



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

MAHE Research Bulletin

October-December 2023



Manipal Academy of Higher Education (MAHE) is among the second top-ranked private university in India according to the Quacquarelli Symonds World University Ranking 2022. In the 18th edition of the rankings, MAHE figures in the 751-800 band, among 1,673 analysed universities and 1,300 institutions ranked from 93 countries. MAHE's performance was noted among the top 58 per cent in the rankings this time.

For the Quacquarelli Symonds (QS), World University Ranking, universities are evaluated on six performance indicators: academic reputation, employer reputation, student-to-faculty ratio, citations per faculty, international faculty ratio, and international student ratio. Four of the indicators are based on hard data, and the remaining two are based on major global surveys – one of the academics and another of employers – each the largest of their kind and for the 2022 Rankings, QS has analysed over 96 million citations from more than 14.7 million recorded publications, before evaluating 1,300 Universities.

# Directorate of Research – MAHE, Manipal



In alignment with the vision of the Manipal Academy of Higher Education (MAHE), the Directorate of Research facilitates and supports the research activities of MAHE. It aims at nurturing and promoting the research of global standards.

**V**ision:  
To nurture and promote research activities of global standards.

**M**ission:  
To facilitate and contribute to research in all disciplines, thereby improving yield in terms of grants, research innovation, intellectual property, and publications.

- O**bjectives:
1. To identify research priorities and initiate programs.
  2. To seek research grants and promote focused research of national importance.
  3. To foster new collaborations and strengthen existing ones.
  4. To disseminate research findings in high-impact publications.
  5. To provide logistics for researchers to implement ideas.
  6. To support IP-related activities and Technology Transfer.

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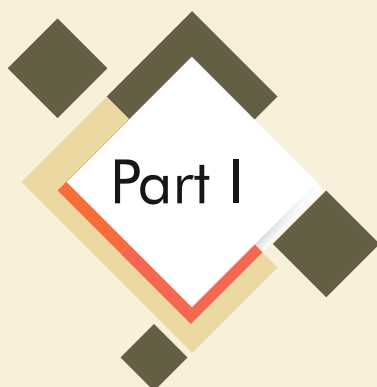
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## **PART 2:**

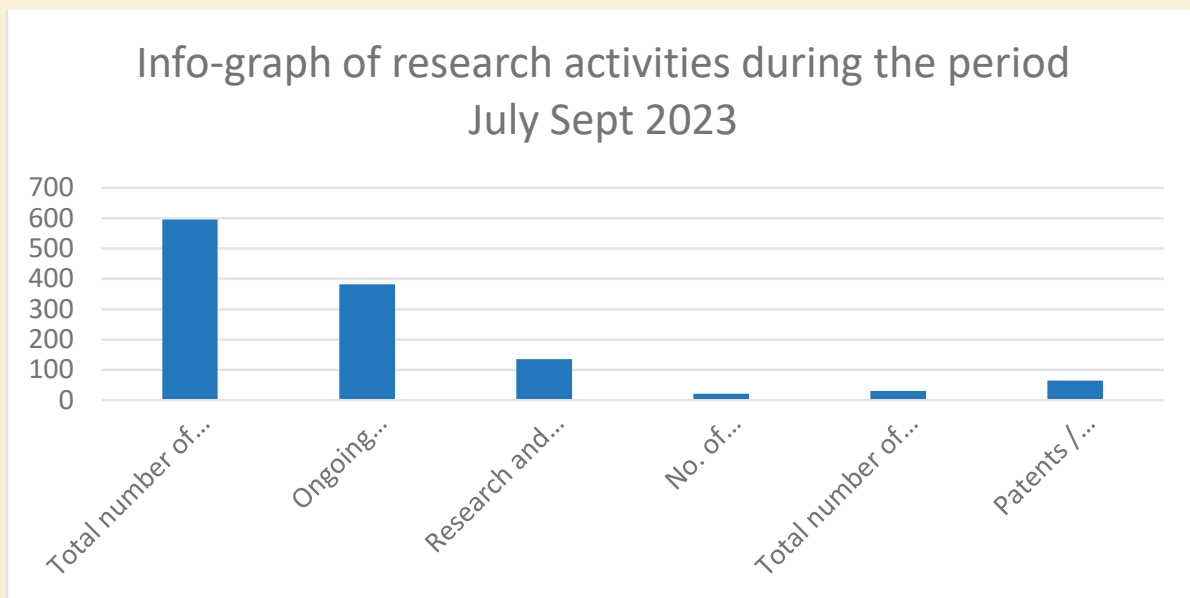
- A. Faculty and Institution Achievements
- B. Achievements by Research Scholars and Students
- C. Research activities: Workshops, programs, webinars, conferences and awards, and accolades.

## **PART 3:**

- A. MAHE Student's Research Forum (MAHE-SRF) – Activities for the period of October-December 2023



**A. Info-graph of research activities during the period October-December 2023**



**B. Top publications for the period of October-December 2023**

**C. Patents filed during the period of October-December 2023**

No	Name of Inventor(s)	Institution/ Company	Title of Invention	D O Filing	Patent Application No.
1	Deekshitha S Nayak	Manipal Institute of Technology, Manipal	Solar-Powered Direct Current (DC) Cooling System	06-10-2023	202341067182
	R Shivarudraswamy	Manipal Institute of Technology, Manipal			
2	Adithya Shenoy	Manipal Institute of Technology, Manipal	Measuring Optical Transmittance of Materials	06-10-2023	202341067180
	Gopinatha Nayak	Manipal Institute of Technology, Manipal			
	Adithya Tantri	Manipal Institute of Technology, Manipal			



No	Name of Inven-tor(s)	Institution/ Com-pany	Title of Invention	D O Filing	Patent Applica-tion No.
3	Swati Varun Yadav	Manipal Institute of Technology, Manipal	Device and Method for Facilitating Surface Wave Excitation and Fault Detection on a Transmission Line	09-10-2023	202341067616
	Manish Varun Yadav	Manipal Institute of Technology, Manipal			
	Ashish Chittora				
4	Manjula Shenoy K	Manipal Institute of Technology, Manipal	System and Method for Sensor Data Collection	11-10-2023	202341068284
	Savin Anand	Manipal Institute of Technology, Manipal			
	Kakani Sai Akhil	Manipal Institute of Technology, Manipal			
5	Gayathri Shama Bhat	Manipal Institute of Technology, Manipal	Methoxybenzene Derived Phytochemicals for the Treatment of Neurodegenerative Diseases and Metabolic Disorders	11-10-2023	202341068286
	Shaik Mahammad Abdul Fayaz	Manipal Institute of Technology, Manipal			
	Raghu Chandrashekar Hariharapura	Manipal College of Pharmaceutical Sciences, Manipal			
	Rakesh Ravishankar Rahangdale	Manipal College of Pharmaceutical Sciences, Manipal			
6	Krishna Kumar P	Manipal Institute of Technology, Manipal	Respiratory Mask	12-10-2023	202341068929
	Tsr Kausthubh	Manipal Institute of Technology, Manipal			
7	U Sangeetha Shenoy	Manipal School of Life Sciences, Manipal	A Method for Qualitative and Quantitative Estimation of Three-Dimensional Cell Invasion	12-10-2023	202341068930
	Divya Adiga	Manipal School of Life Sciences, Manipal			
	Raghu Radhakrishnan	Manipal College of Dental Sciences, Manipal			
	Shama Prasada K	Manipal School of Life Sciences, Manipal			
8	Sri Laxmi B N	Manipal College of Dental Sciences, Manipal	A Method for the Preparation of Cynodon Dactylon Mouthwash and Use Thereof	20-10-2023	202341071692
	Santhosh Kumar	Manipal College of Dental Sciences, Manipal			

No	Name of Inven- tor(s)	Institution/ Com- pany	Title of Invention	D O Filing	Patent Applica- tion No.
9	Ashwatha Naraya- na Prabhu	Manipal Institute of Technology, Mani- pal	Tin and Tellurium Co-Doped Bismuth Selenide Thermoelectric Generator	05-10-2023	202341066866
	Ashwatha Naraya- na Prabhu	Manipal Institute of Technology, Mani- pal			
	Ganesh Shridhar Hegde				
10	Swati Varun Yadav	Manipal Institute of Technology, Mani- pal	Antenna Apparatus for an Auto- mated Defense Satellite	23-10-2023	202341072418
	Manish Varun Yadav	Manipal Institute of Technology, Mani- pal			
11	Chiranjit Ghosh	Manipal Institute of Technology, Mani- pal	System for Monitoring Smoke Composition with Screen-Printed Sensors	03-10-2023	202341066090
	Mohammad Saqib	Manipal Institute of Technology, Mani- pal			
	M Selvakumar	Manipal Institute of Technology, Mani- pal			
	Ramakrishna Nayak	Manipal Institute of Technology, Mani- pal			
	Abdul Hannan Ibrahim				
12	Krishnananda Pra- bhu RV	Kasturba Medical College, Manipal	Power Generation System and a Method Thereof	25-10-2023	202341072631
13	Somasish Ghosh Dastidar	Kasturba Medical College, Manipal	A Method, Composition, and Kit for Detection of microRNA Using a Simple Polymerase Chain Reaction	23-10-2023	202341072237
	Piyush Behari Lal	Kasturba Medical College, Manipal			
	B Sindhu Sree	Kasturba Medical College, Manipal			
14	Brayal D'souza	Prasanna School of Public Health, Manipal	System and Method for Auto- mated Scheduling of Duties for Nurses in a hospital	27-10-2023	202341073330
	C G Muthana	University Depts, Manipal			
	P Suba Sooria	Kasturba Hospital, Manipal			
15	Neetha J Shetty	Manipal College of Dental Sciences, Mangaluru	Flexi Instruments	30-10-2023	202341073845
16	Shamee Shastry	Kasturba Medical College, Manipal	A Kit for Preparation of Autolo- gous Platelet Concentrates from a Blood Sample and Method Thereof	31-10-2023	202341074282
	Vinu Rajendran	Kasturba Medical College, Manipal			

No	Name of Inven-tor(s)	Institution/ Com-pany	Title of Invention	D O Filing	Patent Applica-tion No.
	Venkatesan VS	Manipal Institute of Technology, Manipal			
17	Raghu Chandrashekar H	Manipal College of Pharmaceutical Sciences, Manipal	A Pharmaceutical Formulation for Melittin-Induced Toxicity and a Method for Preparing the Same	01-11-2023	202341074529
	Tenzin Tender	Manipal College of Pharmaceutical Sciences, Manipal			
	Srinivas Mutalik	Manipal College of Pharmaceutical Sciences, Manipal			
	Madhavan Nam-poothiri	Manipal College of Pharmaceutical Sciences, Manipal			
18	Kamal	Manipal college of Health Professions, Manipal	A Dual-Mode T1/T2 MRI Contrast Agent for Theragnostic Applications and a Process for Synthesizing Thereof	02-11-2023	202341074659
	Rozy	Manipal college of Health Professions, Manipal			
19	Jefferson Prince	Manipal College of Dental Sciences, Mangaluru	Self-Locking Dental Device	03-11-2023	202341075207
	Srikant N	Manipal College of Dental Sciences, Mangaluru			
	Shravan Shetty	Manipal College of Dental Sciences, Mangaluru			
	Srinija Kasaraneni				
20	Tusar Kanti Mishra	Manipal Institute of Technology, Manipal	An Automated Document Assessment System	06-11-2023	202341075783
	Arka De				
	Sameeksha Saraf				
21	Srinivas Mutalik	Manipal College of Pharmaceutical Sciences, Manipal	Nanostructured Lipid Carriers Formulation and Method of Preparation Thereof	06-11-2023	202341075777
	Renuka Suresh Managuli	Manipal College of Pharmaceutical Sciences, Manipal			
	Shreya A B	Manipal College of Pharmaceutical Sciences, Manipal			
	Sushil Yadaorao Raut	Manipal College of Pharmaceutical Sciences, Manipal			
22	Sampath Kumar	Manipal Institute of Technology, Manipal	Obtaining Gau Arka from Cow Urine Using Centrifugal Machine	07-11-2023	202341076061

No	Name of Inven-tor(s)	Institution/ Com-pany	Title of Invention	D O Filing	Patent Applica-tion No.
23	P Kalyana Chakra-varthy	Manipal College of Dental Sciences, Manipal	Haemostatic Device to Avoid Excessive Bleeding During Minor Oral Surgery	13-11-2023	202341077259
	Srikanth G	Manipal College of Dental Sciences, Manipal			
24	Srikant N	Manipal College of Dental Sciences, Mangaluru	Device and Method for Enhanced Microscopy	17-11-2023	202341078331
	Amitha Lewis	Manipal College of Dental Sciences, Mangaluru			
	Yashodhara K	Manipal College of Dental Sciences, Mangaluru			
	Karen Boaz	Manipal College of Dental Sciences, Mangaluru			
	Nandita KP	Manipal College of Dental Sciences, Mangaluru			
	Nidhi Manaktala	Manipal College of Dental Sciences, Mangaluru			
	Shweta Yellapurkar	Manipal College of Dental Sciences, Mangaluru			
25	Sanjay Pattanshetty	Prasanna School of Public Health, Manipal	Research Facilitation System and Method Thereof	17-11-2023	202341078323
	Aniruddha Inamdar	Prasanna School of Public Health, Manipal			
26	Sajan Daniel George	Dept of Atomic and Molecular Physics, Manipal	System for Optical Printing of Metal Patterns Using a Projection Assembly and Method Thereof	20-11-2023	202341078711
	Bharath B	Dept of Atomic and Molecular Physics, Manipal			
	Monisha K	Dept of Atomic and Molecular Physics, Manipal			
27	Krishnananda Prabhu R V	Kasturba Medical College, Manipal	Flywheel-Coupled Podium Microphone	20-11-2023	202341078710
28	Sanjay Singh	Manipal Institute of Technology, Manipal	Information Retrieval System and Method Thereof	24-11-2023	202341079845
	Shubham Rateria				
29	Krishnananda Prabhu R V	Kasturba Medical College, Manipal	Portable Handle Rotation Coupled Light Device and Method Thereof	23-11-2023	202341079649
30	K Ramachandra Kamath	Kasturba Medical College, Mangaluru	System and Method for Converting Orthopaedic Wastes into Fertilizers and Industrial Products	23-11-2023	202341079647

