



MANIPAL
ACADEMY of HIGHER EDUCATION
(Institution of Eminence Deemed to be University)

MAHE Research Bulletin

July-September 2020



Manipal Academy of Higher Education (MAHE) nurtures its episcopal vision to “promote research activities of global standards” and is one of India’s premier academic and research institutions, bestowed in recent years with the “Institution of Eminence” status by the Ministry of Human Resource Development, Government of India. Thereof, in view of being a reputed international research conglomerate, with active partnerships listed with more than 220 leading universities around the globe, MAHE ventures to provide its faculty and students with niche access to world-class resources and collaborative experiences, that in turn fosters exciting prospects in multi-disciplinary forays.

MAHE staunchly promulgates the work-ethic of “global leadership in human development, and excellence in education and healthcare,” and remains synonymous with quality in higher education. The last 60 years alone have seen institutes at Manipal taking meticulous and meaningful steps towards building reservoirs of intellectual wealth and academic distinction. In the process, Manipal Academy of Higher Education has designed some of the country’s best Institutes and Centres of Excellence across diverse streams such as medicine, dentistry, nursing, engineering, pharmacy, hotel management, allied health, architecture and design, the creative humanities and communication. Each Institute at Manipal is geared to meet the same demanding standards that creates enterprising professionals and shapes responsible citizens, thereupon inspiring its proponents to endeavour beyond the reaches of tepid experimentation. The varsity is holarchical and inclusive in structure, with several campuses spread over the world.

Directorate of Research – MAHE, Manipal

The Directorate of Research (DoR) is aligned with the central vision of MAHE and strives to nurture and promote research activities of global standards. In perspective, cutting-edge research has always been of paramount significance to MAHE, and as such, the varsity has witnessed a dramatic surge in publications, with doctoral degrees being awarded and grants being presented by notable funding agencies amidst other achievements. Currently, Directorate of Research is operating under the guidance of Vice Chancellor Lt Gen (Dr) M D Venkatesh facilitating research activities of MAHE, nurture and boost collaborative research with national and international researchers. The team works in association with the Heads of the Institutes of different constituent units of MAHE. Faculty, research scholars, and students of MAHE have embraced MAHE's research culture, and are encouraged to publicize their research work in scientific publications, present papers in conferences, obtain patents, and apply for research grants. In this bulletin, we present an overview of the research activities at MAHE for the period July to September 2020.

Vision:

To nurture and promote research activities of global standards.

Mission:

"To facilitate and contribute to research in all disciplines, thereby improving yield in term of grants, research innovation, intellectual property, and publications."

Objectives:

- To identify research priorities and initiate programs
- To seek research grants and promote focused research of national importance
- To foster new collaborations and strengthen existing ones
- To disseminate research findings in high impact publications
- To provide logistics for researchers to implement ideas
- To support IP related activities and Technology Transfer

"Imagination is the highest form of research" – Albert Einstein

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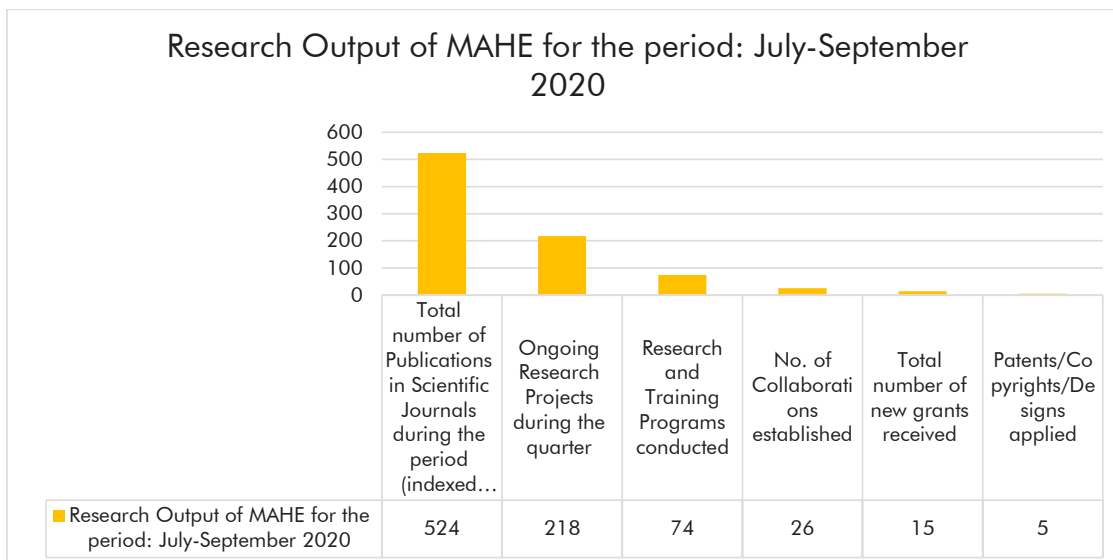
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Part I

