintiles Docetaxel / Quintiles 9238IL/0064	Dr.Joseph Thomas	Manipal Acunova Ltd	06/02/2013	8,255.00
18	Bristol IM101-084	Dr.GaneshPai	Manipal Acunova Ltd	06/02/2013	1,335.00
19	SIRO BI.527.66	Dr.Padmaraj Hegde	Manipal Acunova Ltd	06/02/2013	13,968.00
20	Pfizer A0081096	Dr. S N Rao	Manipal Acunova Ltd	06/02/2013	76,674.00
21	Reliance GMX- GCSF-CT001 / Protocol No. Enoxa_c_01249 Study	Dr.SudhaVidyasa gar	Manipal Acunova Ltd	06/02/2013	125,087.00
22	XTL BO7-001	Dr.SudhaVidyasa gar	Manipal Acunova Ltd	06/02/2013	34,727.00
23	Siro 1218.46	Dr.SudhaVidyasa gar	Manipal Acunova Ltd	06/02/2013	37,356.00
24	Quintiles C0524T18	Dr.GaneshPai	Manipal Acunova Ltd	06/02/2013	30,846.00
25	Animal Study 01/09-10	Dr.Prakash P Y	Manipal Acunova Ltd	19/02/2013	61,988.00
26	Animal Study 02/09-10	Dr.shashidhar V	Manipal Acunova Ltd	19/02/2013	57,570.00
27	EX2211-3748	Dr. SudhaVidyasagar	Novo Nordisk India Pvt Ltd	21/02/2013	10,000.00
28	TUXEDO-India Study	Dr. RanjanShetty	Escorts Heart Institute and Research Center Ltd	27/02/2013	148,693.00

29	Protocol No. CACZ885M2301 Study	Dr. Tom Devasia	Novartis Healthcare Ltd	28/02/2013	8,440.00
30	Protocol NANO/INN/SUP/0 01	Dr.RanjanShetty	Innvolution Med System	28/02/2013	11,000.00
31	Protocol/Micro/02/ 2012	Dr.Shashidhar	Apex Laboratories Pvt Ltd	05/03/2013	121,000.00
32	Protocol No SBL/BRV-TV/004 v 1.0 Study	Dr.Ranjitha S Shetty	ShanthaBiotech nics Ltd	05/03/2013	40,000.00
33	Novartis CSPP100F2301	Dr.Padma Kumar	Novartis Healthcare Pvt Ltd	21/03/2013	9,000.00
34	OSKIRA 1- D4300C00001 and OSKIRA -X- D4300C00005	Dr. JanardhanaAithal a	Quintiles Research (India) Pvt. Ltd	28/03/2013	8,968.00
35	Protocol NIS-CAP- XXX- 2011/1:EPICOR ASIA Study	Dr.TomDevasia	Max Neeman Medical International Ltd	28/03/2013	15,500.00
36	MK0524-A108-00	Dr. SudhaVidyasagar	Covance India Pharmaceutical Services India Pvt. Ltd	28/03/2013	105,301.00
37	Protocol CL- 503012	Dr. SudhaVidyasagar	PPD Pharmaceuticals	30/03/2013	28,300.00
38	Research Collaboration	Dr.RavirajAchary a	Intel Technology India Pvt Ltd	30/03/2013	154,495.00
39	EX2211-3748	Dr. SudhaVidyasagar	Novo Nordisk India Pvt Ltd	12/04/2013	30,000.00
40	EX2211-3748	Dr. SudhaVidyasagar	Novo Nordisk India Pvt Ltd	26/04/2013	25,735.00
41	PPD CV-185056	Dr.GaneshKamat h	PPD Pharmaceutical Development India Pvt.Ltd	30/04/2013	61,562.00

42	Quintiles C0524T18	Dr.GaneshPai	Manipal Acunova Ltd	26/04/2013	78,844.00
43	Protocol 01/Skin Irritancy/2012	Dr.K L Bairy	Apex Laboratories Pvt Ltd	29/04/2013	171,600.00
44	Protocol 002/Burn Study/2012	Dr.K L Bairy	Apex Laboratories Pvt Ltd	29/04/2013	163,500.00
45	Research Collaboration	Dr.RavirajAcharya	Intel Technology India Pvt Ltd	30/04/2013	61,798.00
46	Research Collaboration	Dr.RavirajAcharya	Intel Technology India Pvt Ltd	31/05/2013	30,899.00
47	Protocol KMC/PHA/ZINCO VIT 007/2012	Dr.K L Bairy	Apex Laboratories Pvt Ltd	17/05/2013	148,608.00
48	Protocol ID:KMC/PHA/Zinc ovit drops 005/2013	Dr.K L Bairy	Apex Laboratories Pvt Ltd	21/05/2013	326,520.00
49	Protocol ID:KMC/PHA/Zinc ovit drops 006/2013	Dr.K L Bairy	Apex Laboratories Pvt Ltd	21/05/2013	289,440.00
50	Protocol ID:KMC/PHA/Zinc ovit drops 007/2013	Dr.K L Bairy	Apex Laboratories Pvt Ltd	21/05/2013	259,920.00
51	Protocol ID:KMC/PHA/Zinc ovit drops 008/2013	Dr.K L Bairy	Apex Laboratories Pvt Ltd	21/05/2013	372,240.00
52	Protocol ID:KMC/PHA/Zinc ovit syrup 001/2013	Dr.K L Bairy	Apex Laboratories Pvt Ltd	21/05/2013	326,520.00
53	Protocol ID:KMC/PHA/Zinc ovit syrups 002/2013	Dr.K L Bairy	Apex Laboratories Pvt Ltd	21/05/2013	289,440.00

54	Protocol ID:KMC/PHA/Zincovit syrups 003/2013	Dr.K L Bairy	Apex Laboratories Pvt Ltd	21/05/2013	259,920.00
55	Protocol ID:KMC/PHA/Zincovit syrups 004/2013	Dr.K L Bairy	Apex Laboratories Pvt Ltd	21/05/2013	372,240.00
56	Protocol No P08388	Dr.Pratap Kumar	G V K Biosciences Pvt Ltd	27/05/2013	135,000.00
57	MK0524-A108-00	Dr. SudhaVidyasagar	Covance India Pharmaceutical Services India Pvt. Ltd	31/05/2013	25,704.63
58	TUXEDO-India Study	Dr. RanjanShetty	Escorts Heart Institute and Research Center Ltd	31/05/2013	88,928.00
59	WSA-CS-004 study	Dr.DipakRanjan Nayak	Quintiles Research (India) Pvt.Ltd.	17/06/2013	352,296.00
60	Protocol No. CACZ885M2301 Study	Dr. Tom Devasia	Novartis Healthcare Ltd	25/06/2013	31,760.00
61	Protocol KMC/PHA/ZINCO VIT 005/2012	Dr.K L Bairy	Apex Laboratories Pvt Ltd	28/06/2013	176,880.00
62	Protocol KMC/PHA/ZINCO VIT 006/2012	Dr.K L Bairy	Apex Laboratories Pvt Ltd	28/06/2013	156,349.00
63	Protocol 3Nethra Royal Clinical Trial Study	Dr.Lavanya G Rao	Forus Health Pvt Ltd	29/06/2013	250,000.00
64	Novartis CSPP100F2301	Dr.Padma Kumar	Novartis Healthcare Pvt Ltd	24/07/2013	27,000.00
65	Protocol NANO/INN/SUP/001	Dr.Ranjan Shetty	Innvolution Med System	24/07/2013	12,000.00

66	OSKIRA 1- D4300C00001 and OSKIRA -X- D4300C00005	Dr. Janardhana Aithala	Quintiles Research (India) Pvt. Ltd	24/07/2013	26,471.00
67	Research Collaboration	Dr.Raviraj Acharya	Intel Technology India Pvt Ltd	25/07/2013	59,605.00
68	Research Collaboration	Dr.Raviraj Acharya	Intel Technology India Pvt Ltd	31/07/2013	35,534.00
69	Protocol ID:KMC/MED/001 /2013	Dr.K L Bairy	Apex Laboratories Pvt Ltd	29/07/2013	608,000.00
70	Protocol ID:KMC/MED/002 /2013	Dr.K L Bairy	Apex Laboratories Pvt Ltd	29/07/2013	608,000.00
71	Protocol ID:RGH- MD-06 Study	Dr.P.S.V.N.Shar ma	Quintiles Research (India) Pvt.Ltd.	31/07/2013	216,650.70
72	Protocol No:SPRL/OA/09- 10/001 STUDY	DR.Vivek Pandey	Manipal Acunova Ltd.	31/07/2013	177,515.00
73	SEM Central project	Dr.Raviraj Acharya	Philips Electronics India Ltd	31/07/2013	100,000.00
74	OSKIRA 1- D4300C00001 and OSKIRA -X- D4300C00005	Dr. Janardhana Aithala	Quintiles Research (India) Pvt. Ltd	31/08/2013	47,517.00
75	EX2211-3748	Dr. Sudha Vidyasagar	Novo Nordisk India Pvt Ltd	31/08/2013	30,000.00
76	EX2211-3748	Dr. Sudha Vidyasagar	Novo Nordisk India Pvt Ltd	31/08/2013	255,482.00
77	WSA-CS-004 study	Dr.Dipak Ranjan Nayak	Quintiles Research (India) Pvt.Ltd.	31/08/2013	153,980.00
78	Protocol 001/Burn study/2013	Dr.K L Bairy	Apex Laboratories Pvt Ltd	21/09/2013	147,170.00
79	Research Collaboration	Dr.Raviraj Acharya	Intel Technology	24/09/2013	35,534.00

			India Pvt Ltd		
80	Research Collaboration	Dr.Raviraj Acharya	Intel Technology India Pvt Ltd	30/09/2013	71,068.00
81	Protocol ID:RGH-MD-06 Study	Dr.P.S.V.N.Sharma	Quintiles Research (India) Pvt.Ltd.	30/09/2013	22,146.00
82	Protocol No EFC11319 Study	Dr.Mukhyaprana Prabhu	Sanofi-Synthelabo(India) Ltd	28/09/2013	50,000.00
83	Protocol No:SPRL/OA/09-10/001 STUDY	DR.Vivek Pandey	Manipal Acunova Ltd.	16/10/2013	2,961.00
84	Protocol NIS-CAP-XXX-2011/1:EPICOR ASIA Study	Dr.Tom Devasia	Max Neeman Medical International Ltd	24/10/2013	11,000.00
85	Research Collaboration (Amendment on 9th July, 2013)	Dr.Raviraj Acharya	Intel Technology India Pvt Ltd	31/10/2013	73,034.00
86	Research Collaboration (Amendment on 9th July, 2013)	Dr.Raviraj Acharya	Intel Technology India Pvt Ltd	13/11/2013	73,034.00
87	Automated ECG Reporting project	Dr.Raviraj Acharya	Intel Technology India Pvt Ltd	31/10/2013	707,868.00
88	Protocol No P08388	Dr.Pratap Kumar	G V K Biosciences Pvt Ltd	23/11/2013	13,500.00
89	Novartis CSPP100F2301	Dr.Padma Kumar	Novartis Healthcare Pvt Ltd	26/11/2013	27,000.00
90	Protocol No:ABB-09-001	DR.Dinesh Nayak	Max Neeman Medical International Ltd	26/11/2013	168,741.00
91	EX2211-3748	Dr. Sudha Vidyasagar	Novo Nordisk India Pvt Ltd	26/11/2013	30,000.00
92	Protocol No.	Dr. Tom Devasia	Novartis	26/11/2013	

	CACZ885M2301 Study		Healthcare Ltd		55,580.00
93	Protocol No:KMC/Zincoder m G/01/2013	Dr.K L Bairy	Apex Laboratories Pvt Ltd	30/11/2013	312,840.00
94	Protocol No:KMC/Zincoder m G/01/2013	Dr.K L Bairy	Apex Laboratories Pvt Ltd	30/11/2013	266,904.00
95	RGH-MD-06	Dr P S V N Sharma	Quintiles India Pvt Ltd	14/12/2013	67,446.00
96	WSA-CS-008	Dr Sudha Vidyasagar	Quintiles Reseach (India) Pvt Ltd	19/12/2013	157,359.00
97	Research Collaboration	Dr Raviraj Acharya	Intel Technology India Pvt Ltd	19/12/2013	73,034.00
98	Protocol NANO/INN/SUP/0 01	Dr Ranjan Shetty	Innvolution Med System, New Delhi	28/12/2013	12,000.00
99	KMC/Nasal/02/201 3	Dr K L Bairy	Apex Laboratory Private Limited	28/12/2013	165,000.00

Clinical trials detail for the period January 1, 2014 to December 31, 2014

#	Project Name	Principal Investigator	Funding Agencies	Total Grants Received
1.	CACZ885M2301	Dr. Tom Devasia	Novartis Healthcare Ltd	3,42,198.00
2.	BRV07	Dr.Avinash Shetty	Shantha Biotechnics Limited	2,57,310.00
3.	CLR-10-33	Dr. Sudha Vidyasagar	Sun Pharmaceutical Industries Ltd. Mumbai	8,000.00
4.	3 Nethra Royal Clinical Trial	Dr. Lavanya .G. Rao	Forus Health Pvt. Ltd	2,25,000.00
5.	CSPP100F2301	Dr.Padma Kumar	Novartis Healthcare Pvt Ltd	91,100.00
6.	CT-P6/3.1	Dr. Donald Fernandes	Parexel Bangalore	3,84,373.80
7.	EFC11319	Dr. Mukhyprana Prabhu	Sanofi-Synthelab India Ltd	7,04,430.00

8.	EX2211-3748	Dr. Sudha Vidyasagar	Novo Nordisk India Pvt Ltd	1,71,697.00
9.	ILO522D2301	Dr. P.S. V.N. Sharma	Quintiles Research (India) Pvt. Ltd	5,50,777.50
10.	NC25608	Dr. Sudha Vidyasagar	Quintiles Research (India) Pvt. Ltd	23,000.40
11.	NIS-CAP-XXX-2011/1: EPICOR ASIA	Dr. Tom Devasia	Max Newman Ltd	30,150.00
12.	Registry Study	Dr. Sudha Vidyasagar	St. John National Academy of Health Science , Bangalore	1,35,000.00
13.	SPRL/OA/09-10/001	Dr. Vivek Pandey	Manipal AcuNova ,Ltd, Bangalore	1,39,698.00
14.	WSA-CS-004 ,WSA-CS-003	Dr. Dipak Ranjan Nayak	Quintiles Research (India) Pvt. Ltd	3,08,977.20
15.	WSA-CS-008	Dr. Sudha Vidyasagar	Quintiles Research (India) Pvt. Ltd	88,074.00

Clinical Trials – Mangalore Campus

Ongoing trials:

Sl.No.	Name of the Protocol	Sponsor	Principal Investigator	Amount Received
1.	Protocol 28431754DIA3008: A Randomized, Double-Blind, Parallel, Placebo-controlled, Multicenter Study of the Effects of JNJ-28431754 on Cardiovascular Outcomes in Adult Subjects with Type 2 Diabetes Mellitus. The CANVAS Trial (CA Nagliflozin Cardio Vascular Assessment Study)	Jansen Research and Development LLC, USA	Dr. Prabha Adhikari	2011 – Rs. 6,63,095 2012 – Rs. 3,67,200 2013: Rs. 4,01,065 2014 : Rs. 4,62,401
2.	Protocol RLS/TP/2010-07: Prospective. Multicentric, open label, two	Relince Life Science, Navi	Dr. Krishnaprasad	2012: Rs. 77426

	arm,parallel group, active control,randomized, comparative clinical study to evaluate safety of R-TPR-017/MabThera® (Ristova®) in patientswith Non- Hodgkin's Lymphoma.	Mumbai		2013: Rs. 16,47,905 2014: Rs. 14,03,730
3.	Protocol SRPL 109 -10-001: A parallel group randomized open blinded end pointevaluation, multicentric, dose escalation, phase-IIstudy assessing the safety and efficacy of intra-arterial (hepatic) ex-vivo cultured adult allogenicmesenchymal stem cells in patients with alcoholic liver cirrhosis.	Semler Research Centre, Pvt. Ltd, Bangalore	Dr. B.V Tantry	2012: Rs. 1,21,665 2013: Rs.5,83,015 2014: Rs. 5,77,689
4.	Protocol I4V-MC-JADY(c) - A Phase 3, Multicenter Study to Evaluate the Long-Term Safety and Efficacy of Baricitinib in Patients with Rheumatoid Arthritis.	Eli Lilly and Company, Haryana	Dr. Surendra Kamath	2014: Rs. 36,000 2015: Rs. 62,586
5.	Protocol I4V-MC-JADX: A Randomized, Double-Blind, Placebo-Controlled, Phase 3 Study to Evaluate the Efficacy and Safety of Baricitinib (LY3009104) in Patients with Inadequate Response to Conventional Disease-Modifying Antirheumatic Drugs with Moderately to Severely Active Rheumatoid Arthritis	Eli Lilly and Company, Haryana	Dr. Surendra Kamath	2014: Rs. 2,29,482 2015: Rs. 37,314
6.	Protocol I4V-MC-JADZ- A Randomized, Double-Blind, Active-Controlled, Phase 3 Study to Evaluate the Efficacy and Safety of Baricitinib (LY3009104) in Patients with Moderately to Severely Active Rheumatoid Arthritis Who Have had Limited or No Treatment with Disease-Modifying Antirheumatic Drugs.	Eli Lilly and Company, Haryana	Dr. Surendra Kamath	2014: Rs. 96,507 2015: Rs. 36,243

7.	Protocol No: CRL101425: A Open-Label, Randomized, Two Period, Two-Treatment, Two Sequence, Steady-State, Crossover, Multicentre, Multiple Dose, Bioequivalence study of Nevirapine Prolonged Release 400 mg tablets of Mylan Laboratories Limited, India and 'VIRAMUNE' (Nevirapine) Prolonged Release Tablets 400 mg of Boehringer Ingelheim International GmbH in HIV-1 Infected Patients Under Fasting Conditions.	Mylan Laboratories Limited, India	Dr. John T Ramapuram	2015: Rs. 30,000 2015: Rs.7,19,104
8.	Protocol AP311736: Adjuvant Axitinib Treatment of Renal Cancer: A Randomized Double-blind Phase 3 Study of Adjuvant Axitinib vs. Placebo in Subjects At High Risk Of Recurrent RCC.	SFJ Pharma, USA	Dr. Krishnaprasad	2012: Rs 1,65,288 2013: Rs. 1200 2014: Rs 1,07,553
9.	Protocol SB3-G31-BC: A Phase III Randomised, Double-Blind, Parallel Group, Multicentre Study to Compare the Efficacy, Safety, Pharmacokinetics and Immunogenicity between SB3 (proposed trastuzumab biosimilar) and Herceptin® in Women with Newly Diagnosed HER2 Positive Early or Locally Advanced Breast Cancer in Neoadjuvant Setting.	Samsung Bioepis, Korea	Dr. Krishnaprasad	2014: Rs. 50,000 2015 Rs 4,80,070
10.	Protocol 153-12: A Randomized, Double-Blind, Placebo-controlled, Two-arm, Parallel Assignment, Multi-centered, Prospective Study to compare the effect of the drug teriparatide as an adjunct to the standard of care in fracture healing.	Intas Pharmaceuticals Ltd, Ahmedabad	Dr. Surendra Kamath	2015: Rs 1,20,000
11.	Protocol RLS-1113-052 : A randomized, multicentric, open-label, single-dose,	Reliance Life Science, Navi	Dr. Pramod Kumar	2015: Rs. 82,810

	two-treatment, two-sequence, two period, crossover, bioequivalence study of test methotrexate tablets USP 15 mg (from Zhejiang Hisun Pharma Co. Ltd., China) with reference Trexall® (Methotrexate tablets USP) 15 mg of Barr Pharmaceuticals, USA in 46 adult patients suffering from psoriasis under fasting condition”	Mumbai		
12.	Protocol No. TRET-CLIN/DRL/2013: A Phase III, multicentre, three arm, randomized, double blind, active controlled, parallel study to evaluate the efficacy and safety of tretinoin(microsphere) 0.04% and clindamycin 1% combination gel in comparison to tretinoin 0.025% gel and clindamycin 1% gel in the treatment of acne vulgaris.	Dr. Reddy’s Laboratories, Hyderabad	Dr. Maria Kuruvilla	2015: Rs 62,532