No	Name of Inven-tor(s)	Institution/ Com-pany	Title of Invention	D O Filing	Patent Applica-tion No.
	Keerthan Ranga Nayak U	Kasturba Medical College, Mangaluru			
	Atmananda S Hegde	Kasturba Medical College, Mangaluru			
31	Guruprasad D Rai	Kasturba Medical College, Manipal	Implantable Ports	24-11-2023	202341079844
32	Manish Varun Yadav	Manipal Institute of Technology, Manipal	Method for Miniaturized Radiator for 5G Microwave Communications	22-11-2023	202341079379
	Chandru Kumar R	Manipal Institute of Technology, Manipal			
	Swati Varun Yadav	Manipal Institute of Technology, Manipal			
33	Valluri Saisinhu	Manipal Institute of Technology, Manipal	Portable Optical System and Spectroscopic Adducts for Point of Use Applications	22-11-2023	202341079378
	Pooja Nag				
	Kapil Sadani				
	Tadi Sai Ratnakar				
34	Arunachala U C	Manipal Institute of Technology, Manipal	An Effective Indoor Solar Cooking System Amalgamated with a Thermosyphon Heat Transport Device	21-11-2023	202341079080
	Varun K	Manipal Institute of Technology, Manipal			
	Vijayan P K				
35	Anupam Singh	Manipal College of Dental Sciences, Manipal	Apparatus for an Anterior Nasal Spine Retractor	21-11-2023	202341079078
	Srikanth G	Manipal College of Dental Sciences, Manipal			
	Lavanya Prakash	Manipal College of Dental Sciences, Manipal			
	Aashana Bhuvania	Manipal College of Dental Sciences, Manipal			
	Palak Mahato	Manipal College of Dental Sciences, Manipal			
36	Thakur Pranav Gopal Singh	Manipal Institute of Technology, Manipal	System and Method for Deploying Payloads in a Sounding Rocket	06-11-2023	202341075776
	Utkarsh Anand	Manipal Institute of Technology, Manipal			

No	Name of Inven-tor(s)	Institution/ Com-pany	Title of Invention	D O Filing	Patent Applica-tion No.
37	Srinivasan Varad-harajan	Manipal Institute of Technology, Manipal	A Composition of Concrete Consists of Crimped Steel Fibre, Fly ash, Construction and Demolition Waste, Waste Marble Powder Imperial Smelting Furnace Slag and Bottom Ash	21-11-2023	202341078921
38	Srinivasan Varad-harajan	Manipal Institute of Technology, Manipal	An Eco-Friendly Concrete Consists of Fly ash, Imperial Smelting Furnace Slag, and Stone Dust with Crimped Steel Fibre	21-11-2023	202341078920
39	Srinivasan Varad-harajan	Manipal Institute of Technology, Manipal	A Low-Carbon Emission Bricks Consisting of Wheat Husk, Rice Husk, Imperial Smelting Furnace Slag, Sand, and Local Soil	21-11-2023	202341078919
40	Srinivasan Varad-harajan	Manipal Institute of Technology, Manipal	An Eco-Friendly and Sustainable Concrete Comprises Imperial Smelting Furnace Slag, Silica Fume, Construction and Demolition Waste, Waste Marble Powder and Metakaolin	21-11-2023	202341078918
41	Madhavan Nam-poothiri G	Manipal College of Pharmaceutical Sciences, Manipal	Employing a Pharmaceutical Dosage Form of N- Acetyl L-Tryptophan in Alzheimer's Disease	28-11-2023	202341080730
	Jayesh Mudgal	Manipal College of Pharmaceutical Sciences, Manipal			
	Shaila Angela Lewis	Manipal College of Pharmaceutical Sciences, Manipal			
	Sairaj Satarker	Manipal College of Pharmaceutical Sciences, Manipal			
42	Sandesh R S	Manipal Institute of Technology, Manipal	System for Sensor Fusion in Unidirectional Vehicle Platooning Between Different Vehicles and Method Thereof	28-11-2023	202341080728
	Santhosh KV	Manipal Institute of Technology, Manipal			
43	Ananya Jha	Manipal College of Dental Sciences, Mangaluru	An Impervious One-Piece Integrated PPE with a Remountable Hepa Filter	29-11-2023	202341081030
	Jefferson Prince	Manipal College of Dental Sciences, Mangaluru			
44	Khushee Kapoor	Manipal Institute of Technology, Manipal	System for Integrating Big Data Storage with Quantum-Safe Encryption Technologies and Method Thereof	22-11-2023	202341079382
	Supriti Rosita	Manipal Institute of Technology, Manipal			
	Shreya Akurathi	Manipal Institute of Technology, Manipal			



No	Name of Inventor(s)	Institution/ Company	Title of Invention	D O Filing	Patent Application No.
	Shreyanka Das	Manipal Institute of Technology, Manipal			
	Vidya Rao	Manipal Institute of Technology, Manipal			
	Poornima Panduranga Kundapur	Manipal Institute of Technology, Manipal			
45	Navya Thirumaleshwar Hegde	Manipal Institute of Technology, Manipal	System for Localization of Vehicles Using Adaptive Deep Learning Technique and Method Thereof	22-11-2023	202341079380
	Vishnu G Nair	Manipal Institute of Technology, Manipal			
46	Muralikrishna S N	Manipal Institute of Technology, Manipal	Wheelchair Delivery Robot System and Method Thereof	13-11-2023	202341077257
	Raghurama Holla	Manipal Institute of Technology, Manipal			
	Raghavendra Ganiga	Manipal Institute of Technology, Manipal			
47	Ranjan Kumar Ghadai	Manipal Institute of Technology, Manipal	An Improved Aluminium Electrode for Electro Discharge Machining, and a Method for Manufacturing Thereof	04-12-2023	202341082465
	Prosun Mandal				
	Soham Das				
	Spandan Guha				
	Ishwer Shivakoti				
48	Sandesh R S	Manipal Institute of Technology, Manipal	System for Bi-Directional Data Transfer for Vehicle Platooning Between Different Vehicles and Method Thereof	04-12-2023	202341082462
	Santhosh KV	Manipal Institute of Technology, Manipal			
49	Shovan Saha	Manipal college of Health Professions, Manipal	Microscope Tilt Frame	01-12-2023	202341081847
	Asha Patil	Manipal college of Health Professions, Manipal			
	Anju M	Manipal college of Health Professions, Manipal			
50	Mithun Pa	Manipal College of Dental Sciences, Mangaluru	Device for the Curing of Composite Materials on a Target Region	06-12-2023	202341083223
	Dhiraj Panjwani	Manipal College of Dental Sciences, Mangaluru			

No	Name of Inven- tor(s)	Institution/ Com- pany	Title of Invention	D O Filing	Patent Applica- tion No.
	G Kamala	Manipal College of Dental Sciences, Mangaluru			
51	Vikram A L	Manipal Institute of Technology, Manipal	Method of Manufacturing Koms- 2 Fibre Catalyst from Natu- ral Cellulose and Use Thereof	06-12-2023	202341083227
	Nithya R	Manipal Institute of Technology, Manipal			
	Harshini Dasari	Manipal Institute of Technology, Manipal			
	Abhishek	Manipal Institute of Technology, Manipal			
	Nethaji S	Manipal Institute of Technology, Manipal			
52	Santhosh Chidangil	Dept of Atomic and Molecular Physics, Manipal	Fibre-Coupled LED-Induced Fluorescence Device for Cervical cancer Detection and Method Thereof	04-12-2023	202341082463
	Jijo Lukose	Dept of Atomic and Molecular Physics, Manipal			
	Rekha Upadhya	Kasturba Medical College, Manipal			
	Sanoop Pavithran M	Dept of Atomic and Molecular Physics, Manipal			
	Ajaya Kumar Barik	Dept of Atomic and Molecular Physics, Manipal			
	Udaya	Dept of Atomic and Molecular Physics, Manipal			
53	Vishwanath Mana- guli	Manipal Institute of Technology, Manipal	Biodegradable Self-Lock Tag De- vice and Method Thereof	07-12-2023	202341083490
	Nirmal Mazumder	Manipal School of Life Sciences, Manipal			
	Srivardhan Rao Polasani	Manipal Institute of Technology, Manipal			
	Ishita Chakraborty	Manipal School of Life Sciences, Manipal			
	Pooja	Manipal School of Life Sciences, Manipal			
54	Santhosh Chidangil	Dept of Atomic and Molecular Physics, Manipal	Method of Bioremediation of Dye Contaminated Water Using Moringa oleifera and Chrys- opogon zizanioides Plants	05-12-2023	202341082868

No	Name of Inventor(s)	Institution/ Company	Title of Invention	D O Filing	Patent Application No.
	Jijo Lukose	Dept of Atomic and Molecular Physics, Manipal			
	Rekha Upadhya	Kasturba Medical College, Manipal			
	Sanoop Pavithran M	Kasturba Medical College, Manipal			
	Ajaya Kumar Barik	Kasturba Medical College, Manipal			
	Udaya	Kasturba Medical College, Manipal			
55	Suneel Mundkur	Kasturba Medical College, Manipal	Patient Reported Incident Management System and Method Thereof	11-12-2023	202341084396
	Bryal D'Souza	Prasanna School of Public Health, Manipal			
	Ranjitha N V	Prasanna School of Public Health, Manipal			
	Jibu Thomas	Kasturba Medical College, Manipal			
56	R Vinoth	Manipal Institute of Technology, Manipal	Haemodialyzer Membrane Device and Method Thereof	14-12-2023	202341085475
	Ahana Fatima Alex				
	Ravishankar Dudhe				
57	Mohammad Saquib	Manipal Institute of Technology, Manipal	Supercapacitors Comprising a Ni-Mof-Based Nanocomposite Conductive Ink, Method of Preparing the Same, and Applications Thereof	14-12-2023	202341085473
	M Selvakumar	Manipal Institute of Technology, Manipal			
	Ramakrishna Nayak	Manipal Institute of Technology, Manipal			
	Vinod T Kamath	Manipal Institute of Technology, Manipal			
	Y N Sudhakar	Manipal Institute of Technology, Manipal			
58	Shailendra Kumar Tiwari	Manipal Institute of Technology, Manipal	Microfluidic Channel Integrated with Wire Microheater and Temperature Sensor and Method for its Fabrication Thereof	18-12-2023	202341086514
	Sandhya Parasnath Dubey	Manipal Institute of Technology, Manipal			
	Somashekara Bhat	Manipal Institute of Technology, Manipal			

No	Name of Inven- tor(s)	Institution/ Com- pany	Title of Invention	D O Filing	Patent Applica- tion No.
59	Ritu Raval	Manipal Institute of Technology, Mani- pal	An Optimized Media for the Growth of Hyphal Form of Can- dida albicans	18-12-2023	202341086512
	Rachana A				
	Keyur Raval				
60	Krishnananda Pra- bhu RV	Kasturba Medical College, Manipal	A Renewable Light Generator Obtaining Energy from a Clock Spring	18-12-2023	202341086515
61	Ritu Raval	Manipal Institute of Technology, Mani- pal	Method of Degradation of Tri- clocarban Using Acinetobacter Baylyi	18-12-2023	202341086513
	Vidhula Jessica				
	Aditi Balasubrama- nian				
	Akanksha Kelkar				
	Ilora Samanta				
	Pooja Agarwal				
	Nidhi Mallya				
	Aritro Biswas				
	Rajat Sreeraj				
	Manu Upadhye				
	Janani Srira- makrishnan				
	Riyaa Ganla				
	Khushi A Gulati				
62	Ankitha Rao	Manipal Institute of Technology, Mani- pal	A Method for Enhancing the Quality of Laser-Induced Graphene (Lig) Electrode	19-12-2023	202341086917
	Somashekara Bhat	Manipal Institute of Technology, Mani- pal			
	Shounak De	Manipal Institute of Technology, Mani- pal			
63	Sanjay Singh	Manipal Institute of Technology, Mani- pal	System for Lane Detection in Au- tonomous Vehicle Using Hybrid Deep Learning Architecture and Method Thereof	19-12-2023	202341086927
	Pranav Chaudhari				
	Abishek				
	Shivani G Aithal				
64	K Prathik Kamath	Manipal Institute of Technology, Mani- pal	Automated Bundling Device for Fishing Nets and Method Thereof	27-12-2023	202341089129
	Indira K P	Manipal Institute of Technology, Mani- pal			
65	Dinesh Upadhyia	Kasturba Medical College, Manipal	Small Extracellular Vesicle Drug Delivery System for the Manage- ment of Chronic Epilepsy	26-12-2023	202341088855
	Abhijna R Ballal	Kasturba Medical College, Manipal			