A. Info-graph of Research Activities during the period July-September 2020

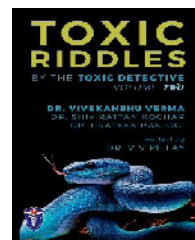


B. Faculty and Institution Achievements

1. Manipal College of Pharmaceutical Sciences, Manipal, is ranked number one among the Pharma Colleges in India, by the Careers 360 magazine in their 30th September 2020 issue titled India's Best Pharma Colleges 2020.
2. Kasturba Medical College, Manipal, is ranked third amongst private colleges in India and ninth overall in the NIRF 2020 ranking issued by MHRD, Government of India.
3. Manipal School of Architecture and Planning was awarded the seventh rank in the Architecture Category by India Today – MDRA Best Colleges Ranking, 2020. The Institute also secured the 12th position in the NIRF rankings for Architecture – 2020 held by the National Institutional Ranking Framework. Moreover, the Institute availed the second rank in a survey covering "India's Top Institutes of Architecture-Pvt" conducted by The Outlook-ICARE Professional College Rankings 2020, apart from securing the eighth rank in India's Top Fashion Technology Institute-Pvt category for "India's Best Professional Colleges". Lastly, it secured the 13th rank amongst Fashion Technology colleges across India, as per the "Best Colleges in India – The Week-Hansa research survey 2020".
4. Department of Immunohaematology and Blood Transfusion, KMC, Manipal, on the occasion of "National Voluntary Blood Donation Day" launched the Kasturba Hospital Rare Blood Donor Registry.
5. Dr Pallavi Upadhyaya, Professor, Manipal Institute of Management, Manipal, and Ms Vrinda of Department of Commerce, published a paper titled "Impact of technostress on academic productivity of university students" in the Education and Information Technologies Journal, which

is a Q1, Scopus indexed and WoS indexed Journal. Dr Gayathri Prabhu, Associate Professor, MCH, MAHE, Manipal was conferred with The Charles Wallace fellowship at Stirling University, Scotland funded by the Charles Wallace Trust from 24 February to 24 May 2020.

6. Dr Prateek Rastogi, Professor and HOD, Forensic Medicine and Toxicology has co-authored e-books titled "Toxic riddles by toxic detectives Vol 1" (Verma V, Kochar SR, Rastogi P, Pillay VV. Toxic Riddles by toxic detectives - vol 1. Kindle edition, 2020) and "Toxic riddles by toxic detectives Vol 2" (Verma V, Kochar SR, Rastogi P, Pillay VV. Toxic Riddles by toxic detectives - vol 2. Kindle edition, 2020).



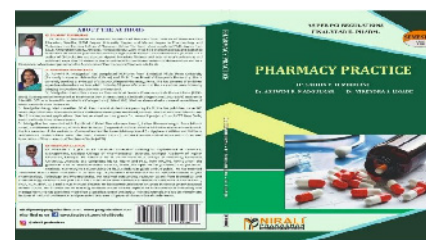
7. Dr Suchitra Shenoy, Professor and Head, Department of Microbiology, KMC, Mangalore, was the resource person for an International Webinar series on "Pandemic informatics and intendance". The talk was on the topic: "All about Covid testing" on 30 July 2020, and was conducted by New Mangala College of Nursing, Mangalore. Furthermore, Dr Shenoy was also the resource person for an International Webinar on "COVID-19: Biosafety and Biocontainment Issues". Her topic was "Surveillance and prevention of hospital infection: Challenges during COVID-19" held on 10 September 2020, and conducted by the Institutional Biosafety Committee, Nitte (Deemed to be University, Mangalore).