Completed in 2012:

Sl.No.	Name of the Protocol	Sponsor/CRO	Principal Investigator	Amount Received
1.	Protocol No: TMC278-TiDP38-C213: “ A Phase II, open label, single arm trial to evaluate the pharmacokinetics, safety, tolerability, and antiviral activity of TMC278 in antiretroviral – naive HIV 1 infected adolescents aged 12 to < 18 years”.	Quintiles Research India Ltd., Mumbai	Dr. John T Ramapuram	2011 – Rs 3,20,262
2.	Protocol No.: ACHN-490-002 A double-blind, randomized, comparator-controlled study to assess the safety, efficacy, and pharmacokinetics of ACHN-490 Injection administered intravenously (IV) in patients with complicated urinary tract infections (cUTI) or acute pyelonephritis (AP).	INC Research, Mumbai	Dr. John T Ramapuram	2011 – Rs.3,27,793

3.	Protocol P-II/WCK 2349/ Gm+ve cSSTIs/09:- A Phase II Open Label, multicenter clinical trial to evaluate the safety and efficacy of oral WCK 2349 (1000 mg BID and 1200 mg BID) in the treatment of complicated Skin and Soft Tissue Infections caused by Gram Positive Bacteria, including Methicillin Resistant Staphylococcus Aureus (MRSA)	Wockhardt, Mumbai	Dr. Maria Kuruvilla	2011 – Rs.10000
4.	Protocol MB102077 – “ A Multicenter, Randomized, Double-Blind, Placebo Controlled, Parallel Group, Phase 3 Trial to Evaluate the Safety and Efficacy of Dapagliflozin in Subjects with Type 2 Diabetes with Inadequately Controlled Hypertension treated with an Angiotensin-Converting Enzyme Inhibitor(ACEI) or Angoitensin Receptor Blocker (ARB) and an Additional Antihypertensive Medication”	Icon Clinical Research Pvt. Ltd.	Dr. satish Rao	2012 – Rs. 54000
5.	Protocol B3D-MC-GHDQ :Effect Of Teriparatide on Femoral Neck Fracture Healing	Quintiles Research India Ltd., Mumbai	Dr. Surendra Kamath	2012 – Rs. 40,000
6.	Protocol B3D-MC-GHDN(a) :Effect Of Teriparatide on Femoral Neck Fracture Healing.	Quintiles Research India Ltd., Mumbai	Dr. K. Ramachandra Kamath	2012 – Rs. 40,000
7.	Protocol: OSKIRA 2: A Phase III, Multi-centre, Randomised, Double-Blind, Placebo-Controlled, Parallel Group Study of Two Dosing Regimens of Fostamatinib Disodium in Rheumatoid Arthritis Patients with an Inadequate Response to DMARDs	Quintiles Research India Ltd., Mumbai	Dr. Surendra Kamath	2011 – Rs. 6,50429 2012 – Rs.2,60,063
8.	Protocol Number: CL3-16257-068, Evaluation of the anti-anginal efficacy and safety of oral administration of ivabradine compared to placebo on top of a background therapy with a calcium antagonist (Amlodipine or nifedipine) in	Clininvent Research Private Limited, Mumbai	Dr. Prabha Adhikari	2010 – Rs. 47,600

	patients with stable angina pectoris. A 6 –week randomized double blind parallel group international multicentric study			
9.	Protocol NO: D4130C00004: A multicenter, Randomized, Double-Blind, Parallel Group, Placebo-Controlled, Phase III, Efficacy and Safety Study of 3 Fixed Dose Groups of TC-5214 (S-mecamylamine) as an Adjunct to an Antidepressant in Patients with Major Depressive Disorder Who Exhibit an Inadequate Response to Antidepressant Therapy .	Quintiles Research India Ltd., Mumbai	Dr. Keshav Pai	2011 – Rs. 79,975
10.	Protocol No: D4130C00002 (Flex): A Multicenter, Randomized, Double-Blind, Parallel Group, Placebo-Controlled, Phase III Efficacy and Safety Study of TC-5214 (S-mecamylamine) in Flexible Doses as an Adjunct to an Antidepressant in Patients with Major Depressive Disorder Who Exhibit an Inadequate Response to Antidepressant Therapy	Quintiles Research India Ltd., Mumbai	Dr. Keshava Pai	2011 – Rs.2,50,227
11.	Protocol NO: SPD476-409: A Phase 3b/4, Open label, Multicenter, Prospective Study to Evaluate Effect of Remission Status on the Ability to Maintain or Achieve Clinical and Endoscopic Remission During a 12-Month, Long-term Maintenance Phase With 2.4g/day MMX® Mesalamine/mesalazine Once Daily in Adult Subjects With Ulcerative Colitis.	Icon Clinical Research Pvt. Ltd.	Dr. B.V Tantry	2010 – Rs.5,17,790 2011 – Rs.2,16,150
12.	Protocol C13006: A Phase 3, Randomized, Placebo-controlled, Blinded, Multicenter study to determine the efficacy and safety of Vedolizumab (MLN002) for the induction & Maintenance of clinical response and remission in patients with moderate to severe ulcerative colitis.	Quintiles Research India Ltd., Mumbai	Dr. B.V Tantry	2010 – Rs. 40,495 2011 – Rs. 38,172

Completed in 2013:

Sl.No.	Name of the Protocol	Sponsor	Principal Investigator	Amount Received
1.	Protocol CSPP100E2337: A randomized, double-blind, placebo-controlled, parallel group study to determine whether, in patients with type 2 diabetes at high risk for cardiovascular and renal events, Aliskiren, on top of conventional treatment, reduces cardiovascular and renal morbidity and mortality.	Novartis Clinical Development and medical affairs, USA	Dr. Prabha Adhikari	2010 – Rs.1,035,787 2011 – Rs. 9,37,164 2012 – Rs. 9,49,442 2013 – Rs. 1,40,000
2.	Protocol ID:Ipca/LMT/PIII-08: Comparative Evaluation of Efficacy and Safety of Losartan- Metoprolol XL Combination vs.Losartan – Ramipril Combination in Patients with Essential Hypertension Along with Type II Diabetes.	IPCA Laboratories, Mumbai	Dr.Prabha Adhikari	2012 – Rs. 59,800
3.	Protocol MK-0524A-PN108: A 16-Week, Randomized, Placebo-Controlled Study to Evaluate the Efficacy and Safety of Extended Release Niacin/Laropiprant in South and Southeast Asians not on a Lipid Modulating Agent, With Decreased High-Density Lipoprotein Cholesterol and Low-Density Lipoprotein Cholesterol at or Below NCEP ATP III Goal	Merck and Co.,Inc. USA	Dr. Prabha Adhikari	2012 – Rs. 80,000
4.	Protocol WSA-CS-004: A Phase III, Double Blind, Randomized Study to Evaluate Safety and Efficacy of BAL8557 Versus Voriconazole for Primary Treatment of Invasive Fungal Disease Caused by Aspergillus Species or Other Filamentous Fungi	Astellas Pharma, Europe BV	Dr. John T Ramapuram	2012 – Rs. 1,32,111
5.	Protocol: OSKIRA 5: D4300C00005: A Long-term Extension Study to Assess the Safety	AstraZeneca, UK	Dr. Surendra Kamath	2012- Rs. 1,13,070 2013 –

	and Efficacy of Fostamatinib Disodium (FosD) in the Treatment of Rheumatoid Arthritis			Rs. 1,50,000
6.	Protocol ID IPCA/HQMT/PIII-10 Efficacy and safety of Hydroxychloroquine and Methotrexate Combination in treatment of Juvenile Rheumatoid Arthritis: A double blind Randomized comparison with Methotrexate alone	IPCA Laboratories, Mumai	Dr. Nutan Kamath	2012 – Rs. 12,600 2013 – Rs. 26,000

Completed in 2014:

Sl. No.	Name of the Protocol	Sponsor	Principal Investigator	Amount Received
1.	Protocol LAEP-06-302: Pivotal study in breast cancer patients investigating efficacy and safety of LA-EP2006 and Neulasta®	Sandoz Biopharmaceuticals, USA	Dr. Krishnaprasad	2013: Rs.4,01,065 2014 : Rs.4,62,401
2.	UNITE: A randomized, controlled trial to assess the impact of TAMA (Health IT System) on treatment effectiveness in HIV-1 infected subjects initiated on first-line antiretroviral therapy.	PharmaNet GmbH Obere Willsgasse 52, Switzerland.	Dr. John T Ramapuram	2013: Rs. 51,500 2014: Rs.4,82,621
3.	Protocol RLS-TP-2011-05: Prospective, multi-centre, randomized, open-label, two arm, parallel group, active-control, comparative clinical study to evaluate efficacy, safety and pharmacokinetics of R-TPR-016/ Herceptin®(Herclon™) when given intravenously in patients with Metastatic HER2-Overexpressing Breast Cancer”	Reliance Life Science, Navi Mumbai	Dr. Krishnaprasad	2013: Rs. 53,3357 2014: Rs.1,97,963

4.	Protocol RLS-TP-2012-010 : Prospective, multi-centre, randomized, open-label, two-arm, parallel group active control, comparative clinical study to evaluate pharmacokinetics, efficacy and safety of R-TPR-023/ Avastin™ when given intravenously in patients with Metastatic colorectal cancer.	Reliance Life Science, Navi Mumbai	Dr. Krishnaprasad	2013: Rs. 29,170
5.	Protocol F3Z-MC-B010 (b) : Prospective Observational Study, A Multinational Observational Study Assessing Insulin use: understanding the challenges associated with progression of therapy- The MOSAIC Type 2 Diabetes Study.	Eli Lilly and Company	Dr. Prabaha Adhikari	2012: Rs. 77436 2013: Rs. 1,43094 2014: Rs.1,07,018
6.	Protocol WSA-CS-008: A Phase III, Double-Blind, Randomized Study to Evaluate the Safety and Efficacy of BAL8557 Versus a Caspofungin Followed by Voriconazole Regimen in the Treatment of Candidemia and Other Invasive Candida Infections	Astellas Pharma, Europe BV	Dr. John T Ramapuram	2012 – Rs.1,66,362
7.	BC22140 ALEGLITAZAR (RO0728804ROW): “Cardiovascular outcomes study to evaluate the potential of aleglitazar to reduce cardiovascular risk in patients with a recent acute coronary syndrome (ACS) event and type 2 diabetes mellitus (T2D)”.	F Hoffmann Roche LA Ltd., Switzerland	Dr. Prabha Adhikari	2011 – Rs.2,17,331 2012 – Rs.5,72,356 2013 – Rs. 58,702 2014 – Rs.1,62,842
8.	Protocol No. NN25307: Phase III, multi-center, randomized, 12-week, double-blind, parallel-group, placebo-controlled study to evaluate the efficacy and safety of RO4917838 in patients with sub-optimally controlled symptoms of schizophrenia treated with	F Hoffmann Roche LA Ltd., Switzerland	Dr. Supriya Hegde	2012 – Rs.1,78,505 2013 – Rs. 1,58000 2014 – Rs. 54,000

	antipsychotics followed by a 40-week double-blind, parallel-group, placebo-controlled treatment period.			
9.	Protocol No.NN25310: This is a Phase III, multi-center, randomized, 24 week, double-blind, parallel-group, placebo-controlled study to evaluate efficacy and safety of RO4917838 in stable patients with persistent, predominant negative symptoms of schizophrenia treated with antipsychotics followed by a 28 week, double-blind treatment period.	F Hoffmann Roche LA Ltd., Switzerland	Dr. Supriya Hegde	2012 – Rs.4,79,489 2013- Rs.1,62,000 2014 – Rs. 35,000

ANNEXURE 8.6B**Book Bank Facility at MIT****Location:**

The Book Bank section is located in the basement of the library. Books are staked in the racks and accessibility is easy.

Types of Books in the Book Bank:

Book Bank has two types of Books facilities available to the students

1. College Book Bank - sponsored by MIT
2. SC / ST Book Bank – Sponsored by the Government. (As there are not many students are there at present belonging to this category, the sponsorship by the Government is not available now).

The Book Bank mainly consists the prescribed Text books on different subjects related to Science, Engineering and Technology.

Number of Books in stock

- Total collection of books in College Book Bank : 7790 books
- Total collection of books in SC / ST Book Bank: 1938 books

Rules:

Rules for lending Books from the Book Banks:

1. The book bank facility is available only for UG students.
2. Only one book will be issued to each student for one semester. SC /ST Students - 4 books.
3. The books should be returned within the prescribed period (one semester). Otherwise a fine of Re.1/- per day will be charged.
4. If anyone losses or defaces by writing or otherwise change any book, shall pay twice the latest cost of the book or replace the new book with the fine
5. Book Bank books may be issued any time during the semester. However, the students will be notified to apply for the books from the Book Bank during the beginning of the semester.

Beneficiaries:

In each semester an average of 1600 book bank books are issued.

ANNEXURE 8.7

Placement details for last 5 years

Engineering

Manipal Institute of Technology

Year	Number of students placed	Major companies
2010-11	1428	Tata motors, ONGC and all the previous and many new.: Total 73 companies
2011-12	1607	ABB, Accenture, ACG World, Anglo Eastern, Ashok Leyland, Atkins, Bharat Electronics, Blue Star, CDD India, Cisco, Century Link, Citrix R&D, Comviva, Cybage India, Cycloid, Cypress Semiconductors, Deloitte Consulting, Delta Printing Press, Ericsson (Global, R&D), Exeter India, Fidelity India, Futures First, GE (EEDP, Healthcare), GMR Energy, Grasim, HCL (Core, Infosystems, Tech), Hero Moto Corp, Hindustan Unilever, Hindustan Times, Honda 2 Wheelers, IBM, iGate Patni, Impetus, Indo-MIM, Ingersoll Rand, InMobi, JSW Steel, L&T (ECC, Engg), M&M, Maruti Suzuki, Microsoft (IDC, IT, SMSG), Mphasis, Moog India, MuSigma, Nomura, OMPL (ONGC-MRPL), Oracle, Philips Electronics, Photokina, Punj Lloyd, Reliance, Robert Bosch, Samsung (Electronics, Heavy Industries), Sankalp Semiconductors, SAP Labs, Schneider Electric, Societe Generale, Source Bits, ST Ericsson, Tata Consulting Engineers, Tata Motors, TCS (Tech, TRDC), Tata Technologies, Tesco, Titan Industries, Toshiba TESI, Total Environment, Unisys Global, Voltas, Wipro (Infra, Tech, VLSI), Zuari Management Services etc : Total 84 companies
2012-13	724	ABB, ACG World, AGE Graphics, Atria Convergence, AKS Software, Altair Engg, Anglo Eastern, Atkins, Beckman Coulter, CDD Society, Century Link, Cerner Healthcare, Cisco, Citrix R&D, Comviva, Cybage, Daimler, Deloitte Consulting, EMC Corp, Emirates Printing, Enfrien Technologies, Ericsson (Global, R&D), Exeter India, Flipkart, Freescale Semiconductors, Futures First, GE (Healthcare, Lighting), Goldman Sachs, Grasim, HCL (Aero, VLSI, Mech), Hero Motocorp, Hindustan Zinc, Honda 2 wheelers, Honeywell Tech, HP R&D, IBM (Tech), Infotech Enterprises, Ingersoll Rand, Inolyst Consulting, Intel, JSW Steel, Juniper Networks, Kallows Engg, KPIT Cummins,

		<p>L&T (ECC, IES), M&M, Malayala Manorama, Maruti Suzuki, Michelin, Microsoft (IT, IDC, SMSG), MuSigma, NISM, Nomura, Oracle, Philips (Electronics, Innovation), Piaggio, Polaris, Qualcomm, Reliance, Ricoh Innovations, S&P Capital, Saankhya Labs, Samsung (R&D, SEL, SISO), SAP Labs, Sapiient Nitro, Schneider Electric, Sesa Goa, Shobha Developers, Shubhashray, Societe Generale, Sonata Software, Subex Systems, Systems Control, Tata Elxsi, Tata Motors, TCS (Tech), Telcon, Teradata, Tesco, Toshiba TESI, Total Environment, Unisys Global, Vakil Mehta Seth, Vedanta Aluminum, VKS Infrastructure, Voltas MH, Wipro (Lighting, Tech), WorkZ etc : Total 90 companies</p>
2013-14	1015	<p>Aavishk Buildtech, ABB, ACG World, AIG Analytics, AKS Software, Alcatel Lucent, Altair Engg, Amazon, Anglo Eastern, Appy Monkey Software, BabaJob Services, BPL Medical, Century Link, Cerner Healthcare, CISCO (Engg, TAC, Services), Citrix R&D, Cruise Line, Cybage Software, Cyberoam Tech, Daimler, Deloitte Consulting, Dhaval Color Chem, EMC Corp, Emirates Printing, Expicient Software, Freescale Semiconductors, Futures First, GE Healthcare, Goldman Sachs, Grail Research, Headway Solar, Hero Moto Corp, Honda 2 Wheelers, HP (R&D, Tech), IBM (Tech), InMobi, India Reads, Indian Army, Infosys (Tech), Ingersoll Rand, Inolyst Consulting, Internshala, ITC Packaging, Ixiacom, JSW Steel, Juniper Networks, Lam Research, L&T (Building Automation, Construction, Tech Service), M&M, Mahindra Comviva, Maruti Suzuki, Michelin Tyres, Microsoft (IDC, IT, SMSG), MuSigma, Nucleus Software, Oracle (PGBU, RGPU, Systems), Philips (Electronics, Innovation), Pioneer Printing, Polaris FT, Printwell, Quest Global, Rare Mile Tech, Reliance, S&P Capital, Samsung (Bangalore, Noida), SAP (Global Delivery, Labs), Sapiient Nitro, Sara Sae, Schneider Electric, Shell India, Societe Generale, Sonata Software, ST Microelectronics, Success Factors, Supernova Engineers, Tata Hitachi, Tata Motors, TCS (EIS, ITIS, Tech), TESCO, Think & Learn, Unisys Global, UST Global (Tech), VmWare, Wipro (Tech), Wisecells, WorkZ, Yamaha R&D : Total 112 companies</p>

Management

School of Management

Year	Number of students placed	Major companies
2010-11	86	ACT TV, ITC, Northern Trust, Ranbaxy, Manipal Group, Ernst and Young
2011-12	37	Ernst and Young, ICICI Securities, MEMG, Nabler, ACT TV
2012-13	42	Alshirawi Dubai, delta printing press dubai, Goldman Sachs services Pvt. Ltd, vidal health, EMWare, mala healthcare, daikin airconditioning india pvt ltd, MDS, Northern Trust, Act TV, Ernest and Young,, Adsyndicate Services Pvt Ltd, ,MEMG, Manipal Hospitals, Manipal Press, Octavo Solutions, decathlon , narayani hrudalaya, ,indian infoline, Firstnaukri, coffee day groups (hotels and resorts department),PwC,Accenture, Kotak Securities Ltd., Glopore IMS,
2013-14	72	Alshirawi Group Dubai, ,Manipal Education & Manipal Global, Ample Technologies, Aryaka Networks, Café Coffee day, Clutch Group, Coreel Technologies, EduComp, First Naukri, Future group, Sterling Lab (Pharma), Hyperthink Technologies, Industry Arc, KPMG, Mahindra and Mahindra Finance, Manipal Digital System, MindTree, Mphasis, Mydeals, People Gamut, Robosoft Technologies, Seventh Sense Talent Solutions Pvt Ltd, Span infotech, Tricon Energy, Wellsfargo, Octova Solutions, Aricent, TCS, e & Y, American Express, MDS, Span info tech, Simply learn solutions.