No	Name of Inventor(s)	Institution/ Company	Title of Invention	D O Filing	Patent Application No.
	Shivakumar K Reddy	Kasturba Medical College, Manipal			
	Divya Chandran	Kasturba Medical College, Manipal			
	Sumukha Hegde	Kasturba Medical College, Manipal			
	Raghavendra Upadhyaya	Manipal Centre for Biotherapeutics Research, Manipal			
66	Chiranjay Mukhopadhyay	Manipal Institute of Virology, Manipal	A Composition, Method, and a Kit for Simultaneous Detection of Multiple Pathogens Causing Congenital Infection	21-12-2023	202341087713
	Sathishkumar Arumugam	Manipal Institute of Virology, Manipal			
67	Rupambika Sahoo	Manipal college of Health Professions, Manipal	System and Method for Monitoring Development of Infants	19-12-2023	202341086919
	Sebestina Anita D'Souza	Manipal college of Health Professions, Manipal			
	Balachandra	Manipal Institute of Technology, Manipal			
	Sumita Rege	Manipal college of Health Professions, Manipal			
	Leslie Edward S Lewis	Kasturba Medical College, Manipal			
	Shwetha Acharya	Manipal college of Health Professions, Manipal			
68	Anuhya Jayanthi	Manipal College of Dental Sciences, Manipal	A Real Time Monitoring Enabled Transdermal Patch for Chemotherapy Treatment	17-12-2023	202341086111
	Hargun Kochhar	Manipal College of Dental Sciences, Manipal			
69	Anuhya Jayanthi	Manipal College of Dental Sciences, Manipal	A Transdermal Patch for Chemotherapy Treatment of Oral Cancer	17-12-2023	202341086110
	Hargun Kochhar	Manipal College of Dental Sciences, Manipal			
70	Rutuja Sunil Ulhe	Manipal School of Architecture and Planning, Manipal	A Chair with Adjustable Tray for Dental Procedures	21-12-2023	202341087810
	Gayathri Krishnamoorthy	Manipal College of Dental Sciences, Manipal			
	Paranjay Bhawsinghka	Manipal College of Dental Sciences, Manipal			

No	Name of Inventor(s)	Institution/ Company	Title of Invention	D O Filing	Patent Application No.
	Kushi Singhvi	Manipal College of Dental Sciences, Manipal			
	Syed Anas Ahmed	Manipal College of Dental Sciences, Manipal			
	Chaarvi Bansal	Manipal College of Dental Sciences, Manipal			
	Sega Maria Mathew	Manipal College of Dental Sciences, Manipal			
71	Rutuja Sunil Ulhe	Manipal School of Architecture and Planning, Manipal	An Ergonomic Dental Chair with Adjustable Tray	21-12-2023	202341087811
	Gayathri Krishnamoorthy	Manipal College of Dental Sciences, Manipal			
	Paranjay Bhawsinghka	Manipal College of Dental Sciences, Manipal			
	Kushi Singhvi	Manipal College of Dental Sciences, Manipal			
	Syed Anas Ahmed	Manipal College of Dental Sciences, Manipal			
	Chaarvi Bansal	Manipal College of Dental Sciences, Manipal			
	Sega Maria Mathew	Manipal College of Dental Sciences, Manipal			
72	Shravani Kulkarni	Manipal College of Dental Sciences, Manipal	A Universal Signage Design for Wayfinding	26-12-2023	202341088905
	Aditi Ganesh Sabnis	Manipal College of Dental Sciences, Manipal			
	Tarunya Sivakumar	Manipal College of Dental Sciences, Manipal			
73	Shravani Kulkarni	Manipal College of Dental Sciences, Manipal	A Universal Signage Design for Wayfinding	26-12-2023	202341088907
	Aditi Ganesh Sabnis	Manipal College of Dental Sciences, Manipal			
	Tarunya Sivakumar	Manipal College of Dental Sciences, Manipal			
74	Siddhant Chhabra	Manipal College of Dental Sciences, Manipal	A Collapsible Interactive Screen	26-12-2023	202341088902



No	Name of Inventor(s)	Institution/ Company	Title of Invention	D O Filing	Patent Application No.
75	Siddhant Chhabra	Manipal College of Dental Sciences, Manipal	An Interactive Screen	26-12-2023	202341088904
76	Komal Smriti	Manipal College of Dental Sciences, Manipal	A Dental Comfort Kit for Anxiety Reduction	21-12-2023	202341087808
	Tejas Swarna Vikram	Manipal College of Dental Sciences, Manipal			
	Prisha Mahesh	Manipal College of Dental Sciences, Manipal			
	Anushka Sharma	Manipal College of Dental Sciences, Manipal			
	Ananya Nayak	Manipal College of Dental Sciences, Manipal			
	Harshita Shetty	Manipal College of Dental Sciences, Manipal			
	Tejaswini Pralhad Bedekar	Manipal School of Architecture and Planning, Manipal			
77	Komal Smriti	Manipal College of Dental Sciences, Manipal	A Paediatric Dental Comfort Kit for Anxiety Reduction in Children	21-12-2023	202341087809
	Tejas Swarna Vikram	Manipal College of Dental Sciences, Manipal			
	Prisha Mahesh	Manipal College of Dental Sciences, Manipal			
	Anushka Sharma	Manipal College of Dental Sciences, Manipal			
	Ananya Nayak	Manipal College of Dental Sciences, Manipal			
	Harshita Shetty	Manipal College of Dental Sciences, Manipal			
	Tejaswini Pralhad Bedekar	Manipal School of Architecture and Planning, Manipal			
78	Krish Pandey	Manipal College of Dental Sciences, Manipal	A Windshield Cleaning Apparatus	26-12-2023	202341088903
	Shamantha Shastri	Manipal College of Dental Sciences, Manipal			
	Akarsh P Poojary	Manipal College of Dental Sciences, Manipal			

No	Name of Inventor(s)	Institution/ Company	Title of Invention	D O Filing	Patent Application No.
	Arnav N Udupa	Manipal College of Dental Sciences, Manipal			
79	Vidhi Mathur	Manipal Centre for Biotherapeutics Research, Manipal	System and Method for Providing Automatic Volume Modulation in Entertainment Devices	09-12-2023	202341084114
	S V Kirthanashri	Manipal Centre for Biotherapeutics Research, Manipal			
	S Varadharajan	Manipal Institute of Technology, Manipal			
	Raviraja NS	Manipal Centre for Biotherapeutics Research, Manipal			
80	Preetiparna Parida	Kasturba Medical College, Manipal	Method for Sequencing Integration and Transposition Events in a Genome	08-12-2023	202341083889
	Rama Rao Damerla	Kasturba Medical College, Manipal			
	Sandeep P Mallya	Manipal School of Life Sciences, Manipal			
81	Shreyasi Mukherjee	Manipal College of Dental Sciences, Manipal	An Interactive Stress Reliever Puzzle Toy for Children	28-12-2023	202341089532
	June Maity	Manipal College of Dental Sciences, Manipal			
	Akshaya M R	Manipal School of Architecture and Planning, Manipal			
	Swathi	Manipal School of Architecture and Planning, Manipal			
	Reesha Satish Kini	Dept of Commerce, Manipal			
82	Krishna Kishore Mahato	Manipal School of Life Sciences, Manipal	Systems, Tools and Methods for Cancer Prediction Based on Fluorescence Spectroscopy	05-12-2023	202341082808
	Ashwini Amin	Manipal School of Life Sciences, Manipal			
	Jackson Rodrigues	Manipal School of Life Sciences, Manipal			
	Stanley Mathew	Kasturba Medical College, Manipal			
	Satadru Ray	Kasturba Medical College, Manipal			
	Subhash Chandra	Manipal School of Life Sciences, Manipal			

## D. Grants Office, Directorate of Research, MAHE, Manipal

In the ever-evolving landscape of academia, MAHE has consistently held research at the core of its mission. Positioned as a trailblazer in the Knowledge Era, the university proudly stands as a beacon of innovation and scholarly excellence. As we navigate the complexities of the contemporary academic realm, the university remains resolute in its commitment to catalyzing cutting-edge research initiatives and innovation. In a commitment to advancing research innovation, our faculty actively seek research grants from diverse agencies, including but not limited to ICMR, ICSSR, DST, DBT, INSA, and SERB.

As of December 2023, we have about 380 sponsored research for which we have received ~25 Cr Rs. The overall sanctioned project for all the ongoing research is around ~110 Cr Rs.

Grant received during the quarter Oct-Dec 2023	
No of new grants sanctioned	41
Total amount sanctioned (In crore)	9.73 Cr
No of ongoing grant amount received during the quarter	137+
Ongoing grant amount received during the quarter	8 Cr+

As per RMS, the grant application for this quarter is 132 of which we have 92 research grant applications. We have noticed a y-o-y growth for sponsored research application.

Grants applied (Calendar year)			
	2022	2023	Year-on-year growth
Total grants applied	745	894	20%
Total research grants applied	549	717	31%

The Directorate of Research at MAHE holds a crucial position in overseeing the entire grant process, covering pre-award planning to post-award reporting. Although navigating the grant-seeking process may pose challenges, particularly for inexperienced researchers, successful administration of complex research initiatives is achievable with efficient management, appropriate resources, and a well-organized workflow. At DoR, our foremost goal is to ensure the smooth implementation of research grant projects, adhering fully to the policies of both funding bodies and MAHE.

To oversee the comprehensive grant process, spanning from pre-award planning to ultimate reporting, the administration of MAHE has instituted a Grants Office (GO) within the central Directorate of Research. The Grants Coordinator (GC) is responsible for managing the operations of the GO. Our central goal at GO is to elevate both the quantity and quality of research funding. Additionally, we aim to support academic and research scholars in enhancing their research outcomes at MAHE.

We ensure our researchers stay updated on the latest grant opportunities through various channels such as Funding Institutional, the Grants Management portal, and email communications. Our objective is to support faculty and researchers in achieving our common goals. Moreover, the GC will function as the key contact person for crucial discussions related to finance, legal matters, and HR issues. The GC will also serve as a liaison between the institution and funding entities. All MAHE research grant applicants need to maintain up-to-date project information in the RMS portal.

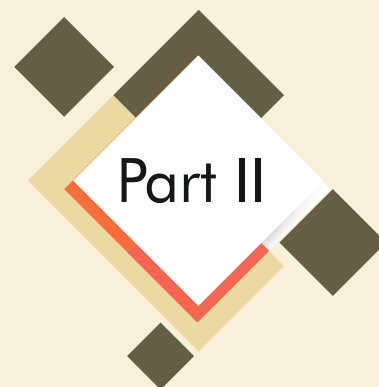
Note: From now on, the Directorate of Research should receive any paperwork that needs to be signed by the Registrar in connection with applications for research grants. Send an email of the document in word format that needs to be signed by the registrar to [grants.mu@manipal.edu](mailto:grants.mu@manipal.edu).

### Contact Details:

Mr Royal Monteiro, Coordinator - Grants Office, MAHE, Manipal  
DBT/Welcome Trust India Alliance IRMI Research Management Fellow  
Member of National Council of University Research Administrators, Washington, DC

**Email:** [grants.mu@manipal.edu](mailto:grants.mu@manipal.edu)

**Phone:** 0820-29-37733



## A. Faculty and institution achievements

1. **Dr Shashidhar Acharya**, Professor, Dept of Public Health Dentistry, MCOADS, Manipal, has been listed among the World's top two per cent most-cited scientists by John P A Ioannidis. The World's top two per cent scientists featuring 20 distinguished scientists from MAHE.
2. **Dr Kalyana Chakravarthy Pentapati**, Associate professor, Dept of Public Health Dentistry, MCOADS, Manipal, received Faculty of Public Health Dentistry with the Highest Research Output – 'The Mani Bhagyalakshmi IAPHD Silver Jubilee Endowment Award – 2023' at 27th National Conference of Indian Association of Public Health Dentistry conference held from 1 to 3 Dec 2023 at Faculty of Dental Sciences, SGT University, Gurugram.

<p><b>Dr Shikha Jayasheela</b>, Assistant Professor, Dept of Pathology, KMC, Mangaluru won first prize for the Scientific Poster Presentation titled 'Paediatric Plasmablastic Lymphoma: A diagnostic dilemma' 49th Annual State Conference of the Karnataka Chapter – Indian Association of Pathologists and Microbiologists (KCIAPM)- KAPCON 2023 held from 06 to 08 Oct 2023.</p>	
<p><b>Dr Vidyalakshmi K</b>, Professor, Dept of Pathology, KMC Mangaluru won first prize in poster presentation National CME on Anaerobes Human Microbiome in Health and Dysbiosis – 'Debunking Myths' at Father muller Medical College held on 14 Oct 2023.</p>	
<p><b>Dr Archana Bhat</b>, Associate Professor, Dept of Pathology, KMC, Mangaluru won second prize in the final assessment at Antimicrobial Stewardship Course KMC, Mangaluru and Pfizer Private Limited held on 07 Oct 2023.</p>	
<p>Dr Kamalakshi G Bhat, Professor, Dept of Paediatrics, KMC, Mangaluru won first prize in a Poster Presentation titled 'Mental Health issues in adolescents living with HIV/AIDS' at the National Conference of Adolescent Chapter of IAP 2023 at Amritsar, Punjab held from 06 to 08 Oct 2023.</p>	
<p>Dr Debashish Biswal, Assistant Professor, Microbiology, KMC, Mangaluru won first prize in an oral presentation titled Rapid Detection of Carbapenemases and Phenotypic synergy testing of Ceftazidime -Avibactam with Aztreonam on extensively drug-resistant gram-negative pathogens defining the zone of the hop at 46th National Conference of Indian Association of Medical Microbiology (IAMM) MICROCON 2023 held from 23 to 26 Nov 2023.</p>	