8. Dr Soundarya M, Associate Professor, Department of Paediatrics, Kasturba Medical College, Mangalore, MAHE participated in the MIT COVID-19 CHALLENGE - India Turning the tide - virtual hackathon and was declared the winner in the track E. Virtual hackathon event held between August 28 and 30, 2020. Her title was: "Developing new ways to deliver care in COVID-19 and post COVID-19 world as Team - SIPPE (Sip in PPE)".



9. Dr Virendra S Ligade, Associate Professor, Department of Pharmacy Management, Manipal College of Pharmaceutical Sciences, Manipal Academy of Higher Education, Manipal has published a textbook on Pharmacy Practice for semester VII BPharm, Publisher: Nirali Prakashan, Pune. This textbook is written primarily for pharmacy students (Semester VII) as per the PCI syllabus. In addition, the book is also useful for students dealing with clinical and hospital pharmacy practices, as well as for others who would like an elementary and concise introduction to pharmacy practice subjects. Dr Sachin Tembhurne MPharm., and Dr Ashwini Madgulkar M. Pharm., have co-authored the book with Dr Ligade.



10. Dr N Udupa, Professor, Department of Pharmaceutics, MCOPS edited an e-book titled COVID-19 - A Multidimensional Response, Manipal Universal Press, Manipal, 10th September 2020.

11. Dr Sriram K V, Associate Professor and Dr Sumukh Hungund, Assistant Professor (Sr) Department of Humanities and Management, Manipal Institute of Technology, received the first installment of their funding grant for Rs 9 lakhs from the Department of Science and Technology for their project titled "A study of innovation performance of Technology Business Incubators located across Technical Institutes of Karnataka" as on 3rd September 2020.



12. Dr Balachandra, Professor and Head, I&CT Department, MIT, MAHE, Manipal, was conferred with a grant of Rs 93,000 from AICTE for conducting a Faculty Development Program on Cyber Security. The grant was sanctioned on 8th September 2020.



13. Dr Smitha N Pai, Professor, I&CT Department, MIT, MAHE, Manipal, was conferred with a grant of Rs 2,48,168 from AICTE for conducting a Faculty Development Program on Natural Language Processing. The grant was sanctioned on 10th August 2020.



14. Dr Ashwatha Narayana Prabhu, Assistant Professor-Selection Grade, Department of Physics, Manipal Institute of Technology, MAHE, Manipal, has received a research grant from UGC-DAE CSR, Mumbai, in July 2020.



15. Dr Kapaettu Satyamoorthy from Manipal School of Information Sciences (MSIS) in association with his team conjointly filed a patent for the invention titled "A Method for Detection of Pharmacogenomic Variation of Genes" based on a grant actualized on 3rd September 2020.

16. Dr Nirmal Mazumder (Assistant Professor, Department of Biophysics, MSLS), Dr Satyamoorthy K (Professor and Director, MSLS), Dr Mahato K K (Professor and Head, Department of Biophysics, MSLS), Mr Soumyabrata Banik (student, MSc by Research in Life Sciences, MSLS), Dr Vasudevan T G (Associate Professor, Department of Biotechnology, MSLS), have filed an Indian patent titled "Method and apparatus for optical microscopy using a mobile device" and have submitted it to the regional Indian Patent Office – Chennai (Ref/App No 201941031164 filed on 31st July 2020).

17. Dr Satyamoorthy K (Professor and Director, MSLS), Dr Padmalatha Rai (Professor and Associate Director, MSLS), Dr Keerthana Prasad (Manipal Centre for Information Sciences, MAHE), Dr Ravishankar K (PhD Scholar, MSLS), Dr Shreeshakala P (Research Scholar, MSLS) have filed for a patent titled: "Method and Image Processing Software for Detection of Pharmacogenomics variation of Genes." The Patent number is 346024 for the grant dated 3rd September 2020.