Information Science

School of Information Sciences

Year	No. of students placed for Internship/Total No. of students	Major Companies
2010 - 11	210/283	Whizchip, Intel, VMWare, GE Healthcare, ST Microelectronics, LSI Technologies, Synopsys, KPIT Cummins, Poseidon Design Systems, Brisa Technologies, Honeywell, Nokia, ST Ericsson, Mindtree, NXP Semiconductors, Philips, Manipal Dot Net, Symphony Services, Cerner, i2i Telesolutions, Encore Technologies, Microchip, Applied Cognition Systems, Tech Mahindra, Tata Elxsi, ISRO

2011 - 12	248/300	Cerner, Philips, HANDSREL, VMWare, Whizchip, ST Microelectronics, Freescal Semiconductors, BCS Innovations, Intel, Continental Corporation, Brisa Technologies, Renesas Mobile, ST Ericsson, Xilinx, GE Healthcare, KPIT Cummins, Applied Cognition Systems, Microchip, Synopsys, Arasan Chip Design, Softjin, Honeywell, Infineon Technologies, DSP Group, Ingersoll Rand, Vayavya Labs, Manipal Dot Net
2012 - 13	245/291	ST Microelectronics, KPIT Cummins, Philips, Manipal Dot Net, Applied Cognition Systems, IXIA COM, Glopore IMS, Panacea Medical Systems, KLA Tencore, Intel, Whizchip, Synopsys, Freescal Semiconductors, Infineon Technologies, Microchip, LSI Technologies, Xilinx, Wipro, NXP Semiconductors, ST Ericsson, iGate, Siemens Technologies, NetApp, Tata Elxsi, Brisa Technologies, DSP Group, NDS, Robert Bosch, Continental Corporation, BCS Innovations, Azo Mobile Technologies, Saskaen
2013-14	176/183	AadiSemicon, Aceice, Applied Cognition Systems, Adrit Technosolutions, Amaron Power Systems, Aptean, Aryaka, Atlas, BARC, BEL, BlackBUck, Bosch, Brevera, Brisa, Broadcom, CDAC, CITL, Consilient Tech, CVC, EMC, Emulex, Ensilica, ERDE, EZZoft, GE, Genpact, Global Tech, Grid India, Honeywell, IBM, Immortal Engg, Infineon, Intel, iSoft, ISRO, K2Tech, Kamath Transformer, Lantiq, LSI, Matrix Publishing, MDN, Microchip, MIRS, Moxie, Native5, Nest, Neurosynaptic, NXP, Odigma, Opex Labs, Optimus Logic, Pace Wisdom, Pantach, PE Systems, Philips Innovation, Philips Lighting, Philips Research, BoP, PLX Tech, Pragati Automation, Reliable Technosystems, Ricoh, SAP, Siemens, Sloki Software, Smartplay, ST, Sysuniverse, Tat Autocomp, Technoelexis, Tenet, Three Media Tech, Tonse, Volmo, Whizchip, Wipro

Pharmaceutical Sciences

Manipal College of Pharmaceutical Sciences

Year	Number of students placed	Major Companies
2010-11	100%	AstraZeneca, Bangalore AstraZeneca, Bangalore
2011-12	100%	Baxter India Pvt. Ltd., New Delhi

2012 - 13	100%	Bharat Serum & Vaccine Pvt. Ltd., Mumbai
2013-14	100%	Cipla Ltd., Bangalore Dr Reddys, Hyderabad Eli Lilly, New Delhi Fox Insurance, Kolkata Indigene, Bangalore Jubilant Organosys, New Delhi Lupin Research Park, Pune Macleods Pharma, Mumbai MSD Pharma, New Delhi Nicholas Piramal, Mumbai Orchid Healthcare, Chennai Perrigo, New Delhi Ranbaxy Laboratories, New Delhi Sandoz Strides Arcolab, Bangalore Sun Pharma, Vadodara US Vitamins, Mumbai Zydus Cadila, Ahmadabad.
2014-15	Ongoing (91% placed till now)	Abbott, Advinus, Alembic, Bengal Chemical and Pharmaceuticals Limited, Biocon, Dr Reddy's, Eisai, Emcure, Global Data, GSK, Hospira, Himalaya, Intas, Johnson & Johnson, Kinapse, Lupin, Mylan, Nestle, Novo Nordisk, Pfizer, Quintile, Shodhaka, Sun Pharma

ANNEXURE 8.8

List of Top Alumni in various institutions of MAHE

I. Kasturba Medical College, Manipal

Name	Degree Obtained	Address	Country	Year of Passing	Occupation	Organization
Dr. Ramdas G. Pai	MD, FRCP(Edin), FACC	Director Heart Valve Program, Loma Linda University Medical Center, #4414,	USA	1979	Professor of Medicine, Director, Heart & Imaging Center	Loma Linda University Medical Center
Dr. K M Cherian	MBBS, MS, FRACS, DSc (Hon), DSc (HC)	R-30-C Ambattur Industrial, Estate Road, Mogappair, Chennai	India	1959	Chairman & CEO	International Centre for Cardio Thoracic & Vascular Diseases, (A Unit of Frontier Lifeline Pvt. Ltd. & Dr. K. M. Cherian Heart Foundation)
Dr. Sampath Shivangi	MBBS, MD	23, Moss Forest Circle, Jackson	USA	1962	Medical Practitioner and Philanthropist	American Association of Physicians of Indian Origin as Secretary, Vice President and founding President of AAPI Mississippi and as Advisor to the US Secretary of Health and Human Services, a

						White House appointment.
Dr. Umeshraya T Pai	MBBS, MD (Anesthesiology)	231 Albert Sabin Way, Cincinnati, OH	USA	1963	Anesthesiologist	University Hospital, OH
Dr. Bellur Prabhakar	B.Sc.(Biology), M.Sc., (Medical Microbiology), Ph.D (Viral Immunology)	835 S. Wolcott (M/C 790) Chicago, IL	USA	1970	Professor and Head	Department of Microbiology and Immunology, University of Illinois at Chicago
Dr. N P Shanker Narayan	M.B.B.S., DTM & H (Liverpool-UK)	Lotus Hospital Research and centre, Poondurai Main Road, Kollampalayam, Erode -	India	1973	Advanced WHO Fellowship in Immunology, Molecular Biology, Biotechnology and Vaccinology of infectious Diseases	WHO institute Laussane – Switzerland
Dr. Sheikh Muszaphar Shukor	Bachelor of Medicine & Surgery	Kuala Lumpur	Malaysia	1997	Medical Officer, Orthopedic Surgeon	A University Medical officer in Medicine at the Universiti Kebangsaan Malaysia
Dr. Jayaprakash K.	MD Forensic Medicine	#1002, Highgroove Apts., Bejai Church Road, Bejai, Mangalore	India	1994	Associate Dean and Prof.&HOD	A.J.Institute of Med. Sciences
Dr. Laxmi T Rao	MSc Medical Physiology	Associate Professor, Department of Neurophysiology, NIMHAN	India	1993	Associate Professor	NIMHANS, Bangalore

		S, Bangalore 560029				
Dr. Bamma Chalamalasetty	PG Diploma in Obstetrics & Gynaecology	41-12-3 Gundukotiah Street Krishnalanka, Vijayawada	India	1990	Asst. Professor, OBG	Oman Medical College, OMAN
Dr. Rahul Shetty	MCh Cardiothoracic Surgery	2 Toronto Street Suite 347, Toronto	Canada	2002	Cardiac Surgeon	University of Toronto
Dr. Shilaj Chakravorty	MD Pathology	38 South Road, 3rd floor, Santoshpur, Kolkata 700075	India	1990	Chief Pathologist	Westbank Hospital
Dr. Rohit Gupta	Bachelor of Medicine & Surgery	House Number-6, Sector-7A, Faridabad, Haryana India Pin 121006	India	1999	Consultant Anesthesia & ICU	M.A.M.C, New Delhi
Dr. Prabhakar	PG Diploma in Child Health	J. C General Hospital, Thirthahalli, Shimoga	India	2003	Consultant Child Care	Govt of Karnataka
Dr. Vijay Prakash	Bachelor of Medicine & Surgery	406, BEVERLY PARK, NEW HYDERABAD, Lucknow	India	1984	Consultant Child Specialist	TATA MOTORS, HUDCO, ITC(LTD)
Dr. Saji Varghese	MD General Medicine	Mangalam Hospitals Mangalam Plaza Baker Junction, Kottayam	India	1993	Director	Mangalam Group

Dr. Radhakanth Shenoy K	Bachelor of Medicine & Surgery	Department of Radiotherapy, Queen Elizabeth Hospital, Barbados, Bridge Town	Barbados	1983	Head, Radiotherapy	Queen Elizabeth Hospital, Barb
Dr. Ling He Mey	Bachelor of Medicine & Surgery	32, TAMAN SURIA 2 SITIAWAN 32000 PERAK MALAYSIA, Sitiawan Perak	Malaysia	1985	Health Officer	MIN. OF HEALTH, MALAYSIA
Dr. Anupam Sahu	Bachelor of Medicine & Surgery	Flat no - 2120, sector - d, Pocket - 2, vasant kunj, Jalandhar	India	1999	Medical Officer	indian army
Dr. Padmakumar C Menon	Bachelor of Medicine & Surgery	P.O.Box 2641, Fujairah, UAE	UAE	1978	Orthopaedic Consultant	Ministry of Health, UAE
Dr. Rahul Yadav	Bachelor of Medicine & Surgery	D-3, Nilamber Apartments, Rani Bagh, Sainik Vihar, Delhi	India	2003	Pediatrician	Delhi Government
Dr. Satyadev Nagari Nandieshwar	Bachelor of Medicine & Surgery	237 Stretton Avenue Coventry CV3 3HQ UK	UK	2000	Psychiatrist	NHS, UK
Dr. Raghothama Chaerkady	MSc Medical in Biochemistry	733 N Broadway Room 560 BRB Baltimore	USA	1991	Research Fellow	Johns Hopkins University

Dr. Oh Kim Soon	Bachelor of Medicine & Surgery	Island Hospital Spine Centre Island Hospital 308 Macalister Road 10450 Penang MALAYSIA	Malaysia	1990	Spine Surgeon	Island Hospital Spine Centre
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II. Kasturba Medical College, Mangalore

1. Dr. Ramdas M Pai, Chancellor, Manipal University
2. Dr. Raj Warriar, Haemato-oncologist New Orleans, Louisiana
3. Dr. Ramdas G pai, Consultant Cardiologist, Loma Linda University Medical Centre
4. Dr. Annapoorna Kini, Interventional Cardiologist, Mount Sinai Hospital, New York
5. Dr. Deviprasad Shetty, Chairman Narayana Hrudayalaya
6. Dr. K M Cherian, CEO Frontier Life Sciences
7. Dr. Sudarshan Ballal, Medical Director, MHEPL
8. Dr. Rajendra Kamath, Commandant of Medical Corps, Sultanate of Oman
9. Dr. Ramesh Pai, Dean AJ Institute Of Medical Sciences
10. Dr. Jaspal Singh Sahota, Dean Manipal Melaka Medical College, Melaka, Malaysia

III. Manipal College of Dental Sciences, Manipal

S.No	Name and details	Batch	Position
1	Dr. Muniratnam Naidu E.	MDS :1974	Former Vice chancellor, Meenakshi Ammal Deemed University, Maduravoyal, Chennai 602102.
2	Dr. Jacob T. Kaimenyi	MDS :1980	Deputy Vice Chancellor (Academic affairs) University of Nairobi, P.O. Box 555, 00515, Nairobi
3	Dr. Surendra Shetty V	BDS :1965 MDS :1972	Pro Vice Chancellor, Manipal University
4	Dr. S Ramanand Shetty	MDS :1982	Vice Chancellor, Nitte University, Mangalore
5	Dr. Nirmala N Rao	BDS :1972	Dean, Manipal College of Dental Sciences, Manipal

6	Dr. Sripathi Rao B.H	BDS :1972 MDS :1978	Dean, Yenepoya Dental College, Mangalore
7	Dr. U.S. Krishna Nayak	BDS :1978 MDS :1983	Dean, EC member of DCI A.B.S.M Dental College, Mangalore
8	Dr. Dilip G Naik	MDS :1985	Dean, Manipal College of Dental Sciences, Mangalore
9	Dr. Paul C.Salins	BDS :1975 MDS :1981	Former Senior Consultant, Maxillofacial and Skull Base Surgery, Hamad Medical Corporation (M.o.H.), P.O. Box 3050, Doha, Qatar. Presently: Director of Cranio- Facial Services, Mazumdar-Shaw Cancer Center, Bangalore
10	Dr. Moni Abraham Kuriakose	BDS :1983	Senior Consultant Head and Neck Surgery, Chief of Head and Neck Oncology Service Director, Department of Surgical Oncology, Mazumdar-Shaw Cancer Center, Bangalore

IV. Manipal College of Dental Sciences, Mangalore

Many alumni are occupying the posts of Heads of Dental Institution / Heads of departments in various dental colleges. Few alumni are also on the Executive Committees/Governing councils of various organisations of dental specialities/disciplines.

V. School of Allied Health Sciences, Manipal

1. Nimma Purna Chander Reddy- (MSc MIT), Clinical S.M.E (Subject Matter Expert), Siemens Research Suite, Apollo health street, Hyderabad.
2. Mr. Nagendra Upadhyaya, Team Leader, Accenture, Bangalore
3. Ms. Avishikta Sarkar, Business Analyst - Healthcare Application Management at DELL
4. Sanjivan Gautam :Researcher, National Cancer Institute (NCI) National Institutes of Health (NIH) US Department of Health and Human Services Bethesda, USA
5. Kiran Cahllagundla : Indian Badminton team, IPL, ICL
6. S.N Badrinath: Indian Hockey Team
7. Richa Agnihotri, Coviden PVT LTD

VI. School of Life Sciences, Manipal

Division of Biotechnology

Name	Credentials
Dr Chidananda (PhD)	Research Associate, Washington University, St. Louis, USA
Dr Raghu Radhakrishnan (PhD)	Professor, MCOBS, Manipal
Dr Satyajit Patra (PhD)	Asst. Professor, MUA, St. Kitts & Nevis
Dr Shamaprasad K (PhD)	Asst. Professor, SOLS, Manipal
Dr Roshan Mascarenhas (PhD)	Post-Doctoral Fellow, Ohio State University, USA
Ms Gayathri (MSc)	PhD graduate from University of California, USA
Ms Dhanya Nambiar (MSc)	Research Scholar, JNU, New Delhi (Fullbright Fellow)
Mr Shariq Ansari (MSc)	Scientist, Advinus Pharma, Pune
Ms Niyati Khetarpal (MSc)	PhD student, NII, New Delhi
Mr Vishal Hegde (MSc)	PhD student, University of Cologne, Germany

Division of Radiobiology and Toxicology

Name	Credentials
Dr Kiran Aithal B – 2011	Senior Scientist, Aurigene Discovery Technologies Limited, Bangalore
Dr MR Sunil Kumar - 2011	Scientist, Novartis Health Care Pvt Ltd, India.
Dr Archana PR – 2011	Selection Grade Lecturer, MMMC, Manipal.
Dr B Nageshwar Rao - 2011	Associate Professor, Mamata Medical College, Khammam
Dr KVN Mallikarjuna Rao - 2008	Asst. Professor, GSL Medical College, Hyderabad
Dr Venkatesh P - 2006	Director, TotipotentRX Cell Therapy Pvt. Ltd.
Dr. Koti Reddy T - 2005	Sugen Life Sciences (P) Ltd., Hyderabad
Dr. Venkatesha VA - 2005	Senior Research Scientist, Piramal Life Sciences, Mumbai.
Dr. Sudha D Kamath	Asst. Professor, KMC-IC, Manipal

VII. Manipal College of Nursing, Manipal

Dr. Judith Noronha Professor, Dept. of OBG nursing, MCON, Manipal	Dr. LathaVenkatesan Principal, Apollo College of Nursing, Chennai
Dr. Larissa Martha Sams Principal, Laxmi Memorial College of Nursing, Balmatta, Mangalore.	Prof. Asha P. Shetty Principal, PandyarajBallal College of Nursing, Mangalore
Dr. Suja Karkada Asst. Professor, College of Nursing, RasAlKhaima, Dubai	Mrs. Saroja Jaya Kumar Chief Nursing Officer, Manipal Hospital, Bangalore.
Prof. Irene Veigas,	Mrs. Vijayalaxmi

Principal, Sahyadri College of Nursing Mangalore	Nursing Superintendent, Sri Ramachandra Hospital, Coimbatore
Dr. Juliana D'sa, Professor and HoD, Department of OBG Nursing, Yenepoya College of Nursing, Deralakatte, Mangalore	Mrs. Mary A Karkada Clinical Nurse III, Neonatal Intensive Care Unit, Washington Hospital centre, Washington D.C USA
Mrs. SantySajan PhD-C Catholic University of America, Washington D.C. USA	

VIII. Manipal College of Pharmaceutical Sciences, Manipal

Sl. No	Name	Position
1	Padmashree B.R.Shetty	CEO-New Medical center, Abu Dhabi, UAE
2	Padmashree Girish Kasaravalli	Renowed film maker and swarna kamal awardee
3	Dr. Murali K Divi	Managing Director, DIVIs Laboratories, Hyderabad
4	Dr. Sreejayan Nair	Director, Biomedical Sciences PhD Program, Director, Center for Cardiovascular Research and Alternative Medicine (C-CRAM) University of Wyoming, Laramie, USA
5	Mr. V Brahmaji	Managing Director, Halls Drugs, Chain of Pharmacies NJ USA
6	Mr. Ramprasad	Vice President-Global operations, Mylan, USA
7	Dr. Bobby George	Vice President, Reliance clinical research, Mumbai
8	Dr. George Pathani	Director, Inga Laboratories, Mumbai
9	Dr. A Raja Naresh	Head, International Marketing-UK, Orchid Pharma, India
10	Dr. Siddarth Sarma	Associate Professor, Dept. Molecular BioPhysics, IISc, Bangalore

IX. Faculty of Architecture, MIT Manipal

Name of the Alumni	Batch	Current Position/Achievements
Mr NamithVarma	1985	Chief Architect And Owner, Gayathri And Namith Associates, Bangalore, Karnataka
Mr Rajeev Malhotra	1992	Project Manager, Global Education Management System Pvt Limited, India
MrHariSrinivas	1987	Senior Executive, United Nations Environmental Program, Tokyo, Japan
MrSundareshKamath	1987	University Architect, University Of Nevada, Nevada, Las Vegas, Usa
Mr Dinesh Munjal	1997	Practicing Architect, Australia
Mr Anthony George	1999	Practicing Architect, Bangalore, India

MrPravin	2000	London, UK
Ms Nita Soans	2004	Principal Researcher, Cks Consultants, Bangalore, India
MrKarthikeyaAcharya	2000	Design Researcher – University Of Art And Design Helsinki
Mr Ashok Hegde	2000	Senior Project Coordinator - Synergy Property Development Services Pvt. Ltd

X. School of Management

1. MonalisaDutta, HR Talent Acquisition Professional for the IT division, Coventry Healthcare, Phoenix, Arizona, USA, 2004-2006 batch
2. NayantaraHegde, Assistant Manager – HR (Sourcing and Campus Programmes), Marico – Kaya Skin Clinic, Mumbai. 2002-2004 batch
3. Mr. Ajay GajananDeasai, AGM, Grassim Industries, Mumbai. 2002-2004 batch
4. Mr.Tejas Reddy, Project Manager, IBM India Pvt. Ltd., Bangalore. 2004-2006 batch
5. Ms.ShilpaJadhav, Head, Employee Engagement, Target Group, USA. 2003-2005 batch
6. Srinivas Y.N, Senior Consultant, Information Security, Goldman Sachs, Bangalore. 2005-2007 batch
7. S.M. Haricharan, Co-founder and CEO, Ideas Software and Consulting Pvt. Ltd, Bangalore. 2000-2002 batch
8. Vikash Kumar Verma, Assistant Manager, Global Commercial Analysis, GlaxoSmithKline Knowledge Centre (WNS). 2005-2008 batch
9. Mr.Narasimha Prasad, Regional Head, Metlife Insurance Com., Bangalore. 2002-2004 batch
10. Mr. Harsha K, Head, Sales, Karnataka SBI Mutual Funds. 2002-2004 batch