<p>Dr Preethi J Shenoy, Additional Professor, Dept of Pharmacology, KMC, Mangaluru won second prize for Best Poster presentation at ISRPTCON 2023 held on 05 Nov 2023.</p>	
<p>Dr Anupama N, Professor, Dept of Physiology, KMC, Mangaluru won Best Poster Award at the seventh International Conference on 'Basic and Applied Physiology' held in Dec 2023 at Ahmedabad from 23 to 24 Dec 2023.</p>	
<p>Dr Kunal, Associate Professor, Dept of Physiology, KMC, Mangaluru won the Best Poster Award seventh International conference on 'Basic and Applied Physiology' held in Dec 2023 at Ahmedabad from 23 to 24 Dec 2023.</p>	
<p>Dr John Ramapuram, Professor, Dept of Medicine, KMC, Mangaluru was felicitated for HIV health service unique contribution by the DK District authorities with HIV Alliance during world AIDS day-2023 at Kanachur Hospital for the unique contribution on 01 Dec 2023.</p>	
<p>Dr Archith Bloor, Additional Professor, Dept of Medicine, KMC, Mangaluru was felicitated for a contribution towards medical literature ESI-PGIMSR ESCI Medical College and Hospital, Joka during INTERITUS 2023 Conference at Kolkata held on 13 Dec 2023.</p>	
<p>Dr K Jayarama Shenoy, Professor, Dept of Surgery, KMC, Mangaluru received the award of 'Outstanding ASI member of the year 2023' in the conference ASICON 2023 held at Visakhapatnam, Andhra Pradesh on 16 Dec 2023.</p>	
<p>Dr Medha Urval, Assistant Professor, Dept of Surgery, KMC, Mangaluru won the best Poster Award (second prize) for the poster title 'Hidden Surprises Male with Undescended Testis Reveals an unexpected Uterus' and received the award of 'Outstanding ASI member of the year 2023' in the conference ASICON 2023 held at Visakhapatnam, Andhra Pradesh held from 13 to 16 Dec 2023.</p> <p>Completed Basic Surgical Skills (Intercollegiate BSS) at Symbiosis Centre for health skills (SCHS) Nov 2023.</p>	

<p>Dr Dilson Lobo, Associate Professor, Dept of Radiation Oncology, KMC, Mangaluru received the AFOMS Best PhD award from the Asia Oceania federation organization held on 06 Dec 2023.</p>	
<p>Dr Murlimanju B V, Associate Professor, Dept of Anatomy, KMC, Mangaluru published a book titled Recent Advances in Community Medicine and Public Health (Vol 2) ISBN No-978-81-19492-46-6.</p>	
<p>Dr Pooja Rao, Associate Professor, Dept of Microbiology has contributed two chapters on Respiratory infections and Miscellaneous infections in the book Lippincott Illustrated Reviews Microbiology ISBN 978-93-95736-51-0.</p>	
<p>Dr Pratik Kumar Chatterjee, Associate Professor, Dept of Physiology has contributed a chapter on AETCOM modules in the book Lippincott Illustrated Reviews Microbiology ISBN 978-93-95736-51-0.</p>	
<p>Dr Rakshatha Nayak, Assistant Professor, Dept of Pathology, KMC, Mangaluru has published two books titled 'Review of Postgraduate Pathology- Systemic pathology', Volume 1 and 2 ISBN NO ISBN-13: 978-9356963078, ISBN-10: 935696307X.</p>	
<p>Dr Jyoti R Kini, Professor and Head, Dept of Pathology, KMC, Mangaluru has contributed a chapter on Automated Molecular Subtyping of Breast Cancer Through Immunohistochemistry Image Analysis -23.</p> <p>Dr Pooja K Suresh, Additional Professor and Dr Saraswathy Sreeram, Associate Professor, Dept of Pathology, KMC, Mangaluru have contributed chapters on Semi-supervised Semantic Segmentation for Effusion Cytology Images- 429 and Semi-supervised Semantic Segmentation of Effusion Cytology Images Using Adversarial Training – 539 in the book Lecture Notes in Networks and Systems ISSN 2367-3370 ISSN 2367-3389 (electronic) ISBN 978-981-19-7866-1 ISBN 978-981-19-7867-8 (eBook).</p>	  



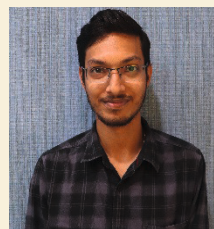
<p>Dr Jayashree K, Associate Professor, Dept of Paediatrics, KMC, Mangaluru has contributed a chapter on Media Usage in Adolescents in the book Adolescent -Friendly Paediatric Practice ISBN No- ISBN-13:978-9356961579, ISBN-10-9356961573.</p>	
<p>Dr Griselda P Noronha, Assistant Professor, Dept of Radiology, KMC, Mangaluru has successfully cleared the Fellowship of the Royal College of Radiologists (FRCR) examination in Oct 2023.</p>	
<p>Dr Merwyn Fernandes, Associate Professor, Dept of Radiology, KMC, Mangaluru has completed the Advanced International Mini Fellowship in Abdominal Imaging and Intervention at Apollo Radiology International, Hyderabad Nov 2023.</p>	
<p>Dr, Fathima Raeesa, Senior Resident, Dept of Radiology, KMC Mangaluru has completed the EDiR exam in New Delhi under the European Board of Radiology Nov 2023.</p>	
<p>Dr Nidhi Raj, Assistant Professor, Dept of Radiology, KMC, Mangaluru has completed the prestigious fellowship in foetal medicine, under the mentorship of Dr Adinarayan Makam at Bengaluru Nov 2023.</p>	
<p>Dr Rohit Ravi, Assistant Professor Senior Scale, Dept of ASLP, KMC, Mangaluru completed his Post-Doctoral Research Fellowship at Utah State University, USA from 24 Oct 2022 to 23 Oct 2023.</p>	

1. We are happy to inform you that two start-ups associated with the Medical Devices Lab, Biomedical Dept have won ELEVATE 2023 start-up IDEA2PoC Grant scheme of Karnataka **Startup Policy 2022-27, KITS, Dept of Electronics, IT, Bt and S&T Govt of Karnataka.**

#### Team 1



**Dr Mathew Peter (Faculty)**



**Mr Rudra Nath Ghosh  
(Research Scholar)**

#### **Dr Mathew Peter (Faculty)**

Name of the project: 3D biopolymer-based hydrogel scaffold for primary wound coverage

Principal Investigator: Mr Rudra Nath Ghosh (PhD Student, BME)

Team Member/Co-Principal Investigator: Dr Joseph Thomas, Dept of Plastic Surgery

Mentor and Team Member/Co-Principal Investigator: Dr Mathew Peter, (Guide, BME)

Funding agency: Team- Startup Karnataka, K-Tech, Karnataka Innovation and **Technology Society**

Funding amount: Rs 18,00,000/-

Duration of the Project: 18 months

Year: 2023

## **Team 2**



### **Mr Shamanth Madapur (Research Associate)**

Name of the project: Second-generation Urinary Incontinence Trainer

Principal Investigator: Dr Bhamini Krishna Rao, Professor, Dept of Physiotherapy, MCHP, Manipal

Co-Principal Investigator: Mr Shamanth Madapur, Research Associate, Medical Device lab, BME, MIT, Manipal

Team Members: Harikishan B Shetty (Former Research Associate, Medical Device Lab, BME, MIT, Manipal)

Dr Sivakumar G (Associate Professor at Dept of Physiology, KMC, Manipal)

Mentor: Dr Venkatesan (Ex-Professor, Dept of Biomedical Engineering, MIT, Manipal)

Funding agency: Team- Start-up Karnataka, K-Tech, and Karnataka Innovation and **Technology Society**

Funding amount: Rs 18 lakhs



Duration of the project: 18 months

Year: 2023

1. Prathvi Shenoy, Assistant Professor, E&E, MIT, Manipal, has been honoured with the Best Paper Award for the paper titled 'Mathematical Models to Compare the Pharmacokinetics of Methadone, Buprenorphine, Tramadol, and Tapentadol' in the Two-Day International Conference held from 4 to 5 Oct 2023 at MAHE, Dubai.
2. Paper titled 'Personalized Estimation and Modification of the Elbow Angular displacement for upper Limb Exoskeletons' authored by Sarun Soman Assistant Professor Sr Sc Dept of E&E, MIT, Manipal, has been awarded the Best Paper Award in the Track Robotics of 2023 IEEE International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics (2023 IEEE DISCOVER – Conference Record #58830 organized by IEEE Mangaluru Subsection at Sahyadri College of Engineering and Management, Adyar, Mangaluru, Karnataka during 13 to 14 Oct 2023.
3. Harshendra N Shet, Assistant Professor, Sr Sc Dept of E&E, MIT, Manipal, has been honoured with the Best Paper Award (Category: Technology) for the paper titled 'Comparison of Global warming Potential of alternate and conventional fuel for four-wheeler vehicle in India through life cycle analysis' in the 2023 IEEE Technology and Engineering Management Conference Asia Pacific (TEMSCON-ASPAC-2023) held during 15 to 16 Dec 2023 at Bengaluru.
4. Dr Arjun Sunil Rao, Assistant Professor, Dept of Electronics and Communication Engineering, MIT of Technology, MAHE, Manipal, was honoured with the Best Paper Award at the International Conference on Electronics, Mechanical and Nanotechnology organized by the Institute of Engineering and Technology, Srinivas University, Mangaluru – 574146 from 29 to 30 Dec 2023. Dr Arjun Sunil Rao presented a research paper on 'Design, fabrication and device characterization of Aluminum Nitride based Micro cantilever using surface micro machining process'.



1. Dr Anish Kumar Warriar, Associate Professor and Dr K Balakrishna, Professor, Dept of Civil Engineering, MIT, have been sanctioned a new research project from the Indian National Centre for Ocean Information Services (Ministry of Earth Sciences, Govt of India). The three-year research project titled 'Understanding the biogeochemical processes and dynamics of pelagic fishery resources off Udupi/Mangaluru region: Validation of the PFZ advisory data' is worth Rs 93,15,000/-

	
<p align="center"><b>Dr Anish Kumar Warriar (Principal Investigator)</b></p>	<p align="center"><b>Dr K Balakrishna (Co-Principal Investigator)</b></p>

2. Dr Siddappa I Bekinal, Associate Professor, Dept of Mechanical and Industrial Engineering, MIT, MAHE, Manipal received a best paper award for the paper titled 'Dynamic Analysis of 650 W Vertical Axis Wind Turbine Rotor System Supported by Radial Permanent Magnet Bearings' at Two Day International Conference on Recent Advances in Science and Engineering held from 4 to 5 Oct 2023 at MAHE, Dubai.
3. Dr Shiva Kumar, Professor, Dept of Mechanical and Industrial Engineering, MIT, MAHE, Manipal was recognized among the top two per cent of scientists worldwide in Energy by Stanford University.
4. Dr Shiva Kumar, Professor, Dept of Mechanical and Industrial Engineering, MIT, MAHE, Manipal received the best paper and best researcher award for the paper titled 'Comparative performance and energy analysis of the various configuration organic packings used in evaporative cooling' at Two-Day International Conference on Recent Advances in Science and Engineering held from 4 to 5 Oct 2023 at MAHE, Dubai.
5. Nithesh Naik, Dept of Mechanical and Industrial Engineering, MIT, MAHE, Manipal was recognized among the top two per cent of scientists worldwide in Material Science by Stanford University.
6. Nithesh Naik, Dept of Mechanical and Industrial Engineering, MIT, MAHE, Manipal presented an invited talk titled 'Biomechanical Analysis of Osteofixation System with Different Fixation Design for Mandibular Angle Fracture Using Finite Element Method' at the MI-DENT (MAHSA International Dentistry Conference) in 2023 at MAHSA University, Malaysia. This presentation delved into the biomechanical aspects of osteofixation systems for mandibular angle fractures, employing the Finite Element Method for analysis.



1. Dr Ritu Raval, Associate Professor, Dept of Biotechnology, MIT received 'The Marshall Award for Researcher' for her contribution to the field of Chitin/Chitosan at the International Conference on Chitosan and tenth Indian Chitin Chitosan Symposium on 8 to 9 Dec 2023 organized by National Institute of Pharmaceutical Education and Research, Kolkata.
2. Dr Narendra Khatri, Assistant Professor in Dept of Mechatronics Manipal Institute of Tech, Manipal, was awarded the best paper award for a paper titled, 'Detection of Acute Lymphoblastic Leukemia Using CollateNet' by Samyak Jain, Parthi Vishwanath, Praveen Kumar Shukla, Narendra Khatri, in third international conference on Technological advancement in computational sciences (ICTACS-2023), IEEE, 2023 organized by Amity University Tashkent during 1 to 3 Nov 2023. Further, he has one design patent granted 'Autonomous Smart Farm Vehicle for Precision Agriculture'.
3. Dr K Abhimanyu Kumar Patro, Assistant Professor of the Mechatronics Dept, Manipal Institute of Tech, Manipal, has four patents granted and authored a book titled 'Cryptography and Network Security' (first edition) in Scientific International Publishing House, Dec 2023. ISBN: 978-93-5757-902-5.
4. Dr Ankur Jaiswal, Assistant Professor of the Mechatronics Dept, Manipal Institute of Tech, Manipal, has received seed money with 49k for the project titled 'Design and Development of the Dexterous Soft Robotic Gripper for Agriculture Applications'.


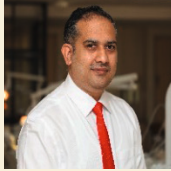


Dr K Balakrishna, Professor of Geology in the Dept of Civil Engineering, MIT, Manipal received the Best Paper award in the international conference 'Recent Advances in Science and Engineering' held at MAHE, Dubai, between 4 and 5 Oct 2023. He received this award for the paper titled 'Treating Pharmaceuticals and Personal Care Products in the Wastewater Using Gamma Irradiation'.



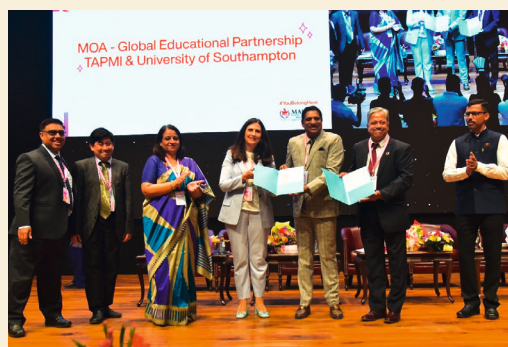
Dr Binay Kumar Tripathy, Assistant Professor in the Dept of Civil Engineering, MIT, Manipal has received the Springer- Nature award for best presentation at the third International Conference on Water Technologies (ICWT-2023) on 4 to 7 Dec 2023 at IIT, Bombay in collaboration with Asian University Alliance. The title of the presentation was 'Influence of ZnO nanoparticle- on rural rubber wastewater treatment using a sequential coagulation-flocculation and ultraviolet assisted Fenton oxidation.'