18. Dr Satyamoorthy K (Professor and Director, MSLS), Dr Shiva Kumar B M (PhD Scholar, MSLS), Dr Ganesh Pai C (Head, Department of Gastroenterology, KMC, Manipal), Dr Shama Prasada K (Associate Professor, Department of Cell and Molecular Biology, MSLS), Dr Sanjiban Chakrabarty (Assistant Professor, Department of Cell and Molecular Biology, MSLS), Dr Harish Rotti (PhD Scholar, MSLS), Dr Ganesh Bhat (Department of Gastroenterology, KMC Manipal), Dr Deepak Suvarna (Department of Gastroenterology, KMC Manipal) have filed for a patent titled: "Copy number variations (CNV) of specific genes as novel biomarkers of colorectal cancer". The Patent number is 347350 for the grant dated 22nd September 2020.
19. Ms Bharathi R B (Assistant Professor, Department of Electrical and Electronics Engineering, Manipal Institute of Technology, Manipal), Dr Ramesh S (Associate Professor, Department of Optometry, Manipal College of Health Professions, Manipal), Dr M Sundaram S (Associate Professor, Department of Instrumentation and Control Engineering, Manipal Institute of Technology, Manipal), have filed for a patent titled "System for Measuring Intraocular Pressure Combined with Gonioscopy" on 13th July 2020.
20. Mrs Kshama (Associate Professor, Department Food and Beverage Production, Welcomgroup Graduate School of Hotel Administration, Manipal) has filed for a patent titled "Development of Novel Food Formulation Using Nutritional Mix" on 13th July 2020.
21. Dr B M Zeeshan Hameed (Associate Professor, Department of Urology, Kasturba Medical College, Manipal) Mr Nithesh Naik (Assistant Professor, Department of Mechanical and Manufacturing Engineering, Manipal Institute of Technology, Manipal) Mr Milap Shah, Mr Udit Rathee, and Mr Asif B (Research Intern, Kasturba Medical College, Manipal) have filed for a patent titled "Liquid Specimen Test Container and Method of Testing Liquid Specimen" on 29th July 2020.
22. Dr Ritu Raval (Associate Professor, Department of Biotechnology, Manipal Institute of Technology, Manipal) Dr Jayesh Mudgal (Associate Professor, Department of Pharmacology, Manipal College of Pharmaceutical Sciences, Manipal) Dr Keyur Raval (Associate Professor, Department of Chemical Engineering, National Institute of Technology Karnataka) have filed for a patent titled "Enzymatic Production of Chito-Oligosaccharides and Evaluation of their Role on Gut Microbiota" on 8th September 2020.
23. Dr Srinivas Challapalli (Professor, Department of Radiotherapy, Kasturba Medical College, Mangalore) has filed for a patent titled "Device for Evaluation of Radiation Dose Delivery in Brachytherapy" on 24th September 2020.
24. Dr Varalakshmi Chandrasekaran, Assistant Professor, Community Medicine, MMMC, has won the best poster award for the presentation titled "I can't share with parents in general because I mean, that's how you end up growing – a photovoice exploration of adolescent disclosure" at the Third Bandung International Conference on Collaborative Health Research (Virtual Conference) which was held on 14th and 15th September 2020.



25. Dr G Arun Maiya, Professor, Department of Physiotherapy; Dean, Manipal College of Health Professions, Centre for Diabetic Foot Care and Research, was invited to be the "Lavigne-Smee Visiting Scholar for 2020" by McGill University, Montreal, Quebec, Canada, on 27th August 2020.



26. Dr N Vasudev Ballal, Professor, Department of Conservative Dentistry and Endodontics, Manipal College of Dental Sciences, Manipal, MAHE, was conferred with the Dr TMA Pai Gold medal for outstanding research for the year 2019. He was also conferred with the FAIR award for publishing the highest number of research publications for the year 2019.