XI. School of Communication

Sameer Hashmi Correspondent, BBC,Mumbai	KeerthiKillari Correspondent, BBC, London	G Vishnu Reporter, Tehelka, Delhi
SnehaPriyaPangalNayak Vice President (National) AXIS Bank	NityaMenon Film Actress (Malayalam; Tamil; Kannada, Telugu) Chennai	Ramanathan Reporter TIMES NOW Chennai
Mausami Singh Senior Correspondent IBN 7, New Delhi	Rajeev Reddy Film Director Hyderabad	AnadiAthley Film Maker Mumbai

Michael Patrao Radio Jockey INDIGO Bangalore		
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XII. School of Information Sciences, Manipal

- AnnajiRaoGarimella: VLSI CAD, AMD Scholar, USA
- GopalKaremore: Medical Software, Scholarship from Barcelona Spain.
- Sunil H R: Medical Software, Co-founder, Smart Yantra Technologies, Bengaluru
- Ravi Bharadwaj: Medical Software, Sr. Project Manager, GE Medical Systems, Bengaluru
- RajendraKurady: Medical Software, Philips Healthcare, Bengaluru
- YogishMallya: Medical Software, Philips Research, Bengaluru
- Satish Kumar M: VLSI CAD, Synopsis, Hyderabad.
- Satish Kumar R: VLSI CAD, Intel India, Bengaluru
- Ananth: Medical Software, GE Medical Systems, Bengaluru
- SandeepPatil HG: Applied Cognition Systems, Bengaluru

XIII. Welcomgroup Graduate School of Hotel Administration, Manipal

Year	Name	Designation & Adress
1986-1989	MrGiju Varghese	CEO, South Africa, National Park, South Africa
1987-1990	Mr Anil chadha	Area General Manager, ITC Maurya, New Delhi
1988-1991	MrS.Sujeet Kumar	General Manager, Westin Pune
1986-1989	MrSiddamBhanumurthy	Sales Manager, ITC Regional Marketing Office, New Delhi
1994-1997	MrRohitRamachandran	Manager, Air Arabia, Mumbai
1991-1994	MrVikasKhanna	Award winning, Michelin Starred Indian chef, restaurateur, food writer host of the TV Show Master Chef India, ViKasKhanna Hospitality Services New York, USA

2000-2004	MrPrakashViswanathan	Director Sales &Marketing, J W Mariott, Bengaluru
1992-1995	MrShihajAbdullakutty	Head of Network and Revenue Management,Malaysia Airlines.
1995-1998	MsManeetChauhan	Executive chef of Vermilion, an award- winning contemporary Indian and Latin American fusion restaurant with branches in Chicago and New York,Vermilion New York, Chicago, USA
1999-2003	MrRamasamyNatarajan	Director of Sales,Fairmont, Jaipur

ANNEXURE 8.9

ALUMNI CENTRE

Manipal University with 15 units covering over 272 courses has turned out a large number of graduates and postgraduates over the last five and a half decades, and its alumni are spread across the world. The University desires to have every single alumnus very much a part of the set up even today. No matter which constituent MU institution an alumnus belongs to the university takes a lot of pride in each one. They are individual ambassadors for Manipal University. Alumni Centre have some of the objectives like increases the alumni database/networks year over year and increase the number of guest lecture by our alumni.

Our institutions have turned out a large number of graduates and postgraduates and their alumni are spread worldwide. It is our desire to keep in contact with all of them, our distinguished alumni, so that we are able to have information from time to time about their alma mater and they too can participate in the developmental activities of these institutions. With this intention of strengthening alumni activity, the Manipal University, institutional alumni cell has been set up in each institution of University. Manipal University alumni affairs office has been set up with “STTAR” (Service, Teaching, Training, Administration and Research) as its core principles. This alumni portal will help both the university and the alumni to get in touch with each other. The alumni can get any kind of information about the university, fellow students, juniors, conferences, alumni meets, featured alumni, success stories of alumni using this portal. We would like to share all that and more with every one of those who have fond memories of the University.

Alumni are the mirrors that reflect the image of the institution to which they belong. The pillars of that institution grow strong when their alumni come into the limelight. This adds one more feather to the crown of the institute. Hence, it becomes very important for the alma-mater to have an update of the alumni profile. The students passed out from the institution are likely to keep in touch with their alma-mater to know about the recent developments in the campus. This would make them proud on discussion with their colleagues that their alma-mater still cares for them and so do they. The Alumni Centre acts as a link between the alumni and the alma-mater.

The Alumni Centre is built with 2 important objectives.

1. **Increase in database of the alumni year over year:** This helps us in contacting all our important alumni who have rose to great heights now. This helps us in raising funds from them and collecting important feedbacks about their alma-mater so that we can improve upon.
2. **Increase the number of guest lectures / seminars by the alumni:** More of guest lectures & interactions are conducted whenever any alumni visit the campus. Their interactions influence the students who are presently studying here to know the then study pattern and experiences which help them build their career.

To assemble the alumni on the same platform and to build a strong public relation, our institution has come up with a cell called Alumni Centre which started in the year 2004. The Director, Alumni Centre and his team have been working hard to reach the set goal. We have a centralized unit wherein a nominee is appointed from each of the constituent institute of Manipal University who acts as our representative and reports their alumni activities to the main Centre.

The Alma-mater conducts an alumni meet wherein many alumni are likely to participate. The institutions invite the distinguished alumni to present a lecture or for an interaction with the students as an epitome for the freshers. The Alumni Centre keeps updating the records of the alumni regarding the changes in their profile.

The total alumni base for the year ended 2014 is 1,12,655.

Alumni Center have different modes of networking to keep in touch with our alumni. It can be broadly divided into formal and informal methods.

Formal – Visit the alumni at various places, request them to fill up the proforma and update their profile, inviting them as guests for important functions, conducting Alumni meet at various places and make them aware of the recent developments.

Informal – Sending greetings to them as a public relation activity through e-mail and letters, attending the functions of the alumni on invitation, collecting the press-release details related to our alumni and sending appreciations, condolence meeting conducted on the demise of the alumni & condolence message sent to his family etc.

All Alumni Center activities are classified under the buzzword “STTAR”.

S – Service

T – Teaching

T – Training

A – Administration

R – Research

Service: This may be divided into intra-mural and extra-mural activities. It includes placement of service consultant, recommendation to the alumni for placement or for higher studies, head-hunting service providers within the alumni, updating contact list, exit interviews and image assessment.

Teaching & Training: This involves networking with various departments, arranging for guest lectures of visiting parents, searching mentors for residents and students, looking after elective students and organizing workshops.

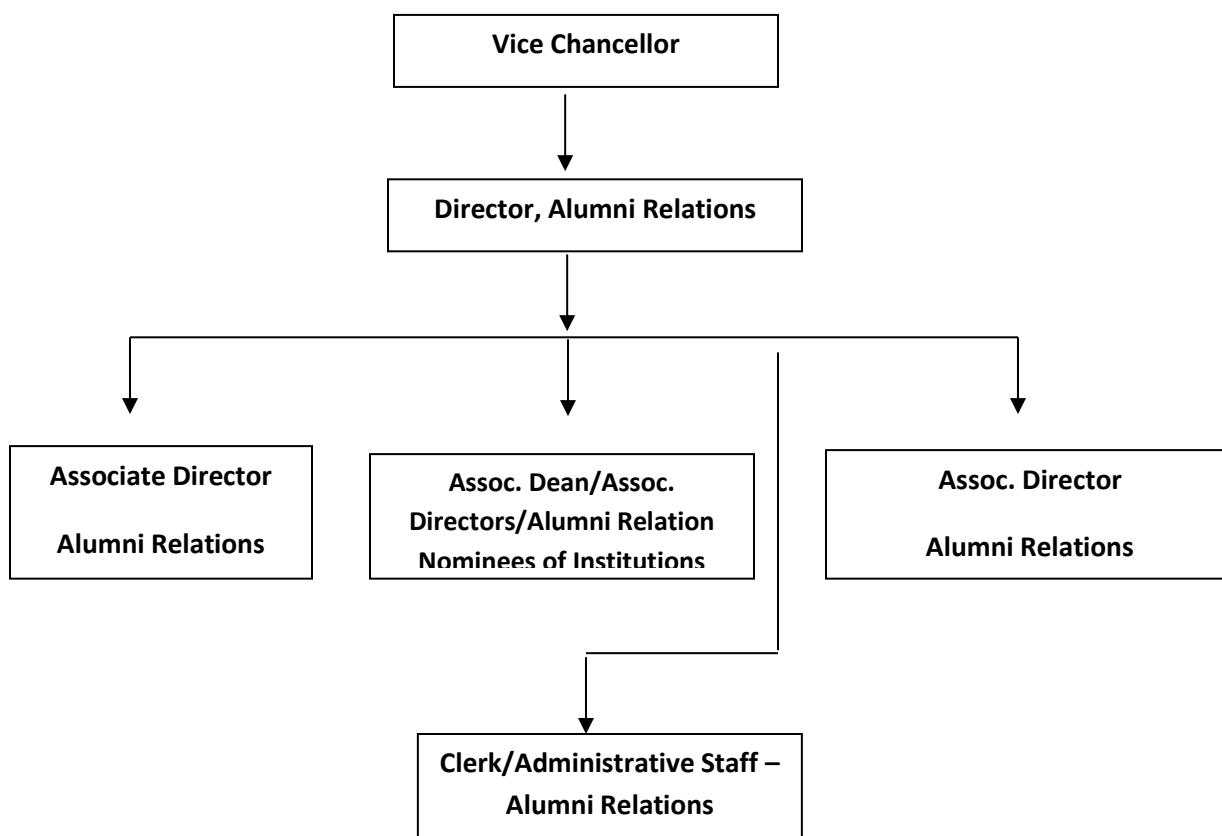
Administration: Planning academic projects, organizing CME's, head-hunting staffs, delegation of smaller projects, coordinating visits of various delegation, reporting important events and helping road-maps for institutions & surveillance of national programmes.

Research: Research co-ordination for PhD, PhD registration, search of the guide, choosing the title, process evaluation & post-doctoral research.

The regular activities of Alumni Centre, Manipal University, Manipal are as follows:

1. Increasing alumni database. Alumni are requested to register in the Manipal University website.
2. Publishing "Alumni News Digest" every month containing the news and events of the MU colleges, achievements of faculty, staff and students and sending it to all registered alumni from the database.
3. Publishing MIT "Distinguished alumnus of the month" profiles in the website to motivate students.
4. Supporting alumni to form "Regional alumni association" at their workplace
5. Providing prominent alumni information to other alumni for their academic development.
6. Involving alumni in conducting guest lectures, workshops based on their expertise.
7. Organizing "Annual University Alumni Meet" including MU 21 institutions every year and awarding the achievers with "Distinguished alumnus award"
8. Inviting alumni contributions for development activities of the institution.
9. The addresses and all related information about the alumni are collecting and compiling the data at our centre.
10. The data updated according to the institutions is sorted location wise, which has to be submitted to the Director/Vice-Chancellor on his official visit to those places.
11. The alumni report/details shall be drafted by the concern institution and shall sent to the Alumni Centre, for University Annual Report, slide presentation during University Alumni Meet etc.
12. Arranging departmental meeting with nominees once in two months. All the nominees representing the Alumni Centre from Various institutions are informed about the meeting and a brief noting is prepared regarding the minutes of the meeting.
13. Arranging campus round/visit particular institution to alumnus during Alumni Meet and whenever demanded by them.
14. Director will Coordinating with Vice-Chancellor, Associate Directors, and institution alumni representatives for conducting alumni meets or any alumni activities/queries related in Manipal/Mangalore.
15. Verifying the registration done by alumni in our University website and giving approval (through admin) for their confirmation and permanent record.
16. Compiling required alumni details for University Annual Report, Alumni Meet, Alumni statistics, MU fact sheet, departmental Audit, MRM, EMS, budget etc. and follow up academic and non-academic activities of MU Alumni.
17. Publishing alumni details (Alumni Meets, Alumni Awards / Recognitions, photos for gallery etc.) at the alumni website through network administrator / Webgroup.
18. Whenever the Alumni Chapters (Associations) organizes Alumni Meet in their respective areas i.e. in Coimbatore, Kanyakumari, Kochi, Bangalore, Mangalore etc. – We will arrange to provide alumni address (region wise, batch wise etc.) to the particular organizer.

Functional Chart of Alumni Centre:



Job responsibility:

Director, Alumni Relations:

1. The overall job responsibility is to offer leadership to the Centre through the core team at Manipal University and nodal committees. The nodal committees in each institution are managed by an Associate Director.
2. When the post of Associate Director is not available in a given institute, the Head of the institution delegates Alumni work to the Associate Dean or handle it himself/herself.
3. The overall profile of the work can be classified under the following activities
 - S – Service**
 - T – Teaching**
 - T – Training**
 - A – Administration**
 - R – Research**
4. The Director, Alumni Centre networks with other relevant departments to increase the database of alumni. Further, he will keep in touch with alumni or their associates for arranging the relevant activities already mentioned as service, teaching, administration and research.
5. The Director Visits the alumni at various places, request them to fill up the proforma and update their profile, inviting them as guests for important functions, conducting

Alumni meet at various places and make them aware of the recent developments. Whenever the Alumni Chapters (Association) organize Alumni Meet in their respective areas like Coimbatore, Kanyakumari, Kochi, Bangalore, Mangalore etc. The Director attends & representing the University. He also deposes officials in his absence to various Institutions whenever alumni meet has been arranged at the institution level. Similarly Director arranges University level Annual alumni Meet in Manipal and also facilitate, whenever a group of Alumni of different batches holds meet or visit the places like Manipal/Mangalore campus. Whenever guests are invited to Manipal for important functions like college Annual Day, University functions, he receives them at the Airport occasionally if needed.

Associate Directors/ Alumni relation Nominees of Institutions:

These officers are in charge of the activities coordination at the Institution level. Will look after the Alumni affairs pertaining to Manipal and Mangalore/Bangalore campus respectively.

Regular Meetings

Regular meetings are held once in two months in which all the Institution nominees attend.

PROPOSED BENEFITS FOR ALUMNI

The following are some inputs to possible “Entitled Benefits” to those alumni paying the Life Membership Fees (Rs. 5000/- for already passed out alumni and Rs. 10,000/- for fresh admissions).

Soon after the payment, Alumni Photo ID Cards will be issued to them as an official entry pass to avail these benefits.

1. Seat reservation in various colleges based on merit only for alumni (under consideration)
2. Availing Medical facilities at concessional rates in any of the Manipal Group of Hospitals, as per the hospital rules (with a yearly ceiling on benefit amount)
3. 10 to 25% discount in the boarding / lodging bills at Hotel Valley View, Manipal, once in a year
4. Special discount in the Manipal County Resort, Bangalore, once a year (www.manipalcounty.com)
5. Participation in the Conferences / Workshops organised by various departments of MU from time to time, at concessional registration fees.
6. Access to Reference Books / Journals at MU Central Library / Institutional Libraries, as per the Library Rules.
7. Access to Digital Library facility in the Central Library.
8. Availing the Guest House / Hostel Accommodation facility at nominal charges, during their visits to Alma-Mater.
9. Entry to all sports and recreational facilities of MU
10. Entitled to get periodical MU publications through emails.
11. 50% concession on Annual alumni meeting registration fee held at Manipal.
12. Other meetings – International meeting as per demand.
13. Qualified alumni will be approved visiting faculty at appropriate institutions.
14. Nominate “Distinguished Alumni” and have them honoured during institutional alumni meet.

ANNEXURE 8.10

MANIPAL UNIVERSITY

International Admissions (Undergraduate courses)

Health Sciences

Courses	Total Seats			Filled		
	2012	2013	2014	2012	2013	2014
MBBS	75	75	75	75	75	73
BDS	30	30	30	29	27	10
B Pharm	20	20	20	10	14	36
Pharm D	10	5	10	10	4	10
Allied Health	50	50	60	18	34	60
BPT Top Up	16	0	11	16	0	11
BSc RT-Bridge programme	0	0	8	0	0	8
English Course	0	0	10	0	0	10
BSc. Biotechnology	10	7	5	5	2	2
Bsc. Nursing	15	15	15	1	3	2
PB Dip. Nursing	0	0	27	0	0	27
Total	226	202	271	164	159	249

Technical Courses

Courses	Total Seats			Filled		
	2012	2013	2014	2012	2013	2014
BE/B Arch						
Architecture	24	24	24	6	13	8
B Design(Fashion design/Interior design)	0	0	1	0	0	1
BA Design(Fashion design/Interior design)	0	1	4	0	1	2
BSc (FD-Couture)	0	0	1	0	0	1
BSc Animation	0	0	0	0	0	0
B Tech	337	360	360	162	146	207
Lateral BTech	0	2	0	0	2	0
Total	361	387	390	168	162	219

Management courses

Courses	Total Seats			Filled		
	2012	2013	2014	2012	2013	2014
BHM	27	15	15	1	1	1
BACA	5	5	8	0	5	1
BAMC	15	15	15	7	4	7
BBA	5	33	33	1	9	16
Total	78	68	71	19	19	25

ANNEXURE 8.11

LEADERSHIP TRANSFORMATION PROGRAMME (LTP) FOR HEADS OF INSTITUTIONS (HOI'S) OF MANIPAL UNIVERSITY, MANIPAL

Manipal University has initiated a focused, customized and robust *Leadership Transformation Programme* for the Heads of Institutions of its constituent Institutions to enhance their leadership capabilities. This programme is being conducted in association with a global human resource management consulting firm - Performance Consulting International (PCI), Bangalore, focused on building the performance capabilities and tangible results of the organization.

The entire duration of this programme is for nine months. The first part of the programme was *Profile Phase*, where each participant were made to know the self through a structured *Leadership Development Centre*. Senior assessors conducted a series of structured simulated situations through group discussions, individual presentations and individual role-plays. The output of the simulated exercises was then formulated into a standard evidence based feedback report. Half day workshop was conducted to set expectations and to brief the participants about the programme. Individual coaches/senior assessors were assigned to all the HoI's followed by one to one reflection dialogue with each one of them. The input was used to create a customized reflection & learning modules, which benefited in the executive coaching.

Each HoIs were assigned a *Business Impact Projects* pertaining to their respective institution. The individual coaches ensured that the BIP's are linked to their Key Result Areas. The assessors have created a customized reflection journal for each leader. Reflection journal gave briefing for creating the project charter. With the help of reflection log, the HoI's presented their Business Impact Project before a panel consisting of Leadership team and their coaches during January, 2013.

In the development phase, a series of connect between the coach and the coaches have been scheduled in order to execute and accomplish the Business Impact Project goal and to attain behavioral and business transformation. The connect would be either through email/telephonic discussion or face to face meeting between PCI assessors and HoI's at the respective offices of the HoI's.

At the end of the project, each leader has to present their journey of successful completion of Business Impact Project before the Top Management.

Apart from this, the University always strives to maintain a strong second line leaders in the form of Associate Deans/Directors, Heads of the Departments etc.