<p>Dr Ashwin Rao, Associate Professor, Dept of Paediatric and Preventive Dentistry, Manipal College of Dental Sciences, Mangaluru won the first prize for his poster presentation at the 44th Indian Society Paediatric and Preventive Dentistry National Conference, held at Karnavati University, Ahmedabad from 27 to 29 Oct 2023.</p>	
<p>Dr Laxmish Mallya, Associate Professor, Dept of Conservative Dentistry and Endodontics, Manipal College of Dental Sciences, Mangaluru was awarded second place for paper presentation at the 38th IACDE National Conference 2023, Kolkata from 30 Nov to 3 Dec 2023.</p>	
<p>Dr Praveen Jodalli, Associate Professor, Dept of Public Health Dentistry, Manipal College of Dental Sciences, Mangaluru won first place for paper presentation at the 27th National IAPHD Conference held at Faculty of Dental Sciences, SGT University, Gurugram from 1 to 3 Dec 2023.</p>	
<p>Dr Nandita Shenoy, Associate Professor, Dept of Oral Medicine and Radiology, Manipal College of Dental Sciences, Mangaluru won second place for Paper Presentation at Indian Dental Association, Karnataka State conference, MCOADS, Mangaluru from 15 to 17 Dec 2023.</p>	

1. Dr Ankitha Shetty, Assistant Professor, Senior Scale, Dept of Commerce, MAHE, Manipal was invited to take part as Visiting Scholar for the Visiting Scholar Program at INTI International University, Malaysia held from 10 to 16 Dec 2023.
2. Dr Savitha Basri, Professor, Dept of Commerce, MAHE, Manipal was granted an amount of Rs 15,00,000 by ICSSR funding agency for the project titled 'Pradhan Mantri Bharatiya Janaushadhi Pariyojana: An Evaluation of Physicians, Patients, Jan Aushadhi Owners Experiences and Supply Chain Management in select districts of Karnataka and Tamil Nadu'.

Institutional achievement: TAPMI, Bengaluru, in collaboration with Southampton Business School, University of Southampton, UK conducted a two-day (28 and 29 Oct 2023) Global Leadership Conference (GLC) at MAHE, Bengaluru campus. The conference was focused on the theme 'AI-Powered Leadership: Navigating the Future of Business and Society'. The event saw participation from business leaders of corporate organizations.



Dr John Solomon M, Additional Professor and Head, Dept of Physiotherapy, MCHP has been appointed as the Editorial member of 'The International journal of Stroke'.



Mrs Kavitha Vishal, Assistant Professor- Selection Grade, Dept of Physiotherapy, MCHP was awarded the best presenter- oral/poster category during ICHTR 2023, organized by MAHE-SRF held at MAHE, Bengaluru campus on 06 and 07 Nov 2023.

She has also received a British Journal of Sports Medicine (BJSM) research grant award of £2000 (Approx Rs 2,10,000).

Ms Tina Agnes, Assistant Professor, Dept of Physiotherapy, MCHP secured second prize in the poster competition for the poster titled 'Mhealth apps for physical activity and exercise in older adults with type 2 Diabetes mellites: A scoping review' at Sri Ramachandra International Physiotherapy Colloquium (SRIPC) 2023 held virtually on 29 Nov 2023.



Ms Vidya Nayak presented a paper (Original article) titled 'Temporal changes in myocardial structure and function among foetal growth restriction neonates – a cohort study' in the conference and was awarded first prize.



Ms K Prathiksha Prabhu presented a paper (Original article) titled 'Assessment of foetal myocardial function using a novel technique of foetal hq in predicting adverse perinatal outcomes' in the conference and was awarded first prize.



Dr Winnecia Dkhar was invited as a resource person on the topic 'Advanced Imaging Techniques in Detection of Breast Cancer' at the National Level Conference on Artificial Intelligence and Future Prospects of Medical Imaging, organized by the Yenopaya (Deemed to be University) at Yendurance Zone, Yenepoya (Deemed to be University), Mangaluru.



Dr Saikiran P was invited as a Resource person on the topic 'Advancements in MRI Neuroimaging' at the National Conference on Integrating Science and Practice Enhancing: Neuro and Trauma Radiography, organized by the Dept of Radiology and Imaging Technology, SAHS, VMRF-DU, Salem.

- Dr Vidya Patwardhan, Professor, Welcomgroup Graduate School of Hotel Administration, MAHE, Manipal was honoured with the Best Paper Award at RAiSE (2023) Conference (2023) held on 4 and 5 Oct 2023 in Dubai, UAE.
- Dr Senthil Kumaran P, Professor, Welcomgroup Graduate School of Hotel Administration, MAHE, Manipal was honoured with Best Research Paper: First Runner Up Award for his research paper at Tourism Gastronomy Destination International Conference (2023) from 15 to 17 Nov 2023 at Kuala Lumpur, Malaysia.
- Dr Partho Pratim Seal, Associate Professor, Welcomgroup Graduate School of Hotel Administration, MAHE, Manipal was honoured with Best Research Paper: Second Runner Up Award at Tourism Gastronomy Destination International Conference (2023) from 15 to 17 Nov 2023 at Kuala Lumpur, Malaysia.
- Dr Partho Pratim Seal, Associate Professor, Welcomgroup Graduate School of Hotel Administration, MAHE, Manipal was honoured with the Best Research Presenter Award at the Tourism Gastronomy Destination International Conference (2023) from 15 to 17 Nov 2023 at Kuala Lumpur, Malaysia.



- Dr Reena Verma, Associate Professor, Welcomgroup Graduate School of Hotel Administration, MAHE, Manipal was honoured with the Outstanding Webinar Presentation Award at second International Webinar on Nutrition and Healthcare held from 24 to 25 Nov 2023.
- Dr Vidya Patwardhan, the Professor, was honoured with Dr TMA Pai Gold Medal for Outstanding Research Paper for the Year 2021 at Annual Day and Award Ceremony of the Welcomgroup Graduate School of Hotel Administration, MAHE, Manipal Presenter Award held on 7 Dec 2023.
- Dr Narayan Bhasker Prabhu Matti, Associate Professor, was honoured with Dr TMA Pai Gold Medal for Outstanding Research Paper for the Year 2022 at Annual Day and Award Ceremony of the Welcomgroup Graduate School of Hotel Administration, MAHE, Manipal Presenter Award held on 7 Dec 2023.
- Mr Valsaraj P, Associate Professor, was honoured with the Research Excellence Award for the highest number of publications at Annual Day and Award Ceremony of the Welcomgroup Graduate School of Hotel Administration, MAHE, Manipal Presenter Award held on 7 Dec 2023.
- Dr Senthil Kumaran P, the Professor, was honoured with the Research Excellence Award for the highest number of publications at Annual Day and Award Ceremony of the Welcomgroup Graduate School of Hotel Administration, MAHE, Manipal Presenter Award held on 7 Dec 2023.
- Ganesh C B, Assistant Professor, TAPMI, MAHE (2023) presented working papers at the 54th Annual DSI conference, in Atlanta. His co-author presented this work in an invited session on Emerging Topics in Retail Operations on 18 Nov 2023.



- Ganesh C B, Assistant Professor, TAPMI, MAHE (2023) presented '3D Printing for Mass Customization' at the Dept of Economics and Management, University of Luxembourg on 07 Nov 2023.

- Prof Kavitha Ranganathan, Associate Professor, TAPMI, MAHE (2023) Invited as the convener of 'Satisfying measures of risk' Judgment and Decision-Making Conference 2023 At the Indian Institute of Technology (IIT) Kanpur on 12 Dec 2023.



- Prof Jeevan J Arakal, Professor, TAPMI, MAHE (2023) was the external examiner for the thesis, the defence was conducted on 28 Dec in KIIT Deemed to be University.



- Prof Issac K Varghese, Assistant Professor, TAPMI, MAHE, Dr Ajith Sundaram, and Dr Reji Kumar G (2023) obtained the Best Paper Award titled 'Machine Learning Approaches for Real-time Carbon Emission Prediction and Mitigation' at the 2023 IEEE Technology and Engineering Management Society Conference – Asia Pacific 2023 (TEMSCON-ASPAC-2023) held on 15 and 16 Dec 2023.



- Dr Komal Smriti, Associate Professor, Dept of Oral Medicine and Radiology, MCOADS, Manipal, attended a two-day international conference held from 4 to 5 Oct 2023 at MAHE, Dubai and received the best paper award for the conference paper titled 'Using a finite element Biomechanical analysis of an osteofixation system with different fixation designs for mandibular angle fracture'. This paper was co-authored by Dr Vathsala and Dr Yogesh C.

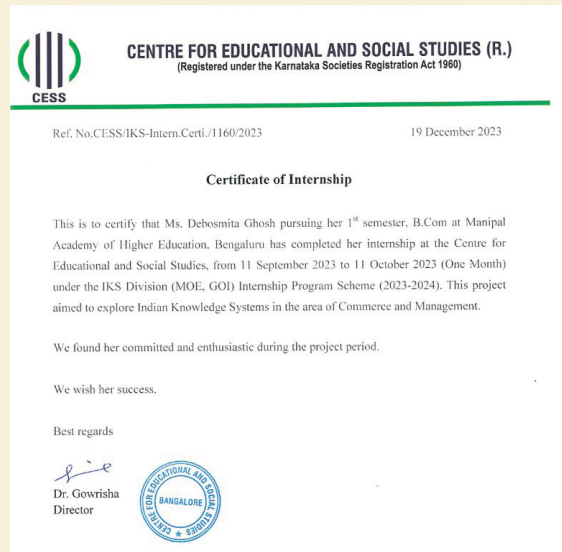


- Dr Kalyana Chakravarthy Pentapati, Associate professor, Dept of Public Health Dentistry, MCOADS, Manipal, for securing the best paper presentation titled 'Child Oral Health Impact Profile (COHIP) questionnaire A Reliability Generalization Meta – Analysis of the Cronbach's alpha' at 27th National Conference of Indian Association of Public Health Dentistry conference held from 1 to 3 Dec 2023 at Faculty of Dental Sciences, SGT University, Gurugram.

## B. Achievements by Research Scholars and Students'

Achievements by research scholars and students: Six students of Dept of Commerce, MAHE, Bengaluru actively involved themselves in an internship on 'Exploring Indian Knowledge System in the area of Business and Commerce' for one month from 11 Sep to 11 Oct. The internship was offered by the Centre for Educational and Social Studies. The students were Ms Debosmita Ghosh, Ms Gungun, Ms Kritiyika, Mr Ojas, Mr Tharun and Mr Srivats.

1. Ojas, Mr Tharun and Mr Srivats.



- Ms Dr B Mallika Rao, third year MDS student, Prosthodontics and Crown and Bridge, Manipal College of Dental Sciences, Manipal, MAHE, Manipal, received the 'Best paper' (Session) prize for the 51st Indian Prosthodontic Society Conference, which was held during 7 to 10 Dec 2023 at Shyama Prasad Mukherjee stadium Goa. Oral presentation.




- Dr Jeevan (first Year PG MDS), Dept of Public Health Dentistry, MCOODS, Manipal, received second Best Poster Presentation at the 27th National Conference of Indian Association of Public Health Dentistry, held from 1 to 3 Dec 2023 at the Faculty of Dental Sciences, SGT University, Gurugram.
- Dr Shivani Apte, third year postgraduate student from Dept of Orthodontics and Dentofacial Orthopaedics, Manipal College of Dental Sciences, Manipal, MAHE, Manipal, received the second place in the overall PG scientific paper presentation of a case done under the guidance of Dr Arun S Urala titled 'Aesthetic harmony in motion: Integrating Orthodontics with Advanced Technologies in Orthognathic Surgery, A Case Report' at the 49th KSDC and eighth Interstate Dental Conference which was held from 15 to 17 Dec 23 at Marena, Manipal College of Dental Sciences, Mangaluru, Karnataka. The paper was also adjudged as the 'Session's Best Paper.'






