



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

MAHE Research Bulletin

April-June 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 MAHE, the Directorate of Research facilitates and supports the research activities of MAHE. It aims at nurturing and promoting the research of global standards.

Vision:
To nurture and promote research activities of global standards.

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

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

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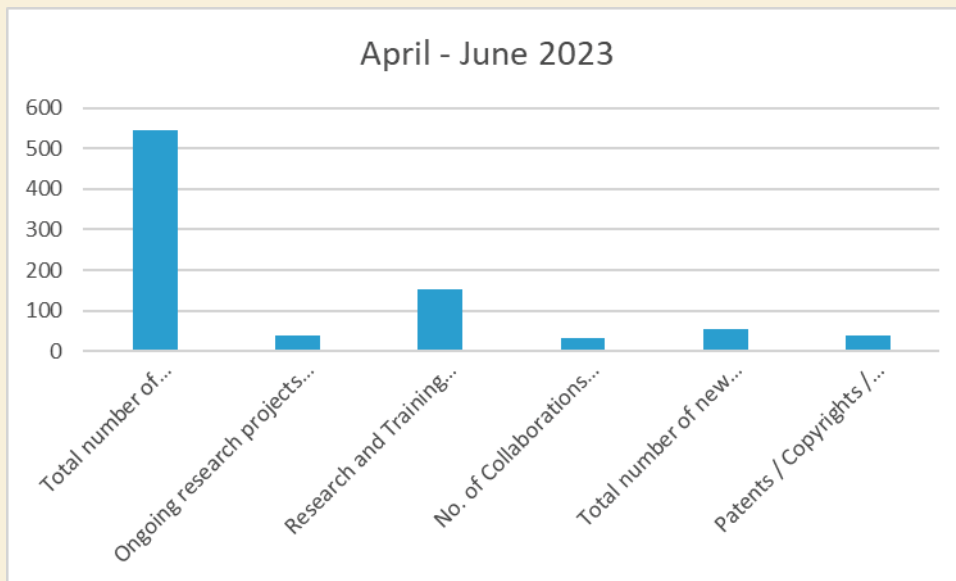
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Part I

A. Info-graph of research activities during the period April - June 2023



B. Top publications for the period of April - June 2023

S.No	TitleOfThe Publication	First Author Name	Institution	Name of the Journal (Publisher)	Month & Year of Publication	Journal Quartile - Q1 (Top 10 percentile) On Incentivize
1	Students' continuance intention to use MOOCs: empirical evidence from India	Rekha I S	Manipal Institute of Management, Manipal	Education and Information Technologies	April 2023	Q1 (Top 2-9)
2	A correlation study of sustainable development goal (SDG) interactions	Sheeba Pakkan	MAHE - University Office	Quality and Quantity	April 2023	Q1 (Top 2-9)

S.No	TitleOfThe Publication	First Author Name	Institution	Name of the Journal (Publisher)	Month & Year of Publication	Journal Quartile - Q1 (Top 10 percentile) On Incentive
3	On distance Laplacian spectral determination of complete multipartite graphs	RAKSHITH B R	Manipal Institute of Technology, Manipal	Applied Mathematics and Computation	April 2023	Q1 (Top 2-9)
4	Effect of Cavitation and Temperature on Fluid Film Bearing Using CFD and FSI Technique: A Review	MR. HARISHKUMAR KAMAT	Manipal Institute of Technology, Manipal	Archives of Computational Methods in Engineering	April 2023	Q1 (Top 2-9)
5	Polysomes Based Versatile Nanoplatforms for Controlled Drug Delivery and Imaging	KOTHA ROHINI and Divya Dhatri Kara	Manipal College of Pharmaceutical Sciences, Manipal	Advanced Pharmaceutical Bulletin	April 2023	Q1 (Top 2-9)
6	Fish tracking and Continual behavioural pattern clustering using novel Sillago Sihama Vid (SSVid)	SHREESHA S	Manipal Institute of Technology	IEEE Access	April 2023	Q1 (Top 2-9)
7	A clinical and technical methodological review on stress detection and sleep quality prediction in an academic environment	SHARISHA SHANBHOG M	Manipal Institute of Technology	Computer Methods and Programs in Biomedicine	June 2023	Q1 (Top 2-9)
8	Thin fiber metal laminates comprising functionally graded ballistic grade fabrics subjected to mechanical and damping characterization	MR. ANAND PAI	Manipal Institute of Technology, Manipal	Thin-Walled Structures	April 2023	Q1 (Top 2-9)
9	Occurrences of UV filters, endocrine disruptive chemicals, alkyl phenolic compounds, fragrances, and hormones in the wastewater and coastal waters of the Antarctica	Dr. Balakrishna K	Manipal Institute of Technology, Manipal	Environmental Research	April 2023	Q1 (Top 2-9)
10	Detection of H275Y oseltamivir resistance gene mutation among Influenza A(H1N1)pdm09 patients by allelic discrimination realtime RTPCR	SMRITI KRISHNA and Anup Jayaram	Manipal Institute of Virology, Manipal	Journal of Medical Virology	May-23	Q1 (Top 2-9)