C. Achievements by Research Scholars and students

1. Dr Zahabiya Nalwalla, third year resident, MD Paediatrics, 2018-2021, Department of Paediatrics, Kasturba Medical College, Mangalore, MAHE, Manipal, received the first prize for her oral paper presentation titled "Attention Deficit Hyperactive Disorder and Oppositional Defiant Disorder in Adolescents living with HIV/AIDS—A cross-sectional study" in the "IAP – Bangalore PEDICON 2020" which was held on a virtual platform between 29th and 30th August 2020.



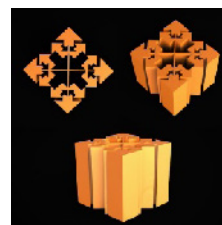
2. Dr Sharath M Manya, third year resident, MD Paediatrics 2018-2021, Department of Paediatrics, Kasturba Medical College, Mangalore, MAHE, Manipal, received the second prize for his poster presentation titled "Exploring the Pandora's Box within the Kidneys" in the "IAP – Bangalore PEDICON 2020" which was held on a virtual platform between 29th and 30th August 2020.



3. Dr Akshay Holla, DCH, Paediatrics 2018-2020, Department of Paediatrics, Kasturba Medical College, Mangalore, MAHE, Manipal, received the third prize for his poster presentation titled "Dress Syndrome secondary to Antitubercular Medication" in the "IAP – Bangalore PEDICON 2020" which was held on a virtual platform between 29th and 30th August 2020.



4. Ms Lakshmi Mohanbabu's (B Arch Alumni) micro sculpture was selected by the European space agency to be sent to the Moon on the ESA Moon lander to be exhibited permanently on the moon (i.e., on the ESA Moon Lander 2022), making her the first NIFT Designer, the first Indian artist, and the first Asian artist to send her art to the moon.



5. Dr Viveka Santhosh Reddy C, MD Paediatrics, second year, Department of Paediatrics, Kasturba Medical College, Mangalore, MAHE, participated in the "MIT COVID-19 CHALLENGE - India turning the tide—virtual hackathon" and was declared the winner in the event held between August 28th to 30th 2020.



His paper held the title “Developing new ways to deliver care in COVID-19 and post COVID-19 world” as Team – SIPPE.

6. Ms Dhanya Suresh and Mr Hatim Cyclewala, B Arch (Alumni), Manipal School of Architecture and Planning, secured second place in the International competition called Master Studio held by Archmello. The topic was to design a co-working space for architects and students.
7. Mr Pranav Nireshwalia, S Radhakrishna Pai and Sanjana, third year B. Arch, Manipal School of Architecture and Planning, won “Special Recognition Award” at the Southern Regional Bound of Transparence 14.0 organized by Saint Gobain held on 22nd Jan 2020.
8. Ms Mahima Mishra, an intern at MCOADS, Mangalore, participated in the Manipal Covid Challenge organized by the Innovation Centre, MAHE, in collaboration with KMC Manipal and MIT. She developed the device Aerovacuator - Dental Aerosol Evacuator which was identified as one of the winners. This was under the guidance of Dr Arun Shanbhag, Innovation Centre, MAHE, in the Category – Apps, Devices and Web. 
9. Dr Shilia Jacob Kurian, Research Scholar, Department of Pharmacy Practice, MCOPS, won second prize under the Clinical Research stream in “Student’s Pharmaceutical Conclave” organized by Pharmacist Society of Kerala, in association with Kerala Private Pharmacists Association (KPPA) on 21st August 2020. She received the prize for the online presentation for the research entitled “Multicentric Observational Study on Protective Effect of Metformin Against Tuberculosis in Diabetic Patients in South-Indian Tertiary Healthcare Facilities” under the guidance of Dr Sonal Sekhar M, Dr Navya Vyas, and Dr Manu Mohan. The research was supported by MACID Seed Grant from Manipal Centre for Infectious Diseases, PSPH, MAHE, Manipal. Dr Shilia is pursuing PhD under the guidance of Dr Sonal Sekhar M. 
10. Ms U Sangeetha Shenoy, PhD scholar at Manipal School of Life Sciences, Manipal, had received the “Joint CSIR-UGC NET Junior Research Fellowship” under the Guidance of Dr Raghu A R for the project titled: “Epigenetic Reprogramming of HOX genes and Non-coding RNAs in Oral Cancer”.
11. Ms Chandini B, one of the final semester MSc students at Manipal School of Life Sciences, won the “ESI Kudos award for pitching the best development of innovative ideas” at the “Precision Oncology” Summer School (conducted online), along with her team. Five of the MSc students (Ms Chandini B, Ms Christabelle Rajesh, Ms Chandni S, Ms Ananyashree K, and Mr Pranav G) who studied their second year (two semesters from August 2019 to July 2020) at the University of Grenoble-Alpes, Grenoble, France, were part of different teams at the summer school.