<p>Dr Vasundhara, Dept of Pathology, KMC, Mangaluru was awarded third prize for the Scientific Poster Presentation titled 'Phyllodes – like nodular hyperplasia of prostate' guided by Dr Hema Kini, Professor of Pathology and Dr Saraswathy Sreeram, Associate Professor of Pathology at 49th Annual State Conference of the Karnataka Chapter – Indian Association of Pathologists and Microbiologists (KCIAPM)- KAPCON 2023 held from 06 to 08 Oct 2023.</p>	
<p>Dr Akhil Kocherla Kota, Dept of Pathology, KMC, Mangaluru was the winner of the Poster Presentation competition - titled 'Categorization of pericardial effusions based on the International system for reporting serous fluid cytopathology' guided by Dr Chaithra G Vat CYTOCON 2023 -53rd Annual Conference of the Indian Academy of Cytologists - Gajra Raja Medical College, Gwalior held from 27 to 30 Oct 2023.</p>	
<p>Dr Babburi Sai Harika, Dept of Community Medicine won second place in Poster Presentation-Anaemia status among geriatric population and its associated factors in a rural area of Mangaluru at third IAPSMCON 2023 Telangana State Chapter held from 06 to 07 Oct 2023.</p>	
<p>Dr Vinayak Chandan, Dept of Medicine, KMC, Mangaluru won third prize in a photography competition during National wildlife week 2023 at Manipal Centre for Natural Sciences, MAHE held on 16 Oct 2023.</p>	
<p>Dr Salama Yasmeen, Dept of Radiology, KMC, Mangaluru secured second position for 'podium presentation' titled Carotid angles in ischemic stroke' at NIMHANS, Bengaluru on 14 Oct 2023.</p>	
<p>Dr Chandan Kumar, Dept of Radiology, KMC, Mangaluru received a token of appreciation for podium presentation titled 'To evaluate the association of risk factor-predisposing to anterior shoulder dislocation using Magnetic resonance imaging (MRI) as the main diagnostic modality- Shape of the glenoid (height to width ratio)' and received token at NIMHANS, Bengaluru on 14 Oct 2023.</p>	
<p>Dr Simran Bhatia, Dept of ENT, KMC, Mangaluru won second prize in poster presentation titled 'An allegoric tale of two twins: Meniere's disease and vestibular Migraine' ISOCON 2023 (Annual National conference of the Indian society of Otolaryngology) held from 24 to 26 Nov 2023.</p>	
<p>Dr Aayush Srivastav, Dept of Psychiatry, KMC, Mangaluru won Quiz Competition – second prize National CME- Psychiatry Update 2023 at Psychiatry Guild Manipal on 18 Nov 2023.</p>	
<p>Ms Tanvi D Ali and Ms Sara Sosa Binoy, Dept of Psychiatry, KMC, Mangaluru won Paper Presentation- third Prize Psychiatry Insight 2023- Psychiatry Dept KMC, Mangaluru on 23 Nov 2023.</p>	

<p>Ms Ruhi Malik, Dept of Psychiatry, KMC, Mangaluru won Poster Presentation- second Prize Psychiatry Insight 2023- Psychiatry Dept KMC, Mangaluru on 23 Nov 2023.</p>	
<p>Mr Thejaswi D, Dept of Audiology, KMC, Mangaluru won Best Oral Paper Presentation in the Speech and Swallow Effect of Two-week Skill Training on the Motor Learning of Isometric Shakers Exercise among Older Adults with Self-reported Swallowing difficulties: Preliminary Findings RCI-accredited National Conference on Aging held from 03 to 04 Nov 2023.</p>	
<p>Ms Abira Sharma, Dept of Psychiatry, KMC, Mangaluru got First Rank in an online course on Psychology Everyday NPTEL online certification (SWAYAM) held from Aug to Sep 2023.</p>	
<p>Dr Abhijeet Gourishetty and Dr Anika, Dept of Radiology, KMC Mangaluru team figured in the top 10 (secured ninth place), where a total of 116 teams participated Tiku Radaspire quiz organized by GE healthcare, Mangaluru on 26 Nov 2023.</p>	
<p>Dr Madhu Malar P, Community Medicine, KMC, Mangaluru won first place in the poster-making competition under the title of 'Recent themes in Human Rights' Dept of Forensic Medicine and Toxicology, KMC, Mangaluru (MAHE, Manipal) on the 75th International Human Rights Day held on 10 Dec 2023.</p>	
<p>Dr Raunak Sharma, Dept of Medicine, KMC, Mangaluru won third place in an oral presentation paper titled 'Clinical Characteristics of acute kidney injury tropical infection' in the 36th Annual national conference of geriatric society of India Yenepoya Medical College, Deralakatte, Mangaluru held from 15 to 17 Dec 2023.</p>	
<p>Dr Kadilaya Thapaswini, Dept of Medicine, KMC, Mangaluru won third prize for the poster titled 'Relapsing Guillian barre syndrome with each delivery' at the 38th All India Medical Conference - National conference at IMA, Thiruvananthapuram held from 27 to 28 Dec 2023.</p>	
<p>Dr Jeeth Dedhia, Dept of Medicine, KMC, Mangaluru won second prize for the poster titled 'Low salt-High salt what was the cause' at the 38th All India Medical Conference - National conference of IMA at IMA, Thiruvananthapuram held from 27 to 28 Dec 2023.</p>	
<p>Dr Abishek Balaji R, Dept of General Surgery, KMC, Mangaluru won Best Poster Award (first prize) for the poster title 'A Rare case of Lower Extremity Hidradenocarcinoma' at the conference ASICON 2023 held at Visakhapatnam, Andhra Pradesh from 13 to 16 Dec 2023.</p>	

<p>Dr Chandrakanth Reddy Bandi, Dept of General Surgery, KMC, Mangaluru won Best Poster Award (first prize) for the poster title 'Ogilvie Syndrome' in the conference ASICON 2023 held at Visakhapatnam, Andhra Pradesh from 13 to 16 Dec 2023.</p>	
<p>Dr Amruta Pritam Mishra, Dept of General Surgery, KMC, Mangaluru won the best Free Paper Award (third Prize) for the poster title 'A Study of the role of pre-operative albumin levels and its post-operative drop in assessing outcomes of exploratory laparotomy' in the conference ASICON 2023 held at Visakhapatnam, Andhra Pradesh from 13 to 16 Dec 2023.</p>	
<p>Dr Govardhan G M, Dept of General Surgery, KMC, Mangaluru won Best Paper Award (third prize) for the poster title 'Comparative study of Dermatotractor and split skin grafting in infected ulcers in tertiary care hospital in Mangaluru' in the conference ASICON 2023 held at Visakhapatnam, Andhra Pradesh from 13 to 16 Dec 2023.</p>	
<p>Ms Poorva Bakshi, KMC, Mangaluru won First Place- 'Prescription writing Audit and Knowledge'- YENDERMA MIND 2023 at Yenepoya Medical College held on 02 Dec 2023.</p>	
<p>Ms Abhavya and Mr Aryaman, KMC, Mangaluru won State level UG quiz IADVL Karnataka chapter during CUTICON 2023 in Manipal on 29 Dec 2023.</p>	
<p>Anjana A, Gokul K, and Thushar T Nayak, KMC, Mangaluru won second prize in the educational poster category on the topic 'Role of Virtual Reality in Radiology training and visualization' at MCHP, Manipal on 19 Dec 2023.</p>	
<p>Fathima Shada and Vishnumaya, BSc RT, KMC, Mangaluru won third Best Oral Paper Presentation Award at ARTTICON-2023, Kokilaben Dhirubhai Ambani Hospital and Medical Research Institute, Mumbai held from 14 to 15 Oct 2023.</p>	
<p>Vishnumaya, BSc RT, KMC, Mangaluru won Best Oral Meritorious Award at ARTTICON-2023, Kokilaben Dhirubhai Ambani Hospital and Medical Research Institute, Mumbai held from 14 to 15 Oct 2023.</p>	
<p>Mr Vasanth Pradeep Vernekar and Ms Prithvi R, KMC, Mangaluru won third place in Undergraduate Quiz 2023 at Dept of Ophthalmology, Yenepoya Medical College, Deralakatte, Mangaluru on 09 Sep 2023.</p>	

<p>Anju and Jijo, BSc Medical Imaging Technology, KMC, Mangaluru secured second prize in a poster competition at International Conference on radiation biology (ICBR-2023) organized by the International Society of radiation biology and K S Hegde Medical Academy, Mangaluru held from 23 to 25 Nov 2023.</p>	
<p>Manasa Beeravalli and Vaishnavi P, KMC, Mangaluru won first prize in Undergraduate Surgery Quiz 2024 at Dept of Surgery, Father Muller Medical College, Mangaluru on 18 Nov 2023.</p>	
<p>Shrinidhi Prabhu and Meera B N, KMC, Mangaluru won third prize in Undergraduate Surgery Quiz 2023 at Dept of Surgery, Father Muller Medical College, Mangaluru on 18 Nov 2023.</p>	

- Best Paper Award-Nandini K K (Research Scholar), Dept of E&E, MIT, Manipal presented a research paper titled 'A prospective study on Reliability Analysis of Electrical Network with Electric Vehicle integration' at the third International Conference on Intelligent Computing techniques for Smart Energy Systems held at Manipal University Jaipur, India, during 14 to 15 Dec 2023.
- Mr Ashutosh Jha, BTech/2021-2025, Dept of E&C, MIT, MAHE, Manipal, received the first prize for the 'Best project in Intel Unnati Industrial Training- Summer 2023', which was held during the month of Jun-Jul 2023 in online mode. He worked on the project titled 'Conquering Fashion MNIST with CNNs using Computer Vision', as part of this National Level training program for students from various universities.
- Ms Deeksha Venugopalan MSc (Medicinal Biotechnology) student of Manipal School Life Sciences did her final project thesis 'Microbial Molecular Profiling Using Localized Surface Plasmon Resonance' at the Research Laboratory for Plasmonics, Dept of E&C Eng, under the guidance of Dr Bhavanari Mallikarjun (Guide); Dr VHS Moorthy (Co-Guide); Dr Nirmal Mazumder (Co-Guide); Dr Bharat Prasad A S (Co-Guide). Ms Deeksha Venugopalan received the Best Poster Presentation Award at the International Conference on Translational Research and Biophotonics (ICTRB) held from 3 to 5 Aug 2023 at Manipal School of Life Sciences, Manipal.
- Mr/Ms Achania Chandran and Rutuja Rajendra Patil, MSc Chemistry and 2023, Dept of Chemistry and MIT, MAHE, Manipal, received the consolation prize for the project titled 'Synthesis and characterization of COF/CDOT Conducting polymer composite for supercapacitor', under the guidance of Dr Sudhakar Y N, Assistant Professor (Sr Sc) Dept of Chemistry, MIT, Manipal which was held during 11 and 12 Aug 2023 at Alva's Institute of Engineering and Technology, Moodbidri, sponsored by Karnataka State Council for Science and Technology, Indian Institute of Science Campus, Bengaluru and Dept of Science and Technology, Govt of Karnataka and Govt of India. Oral presentation.





- Ms Chaitra B J, Research scholar, Dept of Mathematics, MIT, Manipal received the best paper presentation award in the International Conference on Discrete Mathematics and Combinatorics organized by Department of Mathematics Manipal Institute of Technology, Bengaluru, which was held from 20 to 22 Dec 2023 at MIT, Bengaluru in association with Jangjeon Mathematical society, South Korea.
- Ms Varsha Jarali, Dept of Mathematics, MIT, Manipal received the best paper presentation award in the International Conference on Discrete Mathematics and Combinatorics organized by Department of Mathematics Manipal Institute of Technology, Bengaluru., which was held from 20 to 22 Dec 2023 at MIT, Bengaluru in association with Jangjeon Mathematical society, South Korea.
- Ms Safiya Mariyam Rizvi, Ms Rhea Sridhar Nadig, Ms Navya Subramanian A, Mr I A Ganit Cariappa, and Mr Ram P Shetty students of second year B Tech, Biotechnology from MIT secured the first prize in Manipal Bio-Tech Hackathon 2023 held on 9 Nov 2023 organized by Manipal-Govt of Karnataka Bioincubator-BioNEST in association with Manipal School of Life Sciences, Dept of Biotechnology MIT, and innovation Centre, MAHE.

<p>Dr Shravani Desai, final year postgraduate student, Dept of Orthodontics and Dentofacial Orthopaedics, Manipal College of Dental Sciences, Mangaluru won second place for poster presentation at the WALTCon 2023, hosted in MCOADS, Manipal from 14 to 16 Sep 2023 on the topic – ‘An Orthodontist’s Quandary- Photo biomodulation or Platelet- Rich Plasma’ under the guidance of Dr Ashith M V, Professor, Dept of Orthodontics and Dentofacial Orthopaedics, MCOADS, Mangaluru.</p>	
<p>Dr Rakshita Chalotra, second year post graduate student, Dept of Public Health Dentistry, Manipal College of Dental Sciences, Mangaluru won second place for poster presentation at the 27th National IAPHD Conference held at Faculty of Dental Sciences, SGT University, Gurugram, from 1 to 3 Dec 2023.</p>	
<p>Dr Kavery Chengappa, final year post-graduate student, Dept of Public Health Dentistry, Manipal College of Dental Sciences, Mangaluru won second place in a poster presentation held at SGT University, Gurugram on 01 Dec 2023.</p>	
<p>Dr Giridharan G, final year PG student, Dept of Oral Medicine and Radiology, Manipal College of Dental Sciences, Mangaluru awarded second Best Scientific Paper (Student Category) at 33rd National Conference of IAOMR at Kalinga Institute of Dental Sciences, Bhubaneshwar from 08 to 10 Dec 2023.</p>	
<p>Dr Sahitha N R, first year PG, Dept of Conservative Dentistry, Manipal College of Dental Sciences, Mangaluru under the guidance of Dr Laxmish Mallya won second prize in a poster presentation at the 49th Karnataka State Dental Conference held at MCOADS, Marena Greens, Mangaluru from 15 to 17 Dec 2023.</p>	
<p>Dr Ashwini Anand Kamat, first year postgraduate, Dept of Conservative Dentistry and Endodontics, Manipal College of Dental Sciences, Mangaluru under the guidance of Dr Karthik Shetty, HOD, Dept of Conservative Dentistry and endodontics, won first place in PG a poster presentation at the 49th Karnataka State Dental Conference held at MCOADS, Marena Greens, Mangaluru from 15 to 17 Dec 2023.</p>	