S.No	TitleOfThe Publication	First Author Name	Institution	Name of the Journal (Publisher)	Month & Year of Publication	Journal Quartile - Q1(Top 10 percentile) On Incentivize
11	Exploring the presence and distribution of microplastics in subterranean estuaries from southwest India	GOKUL VALSAN	Manipal Institute of Technology, Manipal	Marine Pollution Bulletin	May 2023	Q1(Top 2-9)
12	A Quadruple Notch UWB Antenna with Decagonal Radiator and Sierpinski Square Fractal Slots	MR. OM PRAKASH KUMAR	Manipal Institute of Technology, Manipal	Journal of Sensor and Actuator Networks	April 2023	Q1(Top 2-9)
13	Automated and Optimized Regression Model for UWB Antenna Design	MS SAMEENA BEGUM PATHAN	Manipal Institute of Technology, Manipal	Journal of Sensor and Actuator Networks	April 2023	Q1(Top 2-9)
14	Computational fluid dynamics modelling of primary sludge classification in an activated sludge process based wastewater treatment plant: Simulating the hydrodynamic behaviour and experimental verifica	DR NARENDRA KHATRI	Manipal Institute of Technology, Manipal	Chemical Engineering Journal	May 2023	Q1(Top 1)
15	Deep learning based object detection for resource constrained devices: Systematic review, future trends and challenges ahead	Vidya Kamath	Manipal Institute of Technology, Manipal	Neurocomputing	April 2023	Q1(Top 2-9)
16	A deep learning based classifier framework for automated nuclear atypia scoring of breast carcinoma	MATHEW T	National Institute of Technology Karnataka, India	Engineering Applications of Artificial Intelligence	April 2023	Q1(Top 2-9)
17	Automated Explainable Detection of Cyclic Alternating Pattern (CAP) Phases and SubPhases Using WaveletBased SingleChannel EEG Signals	MANISH SHARMA	Institute of Infrastructure, Technology, Research	IEEE Access	May 2023	Q1(Top 2-9)
18	Performance characterization of an adaptivecontrolled air handling unit to achieve thermal comfort in Dubai climate	sampath Suranjan Salins	MAHE dubai	Energy	June 2023	Q1(Top 2-9)
19	Double C2 like domain beta (DOC2B) induces calcium dependent oxidative stress to promote lipotoxicity and mitochondrial dysfunction for its tumor suppressive function	DIVYA ADIGA	Manipal School of Life Sciences, Manipal	Free Radical Biology and Medicine	May 2023	Q1(Top 2-9)
20	Flexible ultraviolet photosensors based on pNiO/nZn(1-x) Sn(x) O heterojunction with an ZnO interfacial layer that works in self regime mode	Prashant Bhat	Manipal Institute of Technology, Manipal	Sensors and Actuators, A: Physical	May 2023	Q1(Top 2-9)