Synergic Manipal Integrated Leadership Engagement – SMILE

Given the changing dynamics of the education sector, it is important that the faculty members are equipped to take on the challenges and opportunities in Teaching, Research, Institution Building and managing Student Expectations. Considering the University's growth in the past and its leadership requirements in the future, University have finalized a plan on developing leaders from within, to grow them to higher-level roles and responsibilities in the institutions under Manipal Group. Keeping this in mind MAHE has initiated a sustained approach to faculty empowerment, leadership development and succession planning through a signature programme "*SMILE*", a nine month programme launched in January 2015. Sixty potential candidates have been shortlisted from various streams under the University from a pool of 172 volunteers who had self-nominated for the programme. This programme comprises of the Assessment Phase – Multisource feedback, Myers Briggs Type Indicator (MBTI) and a two day Development Centre. Workshops on different competencies have been conducted for the participants. Individual Impact Projects, Developmental Coaching and Mentoring are also an essential part of this programme.

ANNEXURE 8.12

Technology and MAHE

Manipal University, a global leader in Education, has always been the forerunner in implementing technology solutions in the various facets of education and healthcare services. With regards to IT, Manipal University has been very quick in realising the potential benefits of IT as a big enabler in the effective delivery of higher education and healthcare functions. Manipal University has innovatively used technology in the following processes:

1. Admissions

Manipal University Admissions Office has been using the latest technology to the fullest extent possible ways in all the stages of its process. The automation and digitization of the office has improved the effectiveness of administrative operations and hence helped to cater to the requirements of the customers at a greater speed with ease.

Online Application

Prospective students applying to any of the courses offered at Manipal University can pay the application fee through credit card or net banking in addition to the offline methods.

A payment gateway is an e-commerce application service provider service that authorizes payments for e-businesses, online retailers, bricks and clicks, or traditional brick and mortar. It is the equivalent of a physical point of sale terminal located in most retail outlets. Payment gateways protect credit card details by encrypting sensitive information, such as credit card numbers, to ensure that information is passed securely between the student and the merchant and also between merchant and the payment processor

A payment gateway facilitates the transfer of information between a payment portal (such as a website, mobile phone or IVR service) and the Front End Processor or acquiring bank. When a student fills an online application and selects to pay through online, a payment gateway-enabled merchant, the payment gateway performs a variety of tasks to process the transaction.

Scanning & Data Processing

- The applications are scanned using OCR technology and the data along with the photograph and signature images are captured. The data and images are uploaded in the Admissions Software, Online Test Booking System and the website for application tracking.

Admissions Microsite

- A separate microsite www.admissions.manipal.edu is exclusively created for Admissions. The Content Management System (CMS) has been enabled with the website design which facilitates easy and timely updation / maintenance of the page.

- The application status, results, announcements etc are hosted in the website on a daily basis which helps the student to track his application, results etc.
- Candidate can download application in PDF form or apply online with the option of paying the application and entrance test fee through Credit Card or Net Banking or Demand Draft.

Online Entrance Test

The salient features of the computer based ONLINE entrance test are:

- In the broadest sense, an online entrance test is the use of Information technology i.e., it involves the use of computers for delivering an examination. Questions are presented to the test taker on the monitor and the candidate submits his answers by using the mouse. Answering a test online is easy. It requires minimal computer knowledge and basic familiarity with the use of computers. Moreover the testing software offers the test taker a demo to familiarize the candidate with the test taking interface and help him get acquainted with the process.
- The system provides scientifically designed test content and helps deliver the exams online through state-of-the-art test centres spread across 30 cities.
- The individual computers at the test centres are connected to the central server, which delivers the test, in real time through a reliable connectivity.
- The online entrance test is delivered in a secure, robust and highly reliable MPLS network which ensures built in security. Biometric verification systems ensure candidate validation and authentication. Each test node has a web cam for candidate authentication and verification. Questions are encrypted and made available only at a scheduled day & time. All test centres are equipped with IP camera which helps monitor the locations remotely via the internet. Immediate declaration of the test score helps avoid malpractice allegations and generation of real-time rank lists.
- The system uses a world class test engine which accommodates over 16 question types, some of which are Multiple Choice (Including Yes/No, True/False), Multiple response, Hot spot, Drag & Drop, Fill in the blank, Match the following, Ranking, Descriptive etc.
- The questions appearing on the screen will be in English. All questions will be of the Multiple Choice Question (MCQ type).
- Each MCQ will consist of a stem which may be in the form of a question or an incomplete statement and four responses labeled A, B, C and D. One of the four responses only is the correct or most appropriate answer. Candidates must choose the correct or most appropriate answer by clicking on the button next to the answer. Candidates can navigate freely through the questions.

- Each question carries one mark. Each correct answer will be awarded one mark. The wrong answer or unanswered questions will receive no mark.

Online Test Booking System

OTBS is a web based scheduling software which facilitates the candidates to appear for the online entrance test at their convenience. The candidates will have the freedom to choose the place, date and time of their choice in the OTBS. The booking schedule will be notified in the prospectus and website for various courses. Candidates are required to login to the OTBS during this given time frame window for booking their slots. Candidates should enter their application number and online booking password while logging into the OTBS. The password is sent to candidates immediately after the receipt of their application to their email id and also through SMS.

Candidates can book slots of their choice on a first-come-first-served basis and subject to availability. If a candidate is unable to book a slot in a centre of his/her choice, s/he may choose to book a slot in an alternate centre, subject to availability. Re-schedule requests, if any will be processed by the Admissions Office.

The e-hall ticket will be generated instantly after the candidate has booked his/her schedule in the OTBS. The e-hall ticket will indicate the e-hall ticket number, course/s applied, address of the test centre, test date & time selected by the candidate. The e-hall ticket can also be downloaded at a later date from University website. Candidate should provide the application number and online booking password to download the e-hall ticket. The copy of the e-hall ticket will also be emailed to the candidate.

Admissions & Student Information System Software

- The Admissions Software is created as an integrated system, aiming to computerize all University admission processes. Processes use registration, application and admission as general classifications. All data are stored in a centralized database in a secure server and hence the data retrieval and report generation is just a matter of a mouse click.
- The software also caters to all the requirements of counselling/admission which include real time seat matrix display, seat allotment; verification & authentication, automated printing of admission order, fee receipts etc.
- The Student Information System Software integrates various departments like the Admissions, Student Finance, Hostels, Evaluation and all the college offices of Manipal University. This helps administration and sharing of the data and also avoids replication of the work at all levels.

2. Marketing

Online Marketing

Technology plays a key role in Manipal University Admissions and Brand Marketing. The focus is on using the Internet /online and mobile technologies to better understand what the young student wants and to deliver brand communication and key messages across various platforms. Whether it is through our websites, or using the Internet to disseminate knowledge and information and generating inquiries.

- **Search Engine Marketing:** drive traffic to the site through keyword (CPC) and banner (CPM) based models on all platforms like google, yahoo, and educational portals like entrancecorenr.com, successcds.net etc.
- **Search Engine Optimization:** optimize the site so that it is at the top of search results for all relevant keywords.
- **Email Marketing:** We use multiple email management and broadcasting services capable of delivering more than 1,00,000 emails per day. Email communication is the pillar for student acquisition marketing and in a year we send approximately 5 million emails.
- **SMS Marketing:** SMS communication is sent to all students to inform them about all key dates during admissions process.
- **Social Media Marketing:** With social media gaining prominence, Manipal University is present across all social media platforms including FaceBoook, Orkut and Twitter. We use extensive engagement tools like games, photo based applications etc to drive student interest.

Customer Relation Management Software

CRM software is in place to track all student engagements. The system is able to track each interaction that happens with a prospective student across all channels including website, online marketing, email and phone. At any point of time the system allow us to see all communication sent and received from the student helping is quick problem resolution and management.

The CRM tool is also a student engagement tool which allows for multiple campaign management for automatic and timely delivery of relevant communication to students. The current CRM system is delivering more than 30 campaigns targeted at prospective students.

3. Administration

Data Center

Manipal University has setup a state of the art physical infrastructure for the data centre that meets the requirements of industry standard. This Tier II (N+1) DC, spread over 3000 sq.ft, will house the server park and also the Network Operation Center (NOC), hosting enterprise applications, e-Learning portal, websites and host of other services.

Website and intranet portal

Manipal University is maintaining an informative and interactive Education website, <http://www.manipal.edu> representing all institutions under Manipal University - a gateway to prospective students, parents and also alumni of Manipal University.

Manipal University has intranet portal mainly to provide information services to on-campus students, faculties and administrators. In addition, this portal provides a platform for various self service functions and online services to employees and students. This has not only digitised and automated workflow, also reduced turn-around times of service windows, increasing the overall productivity.

PeopleSoft Enterprise

Manipal University is the first university to launch PeopleSoft applications in India. The objective of implementing PeopleSoft is to enhance the University processes to Global Standards and to disseminate academic & financial information to Students and Parents through Internet.

PeopleSoft application is a comprehensive enterprise-wide software that covers all aspects of management and operations of a modern university system. Manipal University, to start with, has implemented the Finance and Human Resources Management System. The PeopleSoft ERP application will provide critical management information in real-time to ensure the highest levels of responsiveness by the University to changing circumstances. The web-based architecture of PeopleSoft applications can support MU's academic mission today and meet its technology requirements of tomorrow. Through PeopleSoft, MU is implementing Global Best practices and facilitating access to information - anywhere, anytime. The University will be using a single database - leading to data consistency and reduced overheads.

Group wide connectivity

Manipal has established a very strong and reliable VPN infrastructure connecting all Manipal Group of institutions in India and abroad with high-performance MPLS (Multi Protocol Label Switching) backbone - committed step to move towards "Digital University".

This solution will provide for high flexibility in not only adding new sites and location but also in adding new services like video conferencing, VoIP etc. Manipal GWC is highly secure, scalable and provides high uptimes with all the redundancies built into solution.

Picture Archiving and Communication Systems

Picture Archiving and Communication Systems (PACS) are high-speed, graphical, computer network systems for the storage, retrieval, and display of radiology images. With the development of integrated health care systems supported by the appropriate information infrastructures, PACS can be implemented over distant networks to provide remote access to patient information and to support one of the most promising forms of telemedicine, tele-radiology.

Manipal University has implemented PACS in one of its premier teaching hospitals in the year 2000. Film-less diagnosis, 24x7 accessibility, simultaneous multi location viewing, post processing manipulations, user defined set up, HIS/RIS/PACS integration, tele-radiology are some of its key benefits.

Student Information System(SIS)

SIS application helps the University institutions in to track and maintain individual student personal information.

Online Screen Marking (OSM)

University has adopted the digital marking of University exam answer scripts of all its institutions in Manipal, known as 'On Screen Marking' (OSM) from 01 July 2014. Under this all the examiners (internal/external) evaluate the scanned answer scripts on a computer screen with the help of a software. OSM has the advantages of simultaneous marking of answer scripts by internal and external examiners, error free totalling of marks by the system and mark by question option wherein the a particular question can be marked for all the scripts for better judgement. OSM has totally abolished the physical handling of answer scripts by the examiners and also reduced the paper consumption to a certain extent

Online Degree Certificate Verification System (ODVC)

The Online Degree Certificate Verification System (ODCV), a 24x7 web based certificate verification service allows verifying certification status of the Manipal University graduates anytime and anywhere through online mode. The online portal access is free and open to all.

The details will be useful to verify with the applications made by the students for employment purpose or admissions into the higher studies. The data presented here is based on the official records of the University.

4. Classroom and teaching

E Learning

In MU's drive for continuous excellence, It has designed a unique learning experience - online education. Now students can learn at their own pace, in a manner that suits their style of learning. The courses provide one with lively and interactive, multi- sensory learning, combining the simplicity of classroom teaching with a powerful visual medium that captures one's imagination. This is a whole new realm of educational experience.

The content for e-Learning is provided by the faculty of Manipal University. Hence the experience is like learning in a virtual classroom. The multimedia content of all the courses is

interactive and provides the students the ability to assess his knowledge by taking online tests at the end of each chapter.

E-Learning is a web application that the students can access across the campus. E-Learning centre has been set up at Manipal and Mangalore campus, which provide a perfect ambience for learning. In addition to this, students can also access e-Learning at their hostels and in some places of the campus, they can also access it wireless.

By initiating projects like e-Learning, Manipal University is also keeping pace with the changing technology, thereby providing the students the best of educational experience.

State of the art classrooms

Manipal University provides state of the art classrooms to its students with latest Audio Visual facilities, wired/wireless internet connectivity and with suitable provisions to use laptops. Video conferencing facility is available in select class rooms to facilitate interactions with faculties across the globe.

Online Attendance/Student Feedback

Manipal University has introduced online attendance system in few of its constituent institutions/departments. Online feedback on faculty and course evaluation is also introduced in most of the institutions/departments.

Student Computing

Manipal University has provided wired or wireless infrastructure, in the entire campus, to provide access to information from their rooms/ residences. Students are connected to the internet, e-learning and information portals through high-speed internet gateway in the hostels. Internet kiosks also have been established in key strategic locations to provide internet access. Manipal University is providing each incoming UG/ PG student in Engineering, Medicine and Dentistry, a laptop, packaged with all campus services, for their computing, communication and presentation requirements. There are about 8000 notebooks on campus connecting students.

Faculty Computing

Manipal University has taken a huge initiative to provide laptops to all its faculties, free of cost, to promote extensive faculty computing, innovative teaching methods and research activities. Nearly 1800 faculties have been given laptops and this unique initiative of Manipal University is certainly first of its kind in India. The professional notebooks from HP, Lenovo and Apple have created a huge impact on the teaching-learning process in the University.

Library system

All central libraries are connected through EPAC - The Library Search Engine, which is a web-enabled search engine that can be accessed on Intranet, as well as on Internet. EPAC can be used to browse/search for an item (book/non-book), along with its details and the

availability, in a particular library. Online Journals subscribed by the library can also be searched and accessed through EPAC. The Health Sciences Library through its micro site provides electronic access to various full text and bibliographical databases. The Health Sciences Library is well equipped with modern facilities and resources in the form of CD-ROM, Online Databases, online journals, e-Learning, Video Cassettes, Books, Journals, Back Volumes of Journals, Theses and WHO Publications.

Event Management System

Manipal University has developed an application which enables effective and efficient way of approval of events, support requirements for these events and optimal utilization of University infrastructure resources.

ISO Documentation

In its efforts to sustain and promote green initiatives, University has reduced consumption of paper in most of its administrative processes and have hosted all ISO documents pertaining to 9001:2008 and 14001:2004 in its intranet portal to encourage paperless documentation.

Internet and email services

Manipal University has got a high speed internet gateway of 14 mbps through BSNL's STM ring, 100 mbps from BhartiAirtel gateway- all in one Manipal campus, to meet the internet requirements of faculties and students. All the institutions under Manipal group are behind Domain Controller and Active Directory (AD) infrastructure to support group policy implementation and remote management services. Manipal University has around 2,000 email users from the faculty group. E-mail facility to the students and alumni has been provided in collaboration with Microsoft.

Conventionally, students are required to obtain content from classroom teaching. Today, MU is not too far away from sending this content directly to students, to enable 'on-demand learning'. With wireless, the dimension of 'mobility' is enhanced.

Wireless Campus

The entire Manipal University campus is unwired with a two-layer secure wireless architecture - core and access network. This provides seamless connectivity across the entire campus and users can access the network from anywhere in the campus, both indoor and outdoor. The Wi-Fi mesh network is designed to provide wireless broadband Internet services, branded as I-ON, to about 10,000 students on campus with the help of Motorola canopy equipment (access points and subscriber modules). This wireless infrastructure is being used to access all IP based services like, Internet, e-mail, eLearning and digital library, and this network has the capability to support Value Added Services (VAS) such as IPTV, videoconferencing, VoIP and any other converged multi-media services.

5. Placements

Placement cells in the constituent institutions make extensive use of IT in improving their performance and increase their effectiveness. Use of Social Media, Group SMSes, Placement portal, Video Conferencing facilities for conducting interviews, use of Audio visual facilities to train the students, state of the art computer labs to facilitate recruiter's testing requirements are examples of use of technology in Placement process.

6. Alumni Centre

Manipal University with 21 institutions covering over 270 courses has turned out a large number of graduates and postgraduates over the last five and a half decades, and its alumni are spread across the world. The University desires to have every single alumnus very much a part of the set up even today. No matter which constituent MU institution an alumnus belongs to, the university takes a lot of pride in each one. They are individual ambassadors for Manipal University.

Manipal University alumni affairs office has been set up with "STTAR" (Service, Teaching, Training, Administration and Research) as its core principles. Manipal University has developed an alumni portal to facilitate both the university and the alumni to get in touch with each other. The alumni can get any kind of information about the university, fellow students, juniors, conferences, alumni meets, featured alumni, success stories of alumni using this portal.

IT Award

One of the leading IT giants, IBM, awarded Dr H S Ballal, Pro Chancellor of Manipal University, the "IBM Achiever Award" for being a leader in using IT in higher education space. This provides testimony to Manipal University's goal to reach.....Destination Digital

ANNEXURE 8.13

Community oriented programmes

A. ASARE – a home for mentally challenged citizens is an initiative of Manipal University and Archana Trust, started with the following objectives:

- To promote general welfare of the mentally challenged in Udupi district regardless of the degree or the type of disability, or regardless of caste, creed, race or religion or community or economic, social background.
- To explore and promote possibilities of identifying jobs and occupational activities according to the skills and potentials of the persons with mental retardation.
- To create a common bond of understanding, action and network among professionals, parents, families and others and develop better public understanding of the needs of the mentally challenged through mass media, publications, seminars, workshops, conferences, etc.
- To advise, counsel, assist and support parents in the solution of their problems and to coordinate their efforts and activities.
- To facilitate training programs for the families of persons with mental challenges in home management.
- To promote the training of special educators for teaching and training of persons with mental retardations, autism, cerebral palsy and multiple disabilities.
- To assist in setting up and running vocational training and employment and marketing centers for the mentally challenged.
- To publish newsletters, periodicals, books, booklets for the benefit of persons with mental challenges
- To approach the government and other organizations for necessary statutory protection and help of mentally retarded citizens.
- To provide for and assist in the formation of Family Trust and also in the appointment of a guardian or trustee in the event of either the parents being unable to look after their mentally challenged child or after the death of their parents or to act as a guardian when it becomes necessary.

B. HOMBELAKU:

It is a Psychiatric rehabilitation center for the chronic mentally ill. It is administratively and functionally integrated with Kasturba Medical College, Manipal. It is a 'not for profit' organization, functioning under a license from the Udupi District Administration and has a board of visitors. It is located on the outskirts of Manipal University campus on a 1.5 acre plot on a hill side. The atmosphere is calm and soothing to facilitate rehabilitation processes. Kasturba Hospital is located about 1 KM away in the same campus and provides general medical care for the residents of Hombelaku. Hombelaku was inaugurated on Jan. 7, 2010 and has 50 bed capacity. Its objectives are:

- To provide the highest quality clinical care
- To provide a nurturing environment for healing

- To facilitate integration of the persona into society by training in daily living skills, developing work habits, improving social skills and fostering decision making abilities.
- To minimize disability
- To provide respite care

C. OUTREACH ACTIVITIES

The institution had started its outreach activities in the 1970s through weekly Outreach clinics and Rural Maternity and Child Welfare Homes in the villages around Manipal so as to improve the health of the community at a time when no other health facilities were available and the maternal and child health statistics in this area was very poor. These centres have since then provided antenatal, intranatal and postnatal care to pregnant women and provided the mother adequate information so as to make her capable of taking care of the newborn with respect to nutrition, immunization and growth. These services are provided totally free of cost. The community, if needs secondary or tertiary level care, is provided these services at Dr. TMA Pai Hospital Udupi and Kasturba Hospital Manipal. These services are available at concessional rates for outpatient and free of cost for in-patient care by the people of the field practice area through the insurance services that have been provided upto a ceiling of Rs 100000/- per family per year. The premium for the insurance is borne by the University and the concerned bank. For patients outside the field practice area, services at concessional rates are provided through a system called green card wherein expenses upto Rs 3000/- for Medical care and upto Rs 5000/- for surgical care is taken care by the institution. The transport during these referral services and medicine at the outreach centre are provided free of cost.

These are some of the services provided by the institution that attracts the population of the surrounding villages of Manipal.