<p>Dr Maria T, final year post graduate, Dept of Orthodontics, Manipal College of Dental Sciences, Mangaluru under the guidance of Dr Supriya Nambiar, won first place in PG paper presentation at the 49th Karnataka State Dental Conference held at MCOODS, Marena Greens, Mangaluru from 15 to 17 Dec 2023.</p>	
<p>Dr Sara Nazeer, first year postgraduate, Dept of Orthodontics, Manipal College of Dental Sciences, Mangaluru won first place in the PG poster presentation at the 49th Karnataka State Dental Conference held at MCOODS, Marena Greens, Mangaluru from 15 to 17 Dec 2023.</p>	
<p>Ms Chaithra M, Intern, Manipal College of Dental Sciences, Mangaluru won second place in a poster presentation at the fourth National Conference on Youth in Social Change organized by VSO, MAHE, held in Manipal from 16 to 17 Sep 2023 on the topic 'Ultraviolet C Rays for Infection Control in Dentistry' under the guidance of Dr Harshit Atul Kumar, Senior Lecturer, Dept of Orthodontics and Dentofacial Orthopaedics, MCOODS, Mangaluru.</p>	
<p>Mr Pulkit Chawla and Mr Vyom, Intern Manipal College Dental Sciences, Mangaluru won the best poster award for the oral pathology category for their poster titled 'Digital methods of forensic age estimation' at the 49th KSDC conference held at Mangaluru from 15 to 17 Dec 2023.</p>	
<p>Miss Simran Singh, Intern, Manipal College of Dental Sciences, Mangaluru won the second place in the UG Poster Presentation titled 'Analyzing the Role of Artificial Intelligence in Dentistry' at the ISPRP conference held at SRM Chennai. She was guided by Dr Nandita K P, Associate Professor, Dept of Oral Pathology and Microbiology, MCOODS, Mangaluru on 15 and 16 Dec 2023.</p>	
<p>Miss Kashish Bhardwaj, Intern, Manipal College of Dental Sciences, Mangaluru under the guidance of Dr Vinod Jathanna won the third place in paper presentation at the first ISPRP UG Convention held at SRM Dental College, Chennai on the 15 and 16 Dec 2023.</p>	
<p>Mr Prajval, final year student, at Manipal College of Dental Sciences, Mangaluru won the third place in UG poster presentation in the Conservative Dentistry and Endodontics category at the 49th KSDC Conference. He was guided by Dr Roma M.</p>	
<p>Dr Kritika Bali and Dr Radhika Ailawadi, Interns, Manipal College of Dental Sciences, Mangaluru won first place in UG paper presentation at the 49th KSDC and eighth Inter Dental Conference, Mareena Complex, Mangaluru from 15 to 17 Dec 2023.</p>	

<p>Dr Dristi Kedia, Intern, Manipal College of Dental Sciences, under the guidance of Dr Manuel Thomas, Dept of Conservative Dentistry won second place in paper presentation at the 49th Karnataka State Dental Conference held at MCOODS, Marena Greens, Mangaluru from 15 to 17 Dec 2023.</p>	
<p>Miss Rhea Fernandes, Miss Jacintha Lymon, Interns, Manipal College of Dental Sciences, Mangaluru under the guidance of Dr Roma M Dept of Conservative Dentistry won first place in paper presentation at the 49th Karnataka State Dental Conference held at MCOODS, Marena Greens, Mangaluru from 15 to 17 Dec 2023.</p>	
<p>Miss Laksmipriya Varathakumaran and Miss Asmita De Intern, Manipal College of Dental Sciences, Mangaluru won the third place in the UG poster presentation at the 49th Karnataka State Dental Conference held at MCOODS, Marena Greens, Mangaluru from 15 to 17 Dec 2023. They were guided by Dr Archana M, Senior Lecturer in the Dept of Oral Medicine and Radiology.</p>	
<p>Mr Dinkar Nagpal, second year BDS student, won the first place in UG poster presentation under the Oral Medicine category at the 49th KSDC conference. He was guided by Dr Archana M, Senior lecturer in the Dept of Oral Medicine and Radiology.</p>	
<p>Miss Lipika Sen, Intern, Manipal College of Dental Sciences, Mangaluru, under the guidance of Dr Ravikiran Ongole, won first place in paper presentation at the 49th KSDC conference held at MCOODS, Marena, Mangaluru from 15 to 17 Dec 2023.</p>	
<p>Mr Arjun Kamath, Miss Shubhangi and Mr Shashank Agrawal, Interns, Manipal College of Dental Sciences, under the guidance of Dr Umesh Pai, Dept of Prosthodontics and Crown and Bridge won first place in poster presentation at the 49th Karnataka State Dental Conference held at MCOODS, Marena Greens, Mangaluru from 15 to 17 Dec 2023.</p>	
<p>Miss Akshata Shivaswaroop, Intern, Manipal College of Dental Sciences, Mangaluru, Intern won second place in the UG paper presentation at the 49th Karnataka State Dental Conference held at MCOODS, Marena Greens, Mangaluru from 15 to 17 Dec 2023; she was guided by Dr Nandita Shenoy and Dr Dharnappa Poojary.</p>	
<p>Miss Lavangi Sehgal and Miss Akanksha Kashyap, Interns, Manipal College of Dental Sciences, won first place in UG presentation at the 49th Karnataka State Dental Conference held at MCOODS, Marena Greens, Mangaluru from 15 to 17 Dec 2023. They were guided by Nanditha Sujir, Dept of Oral Medicine and Radiology.</p>	

Ms Reena Prem (221196002) third Sem MPT (Geriatrics), Dept of Physiotherapy, MCHP secured the best poster award for the poster titled 'Technological Advancements in the Care of Sarcopenia Older Adults: A Rapid Review' at the National Academy of Medical Sciences Conference- 2023 (NAMSCON) held from 6 to 8 Oct at Ramaiah Medical College, Bengaluru.







Ms Nithyaa (221117001) third Sem MPT (Musculoskeletal Sciences), Dept of Physiotherapy, MCHP secured the first prize in the poster competition for the poster titled 'Sociodemographic characteristics of people with low back pain in the low middle-income countries - Review of the literature' at Sri Ramachandra International Physiotherapy Colloquium (SRIPC) 2023 held virtually on 29 Nov 2023.



Ms Greeshma (221117001) third Sem MPT (Musculoskeletal Sciences), Dept of Physiotherapy, MCHP secured second prize in the poster competition for the poster titled 'Pain related beliefs in individuals with chronic musculoskeletal pain in low-and-middle-income countries: A Review of literature' at Sri Ramachandra International Physiotherapy Colloquium (SRIPC) 2023 held virtually on 29 Nov 2023.



Ms Manasa Kolibylu Raghupathy, PhD Scholar, Dept of Physiotherapy, MCHP secured third prize in the Classic Platform presentation and received award money of 800 AED (Approx Rs 18,170/-) at 'The First International Physiotherapy Students Conference' organized virtually by University of Sharjah in association with Dept of Physiotherapy, Manipal College of Health Professions (MCHP), MAHE, Manipal on 02 to 03 Nov 2023.

Ms Arunima Biswas, PhD Scholar, Dept of Physiotherapy, MCHP secured second prize in three-minute thesis presentation and received award money of 1000 AED (Approx Rs 22,713/-) at 'The First International Physiotherapy Students Conference' organized virtually by University of Sharjah in association with Dept of Physiotherapy, Manipal College of Health Professions (MCHP), MAHE, Manipal from 02 to 03 Nov 2023.





Ms Megha Nataraj, PhD Scholar, Dept of Physiotherapy, MCHP secured second prize in e-poster presentation and received award money of 800 AED (Approx Rs 18,170/-) at 'The First International Physiotherapy Students Conference' organized virtually by University of Sharjah in association with Dept of Physiotherapy, Manipal College of Health Professions (MCHP), MAHE, Manipal from 02 to 03 Nov 2023.

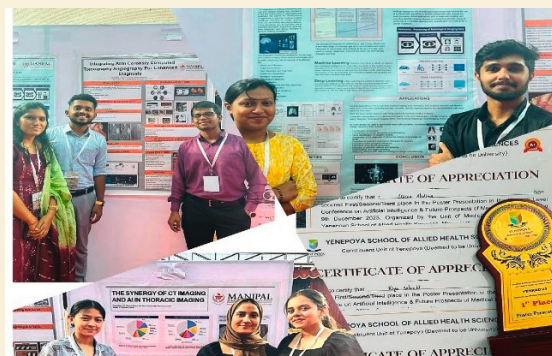
Ms Fida Nizar, roll no 221181004 participated in the Singapore Prevention and Cardiac Rehabilitation Symposium 2023 at Orchard Hotel, Singapore and presented on the topic 'Impact of Tele-ECG recorded from Rural areas in India in the Management of Acute Myocardial Infraction and awarded Best Presenting Author (Poster) under the Category: Telehealth/Post-COVID Cardiac Issues'.



Mr Walter Uronu presented a poster (Case report) titled 'Intracardiac blood cyst in LA roof near right upper pulmonary vein with a clot in the pericardial cavity near RVOT and LAA clot' at the conference and was awarded first prize.



Ms Sikina, Ms Riya and Ms Nawang secured the first prize in a poster competition titled 'The Synergy between Artificial Intelligence and CT Imaging in the Detection of Lung Imaging'. The poster dealt with enhancing the capabilities of CT scans, AI is being integrated into CT imaging in the National Level Conference on Artificial Intelligence and Future Prospects of Medical Imaging, organized by the Yenopaya (Deemed to be University) at Yendurance Zone, Yenepoya (Deemed to be University), Mangaluru.



Miss Redolen Rose Dhar, PhD Scholar, Health Information Management Dept, was awarded National Fellowship and Scholarship for Higher Education of ST Students to pursue PhD degree.

Ms Athira MP, Research Scholar, Manipal Institute of Virology, MAHE, Manipal, received the best poster presentation award in VIROCON-2023, which was held from 1 to 3 Dec 2023 at ICAR-National Research Centre for Banana, Tiruchirappalli, Tamil Nadu.

Ms Sneka P, Student of MSc Clinical Virology, Manipal Institute of Virology, MAHE, Manipal, received the best poster presentation award in VIROCON-2023, which was held from 1 to 3 Dec 2023 at ICAR-National Research Centre for Banana, Tiruchirappalli, Tamil Nadu.

Chethan Kumar, PH D Scholar, TAPMI, MAHE (2023) 'Virtual Sustainability: Do Videogames Influence Pro-Environmental Attitude?' Best Paper Information -SBS Conference Jaipuria, Indore.




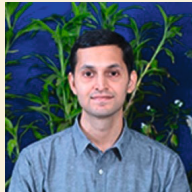
Chetana Maddodi, PhD Scholar, TAPMI, MAHE (2023) received outstanding paper award for the paper titled 'Effects of in-app banner ad animation and ad congruity on perceived ad intrusiveness' at the International Conference of Management Research (ICMR 2023) organized by the IIT, Madras held from 16 to 18 Nov 2023, at Chennai. The paper is co-authored by Dr Pallavi Upadhyaya.

The award included a cash prize of Rs 15,000/- sponsored by IITM alumni. She received the award from Prof Lakshman Krishnamurthi, A, Montgomery Ward Professor of Marketing, Kellogg School of Management, Northwestern University, USA. Prof Jagadeesh Sivadasan, Ross Business School, Michigan University, USA graced the occasion.



### C. Research Activities: Workshops, Programs, Webinars, Conferences and Awards and accolades.

Dr Chetana Chandrashekar, Associate Professor, Dept of Oral and Maxillofacial Pathology and Oral Microbiology, MCOADS, Manipal, MAHE, Manipal was honoured with Good Teacher Award at College Day and Awards Ceremony 2023 at Manipal on 23 Nov 2023).

<p>Dr Suchitra Shenoy M, Professor and Head, Dept of Microbiology, KMC, Mangaluru visited Charité Universitätsmedizin Berlin between the 18 to 21 Oct for Context-driven Infection Control Interventions (CoDe-ICI), a collaborative scientific session on Infection prevention and control. She received a travel grant of rupees 1.5 lakhs from Oxford-Berlin University Alliance (OX-BUA) for the same.</p>	
<p>Dr Ashwin Kamath K Anandaraya, Associate Professor, Dept of Pharmacology, KMC, Mangaluru received a travel grant of Rs 22,150/- from the International Society of Pharmacoepidemiology.</p>	

Dr Vinay Kumar Jadoun, Associate Professor, Sr Sc, Dept of E&E MIT, Manipal, received the Outstanding Young Professional Award in recognition of outstanding contribution to IEEE MSS on 24 Dec 2023.

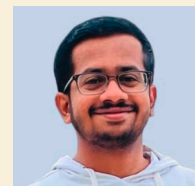
Dr Naresh Kumar Mani, Associate Professor, Dept of Biotechnology, MIT received the Shri P K Das Memorial Best Faculty Award under Bioscience stream on 15 Dec 2023 from the Nehru Group of Institutions. This includes a memento and a cash prize of 10,000 INR.





Ms Nidhi Shankar Mallya, Ms S Janani, and Ms Riya Kedar Ganta students of third year B Tech, Biotechnology from MIT were awarded seed money of Rs 10,000/ from MAHE, Manipal to carry out the research work.

Mr Suyog Chougule, a student from seventh Sem, Dept of Mechatronics, MIT, Manipal, from Ripple Technologies startup has secured a grant of seven lakhs under the Nidhi Prayas scheme for developing Type-3 DC EV Charger.



Dr Yogesh Pai P, Professor and Head, Dept of Humanities and Management was awarded the title of 'Education Champion' and was one of the distinguished honourees, during the event 'Education Heros', which is dedicated to recognizing and honouring individuals within the education fraternity, who have exhibited unparalleled commitment, dedication, and devotion to nurturing the future generation. It was held on 01 Nov 2023 at Hotel Lalith Ashok, Bengaluru.



Prof Ramakrishna Nayak, Assistant Professor, Sr Sc, Humanities and Management was awarded the Dr T M A Pai Gold Medal for outstanding Research Publication during MIT Annual Day - 2023 on 04 Nov 2023 at MIT quadrangle.



Dr Devika Rani, Assistant Professor, Sr Sc, Dept of Humanities and Management, MIT, MAHE, Manipal was honoured with PhD award for her thesis titled 'Multilingual Education Models in Karnataka: Learning from the European CLIL Experiment' conducted under the guidance of Dr Neeta Inamdar, Professor and Head, Manipal Centre for European Studies, MAHE, Manipal during the 31st MAHE Convocation at Manipal on 26 Nov 2023.