S.No	TitleOfThe Publication	First Author Name	Institution	Name of the Journal (Publisher)	Month & Year of Publication	Journal Quartile - Q1(Top 10 percentile) On Incetivize
21	Nextgeneration sequencing technology for the diagnosis of microbial infections in hardtoheal wounds	NAMITHA NAYAK	Manipal School of Life Sciences, Manipal	Journal of Wound Care	June 2023	Q1(Top 2-9)
22	On Several Results Associated with the Apérylike Series	PRATHIMA JAYARAMA	Manipal Institute of Technology, Manipal	Symmetry	May 2023	Q1(Top 2-9)
23	Texture based prototypical network for fewshot semantic segmentation of forest cover: Generalizing for different geographical regions	GOKUL PUTHUMANAILLAM	University of Illinois Urbana-Champaign, Urbana, U	Neurocomputing	June 2023	Q1(Top 2-9)
24	BREEHD: A TransformerBased Model to Identify Threats on Twitter	SINCHANA KUMBALE	Manipal Institute of Technology, Manipal	IEEE Access	June 2023	Q1(Top 2-9)
25	Large submarine groundwater discharges to the Arabian Sea from tropical southwestern Indian Coast: Measurements from seepage meters deployed during the low tide	YOVAN LINO	Manipal Institute of Technology, Manipal	Journal of Hydrology	May 2023	Q1(Top 2-9)
26	Submarine Groundwater Discharge (SGD): Impacts, challenges, limitations, and management recommendations	YOVAN LINO	Manipal Institute of Technology, Manipal	Groundwater for Sustainable Development	May 2023	Q1(Top 2-9)
27	Blockchain for healthcare systems: Architecture, security challenges, trends and future directions	ANDREW J	Manipal Institute of Technology, Manipal	Journal of Network and Computer Applications	June 2023	Q1(Top 2-9)
28	CharacteristicModeAnalysisBased Compact VaseShaped TwoElement UWB MIMO Antenna Using a Unique DGS for Wireless Communication	SUBHASH BODAGURU KEMPANNA	School of ECE, REVA University, Bangalore	Journal of Sensor and Actuator Networks	June 2023	Q1(Top 2-9)
29	Characteristics Mode AnalysisInspired Compact UWB Antenna with WLAN and XBand Notch Features for Wireless Applications	PRAVEEN KUMAR	Manipal Institute of Technology, Manipal	Journal of Sensor and Actuator Networks	June 2023	Q1(Top 2-9)

C. Patents filed during the period of April- June 2023

Mukundan, Nidhi S, Dr Vidhu Sankar Babu, Manipal School of Life Sciences, Manipal, have been filed a patent titled "A METHOD FOR GRAFTING OF ANNUAL C3 AND C4 MONOCOT CROPS FALLING INTO TWO DIFFERENT PHOTOSYNTHETIC TYPES" on 07/04/2023.

Nayak C, Purushottam Divya Shenoy, Kishore Anoop, Manipal College of Pharmaceutical Sciences, Manipal, have been filed a patent titled "MULTI-USER WIRELESS DIGITAL RECORDER FOR PROVIDING TIME-BASED MEASUREMENTS OF EVENTS, AND METHOD THEREOF" on 13/04/2023.

Krishnananda Prabhu R V, Kasturba Medical College, Manipal have been filed a patent titled "SYSTEM FOR MAINTAINING PROPULSION OF A VEHICLE USING AN ADDITIONAL WHEEL" on 13/04/2023.

Krishnananda Prabhu R V, Kasturba Medical College, Manipal have been filed a patent titled "SELF-CHARGING HYBRID VEHICLE" on 19/04/2023.

C. Mallikarjuna Rao, Gautam Kumar, Srinivas Mutalik , K. Nandakumar Manipal College of Pharmaceutical Sciences, Manipal, have been filed a patent titled "AN ACTIVELY TARGETED CATIONIC LIPOSOME FOR CO-DELIVERY OF siRNA AND CHEMOTHERAPEUTIC AGENT, A METHOD OF PREPARATION THEREOF, AND APPLICATIONS THEREOF" on 27/04/2023.

Pooja S, Chandrakala C B, Jaishnav G, Manipal Institute of Technology, Manipal have been filed a patent titled "SYSTEM AND METHOD FOR RECKONING PROFESSIONAL SUMMARY OF A RESEARCHER" on 27/04/2023.

Aseefhali Bankapur & Ghanashyam C Department of Atomic and Molecular Physics have been filed a patent titled "SYSTEM FOR OPTIMIZING REVERSIBLE PLASMONIC ASSEMBLY OF METAL" on 12/04/2023.

POOJA S, CHANDRAKALA C B, JAISHNAV G Manipal Institute of Technology, Manipal have been filed a patent titled "SYSTEM AND METHOD FOR RECKONING PROFESSIONAL SUMMARY OF A RESEARCHER" on 27/04/2023.

Kalthur Guruprasad, Dcunha Reyon, Adiga Satish Kumar, Kasturba Medical College, Manipal have been filed a patent titled "LIPOSOME-BASED FREEZING MEDIUM FOR PRE-PUBERTAL TESTICULAR TISSUE CRYOPRESERVATION, AND A METHOD FOR PREPARING THEREOF" on 24/05/2023.