D. COMMUNITY RADIO

Radio-Manipal 90.4 FM – the first community radio in the coastal district of Udupi was started by Manipal University on September 12, 2008. The studio setup and the transmitter are located on the Manipal Institute of Communication, Manipal campus.

Apart from Manipal and Udupi the radio covers a number of villages in the district through a 50 Watt Transmitter. An estimated 1,65,000 people in Shivalli, Alevooru, Perampally, Badagabettu Ambalapady, Kalyanapura, Udyavara, Kukkehally tune in to listen to the programs.

The radio promotes people's participation in the development process, strengthens panchayatraj institutions, supports formal education, health, and promotes knowledge of traditional folk, art, culture, local language and also empowers people with scientific knowledge in agriculture and allied activities such as fisheries.

The community groups like the self-help groups, youth clubs, anganwadi centres, schools and colleges, grama panchayats, sangeeth sabhas, health clubs, NGOs, Yakshagana Kendra, Krishi Vijnana Kendra, Bhajana Mandali, self-employment training centers take part in the program activities.

Regular training program for students in content generation are held and these students are allowed to produce radio programs. Awareness programs are held at Udupi, Doddanagudde, MGM College, Brahmavar, Parkala, Manipura and Udyavara. The local events too are covered.

Experts in various fields are invited to the studio for interactive programs, which are broadcast regularly. Various outreach programs of Manipal University are given priority.

Youngsters are given opportunity to showcase their talent in the Talent Show Program broadcast on Sundays. Health hints, career guidance and energy conservation programs are held regularly. People are free to air their views on community issues.

For More details call: +91 820 2922747, +91 9481753711, or write: E-mail radio.manipal@manipal.edu

Broadcast time : Every day between 12 noon and 2 PM, 5 PM and 7 PM.

E. SCIENCE CAMP FOR 'INSPIRE' INTERNS

Manipal University, under the sponsorship of Department of Science and Technology (DST), Government of India, organizes a week-long Science Camp as part of the "Innovation in Science Pursuit for Inspired Research (INSPIRE)" program at School of Life Sciences, KMC Manipal. The aim of the camp is to attract talented school students to science and research, and promote enthusiasm for pursuing scientific research as a career through interaction with renowned and distinguished Mentors from all over India. The camp is held for five days.

Eligibility & Selection: School and Inter-college students who are currently pursuing Science in Class XI or XII and were in the top one percent (1%) of their Class X board examination (State/Central boards) eligible to apply. Selection of the participants will be based on merit. Accommodation will be provided free of cost in the Manipal University campus. Travel cost reimbursement (non-AC bus or train fare) and food arrangements for the selected participants will be borne by the Manipal University.

INSPIRE 2013

The activities for the fourth INSPIRE residential internship program (INSPIRE 2013) organised by School of Life Sciences, Manipal University, with the support of Department of Science and Technology (DST), Govt. of India, started on 26th May 2013 with the arrival of the selected students from various parts of Karnataka. They

were accommodated at the Nehru and Indira hostels (boys and girls) of Manipal University. Their food arrangements were made at the Food Court of MIT on all the days of the program. Volunteers from School of Life Sciences (SLS), present on all days to take care of the students, helped in their registration upon arrival.

27th May 2013

The program started promptly with an inaugural function at the Chaitya Hall of Fortune Inn Valley View at Manipal. **Dr. GK Prabhu** (The Registrar, Manipal University) welcomed the students and other dignitaries that included Dr. YS Rajan (Dr. Vikram Sarabhai Distinguished Professor, ISRO in Bangalore) and Mr. Chakravarty Sulibele (popular journalist and writer). In his welcome address, Dr. Prabhu congratulated the students for having taken the decision to get inspired about science. He urged the students to make best use of the time and facilities at Manipal. He, along with other dignitaries and a couple of participants, inaugurated the program by lighting a lamp. This was followed by enthralling addresses by the chief guests. In a wide-ranging and captivating address to the audience, **Dr. YS Rajan** touched upon the various aspects of decisions that the students have to make in their life. Stressing upon the need for wealth creation in a country where 70% of the population lacks basic facilities, Dr. Rajan asked the participants to ensure that they create wealth through their hard work first, so that they will be able to make a useful contribution to the society. He also stressed the need for physical and mental health for success in any walk of life. **Mr. Chakravarty Sulibele**, in his unique style, showed the audience how science permeates our quotidian lives. With a range of suitable examples and anecdotes culled from Upanishads, ancient and recent history as well as contemporary practices he explained the essence of science to the enthralled students and how it helps addressing the issues that the country is facing. He said that everybody is a born scientist with creative skills but the societal pressures changes that. He asked the participants to learn as much as they want; travel as much as they could, before working for the betterment of the country. Dr. Padmalatha Rai (Professor, SLS) proposed the vote of thanks on behalf of Dr. K Satyamoorthy (Director, SLS). This was followed by a tea-break before the sessions with the mentors began.

Dr. V Nagaraja (Indian Institute of Science, Bangalore) was the first of the mentors to address and interact with the students, speaking on a topic related to diversity of life in earth. He began his talk stating that from the unknown environmental conditions when the earth was formed and life came into existence, to the present time, organisms evolved as bacteria (mostly mesophiles and some thermophiles), then to archaea (mostly thermophiles) and to eukaryotes (no thermophiles). He emphasized that even though prokaryotes and eukaryotes vastly differ from each other they still share a certain degree of similarity having their own identities and functioning in a programmed way. He pointed out that irrespective of the complexity the house keeping functions in all organisms are highly conserved. He pointed out an interesting fact in nature's play - the genome size of organisms. Though it is possible to expect

that the genome size will increase with the increasing complexity of organisms, in reality it is not so. Giving an overview of the multiple disciplines of biological sciences ranging from microbiology to genetics and evolutionary studies to the depths of DNA-protein interactions, the lecture aimed to kindle their interest towards science and thirst for knowledge.

This was followed by a lecture by the inimitable **Dr. Deepak Saini** (Indian Institute of Science, Bangalore) on the basic concepts of cell communication. An expert in cell signalling Dr. Saini explained the basics and engaged the intellect of the young participants. His dynamic talk included videos, audios and animations on the varied functions of a cell. He emphasised the need for cells to communicate (talk) to accomplish those functions, and showed the different modes of communication between and within the cells to be a key for survival, and was able to kindle new thoughts in the participants, which led to colourful questions that were clarified. The talk concluded with a discussion on the future of cell biology and the scope of other related avenues for the future generations. This talk concluded the morning session, which was followed by lunch at Food Court, MIT.

The afternoon session was dedicated to observation and understanding through demonstrations in various laboratories of SLS. The students, segregated into groups, had the opportunity to observe experiments in the fields of cytogenetics, plant tissue culture, molecular biology and animal cell culture. Some of the demonstrations included methods to extract DNA from onions, visualize various cells (plant, animal) under the microscope and differentiate between the male and female chromosomes. The students also had an interactive session with the chief guest of the morning, Mr. Chakravarty Sulibele. During the course of the afternoon the students had the opportunity to observe various model organisms (mice, rat, zebra fish, fruit fly etc.). They also observed how tissue and cell culture techniques were performed. They were also shown science videos related to the laboratories they were in.

Having had a day full of activity, the students had a break in the evening, allowing them to reflect on the day that they had before preparing for the days ahead.

28th May 2013

The activities of the day started early in the morning as **Mr. Sridhar** (Physical Director, KMC) took the students to refresh their Mind, Body and Soul, where he imprinted the necessity of having a sound body in good health. Having had a refreshing start to their day, the students eagerly assembled for the talks by mentors at the Interact Building of Manipal University.

The mentors' session started with a presentation by **Dr. Sridhar Murthy** (Adjunct Faculty, NIAS, Bangalore; formerly of ISRO, Bangalore). A man with expertise in

space commercialisation and space policy, Dr. Murthy initiated his talk about the leading role of India on rocket technology and current status on launching Remote Sensing Satellites. He recalled the father of Indian space program, Prof. Vikram Sarabhai's contribution to India's own independent space program, reminiscing about the launch of 'Aryabhata' in 1963. He explained the technological improvements, advantages and utility of liquid-fuel and solid-fuel rockets. He provided details on the equatorial and polar orbits on which satellites rotate the Earth. He informed the audience that the geo-stationary satellites move along with the Earth and henceforth, we see them at a fixed position from Earth. He talked about communication and INSAT satellites which possess 15-16 years of general life span. He listed the applications of these satellites, which elicited interesting questions from the students.

That interesting talk was followed by another one by **Dr. GK Prabhu** (The Registrar, Manipal University) titled "6 'I's: Inspiration, Imagination, Ideation, Invention, Innovation and Incubation". Being a Bio-medical Science expert, he explained each one of the 'I's with an example from medical field. He interspersed each of these points with relevant heart-warming stories of his own past as well as famous folk tales. The talk was interactive wherein the students participated enthusiastically in sharing their thoughts and replied to all of his questions with ease. He ended the talk by stressing upon how important one's social behaviour is, as it would lead to multiple opportunities that they otherwise would not have had. The presentation was well appreciated by the participants, which was reflected in the final feedback.

The morning session concluded with an expert lecture by **Dr. NS Raviraja** (Stempeutics, Manipal) on the basic aspects and applications of stem cells, which opened up a new vista for the young participants. Titled "Stem Cells and Applications", the talk was a roller coaster ride in the wonderland of stem cells with funny, interesting and inspiring elements. He started the talk by explaining the formation of zygote, a single cell which has the capability and potency to divide and form different tissues, organs and a whole new organism. He explained the different potency levels that a stem cell can have; the different types of stem cells and described how they differentiate. He elucidated the applications of stem cells in disorders like diabetes, arthritis, Alzheimer, ischemia and myocardial infarction. He inspired the participants by sharing the success stories of Nobel winners (2012), Sir John B. Gurdon and Shinya Yamanaka, in developing induced pluripotent stem cells. He concluded the talk by discussing ethical concerns. The fascination of the participants for this talk was reflected in their interaction and feedback.

After the lunch break, the students visited MLSC for a second set of demonstrations and experiments. Students, segregated into groups, learned through observation of experiments and other demonstrations as was done the day before.

29th May 2013

As they did the previous day, the students started early for their physical and mental refresher stint with Mr. Shridhar, as part of the Mind, Body and Soul session.

The first talk of the day at the Interact Building was by **Dr. R Shankar** (Department of Marine Geology, Mangalore University), titled “Story of the Ocean”. He started with how the oceans were formed and introduced the audience to significant facts and findings about ocean and earth surface from a geological point of view. An expert in Marine/Estuarine Geochemistry, Environmental Magnetism and Paleoceanography, he spoke on the study of history of ocean in geologic past with regard to circulation, chemistry, biology, geology etc. He gave glimpses of the vast store house of resources in oceans. He provided information about area, average depth, deepest part of ocean & about earth crust, water current etc. Dr. Shankar also spoke on the mineral contents in the various divisions of oceans, and about ocean thermal energy conversion (OTEC). Also he informed the participants about the Law of Sea treaty (1982) and the rules/regulation under this law. Finally he threw some light on the scientific basis for the occurrence of Tsunami, the conditions that favour, the speeds and heights that the waves reach, etc. This led to interesting questions and interactions among the audience.

After the story of ocean, the students were faced with a subject that usually feels like an ocean, but in the expert hands of the mentor, **Dr. CS Yogananda** (Professor and Head, Department of Mathematics, Sri Jayachamarajendra College of Engineering, Mysore), it was made easy. His emphasize during the talk was on creativity in mathematics and its importance. Giving an interesting example of a problem to find the center of the wheel, he described the significance of the right angles. He justified that the center of the wheel or a circle can be precisely determined by marking the diagonal using a right angle on the circle and joining them. He also spoke about the value of π (Pi), number theory and Kaprekar number. The talk was made more attractive by narration of lives of CP Ramanujam and GH Hardy. Another interesting concept which he spoke about was the Twin prime conjecture. He described specific examples and asked the students to come up with more of such and even creative examples, which they did with great gusto. He concluded his talk by advising students to generate mathematical problems themselves and not to depend on the text book examples alone.

After a short break, the focus shifted from mathematics to a talk by **Dr. Sudhir Krishna** (National Centre for Biological Sciences, Bangalore), who spoke on “Ideas, Progresses, and Challenges in Cancer Biology”. He gave a brief introduction to epidemiology of sexually transmitted diseases and the discovery of the viruses inducing cell transformation. He then highlighted studies carried out by several scientific groups to show how viruses are responsible to induce a cancer-like state in the cells, by integrating viral DNA into the host DNA. He touched upon cancer stem

cell hypothesis and gave glimpses of his work related to signalling in human cancers and how it can be targeted for therapy and clinical translation. His simple way of explaining complex topic appealed the students and led to a constructive discussion.

After the talks by mentors, students set on an educational trip to **PilikulaNisargadhama**, a biological park on the outskirts of Mangalore. The park houses various wild and domestic animals, birds, reptiles and amphibians. The students (*most of them*) were astounded to see lion prides, tigers, sambars, parakeets, eagles and other diverse animals. But they had their breath taken away by the huge collection of snakes that were on display in the herpetological section of the park. Due to time constraint, the students were unable to visit the mammoth botanical gardens of Pilikula. Nonetheless, they had a whale of a time and returned to MIT food court to wolf down their dinner.

30th May 2013

The day started once again with the thought of ‘Mind, Body and Soul’ training, but due to incessant overnight rain the students got to stay in bed a bit longer(which they relished).

The first mentor to interact with the students was **Dr. P Kondaiah** (Indian Institute of Science, Bangalore) on the title “Research for a Purpose”. The talk started with the basic premise of how research has to be carried out pursuing one’s own curiosity to find answers to questions hitherto unknown. A researcher has to carry out careful observation of a system. Based on the data, a hypothesis is formed and a mechanism is drawn out to explain the phenomena. Thus research can be categorized into curiosity-based and need-based research, the latter being the need of the hour. Dr. Kondaiah described the 3 forces driving excellence in research namely passion, self-motivation and freedom to think. He told the participants “Research is not a job”, but the fruits are rewarding nonetheless. The talk was interspersed with questions to students. The enthusiasm and scientific thinking of students was for all to see and hear. Basic fundamentals of cancer biology were very well explained by the speaker and the enigmas of the field were discussed. A question and answer session at the end of the talk was very productive and the queries from the students were thought provoking.

If the first talk was on the ‘what and how’ of scientific research, the next talk of the day was about learning life skills. A renowned literary critic and educationist, **Dr. Mahabaleshwar Rao** (Retd Principal, Dr. TMA Pai College of Education), spoke on the required and acquired life skills, based on the same formulated by the World Health Organization in 1997. These skills help an individual to adapt to any life situation and lead a prosperous life. He described the 10 life skills as critical thinking, decision making, creative thinking, problem solving, control of emotions, stress management, communication, inter-personal relations, self-awareness and empathy.

Motivating the students with canny examples from all walks of life, he stressed the need for target-oriented approach. While mildly critical of the current education system for not being practical enough, he nevertheless encouraged the students to practice these value-added skills for their betterment.

The conclusion of the two talks led to a small convenience break, wherein the students partook of refreshments. This was followed by an impromptu quiz based on the lectures and demonstrations from the previous days of the camp. Students actively participated and the winners were to be felicitated during the valedictory function.

After a sumptuous lunch, the students visited SLS for a series of scientific demonstrations, models explaining basic concepts in science. They learnt, through observations, the method to detect blood groups, sequence DNA. They also watched scientific videos pertaining to space research, information technology, spread of viral infections etc. This was followed in the evening by a cultural program that included magic show, mimicry show, shadow show, and also dance, singing and skits by the participants. An elated and relaxed group of participants and volunteers enjoyed the dinner before retiring to the comforts of hostel rooms.

31st May 2013

The final day of INSPIRE 2013 started with the same zeal by the students, who assembled at the Interact Building for their interactions with the mentors. **Dr. Ananth Raj** (VGST, Govt. of Karnataka) was the first speaker of the day. An expert chemist by profession, he spoke on the need to reform classroom teaching of chemistry especially at schools. In an anecdote-filled hour, he gave alternate, practical and alluring examples for many things chemistry such as asymmetric carbon, Grignard's reagent, Boyle's law etc. from blowing a balloon to Republic Day of India. He made the students inquisitive about the chemical aspects of day-to-day life and lent another perspective to teaching and learning.

After that entertaining and enlightening lecture, it was the turn of **Dr. KM Balakrishna** (Mangalore University) to educate the participants on nuclear radiation. Titled "Nuclear Radiation, Detection and Economical perspectives", his talk started with the basics of electromagnetic spectrum and nuclear radiation. He covered the different sources and types of nuclear radiation and mentioned about the different types of detectors used for the detection of radiations such as gas-filled detectors, scintillation detectors and semiconductor detectors. He then emphasized on the different uses of the radiation in the field of medicines and industries, culminating in a discussion of the need and safety of reactors, which elicited reactions among the students.

The end of the morning session brought the students to enjoy their lunch, following a visit to the Anatomy museum of the Manipal University. They also visited the Planetarium in the campus and were impressed by the show and the display. After a

couple of administrative events, the students were ready for the valedictory function at the Fortune Inn Valley View.

The Govt. of India through its Department of Science and Technology (DST) is sponsoring various scholarships and assistance for youngsters between 10 and 32 years of age to pursue and excel in various fields of science. A detailed list of the various programs available was presented by **Dr. A Mukhopadhyay** of DST (Advisor, SERC Division) during the valedictory function of INSPIRE 2013 at the Fortune Inn Valley View. While providing details of the various programs and assistance that the DST was providing to students from their high school till the completion of their PhD, he expressed hope that in the coming years the fruits of these incentives could be realized as the benefactors start working on progress and development in the country.

Speaking on the occasion, **Dr. Vinod Bhat** (Pro-Vice-Chancellor, Manipal University) stressed the importance of following up the initiatives of Govt. of India through such programs and wished the participants the best in their careers. He also thanked the DST for the various initiatives, which have been beneficial to students of Manipal University as well. Earlier, **Dr. BS Satish Rao** (Professor, SLS) welcomed the gathering that included various heads of institutions of Manipal University. Dr. K. Satyamoorthy, Director of Life Sciences and coordinator of the program, along with the other dignitaries distributed the prizes held for various competitions to the INSPIRE participants. Two of the participants gave their feedback on the 5-day program. They were quite enamoured to be in the presence of several mentors, who lectured on interesting topics and interacted with them during the course of the program. They were also impressed by the practical aspects and demonstrations of various scientific theories which they had learnt in schools. They thanked the organisers for taking care of their accommodation, travel and food arrangements for the entire period their stay at Manipal. **Dr. Herman D'Souza** (Associate Professor, SLS) delivered the vote of thanks.

The students, whose travel and accommodation charges were met through funding by DST, returned to their hometowns on 31st May and 1st June 2013.

F. CULTURAL ACTIVITIES

The Cultural coordination committee (CCC) of Manipal University is the main organizer of cultural activities at University and it is very active with good number of programs throughout the year for students and general public. The various activities organized by CCC may be broadly categorized under SPIC MACAY activities, Gunjan activities, Student affair activities, and other cultural activities

SPIC MACAY – Indian Classical and folk music and dance performances/ lecture demonstrations by artistes of international repute are held. There is an active chapter of SPIC MACAY (Society for Promotion of Indian Classical Music and Culture Among Youth), which is functioning under the Cultural Coordination Committee and is part of a national network of chapters. SPIC MACAY introduces traditional Indian culture to the youth of this country with the hope that the wealth of knowledge, wisdom and beauty that it encompasses will become an integral part of their lives. Classical Indian music and dance, carrying with them generations of wisdom, are the chief mediums for creating a cultural awareness in students and general public. The greatest living exponents of these art forms travel to schools and colleges throughout the country demonstrating and teaching Indian culture. This provides an opportunity for the students and local budding artists and general public to interact with the artistes and benefit from their experience. SPIC MACAY has no racial, regional, political or religious affiliation. All are welcome to its fold.