Part II

A. Featured Researcher of MAHE

Dr Satheesha Nayak B, Professor of Anatomy, Melaka Manipal Medical College, MAHE, is listed as top two per cent scientists in the world in the field of "Anatomy and Morphology" including over 1,000 scientists from India as per a survey conducted by a team of researchers from Stanford University, findings published in the article in PLoS Biology Oct 2020 (Loannidis JPA, Boyack KW, Baas J, 2020) updated science-wide author databases of standardized citation indicators. PLoS Biol 18(10): e3000918. <https://doi.org/10.1371/journal.pbio.3000918>). The listing was based on the total number of research papers published in Scopus indexed journals and their citation index. While securing a place in the top range of Indian Scientists in the field of Anatomy and Morphology, Dr Nayak has contributed towards about 400 research articles in various prestigious journals, out of which 195 are published in Scopus indexed journals. He has bagged two state-level gold medals and the prestigious Dr TMA Pai gold medal for his research publications. Apart from this, he has also bagged the "Good teacher award" seven times and was also recognized for "Best audio-visual materials" on several occasions. Dr Nayak is also an active reviewer for various esteemed journals and has received the "Sentinel of Science" award for his reviews by Publons. Over the years, Dr Nayak has guided several PhD projects, and four of his co-authored publications have won the prestigious Dr TMA Pai gold medals.



B. Top publications for the period July-September 2020

Title of the Publication	Name of the Author	Institution	Name of the Journal	Cite Score	Month and Year of Publication	Current Quartile Value
Copper sulphide based heterogeneous nanoplatfoms for multimodal therapy and imaging of cancer: Recent advances and toxicological perspectives	Ajinkya Nitin Nikam, Dr Srinivas Mutalik, Dr Abhijeet Pandey, Fernandes Gasper Joseph Julie, Sanjay K, Sadhana Mutalik, Padya Bharat Singh, Dr Sajan Daniel George	Manipal College of Pharmaceutical Sciences, MAHE, KMC Hospital, Attavar	Coordination Chemistry Reviews	26	September 2020	Q1 (Top 1%)
Efficacy of the Metropolis Algorithm for the Minimum Weight Codeword Problem using Codeword and Generator Search Spaces	Dr Ajitha Shenoy K B	MIT Manipal	IEEE Transactions on Evolutionary Computation	21	August 2020	Q1 (Top 1%)
Heterogeneous surface architected pH responsive Metal-Drug Nano-conjugates for mitochondria targeted therapy of Glioblastomas: A multimodal intranasal approach	Dr Abhijeet Pandey	MAHE - University Office	Chemical Engineering Journal	15.2	August 2020	Q1 (Top 1%)
Fluid structure interaction study of stenosed carotid artery considering the effects of blood pressure	Mr Nitesh Kumar, Dr Shah Mohammed Abdul Khader, Dr Raghuvir Pai B	MIT, Manipal	International Journal of Engineering Science	15.2	September 2020	Q1 (Top 1%)