Kashmitha Muthamma, Dhanya Sunil, Manipal Institute of Technology, Manipal have been filed a patent titled "SECURITY INK FORMULATION WITH RUB ENHANCED, EXCITATION WAVELENGTH DEPENDENT AND SOLVENT SENSITIVE FLUORESCENCE FOR ANTICOUNTERFEITING" on 25/05/2023.

Asha Udaya Rao, Blesson Sebastein & Radhika Panambur Bhandary, Manipal Institute of Technology, Manipal have been filed a patent titled "A COMPOSITION FOR PREPARING A CONSTRUCTION BINDER MATERIAL AND PROCESS THEREOF" on 26/05/2023.

Krishnananda Prabhu R V, Kasturba Medical College, Manipal have been filed a patent titled "REVOLUTIONARY BICYCLE" on 08/06/2023.

Reena Verma, Ajith A Nayak, Sahana Jali, Pereira Fransha Jenevy, Welcomgroup Graduate School of Hotel Administration, Manipal have been filed a patent titled "A SNAKE GOURD JAM AND

METHOD OF PREPARATION THEREOF" on 16/06/2023.

Seetharaman Balaji & Prapti Behera, Manipal Institute of Technology, Manipal have been filed a patent titled "METHOD OF PREPARING AN ENZYME COMPOSITION" on 12/06/2023.

Vidhi Mathur, S V Kirthanashri, Raviraja NS, Manipal Centre for Biotherapeutic Research have been filed a patent titled "DECELLULARIZED RAT OESOPHAGUS AS AN INK FOR 3D PRINTED TUBULAR SCAFFOLD" 26/06/2023.

Shirley Lewis, Nawaz Usman, Balaji, Naveen Salins, Kasturba Medical College, Manipal, Priyanka, Supriya, Sudhakar Upadhyay, Manipal School of Information Sciences, Manipal have been filed a patent titled "A SYSTEM AND METHOD FOR INTEGRATED CAPTURE AND EVALUATION OF MEDICAL DATA" on 22/06/2023.

Sajan Daniel George, Aravind M. Department of Atomic and Molecular Physics have been filed a patent titled "CONTACT LENS AND METHOD FOR TREATING CONTACT LENS" on 24/06/2023.

Shreelaxmi Prashant, Pooja K A, Manipal Institute of Technology, Manipal have been filed a patent titled "SUSTAINABLE ALKALI ACTIVATED TERNARY BINDER COMPOSITE FOR MASONRY, AND A METHOD OF PREPARATION THEREOF" on 28/06/2023

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

Research has always been an area of predominant importance to Manipal Academy of Higher Education. In this Knowledge Era, MAHE has emerged as a Research & Innovation Driven University. Our Vision is to nurture and promote research activities of global standards. As of June 2023, we have been receiving funding for 129 research projects which are ongoing funded by leading government and non-government organizations like ICMR, DST, DBT, SERB, and CSIR. Utilizing our state-of-the-art research facilities, we have successfully secured around 34 new research projects with a total value of 4.5 crore for the April to June 2023 quarter, in addition to the ongoing 380+ research projects.

At the Directorate of Research (DoR), MAHE we manage the entire grant management lifecycle, from pre-award planning to the post-award reporting stage. It is challenging, especially for early career researchers with the grant application process. However, one may effectively manage any difficult research programme if the right tools are at hand, proactive management is used, and a helpful workflow is in place. Our objective at DoR is to facilitate the smooth administration of research grant projects by complying with the funding body and MAHE policy.

To administer the process of pre-award planning to the final reporting, the administration of the MAHE has set up the Grants Office (GO) centrally at DoR. The Grants Office is managed by a Grants Coordinator. At GO, we strive to increase the quantity and quality of research funding while aiding academics and research scholars in enhancing the research outputs at MAHE.

In tandem with the objective, we are constantly updating new grant calls which can be accessed through Funding Institutional, Grants Mgmt. portal, and Research Management System (RMS) to help faculty and researchers. Additionally, the Grants Coordinator (GC) will serve as the applicant's single point of contact for all essential discussions about Finance, Legal, and HR. The GC will be serving as the liaison officer between the organization and the funders. At MAHE, on applying for any research grant it is mandatory to update the project information in 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.