GUNJAN - is a forum exclusively dedicated to Indian music floated with the aim of bringing together music enthusiasts on a common platform to enjoy and appreciate music regularly.

The forum promotes the following genres of Indian Music: Hindustani Classical Music,

Carnatic Classical Music, Semi-classical Music, Ghazal, Sufi, Quawaali, Devotional Music, Light Music. Under this forum, only local artistes are invited to perform. This is also a platform for talented staff and students of the University to exhibit their talents. Since the idea is to bring musicians and music lovers closer, the performances take the form of chamber concerts and not stage.

G. COMMUNITY DEVELOPMENT ACTIVITIES

- 1) **Contribution to Human Development Index Report (HDI):** Department of Public Health, KMC Manipal is supporting District Administration in preparing Udupi District Human Development Index (HDI) Report.
- 2) **School Health:**
 - **Screening refractive errors among school children:** Early detection of refractory errors among school children in Udupi and made appropriate referrals. More than 3000 children were examined.

- **Cardiac Screening for Children:** School children were screened for congenital heart disease. This was done in government schools in Udupi district in which 3000 children were screened.
- **Health and Nutritional status of school children:** A state wide screening of nutritional status of school children was done on children receiving mid-day meal. In this, 79000 children were covered.
- **Adolescent health:** Department has participated in school health (Adolescent Girls) program called Meena Mela under Sarva Siksha Abhyana.
- **Health education:** Various health education program has been conducted by the department especially on Malaria, Hygiene and Nutrition.

3) **Monitoring and Evaluation of Government Health programs**

- **Monitoring of Pulse Polio program:** Participated in the external monitoring for pulse polio program in Udupi District. The monitoring report was submitted to WHO polio surveillance officer.
- **Evaluation of Mass Drug Administration for Filariasis:** Ministry of Health and Family welfare entrusted department of Public Health to carry out evaluation of Mass Drug Administration for Lymphatic Filariasis in Bijapur, Bagalkot and Udupi. Report was submitted to Ministry of Health and Family Welfare, Bangalore. During this household members were imparted knowledge on Filariasis transmission, prevention and importance of mass drug administration.
- **Lymphatic Filariasis Survey:** Over 200 individuals were examined for Lymphatic Filariasis and its morbidity patterns in Udupi District.
- **Evaluation of Child Protection Systems:** The department of Public Health (by Social work) has taken up an assignment to provide technical support for preparation of the District Child Protection plan (child protection issues) in co-ordination with women and child welfare department, Udupi District

- 4) **Capacity building initiatives:** Medical officers from 3 districts namely Mangalore, Karwar and Udupi districts were trained in Public Health in emergencies. School teachers were trained regarding HIV/AIDS under school AIDS education program.

- 5) **Tribal Health:** More than 700 koraga women's were examined and Hemoglobin level was estimated by using Haemocue method. Health Education on anemia was imparted to all tribal women on how it can be prevented.
- 6) **Cancer Registry:** Population and Hospital Based Cancer Registry program is initiated to assess the pattern and trend in cancer in Udupi District. Department of Public Health is contributing cancer data to National cancer registry programme (ICMR).
- 7) **Health camps:** The Department is conducting various health camps in Udupi and neighboring Districts as part of community outreach program.

H. MUSEUM OF ANATOMY AND PATHOLOGY

The renovated anatomy and pathology museum of Manipal University was inaugurated by Dr Rajendra K. Pachauri, Director General, The Energy and Resources Institute, New Delhi on November 10, 2012 at 12 noon.

The museum will be known by the acronym MAP – Museum of Anatomy and Pathology. Started in the early 60s by the noted anatomist, Dr S.S. Godbole, the huge collection, of about 3000 original specimens, is an asset which Manipal University can boast of as, perhaps, being the only one of its kind in Asia.

For students, it is a wonderful learning aid and for the visitors, MAP is a storehouse of knowledge. The specimens have been there for close to 40 years. The renovated museum with its new magnificent ambience will be an added attraction for the hundreds and thousands of visitors.

The museum is divided into two main sections: Anatomy and Pathology. The anatomy section displays specimens of normal human body parts and organs in manner which makes it easy to understand. Each organ system of the human body can be explored as a separate entity. Every bit of the body is displayed from head to toe from different sections.

There is a section on comparative anatomy, where large collection of animals, their skeleton and bones are displayed. The museum of Pathology displays diseased body parts and organs. The section on life-style related diseases displays specimens of diseases that occur in humans.

In addition to the specimens, there are graphics and lot of other information for even a layman to read and understand. That makes the museum all the more interesting. A walk through it provides a wealth of knowledge on human body.

The museum is a source of tremendous inspiration and knowledge to anyone who visits it. It is not only open for the students and staff of the University, but also to the public at large. Lakhs of students from all over Karnataka visits this museum every year as a part of their educational tour.

I. WORLD ENVIRONMENT DAY

Manipal University observed the World Environment Day by sharing the go green message with several hundreds of students, staff and others at End Point on June5, 2013. Students drawn from the Academy of General Education, Dr TMA Pai Foundation and the university campuses, both Manipal and Mangalore, took part in the annual programme. Forty medicinal, fruit and flower bearing saplings were planted and another 20,000 will be planted in and around the campus during the next one year.

Every year, a student of one of the schools speaks on the environment and this year it was Aditi Kiran Acharya of Indrali English Medium High School who gave the message. She spoke eloquently on the subject and emphasized her point citing a home truth. “It is high time we stopped polluting our Earth for we have nowhere else to go,” she said. “Greenery and gardens are missing from our Metros. Instead, there are miles of concrete jungles today in the name of development and progress”. The dwindling forest cover and global warming will harm us. “By harming the environment, we are harming ourselves,” Aditi said. She referred to Ajjarkad in Udupi, which according to the old Tulu name meant a forest as big as six villages. The forest does not exist now.

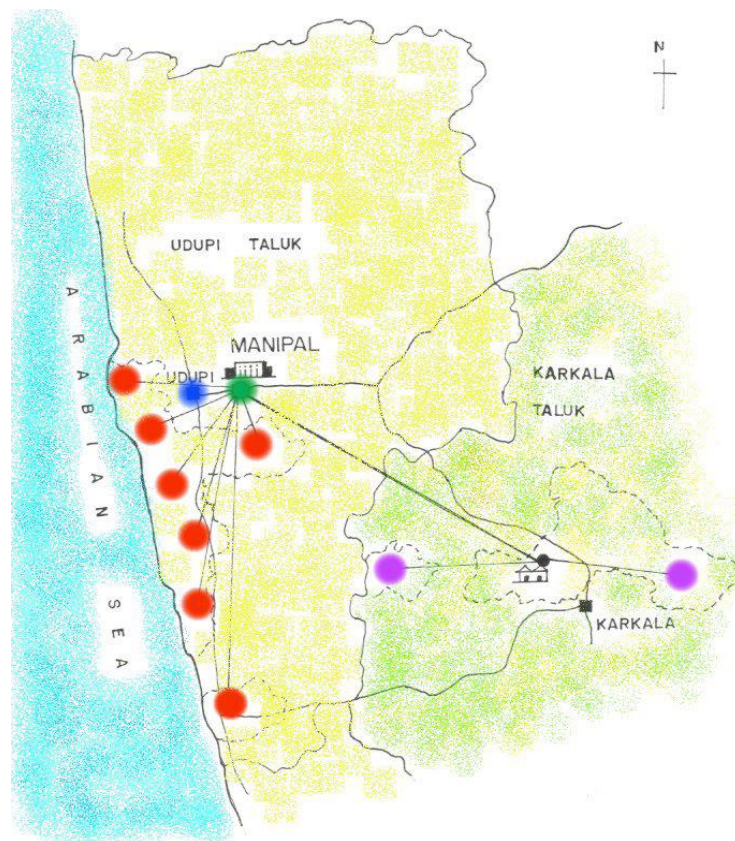
Pro Chancellor Manipal University, Dr H.S.Ballal in his address created awareness among the students on the significance of the day by explaining the measures taken by Manipal University to ensure a green campus. “Conservation of water, rainwater harvesting, use of solar energy to heat water, recycling of wastes to make fertilizer etc. are some of the ways adopted by the University to turn this barren hilltop green,” Dr Ballal said. Earlier, Mr M.V. Kamath, honorary director of School of Communication and veteran journalist flagged off a rally by the students from the university building. Pro Vice Chancellor, Dr Vinod Bhat welcomed the gathering and the Registrar Dr GK Prabhu gave the vote of thanks.

J. COMMUNITY HEALTH INITIATIVES

Rural Maternity and Child Welfare Home (RMCW Home)

Historical Background:

These centers were established about 60 yrs ago by Late Dr. T. M. A. Pai, the founder of Kasturba Medical College Manipal, one of the constituent colleges of Manipal University, with active participation of the local community, at a time when the transport and communication network in the taluk was rudimentary. The centre activities have actually existed since the early 1950's. In those days the centres were run by a centre ANM and a local doctor. At present all these centres are connected to Kasurba Hospital, KMC, Manipal by road, telephone and internet.



Goal:

To improve the **Health Status** of the adopted community (Field Practice Area) and providing the opportunity for students' teaching, training and practical experience for clinical observation and community diagnosis.

Objectives:

1. To adopt a **field practice area** for the students training (Community Diagnosis)

2. To provide **primary health care services** in the field practice area through RMCW Homes and community clinics.
3. To organize screening programs.
4. To organize Health Education sessions in the community and schools.
5. To collect and maintain Socio-demographic information of the families in Family folders.

Setup:

The Field Practice area covers a population of approx. 50,000 spread out in 13 villages in the coastal area of Udipi taluk.

A network of **7 Rural Maternity and Child Welfare Homes (RMCW homes)** located at Alevoor, Kaup, Padubidri, Malpe, Udyavara, Katapadi, and Kadekar villages. These RMCW homes are under the direct administrative control of the Department of Community Medicine of the Kasturba Medical College, Manipal. It provides maternal and child health services as well as take care of minor ailments in the community.

Each centre is staffed by 2 Auxilliary Nurse Midwives (ANM), one ayah and a sanitary worker.

A team of doctors (faculty, postgraduates and interns of Obs. & Gyn. and Community Medicine) conduct weekly specialist clinics in all centres. The Clinic provides antenatal, postnatal services and care of under-fives inclusive of growth monitoring, immunization, health education etc. Besides specialist clinic, General and Community clinic is also conducted once a week in all centres where other illnesses are treated.

All services and medicines provided at RMCW homes is free of cost and Lab investigations done at RMCW homes through Accredited Lab of KH is being provided at a concessional rate.

Services Provided:

1. Maternal And Child specific health care.
2. General Health care for minor illness.
3. Screening for diseases e.g. Diabetes, Hypertension, Cancer.
4. Dental care provided by Community Dentistry Dept.
5. Physiotherapy provided by Physiotherapy dept.
6. Domiciliary MCH care and counseling.
7. Lab investigations through Accredited Lab at Kasturba Hospita.
8. Referral

Physiotherapy, Community Dentistry, Psychiatry and Pathology (Clinical Lab) departments are providing services regularly as a part of General clinics.

The Field Practice Area population is also covered under **Group Insurance scheme** provided by the **Manipal University** wherein every family is assured treatment for all ailments at concessional rates at Manipal Hospitals up to a ceiling of **Rs 30,000/ per year** for the family at Zero premium. This initiative is the part of Social Responsibility of Manipal University.

All these initiatives over the years have been able to significantly contribute to the improved health status of the Field practice area over and above the existing Govt. health infrastructure.

The health indicators achieved in this area have been almost comparable to those of developed countries.

Performance in the field Practice Area

SOCIO-DEMOGRAPHIC INDICATORS

	India	Karnataka	Udupi District	Field Practice area
Birth Rate (per 1000)	22.5(2011)SRS	19.5(2011)SRS	12.67(2010-2011)	5.7
Death Rate (per 1000)	7.3(2011)SRS	7.2(2011)SRS	6.6(2010-2011)	2.3
Perinatal mortality rate (per 1000)	35(2009)SRS	36(FWS)	10(2010-2011)	3.7
Neonatal mortality rate (per 1000)	34(FWS)	25(FWS)	5(2010-2011)	0
IMR (per 1000)	50(2011)SRS	41(2011)SRS	8(2010-2011)	3.7
u-5 mortality rate (per 1000)	64(2009)FWS	50(2009)FWS	11(2010-2011)	3.7
MMR (per 100,000)	212(2007-2009)SRS	178(FWS)	48(2010-2011)	0
Sex Ratio	940(census 2011)	968(census 2011)	1093(census 2011)	1031.5
Immunization coverage(12-23 years)fully immunized	61%(FWS)(CES)	78%(FWS)(CES)	83%(2010-2011)	100
Antenatal coverage (any antenatal check up)	75.2%(DLHS 3)	90.2(FWS)DLHS3	96.74(2010-2011)	100
Couple protection rate	40.4%(Family welfare statistics in india)	49.6(FWS)	69%(2010-2011)	61.5

FWS: Family welfare statistics

CES: coverage evaluation survey

SRS: sample registration system

DLHS: District level household survey

K. VOLUNTEER SERVICES ORGANIZATION (VSO)

About VSO

Volunteer Services Organization (VSO) is the brainchild of Dr Raj. P. Warriar, Former Vice Chancellor, Manipal University (MU) and was born in 2007 on the auspicious occasion of the birthday of our Chancellor Dr Ramdas Pai on September 17. VSO was initiated to provide an opportunity to students to serve the society. VSO is presently guided by the honourable chairman, Dr K. Ramnarayan, Vice Chancellor, Manipal University. With volunteers strength of more than 1300 (including students, faculty & their spouse), VSO undertake projects which cover community, organizational and soft skills avenues. Projects are also planned in collaboration with the clubs/organizations of the constituent colleges of Manipal University and executed with the support from University.

Mission Statement

VSO aims to develop the spirit of selfless service by responding to the community's needs, addressing the issues of society, and developing the leadership and learning skills of the volunteers. Students, faculty, and staff strive to ameliorate the conditions of the impoverished and the less fortunate. We come together in hopes of forging a path to a better society.

Objectives

To respond to community needs

To address the issues of society

To develop the leadership potential of the students

To enhance student learning

Regular Programmes

Weekly Programmes/Visits:

Nittur State Home for Children (Saturday, 2.30 pm-4.30 pm)

ASARE, school for special children (Saturday, 3 pm-5 pm)

Pediatric Ward of Kasturba Hospital (Sunday, 3.30 pm.-5.30 p.m.)

Pediatric Cancer Ward of Shirdi Sai Baba Cancer Hospital (Sunday, 3.30 pm-5.30 pm)

Sri Krishna Balaniketan (Sunday, 2.30 pm-4.30 pm)

Clean Manipal Campaign (Sunday, 5 pm-7 pm)

Film screening at Cancer Ward (every fortnightly, Sunday, 2.30 pm-5.30 pm)

Special Programmes

Spoken Kannada Classes

Birthday Celebration at Orphanages (every month, last Sunday)

Health Camps for underprivileged people

Blood Donation Camps

Collection drives (clothes, stationary, toys)

Theatre & drama workshops for children

SPARSH – annual fund raising cultural show

L. COMMUNITY BASED SPORTS ACTIVITIES ORGANIZED BY MANIPAL UNIVERSITY

1. Conducting Marathon in association with Udupi District Athletic Association – 01.04.2012
2. Organizing summer coaching camps in Cricket, Basketball, Badminton, Swimming and certain others activities for the children of Udupi District 7th to 30th April 2012
3. Provided Infrastructure for Manipal Ayurveda College cricket- 30.04.2012 & 02.11.2012
4. Provided Infrastructure for Udupi Cricket Association cricket tournament – 3rd to 6th May 2012
5. Provided Infrastructure for Netaji Sports Cricket tournament – 02.05.2012, 13.05.2012 & 18.05.2012
6. Provided Infrastructure for K.R.S. Katapady cricket tournament – 14th to 16th May 2012
7. Provided Infrastructure for LIC badminton tournament -26th& 27th June 2012
8. Conducting Swimming competition for Primary and High school Boys and Girls of Udupi District.- 07.09.2012

9. Conducted Swimming for Special Children
10. Provided Infrastructure for LIC Divisional Level Athletic Meet – 09.09.2012
11. Provided Infrastructure for LIC South Central Zonal level athletic Meet – 11th & 12th October 2012
12. Conducting Udupi District Basketball tournaments with Udupi District Basketball Association to under 13, under17 and above 17 years for Boys and Girls.
13. Conducting cricket tournaments in Association with Udupi District Cricket association for High school students and Primary students of Udupi District.
14. Organizing Corporate Cricket matches with the help of students of Department of Commerce.
15. Organizing cricket coaching camps in Association with KSCA Mangalore Zone.
(i.e., Royal Challengers Cricket Camps)
16. Organizing various activities for Hemophilia patient in association with Hemophilia society.
17. Workshop on “Professional and personal development” for Department of Physical Education staff and MARENA Trainers, Manipal and Mangalore - 4th December 2012
18. Conducted South Zone and Inter Zone Inter University Cricket tournaments. - 15th to 30th December 2012
19. Provided logistic support to SAI (Sport Authority of India) to organize 6 week Certificate course in Tennis and Swimming in Manipal Campus
20. Conducted REVELS- Inter Engineering Tournament - from 27th to 31st March 2012
21. Conducted MIST 2013 – Inter Medics tournament – 21st to 26th April 2013

M. POLLUTION CONTROL

Emission Test Center facility

In order to reduce emissions by vehicles within the campus, vehicle movement is restricted wherever possible. Mandatory Pollution Check is required for vehicles entering the campus. Moreover the University has provided a vehicle emission test centre at subsidized rates (50%) for all public vehicles.

In FY 2012-13 mandatory pollution checks were carried out for 2592 petrol vehicles, 35 vehicles did not pass the test and were rejected.

N. HEALTHCARE FACILITIES AT AFFORDABLE COST

Manipal Arogya Suraksha.

It all began a few years back when the promoters of Manipal started realizing what is being offered as free medical facilities is not adequate and the need for reaching out to suffering people in remote and deprived locations was given due consideration.

To fulfill this social obligations, Manipal University after evaluating many models and options came up with a dynamic and self-sustaining rural healthcare delivery model that addressed the key issue most effectively. The result was a novel scheme called “Manipal Arogya Suraksha scheme” - a comprehensive healthcare facility aimed at providing quality healthcare at affordable cost. This facility was initially extended to the Konkani speaking communities and there after due to its great success was extended to all the people living in rural areas irrespective of the linguistic communities.

This most successful rural healthcare initiative of the University is considered as one of the best healthcare models initiated by a private sector organization.

The scheme started in the year 2005 has become a great success for it has made available quality healthcare facilities at most affordable cost.

Under this scheme each family can avail medical facilities of up to Rs.30, 000=00 per year in case of in patient services on a floater basis and unlimited OP facilities at concessional fee.

Other major highlights of Manipal Arogya Suraksha are:

1. Pre-Existing Diseases are covered from day 1.
2. Maternity benefits from Day 1.
3. Cashless settlements.
4. Option to avail higher ward facility by payment of differential cost.
5. Entry age from 90 days to 90 yrs.

Many NGOs and Associations have shown keen interest to partner with ManipalUniversity in extending this novel scheme to unrepresented areas. Upon careful evaluation ManipalUniversity has considered their requests and has enrolled thousands of beneficiaries’ under the scheme.

“Manipal Arogya Suraksha” Scheme although was aimed at a particular linguistic community has now been extended to all communities from predefined regions.

The member base is a mixture of both BPLs and APL families has now touched 3.08 lakh lives comprising of about 77000 and odd families. The presence of Manipal Group Hospitals numbering 6 in the command area has made it so convenient to the members to avail the required medical facility - be it at primary or tertiary care level with such ease and comfort.