Title of the Publication	Name of the Author	Institution	Name of the Journal	Cite Score	Month and Year of Publication	Current Quartile Value
Is viral E6 oncoprotein a viable target? A critical analysis in the context of cervical cancer	Avinash Kumar, Dr Suvarna G Kini, Dr Raghu Chandrashekhar H, Ms Ekta	Manipal College of Pharmaceutical Sciences	Medicinal Research Reviews	15	September 2020	Q1 (Top 2-9%)
Exposure to tobacco imagery in popular films and the risk of ever smoking among children in southern India	Dr Muralidhar M K, Dr Veena Ganesh Kamath, Dr Asha Kamath, Dr Kirthinath Ballala A B, Dr Rohith Bhagawath	KMC, Manipal, Prasanna School of Public Health, Manipal,	Tobacco Control	10.5	September 2020	Q1 (Top 2-9%)
Oxidation potential-dependent selective detection of epigenetic 5-hydroxymethylcytosine using nanocarbon film	Ms Sima Chaudhari, Dr Satyamoorthy Kapaettu	School of Life Sciences	Sensors and Actuators, B: Chemical	9.4	July 2020	Q1 (Top 2-9%)
A point of use sensor assay for detecting purely viral versus viral-bacterial samples	Mr Kapil Sadani, Ms Pooja Nag, Dr Chiranjay Mukhopadhyay	MIT - Manipal, KMC - Manipal	Sensors and Actuators, B: Chemical	9.4	July 2020	Q1 (Top 2-9%)
Development of a numerical model for performance prediction of an integrated micro combustor-thermoelectric power generator	Karan Prakash Hiranandani, Manipal Institute of Technology	Energy	February 2020	Q1 (Top 1)		
A zinc-quinone battery for paired hydrogen peroxide electrosynthesis	Sarvajith M S, Dr Fasiulla Department of sciences/ MIT Manipal	Journal of Colloid and Interface Science	February 2020	Q1 (Top 2-9)		

C. Grants Office, Directorate of Research, MAHE, Manipal

- MAHE is committed to facilitating faculty and research scholars in assisting resource identification,
- enhancing the quantum and quality of research funding.
- MAHE has set up a dedicated Grants Office managed by a Grants Coordinator. The Grants Office is located in the Directorate of Research, MAHE.
- Information regarding Grants and funding calls can be accessed through Research Management System (RMS) to help faculty and researchers in identifying new open calls, meet deadlines and make the application process easy by providing all required documents at one click and any project related help as well as guidance from the Mentor Board.
- Further, the Grants Coordinator will be the one-point contact to assist the grant applicant with necessary approvals, consultations, policy documents and also to facilitate necessary meetings with Finance, legal, HR and Mentor Board.
- Entering Project details in RMS is mandatory while applying for a new grant to generate a UTN number for proposal submission. Updating the project status (funded /rejected) in the RMS portal is the responsibility of the Principal Investigator as per the sanction/rejection letter from the concerned funding agency.

Part III

A. Activities of MAHE Students' Research Forum (MAHE-SRF)

MAHE SRF Activities Report 2020

MAHE Student Research Forum (MAHE-SRF) is a dynamic body operational under the aegis of the Directorate of Research (DoR), MAHE, Manipal, and aims to instil and develop a research-oriented outlook among students. At its crest, this student-centric academic forum robustly brings together undergraduates, postgraduates and research scholars of the constituent institutions of MAHE and provides various platforms for scientific interactions in multidisciplinary areas across institutions. It additionally provides opportunities for collaborative work with eminent scholars.

Objectives of MAHE SRF

- To foster research interest in undergraduate and postgraduate students, and to inspire them to take up research as a career.
- To create a network of students among constituent institutions of Manipal Academy of Higher Education to promote and facilitate interdisciplinary research.
- To promote entrepreneurship and innovation among MAHE students.
- To organize research activities.
- To sensitize all the students about MAHE incentive policies for research.

MAHE SRF 2020 conducted two main activities this year, an online training programme and the annual Interdisciplinary Conference on Healthcare and Technical Research (ICHTR-2020).