Contact Details:





Mr Royal Monteiro, Coordinator – Grants Office, MAHE, Manipal.
DBT/Wellcome Trust India Alliance IRMI Research Management Fellow

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Phone: 0820-29-37733



A. Faculty and Institution Achievements

<p>Dr Anupama Hegde, Professor, Department of Biochemistry, KMC Mangalore won first Prize for poster presentation at SDM College Medical sciences & Hospital, Dharwad on 19th May 2023.</p>	
<p>Dr Thripathi Rai, Associate Professor, Department of Otorhinolaryngology, KMC, Mangalore published a book titled Competency Based Questions and Answers in Otorhinolaryngology (ENT) for Third MBBS Professional Examination 978-93-5466-504-2</p>	
<p>Dr Vangara Harika, Senior resident, Microbiology, KMC Mangalore won first prize for poster presentation titled "Trends and Analysis of Needle Stick Injuries of health Care Workers in a Tertiary Care Center" at 2nd Hospital Infection Control Committee CME and Workshop on 9th June 2023.</p>	
<p>Dr Archith Bloor, Additional Professor, General Medicine, KMC Mangalore published 2 books titled ECG for Nurses – From Basics to Bedside (First edition) ISBN 9789356962705 & An Insider's Guide Cases in Clinical Medicine-ISBN 9789356962668</p>	



Dr G Arun Maiya, Dean-MCHP, Professor, Department of Physiotherapy, Chief- Centre for Diabetic Foot Care and Research was invited as the Lavigne- Smee Visiting Scholar at School of Physical and Occupational Therapy, McGill University Montreal, Quebec from 13th to 25th April 2023. He delivered a talk on the assessment and rehabilitation of chronic low back pain.

Dr John Solomon M, Coordinator of Centre for Comprehensive Stroke Rehabilitation and Research & Head of Department of Physiotherapy, MCHP, MAHE was invited as a speaker at the World Physiotherapy Congress held in Dubai between June 2nd to 4th 2023 and is supported by a travel bursary of World Physiotherapy of GBP £1,200.



He delivered a talk on a focused symposium on implementing technologies into global stroke rehabilitation: why, what, and how?

He was a panelist on the topic “digital practice: balancing the benefits of access with the need for human relationships’ and co-moderated a session on ‘continuous professional development.”

He presented a scientific poster on “PROM for measuring the effect of game-based rehabilitation” and also chaired a poster session on “stroke”.



Dr Senthil Kumaran D, Additional Professor, Department of Physiotherapy, MCHP received the Bursary Award of £1,200 (Travel & Accommodation) and free registration to attend the World Physiotherapy Congress 2023, held at Dubai from 2nd to 4th June 2023. He presented a poster titled “Effect of a game-based rehabilitation compared to task-based training on upper limb function in patients with stroke: preliminary findings”, a platform presentation titled “Upper limb movement capacity following the game-based rehabilitation compared to task-based training post-stroke: preliminary findings” and, gave a seminar talk on “Physical activity levels, physical activity promotion programs in LMICs”.

Dr Preetha R, Associate Professor, Department of Physiotherapy, Manipal College of Health Professions, MAHE, Manipal, presented a poster titled “Knowledge, Attitude, and Practices about Exercises among Pregnant Women during COVID-19 Pandemic” at World Physiotherapy Congress, Dubai from 2nd to 4th June 2023. She obtained a bursary award worth \$128 to attend Congress.

Dr Bhamini Krishna Rao, Professor at the Department of Physiotherapy, Manipal College of Health Professions, Manipal Academy of Higher Education, Manipal has presented a printed poster presentation titled, “Physical Activity of Pre-menopausal Women with Uterine Fibroids – A Cross-Sectional Study” at the **World Physiotherapy Congress 2023 held at Dubai, UAE held from 2nd to 4th June 2023.**



Dr Vaishali K, Professor, Department of Physiotherapy presented a paper titled “Recent Advances in ILD” and was the resource person for the pre-workshop “Trends in Pulmonary Rehabilitation” at Scintilla’23 - a national Physiotherapy conference organized by JDT Islam College of Physiotherapy, Kozhikode on 19th -20th May 2023.

She also received the Research Excellence Award for contributing to Research Excellence in Physiotherapy for the benefit of society.

Mr Prateek Srivastav, Assistant Professor- Selection Grade, Department of Physiotherapy, MCHP bagged the first prize for platform presentation under PhD category in Scintilla’23 - a national physiotherapy conference organized by JDT Islam College of Physiotherapy, Kozhikode on 19th to 20th May 2023. He also delivered a keynote on “Pilates Training”.