Manipal University has extended medical benefits to the tune of Rs. 24.96 Cr in the last 30 months alone which includes Rs.7.3 cr worth of benefits extended to the members for the last year. Over 26596 members have availed OP & IP facilities thus far under the said scheme. Last year alone, the university has paid a premium of about Rs.9.00 cr for this programme.

O. RURAL STUDIES

The **Centre for Rural Studies (CRS)** is a '*Social Science Research Wing*' of Manipal University. It has designed and executed various activities/programmes which revolved its objectives of 'Training', 'Research', 'Extension' and 'Consultancy' in the field of 'Rural Development' and 'Rural Reconstruction'.

These two postgraduates have been serving the Centre as 'Research Associates' since April 5, 2005. They are expertise in social science fields like teaching, research, survey, rural development, consultancy, extension works etc.

I. Teaching/Faculty Achievements

- Mr. Showrish Kudkuli and Dr. Denita Usha Prabha have taken classes for 'Field Animators' (50 no's) of Annual Status of Education Report, Trade License and Differently Abled Citizens Training/Orientation programme held at BoP, Manipal University in January, June and October respectively.
- Mr. Showrish Kudkuli has served as a Member of 'State Core Committee' for Annual Status of Education Report (ASER)-2012. He served as State Level Resource Person during Karnataka State Training for ASER held at Dharwad (September-October, 2012).
- Dr. Denita Ushaprabha has co-ordinated Udupi district ASER programme as 'Master Trainer' who was appointed by ASER Centre, New Delhi during October-November, 2012.
- Research Associates' were participated in teaching, UGC sponsored seminars and various workshops and conferences apart from the research activities.
- Research Associates' have been writing articles in the field of '*Panchayati Raj*' and '*Status of Primary Education*' in the State of Karnataka especially in 'Kannadaprabha' 'Salu hejje' e-magazine apart from the research activities.
- Mr. Showrish Kudkuli took classes in Karnataka State Level ASER Training held at Dharwad in September, 2012

II. Research-Ph.D Award

- Ms. Denita Usha Prabha was awarded Ph.D degree from Dept. of Sociology, Mangalore University in the year 2012. Her Ph. D. thesis title is- '*The Role of Kudmul Ranga Rao in the Empowerment of Depressed Classes in Coastal Karnataka- A Study*'
- Mr. Showrish Kudkuli Research Associate of the Centre has submitted his thesis entitled: '*The Political Empowerment of Dalit Women through Panchayati Raj System in Coastal Karnataka*' to Dept. of Political Science, Mangalore University in July, 2012.

III. Training Programme

- Field Animators Training programme was organized at BoP, Manipal University to train volunteers who have been collected the data/information pertaining to the research project titled '*Trade License Survey*'-in 35 Wards of Udupi City Municipal Council (UCMC). It was organized in the month of January, 2012
- Orientation programme was organized for Volunteers who have been collected the data for 'Differently Abled Citizens' Survey'- a research project sanctioned to BoP, Manipal University.
- The Centre assisted and co-ordinated '*Three Days Udupi District Level Training*' for ASER volunteers to take up field survey in 30 villages of Udupi district. Student volunteers from Dept. of Public Health, Govt. First Grade College (PG Studies), Tenkanidiyoor, Bharat Nirman Volunteers have been participated. It was held in the month of October, 2012.
- For Udupi district, 60 ASER volunteers were participated.

IV. City Municipal Council (CMC), Udupi

1. Trade License Survey (TLS)

Key Points

Trade License Survey (TLS) is the baseline study which was sanctioned to BoP, Manipal University by CMC, Udupi and executed by Mr. Showrish Kudkuli and Dr. Denita Usha Prabha in 35 Wards of CMC. Lack of adequate data on various trades or shops and public institutions under its jurisdiction was the research issue. To fulfill this vacuum, CMC has decided to conduct a baseline survey.

Title: Trade License Survey of Udupi City Municipal Council, Udupi
Funded by: Udupi City Municipal Council, Udupi
Executed by: BoP, Manipal University, Manipal through Mr. Showrish Kudkuli & Dr. Denita Usha Prabha
Project duration: 10 months
Area of Study: All 35 Wards of Udupi City Municipal Council, Udupi
Field Animators: 50 (from different educational background)

Outcome: Based on the study undertaken, CMC has a total of 6642 trades or business shops. This is first step in the administration of CMC that all trades segregated by its types and wards. BoP has submitted the ward wise list of different types of trades or shops to CMC as part of its obligation.

The major outcomes from the study are:

- ▶ Totaling 6642 trades or shops have been identified. Out of this, 6188 are commercial trades and 453 are public institutions such as banks, schools, religious institutions, youth organizations etc.
- ▶ 1058 trades do not have door numbers either not provided by CMC or not eligible to get it.
- ▶ 2815 trades do not have license from CMC but still they are continuing.
- ▶ 3594 trades have not renewed their license during the year 2011-12.

2. Differently Abled Citizens' (DAC) Survey

In this study, both mentally and physically challenged persons have been considered as 'Differently Abled Citizens'.

Objectives

1. To collect information on socio- economic and individual conditions of differently abled citizens in Municipal area
2. To identify the nature and type of disability
3. To gather information on various government facilities obtained by differently abled citizens
4. To list out the various government and non-governmental organizations in connection with differently abled citizens
5. To consolidate the problems faced by differently abled citizens and their demands

Title: Differently Abled Citizens' Survey of Udipi City Municipal Council, Udipi

Funded by: Udipi City Municipal Council, Udipi

Executed by: BoP, Manipal University, Manipal through Mr. Showrish Kudkuli & Dr. Denita Usha Prabha

Project duration: 08 months

Area of Study: All 35 Wards of Udipi City Municipal Council, Udipi

Field Animators: 20 (from different educational background)

- In total-447 Differently Abled Citizens' details have been recorded and submitted the data to CMC in December 2012.
- DAC Survey Report includes
 - All 35 wards have been covered

- Field Animators have been identified and trained one time
- Paper notification for identifying differently abled citizens was used as methodology to collect information
- Out of 447 disability people (both mentally & physically), 260 are males and 187 are females.
- There are three institutes information have been collected who have been rendering good services for disability citizens like ASARE, ASHA NILAYA & SPANADANA.
- Each disable persons' photos have been incorporated in the report for identification.

■ Various works under the DAC research project included the following:

- Preparatory meeting with District and Urban Cell officials, CMC officials (Commissioner/Bill Collectors and others) etc.
- Preparation of questionnaire.
- Identification of field animators.
- Training for field animators.
- Execution of survey.
- Collection of information.
- Data compilation.
- Analysis of the results.
- Submission of report.

V. ASER Centre-New Delhi:

Assessment | Survey | Evaluation | Research (ASER)

ASER-Annual Status of Education Report is the national report on Elementary Education in India. Every year since 2005, it has been conducting in all states of Indian Union. Mr. Showrish Kudkuli Research Associate has been appointed as ASER Associate for the period of 2008-2010 for Karnataka State. For the year 2012, he has been identified as one of the Members of State Core Team for ASER in the State of Karnataka. Simultaneously, he has also been recognized as Advisory Committee Member for the State of Kerala.

ASER Activity in Karnataka

- Mr. Showrish Kudkuli has been participated in four days Karnataka State Level Master Trainers Training as a Resource Person which was held at Dharwad in September 2012.
- Mr. Showrish Kudkuli has co-ordinated ASER activities in the three districts of southern Karnataka namely Udupi, Uttara Kannada and Dakshina Kannada.
- Dr. Denita Usha Prabha has been identified as a 'Master Trainer' for Udupi district ASER in September-November, 2012 by ASER Centre, New Delhi.

ASER Activity in Kerala

- ❖ ASER Centre, New Delhi has appointed Mr. Showrish Kudkuli as Advisory Committee Member for the state of Kerala during 2012. He has participated and monitored Kerala State Level Training held at Trivandrum in the Month of October 2012.
- ❖ He has co-ordinated five districts district level training out of 14 districts during October-November 2012.

VI. Workshop attended/Consultancy

- Mr. Showrish Kudkuli has presented a paper on 'Right to Education (RTE) at School Development and Monitoring Committee meeting held at Karkala in August, 2012. It was organized by District Education Resource Centre, Udupi.
- Mr. Showrish Kudkuli has presented a paper on 'Gandhi and Gram Swaraj' and 'Discourse on Panchayati Raj' held at Kondajji, Davanagere on March 18-19, 2012.
- The Centre is closely connected to ANSSIRD, Mysore; DEEDS, Mangalore; Akshara Foundation, Bangalore; VALORED, Mangalore and other important organizations and the Research Associates of the Centre keeping on participating said organizations' workshops/seminars.

VII. Tie ups for the centre.

• Tie up with Labournet, Manipal- Manipal Foundation

- As part of the Centre's extension activity, Mr. Gururaj Acharya represented from Labournet visited the Centre and requested to identify self interested candidates for 45 days training programme.
- Labournet (formerly iRize) is a private initiative supported by Manipal Foundation based at Bangalore. To identify job vacancies and giving training to unemployed candidates is the basic motto of Labournet.
- Mr. Gururaj Acharya visited BoP, Manipal University and addressed trainees in Technology Based Entrepreneurship Development Programme (TEDP). This TEDP was co-ordinated by Research Associates' of the Centre in December, 2012.

• Tie up with Community Radio, Manipal University

- ❖ The Centre is closely connected with Community Radio, Manipal Institute of Communication (MIC), Manipal University under various programmes.
- ❖ Mr. Shyam Bhat, Co-ordinator, Community Radio visited BoP, Manipal University and addressed our TEDP course participants in December, 2012.
- ❖ Mr. Shyam Bhat recorded trainee's opinions towards self employment and telecasted the same in Radio which supports to trainee's to go ahead for self employment as well.

- **Tie up with Akshara Foundation, Bengaluru**

- The Centre has been actively involving with the activities of Akshara foundation since 2006.
- In 2012, a new initiative launched—‘Nagu Naguta Ganita’ by Akshara Foundation in the State. The centre has taken initiative to give Nagu Nagu Ganita Kit to few schools in Udupi district.
- ‘Nagu Naguta Ganita’ is one of the methods to solve mathematical problems. It is very helpful to the rural students in primary schools.

- **Relations with other wings of University**

During the year 2012, the Centre was continued its relations with other wings of University:

- ✓ SCHOOL OF INFORMATION SCIENCES (SOIS), MANIPAL UNIVERSITY
- ✓ INFORMATION SYSTEMS DEPARTMENT , MANIPAL UNIVERSITY
- ✓ BOP, MANIPAL UNIVERSITY
- ✓ DEPARTMENT OF PUBLIC HEALTH (MASTER OF SOCIAL WORK), MANIPAL UNIVERSITY
- ✓ COMMUNITY RADIO, SCHOOL OF COMMUNICATION, MANIPAL UNIVERSITY

Others

- Bharathiya Vikas Trust (BVT), Manipal.
- ASER Centre, New Delhi
- PRATHAM, Mysore
- Udupi City Municipal Council, Udupi
- Department of Education, Udupi district.

VIII. Resource Centre

- The Centre provided academic support to Master of Social Work (MSW) students of Govt. First Grade College, Tenkanidiyoor Udupi in 2012.
- Students, researchers (MU and outside) including M.A/Ph.D scholars and others availed the benefits from the Centre.
- Non-Governmental Organisations, Voluntary Agencies, Village Institutions availed benefits from the Centre.

IX. Reports released

The Centre was released the following ‘Research Reports’ during the year 2012.

<i>Research Project</i>	<i>Submitted to</i>	<i>Month and Year</i>
Trade License Survey-A Complete Report of 35 Wards of Udupi City Municipal Council, Udupi (through BoP).	Udupi City Municipal Council, Udupi	July, 2012
Annual Status of Education Report (Udupi District) of ASER Centre, New Delhi.	Akshara Foundation-Dharwad-ASER Centre, New Delhi	November, 2012
Differently Aabled Citizens (DAC) Survey (35 Wards) of Udupi City Municipal Council, Udupi (through BoP).	Udupi City Municipal Council, Udupi	December, 2012

XIII. Funding Agencies

- ❖ ASER CENTRE, NEW DELHI.
- ❖ AKSHARA FOUNDATION, BANGALORE/DHARWAD.
- ❖ UDUPI CITY MUNICIPAL COUNCIL, UDUPI.
- ❖ PRATHAM, NEW DELHI
- ❖ BO P, MANIPAL UNIVERSITY

P. PROMOTING ASTRONOMY

Dr. T. M. A. Pai Planetarium, Manipal University, Manipal

This planetarium, located on the banks of the scenic Manipal Lake, is dedicated to Dr. T. M. A. Pai - who devoted his life to the social and economic development of the community, as well as blazing trails in the history of education in the country.

The main objective of the planetarium is to popularize astronomy among the masses and to stimulate an interest in star-gazing. This is part of an endeavour to promote science and scientific thinking among the general public, especially the young.

The planetarium conducts shows at the sky theatre within, in which the night sky can be simulated for any location on earth and combining this facility with still and video images of the myriad of fascinating objects that populate our splendourous Universe. The inner dome of the planetarium is 8m in diameter and the capacity of the sky theatre is 70. The lobby has an exhibition of the various celestial bodies in the universe.

The planetarium complex has an area of about 3000 square feet. A panoramic view of the sky inside the dome is provided by the Carl Zeiss ZKP2 Planetarium Projector manufactured in Germany. The large dumb-bell-shaped projector located at the centre of the sky theatre is actually a composite of 32 different projectors, arranged in 3 planes, and can simulate the night sky for any latitude and also simulate the diurnal and annual motions of the sky. There are special electronic mechanisms to show the motions of the sun, moon and the planets relative to the stars, as well as the movement of artificial satellites and the Milky Way Galaxy.

Programme 1: Night under the Starry Sky

This show is an introduction to the basic concepts in astronomy. The important stars, star patterns and constellations are shown. The show also provides a description of the major planets, comets etc. apart from deep sky objects like nebulae and galaxies.

Future plans:

The planetarium, which opened its doors to the public in 1998, is on a revamp path. After dedicated service to science popularisation in the region for more than 12 years, during which time nearly 2,00,000 people have been enchanted by the spell cast by the starry heavens, Dr. T. M. A. Pai Planetarium seeks to reinvent itself with equipment at the forefront of planetarium technology and much more ambitious plans.

On the anvil are plans for a totally new projection system, more manpower to facilitate more visitor-handling capacity and to develop more shows to inform and inspire the next generation of astronomers for the country.

The Astronomy Club, Manipal – which functions based at the planetarium, provides a forum for the students from all constituent colleges of the Manipal University, and also the general public to interact and disseminate information about astronomy and upcoming celestial events through slide-shows, talks and field trips. As part of the revamp programme, it is proposed to create an observing centre with a telescope and facilities for astronomical imaging with a CCD camera etc.

Q. MANIPAL AROGYA CARD

Manipal Arogya card is a small card with huge benefits for general public around Udupi and neighboring districts. Following are the benefits under this card:

1. Concessions in IP

- a. Concessions in IP in General Ward at Kasturba Hospital and KMC Hospitals, Mangalore: 25 % flat concession on the total bill of the patient excluding consumables cost. Upto 10 % concession will be offered to medicines purchased from the hospital pharmacy.

- b. Concessions in IP in Dr TMA Pai Hospital Udupi and Karkala 15% flat concession on the total bill of the patient excluding consumables cost for all the wards, including Special and Deluxe wards and including General Ward. 10 % concession will be offered to medicines purchased from the hospital pharmacy with proper prescriptions.

2. OP Benefits:

- a. 50% concession on the consultation fee with any specialist / super specialist doctor any number of times during the year, 20% discount on diagnostics and laboratory investigations give considerable relief to the patient. Upto 10% rebate on medicines purchased from Hospital pharmacy with prescriptions and Dialysis Rs 50/-.
- b. Concessions in OP in Dr TMA Pai Hospital Udupi and Karkala : 20% concession on the consultation fee for consultations; other benefits as same.

Details of Concessions offered under Manipal Arogya Card Scheme 2013

About 7000 patients were provided treatment and benefits as In Patient and about 100,000 Patients availed OPD services.

Total Concession given to patients under Manipal Arogya Card 2013	Rs 175.00lakhs
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Particulars	2012-13
Number of Members in Manipal Arogya Card - Manipal Cluster	98,000
Total Concession provided through the Manipal Arogya Card to the members	Rs 166 lakhs
Total Billing from Arogya Card Members	Rs 1,018 lakhs

R. HEALTH CAMPS BY KASTURBA HOSPITAL

About 10,000 patients were provided medical attention at the following places:

- Karkala (Dr T M A Pai Rotary Hospital, Karkala),
- Kundapura (2 camps Under National Programme and 2 camps Under Vajapyee Scheme for BPL Card holders,
- Udupi, 2 camps Under National Programme and 2 camps Under Vajapyee Scheme for BPL Card holders
- Uttara Kannada (2 camps Under Vajapyee Scheme for BPL Card holders),
- Gadag 2 camps Under Vajapyee Scheme for BPL Card holders
- Koppal 2 camps Under Vajapyee Scheme for BPL Card holders ,

- g) Hospet 1 camp Under Vajapyee Scheme for BPL Card holders and
- h) Shimogga 1 camp Under Vajapyee Scheme for BPL Card holders.
- i) Shimogga – One Camp in association with Bapuji Educational Trust

S. INTEGRATED CHILD DEVELOPMENT SERVICES (ICDS): Anganawadi Training Center, KMC Manipal

Integrated Child Development Services scheme has been described as India's gift to her children 0-6 years of age

ICDS Provide

- Supplementary Nutrition
- Health checkups
- Referral Services
- Treatment of Minor illness
- Nutrition and Health Education
- Pre-school education. (to children in the age group of 3-6 years)
- Convergence of other supportive services like water supply Sanitation etc

The training of functionaries of ICDS Programme was entrusted to Kasturba Medical Collage in 1976. The Main job was to train the Anganawadi workers and helpers who happen to be the Village level workers

The Curriculum contains Pre-school education ,Health and Nutrition education, Immunization of pregnant women and children below 6 years.

Basic health information weighing of the children 0-6 years record the same in the Growth chart Identify the third and fourth degree malnutrition children, and to take proper remedial measures to over come the same and conduct home visits

The focal point for the delivery of ICDS Service is the Anganawadi a child care centre with in the Village or slam area. Each Anganawadi is run by an Anganawadi worker and a helper and usually covers a population of 1000 in rural and urban areas

For the first time in India a special intervention Programme has been derived for Adolescent girls using the ICDS Infrastructure.

The job of the Anganawadi Training Centre at Manipal is to train the Anganawadi workers who are sent by the Department of Women and Child Development Govt of Karnataka. There are two types of training one is Job training course second is Refresher training Course.

So far we have trained about 2,600 Anganawadi workers and the equal number of Anganawadi helpers. The Class is 10.00 AM - 4.30 PM with an interval of one hour for Lunch we have got two hostels is managed by a warden field visits are also conducted There are three Instructors

1. Community Health Instructor (Main Instructor designated as Principal)
2. Nutrition Instructor
3. Pre-school Instructor

All are Post graduates in the respective disciplines

Educational qualifications have been fixed by the Govt and Syllabus is according to the NIPCCD- National Institute of public Co-operation and Child development, New Delhi a central Govt. organization

While the Anganawadi workers are undergoing training we will Inform them about the various Medical facilities and also super specialty facilities that are available here, They refer many patients from far off places from North Kanara, Shimoga, Davangere and Bhadravathi etc.

They also Impart Information about our health cards and many people from villages have availed of these facilities, In case of any emergency the workers also donate Blood .

This is a cent percent grant in aid programme of the state Govt The major responsibility for effective functioning of Integrated child development programme at the field level ie Child development project Officer, Supervisors, and Anganawadi workers These Anganawadi workers are the key functionaries at the gross root level for delivery of services. and we are training the Anganawadi workers for the past 36 years. classes are being conducted in physiology lecture hall No- 4 and teaching is in Kannada.

प्रज्ञानं ब्रह्म



INSPIRED BY LIFE

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