1. Online Training Program

A summer school was planned for April 2020. However, due to the nation-wide lockdown in light of the pandemic, an online training program was conducted between September 14, and September 29 2020. It included six courses:

- "Python Programming" was organized by Dr Narendra VG, Associate Professor, Department of Computer Science and Engineering, MIT, Manipal.
- "Data Visualization using Tableau" was organized by Mr Kishore L, Associate Professor, Department of Commerce, Manipal.
- "Drug Design, Discovery and Development Studies" was organized by Dr Usha Yogendra Nayak, Associate Professor, Manipal College of Pharmaceutical Sciences.
- "Protocol to Publication" was organized by Dr Prasanna Mitra, Associate Professor, Department of Community Medicine, KMC Mangalore.
- "Ethics and Professionalism for Medical Students" was organized by the Mangalore unit of UNESCO Chair in Bioethics (Haifa) in collaboration with Dr Animesh Jain from the Department of Community Medicine, KMC Mangalore.

- “Data Analysis using Excel and Mendeley Reference Manager” was organized by Ms Vrinda Bhat, Assistant Professor, Department of Commerce

The online training program had 337 participants from all across the country and received positive feedback from the participants.

ICHTR-2020

ICHTR-2020 was conducted on 30th and 31st October 2020. The two-day online conference was inaugurated by Lt Gen (Dr) M D Venkatesh, Vice Chancellor, MAHE, Manipal. On the occasion, the Vice Chancellor addressed a pertinent issue, professing how universities are not only under the purview of their nation-states but are also becoming increasingly global in perspective, necessitating a hike in student research output which is after all the main aim of every university. He also stated that MAHE places great emphasis on student research, and thereupon provides an ecosystem for student innovation, in the process facilitating students to reach out to research possibilities, encouraging publications and presentations on domestic and on international platforms. The Chief Guest was Dr Shally Awasthi, Professor and Head Paediatrics, King George’s Medical University, Lucknow, who also gave a keynote address on the “Journey of Discovery, Invention, Research, and Innovation.” Four plenary sessions were held over the two days of the conference. The lectures included:

- “Editorial expectation” by Dr Madhu Veeraraghavan, Director, T A Pai Management Institute.
- “How to fit into an Organization” by Dr Animesh Bahadur, Professor, T A Pai Management Institute.
- “Grant Writing Skills” by Dr B Unnikrishnan, Associate Dean KMC, Mangalore.
- “Awareness on International Fellowships” by Dr Neeta Inamdar, Professor, and Head of the Department, Manipal Centre for European Studies.

Despite the turbulence concerning the constraints due to the pandemic, the SRF 2020 activities were carried off smoothly with immense support from Dr Udupa N, Dr Satish Rao B S, Dr Satish Shenoy, Dr Bharti Chogtu, Dr Santosh K V from the Directorate of Research, MAHE, and Dr Shymala Hande, from Centre for Doctoral Studies, MAHE. The online training program that was conducted at MAHE encouraged the participants to actively indulge in the workshops and learn about the basics of research ethics in technical and medical fields and other areas such as the humanities and the social sciences. The plenary sessions gave a wide overview of the kind of research undertaken at MAHE and also informed the participants and especially the SRF members of the means to go about research grants and other publications. It brought to the fore the reservoir of knowledge amidst the research community and invited students to contact the faculty before or during their research process. This year saw 507 participants from diverse fields, with feedback from 222 participants. Among other feedback, the overall impression of the conference was rated as “exceptional” and “very good” by 56 per cent and 41 per cent of participants, respectively. Thus, MAHE SRF activities were brought to a close on a positive note.

Editorial Team

1. Dr Satish Rao B S, Director - Research, MAHE, Manipal
2. Dr Bharti Chogtu Magazine, Deputy Director Research (Health Sciences) MAHE, Manipal
3. Dr Santhosh K V, Deputy Director - Research (Technical Sciences), MAHE, Manipal
4. Dr Manthan D Janodia, Professor and Head, Department of Pharmacy Management, Manipal College of Pharmaceutical Sciences, MAHE, Manipal
5. Ms Sheeba Pakkan, Bibliometrician, Directorate of Research Office, MAHE, Manipal
6. Ms Anupa Lewis, Assistant Professor - Sr Scale, Department of Media Studies, Manipal Institute of Communication, MAHE, Manipal