## Awards and accolades

Dr G Arun Maiya, Dean-MCHP, Professor, Dept of Physiotherapy, Chief- Centre for Podiatry and Diabetic Foot Care and Research received the 'Scroll of Honour' at the first National Conference of Cardiopulmonary Physiotherapy organized by the Society of Cardiovascular and Pulmonary Rehabilitation, Mumbai on 09 and 10 Dec 2023 for his contributions to the field of Physiotherapy.





Dr B Rajashekhar, Professor, Dept of Speech and Hearing, MCHP, MAHE, Manipal received the Ganga -Godavari Oration award in first International and third National Conference of SHAN from 15 to 16 Dec 2023 at Kathmandu, Nepal.

Dr Shubhaganga D, Assistant Professor, Dept of Speech and Hearing, MAHE, Manipal received Best Paper Award at Facilitative Learning on Advancements in Speech and Hearing, HCC Flash series VII- 2023 from 27 to 29 Nov 2023 at Tiruchirapalli.

Mr Rajath Shenoy, Research Scholar, Dept of Speech and Hearing, MAHE, Manipal received a Travel grant Rs 1,22,471 from ICMR to attend the 61st Annual Meeting of the Academy of Aphasia, Reading, UK which was held from the 21 to 23 Oct 2023.

Dr Sajan Daniel George, Professor and Head, Dept of Atomic and Molecular Physics, MAHE, Manipal was honoured with Fellow of the Institute of Physics (F Inst P) by the Institute of Physics, UK, on 14 Dec 2023.



Prof Vijay Victor, Assistant Professor, TAPMI, MAHE and Prof Remya, Assistant Professor, TAPMI, MAHE (2023) have been granted funding by J-PAL South Asia, an affiliate of MIT, USA and co-founded by Economics Nobel Laureates Prof Abhijit Banerjee and Prof Esther Duflo. This grant is part of J-PAL South Asia's esteemed Indian Scholars Program (ISP). The grant amounts to USD 19,540 (roughly sixteen lakh twenty-four thousand rupees) will support our research project titled – 'Mapping Climate-Induced Dengue Proliferation Zones in Kerala for Targeted Health Interventions' dated 20 Oct 2023.



Shailly Chaurasia, Assistant Professor, TAPMI, MAHE, (2023) has been awarded the Prof M N Gopalan Award for the Best Doctoral Thesis, titled 'Localization and Sustainable Innovation in Nutraceuticals: A Potential Opportunity to Reduce Malnutrition in India' at the 56th Annual Convention of Operational Research Society of India (ORSI), held at the Indian Institute of Science, Bengaluru from 18 to 20 Dec 2023. The award includes a cash prize of 10,000 INR.





## **A. MAHE Student's Research Forum (MAHE-SRF) – Activities for the period of Jul - Sep 2023**

### **MAHE-SRF 2023 Quarterly Report: Oct – Dec 2023**

In November, MAHE-SRF organized the ICHTR 2023.

The Interdisciplinary Conference on Healthcare and Technical Research (ICHTR) 2023 was organized by the Manipal Academy of Higher Education Student Research Forum (MAHE-SRF) under the Directorate of Research (DoR), unfolded as a remarkable platform for researchers across diverse fields to showcase their work. The event, held at the MAHE Bengaluru campus, commenced on 6 Nov 2023, with an inaugural function featuring Chief Guest Dr C V Yelamaggad, FRSC Scientist-F and Professor at the Centre for Nano and Soft Matter Sciences (CeNS), Bengaluru.

The first day of the conference saw an array of insightful programs, including the inauguration ceremony and two engaging guest talks. The inaugural function began with a solemn invocation by Ms Chetana, PhD Scholar from MIT, Bengaluru, followed by a warm welcome speech by Ms Ashitha Sreelakshmi, President of MAHE-SRF. Mr Vignesh Balaji, Executive Committee Member – MAHE-SRF, provided an overview of ICHTR 2023. Chief Guest Dr C V Yelamaggad, FRSC Scientist-F and Professor, Centre for Nano and Soft Matter Sciences (CeNS), Bengaluru, inaugurated the event with an insightful address. Dr Satish Rao, Director of Research at MAHE, shared valuable perspectives on interdisciplinary research. The function concluded with a gracious Vote of Thanks by Ms Harshalatha, Vice-President of MAHE-SRF, expressing gratitude and officially marking the commencement of ICHTR 2023.

The inaugural function was followed by guest talks by Dr Nikhil R Gandasi, Assistant Professor at the Indian Institute of Science (IISc), who shared his expertise on the topic 'Alterations in islet hormone secretion leading to type-2 diabetes', and Dr Abhishek Bhattacharya, Assistant Professor at the National Centre for Biological Sciences (NCBS), discussed about 'The molecular and functional diversity of electrical synapses'. The day continued with presentations, both oral and poster, showcasing a plethora of research contributions.

On the second day, the conference featured three more distinguished guest talks, covering the topics 'Integrated Photonic Biosensors' by Prof Dr Srinivas Talabattula, 'Contextual feature extraction technique for evidenced-based medicine' by Dr Harikrishna Rai, and 'Medical imaging workflows with MATLAB' by Dr Spandhana Gonuguntla. Additionally, Mr Visweswaran J, Country Manager – Higher Education at ARK Infosolutions Pvt Ltd, shared insights on 'Preparing the next generation of innovators and creators using immersive technologies (AR and VR)'.

The conference concluded with a valedictory function on 7 Nov 2023, featuring Chief Guest Dr Jagannath Korody, Director of MIT-Bengaluru. The ceremony included the distribution of certificates and cash awards. Ten winners, including five for the best paper award (worth Rs 2,000 each) and five from the 'Two Minutes Presentation' competition (with cash prizes worth Rs 7,100 each), were acknowledged for their outstanding presentations.

Notably, the conference received a substantial number of high-quality abstract submissions, totalling 150, including 48 full paper submissions and 102 abstracts. Selected full paper submissions were considered for publication in the journal 'Health Services Research' under Wiley Publishers, a Scopus-indexed Q1 journal. The

introduction of the 'Two Minutes Presentation' competition added an exciting dimension to the event, providing a platform for concise yet impactful presentations. The six guest talks by eminent speakers further enriched the conference, covering a spectrum of topics in health and technical sciences. ICHTR 2023 marked a significant milestone as it ventured beyond MAHE - Manipal, hosting the event at the splendid new MAHE campus in Bengaluru, creating an enriching experience for all participants.



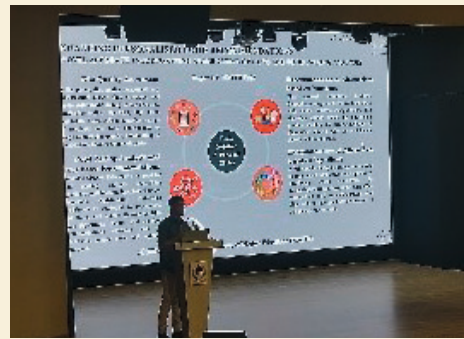
Chief Guest Dr C V Yelamaggad addressing the event.



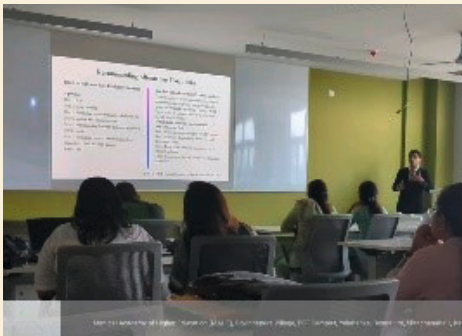
From the guest talk by Mr Visweswaran J.



Chief Guest Dr Jagannath Korody distributing certificates to the winners.



During the 'Two Minutes Presentation' competition.



During the oral presentations.



During the Poster presentations.



ICHTR 2023 organizing committee.



ICHTR 2023 wrap-up

As the final quarter of 2023 ended, the MAHE-SRF 2023 team reflected on its journey with notable enthusiasm and unwavering dedication. With the new year approaching, the current team of MAHE-SRF is preparing to step down, making way for the incoming team that will assume their responsibilities starting in January 2024. The official handing-over ceremony is scheduled to take place on 6 Jan 2024, marking the transition and continuity of leadership within the MAHE-SRF.

<b>NO</b>	<b>Title Of The Publication</b>	<b>Author Name</b>	<b>Institution</b>	<b>Name of the Journal</b>	<b>Month &amp; Year of Publication</b>	<b>Quartile On Incentivize/ Percentile</b>
1	Microplastics Everywhere: A Review on existing methods of Extraction	DEVANGSHI DEBRAJ Dr. Lavanya M*	Manipal Institute of Technology, Manipal	Science of the Total Environment	October 2023	95
2	Distinct features of iron based metal organic frameworks (MOFs) for ferroptosis mediated cancer therapy: A comprehensive review	Dr. Ritu R. Kudarha Dr. Srinivas Mutalik*	Manipal College of Pharmaceutical Sciences, Manipa	Coordination Chemistry Reviews	November 2023	99
3	Characterization and optimization of thermal properties of rice straw and Furcraea foetida fiber reinforced polymer composite for thermal insulation application	Abhishek S Madival Dr. Deepak D*	Manipal Institute of Technology, Manipal	Journal of Building Engineering	November 2023	98
4	Metabophoremediated retrometabolic('MeMeReMe') approach in drug design	DR. BALAJI S*	Manipal Institute of Technology, Manipal	Drug Discovery Today	October 2023	95
5	Repressor Element1 Binding Transcription Factor (REST) as a Possible Epigenetic Regulator of Neurodegeneration and MicroRNABased Therapeutic Strategies	AJMAL NASSAR Dr.Madhavan Nampoothiri*	Manipal College of Pharmaceutical Sciences, Manipa	Molecular Neurobiology	October 2023	96
6	Optimization of a multistage liquid desiccant dehumidifier by neural networks & particle swarm techniques	Sampath Suranjan Salins-DR.SHIVA KUMAR*	Manipal Institute of Technology, Manipal	Journal of Building Engineering	October 2023	98
8	Colloidal Manipulation through Plasmonic and Nonplasmonic LaserAssisted Heating	MONISHA K Dr. Sajan Daniel George*	Department of Atomic & Molecular Physics Manipal, MAHE- University Office.	Laser and Photonics Reviews	October 2023	96
9	An efficient IntraInter pixel encryption scheme to secure healthcare images for an IoT environment	Dr K Abhimanyu Kumar Patro*	Manipal Institute of Technology, Manipal	Expert Systems with Applications	November 2023	96
10	A qualitative investigation on Indian vegan food service providers' perspective of trends, challenges and the future of vegan consumption	Dr. Namratha Pai K-Dr. Senthil P Kumaran*	Welcomgroup Graduate School of Hotel Administratio	International Journal of Gastronomy and Food Science	December 2023	97
11	AntiCD4 antibody and dendrimeric peptide based targeted nanoliposomal dual drug formulation for the treatment of HIV infection	Sadhana P. Mutalik DR.SRINIVAS MUTALIK	Manipal College of Pharmaceutical Sciences, Manipa	Life Sciences	December 2023	96

NO	Title Of The Publication	Author Name	Institution	Name of the Journal	Month & Year of Publication	Quartile On Incentive/ Percentile
12	Experimental performance of a spray tower system for water desalination and indoor thermal comfort	-Sampath Suranjan Salins-DR.SHIVA KUMAR*	Manipal Institute of Technology, Manipal	Process Safety and Environmental Protection: Transactions of the Institution of Chemical Engineers, Part B	December 2023	96
13	Factors Influencing Technology Acceptance of Drones for LastMile Food Deliveries: An Adaptation of the UTAUT2 Model	DR.ASISH OOMMEN MATHEW Mrs. Anasuya K Lingappa*	Manipal Institute of Technology, Manipal	Human Behavior and Emerging Technologies	November 2023	99
14	Unraveling the Potential of Immersive Virtual Environments for Behavior Mapping in the Built Environment: A Mapping Review	MR ROHIT KUMAR	Manipal School of Architecture & Planning, Manipal	Human Behavior and Emerging Technologies	December 2023	99
15	Multiwavelength Photoacoustic Breath Analysis Sensor for the Diagnosis of Lung Diseases	Nidheesh V R DR. SANTHOSH CHIDANGIL*	Department of Atomic & Molecular Physics Manipal, MAHE- University Office.	ACS Sensors	October 2023	99
16	A QuadPort Nature Inspired LotusShaped Wideband Terahertz Antenna for Wireless Applications	JEENAL R Dr. Tanweer*	Manipal Institute of Technology, Manipal	Journal of Sensor and Actuator Networks	October 2023	95
17	Experimental investigation of humidification parameters using biomassbased charcoal as an alternative packing material	-Sampath Suranjan Salins -DR. SHIVA KUMAR*	Manipal Institute of Technology, Manipal	Journal of King Saud University, Engineering Sciences	November 2023	95
18	Performance evaluation of an indirect-direct evaporative cooler using aluminum oxidebased nanofluid	-Mr. Ganesh A -DR. SHIVA KUMAR*	Manipal Institute of Technology, Manipal	Journal of Thermal Analysis and Calorimetry	December 2023	95
19	The scope of acoustic impedance matching of hybrid fiber metal laminates for shielding applications	-MR. ANAND PAI -Dr. Satish Shenoy B*	Manipal Institute of Technology, Manipal	Journal of King Saud University, Engineering Sciences	November 2023	95
20	A cascaded NPID/PI scheme for the regulation of stack voltage in proton exchange membrane fuel cell	-DR NIKHIL PACHAURI -Dr Vijay Mohan*	Manipal Institute of Technology, Manipal	International Journal of Hydrogen Energy	December 2023	95
21	A critical analysis of COVAX alliance and corresponding global health governance and policy issues: a scoping review	-Anjali Pushkaran -DR. PRAKASH NARAYANAN*	Prasanna School of Public Health, Manipal	BMJ Global Health	October 2023	95



## **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.