Dr Shubhaganga D, Assistant Professor, Department of Speech and Hearing won the Best Oral Presentation award in the Audiology category at 2023 AIIMS EPICON conducted from 29th and 30th April 2023 at Amrita Institute of Medical Sciences & Research Centre, Kochi, Kerala.

Dr Shubhaganga D, Assistant Professor, Department of Speech and Hearing won the Best scientific paper award at the first National Conference RAAM-CD organized by the Department of Audiology and Speech Language Pathology held at Aarupadai Veedu Medical College & Hospital, Pondicherry on 7th and 8th April 2023.

Mr Premjit Bhakat, Assistant Professor-Senior scale, Department of Optometry, Manipal College of Health Professions, MAHE, Manipal conferred with travel grant from the International Association of Contact Lens Educator (IACLE) to participate in IACLE World Congress 4 at Birmingham, UK between 5th to 8th June 2023. The congress was hosted by IACLE in association with Aston University, Birmingham. The conference theme was **“Contact Lens Education for the Practitioner of the Future”**.



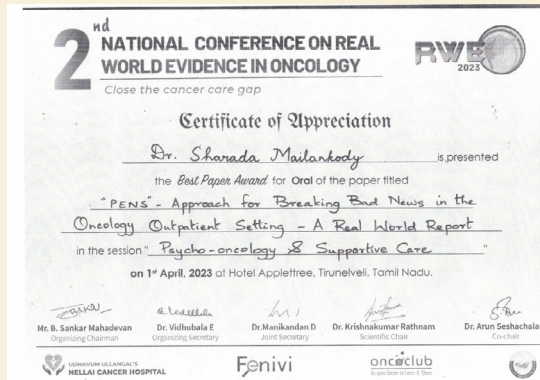
Dr Sulochana B, Associate Professor, Department of Fundamental Nursing, Manipal College of Nursing, MAHE, Manipal conferred with a travel grant to attend the International Society for Thrombosis and Haemostasis Congress 2023 held at Montreal Canada, from 24th to 28th June 2023.

- **Dr Anup Naha**, Department of Pharmaceutics, MCOPS secured third prize in the E-poster presentation competition held at Department of Pharmaceutics, NGSM Institute of Pharmaceutical Sciences, Nitte (DU), Mangaluru held on 12th and 13th April 2023.

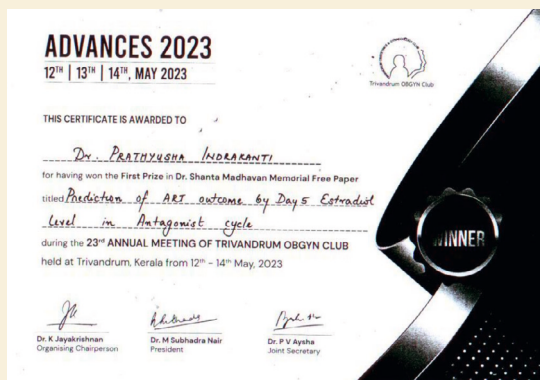
- Dr Anitha, Professor, Department of Electronics and Communication MIT Manipal has been selected for the Indian National Science Academy, Visiting Scientist Programme 2023-24 (2 months), at MEG Research Centre, Department of Neurology, NIMHANS, Bangalore.

B. Achievements by research scholars and students

1. Dr Sharada Mailankody, post-graduate student of Department of Medical Oncology, KMC, Manipal received the Best Paper Award on 1st April 2023 at Hotel Appletree, Tirunelveli, Tamil Nadu, India.



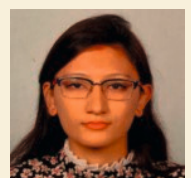
2. Dr Prathyusha Indrakanti, postgraduate student, Department of Reproductive Medicine & Surgery, KMC, Manipal received First Prize in Shanta Madhavan Memorial Paper Presentation during 23rd annual meeting of Trivandrum OBGYN Club held at Trivandrum, Kerala from 12 to 14 May 2023.



Ms Akhila Jagadish, Dr TMA Pai PhD Scholar at the Department of Physiotherapy, Manipal College of Health Professions, Manipal Academy of Higher Education, Manipal presented a scientific e-poster titled "Management of fatigue using transcranial direct current stimulation in neurological conditions: A Systematic Scoping Review" at the World Physiotherapy Congress 2023 held in Dubai, UAE held from 2nd to 4th June 2023.

She has also been selected as a bursary recipient (\$254) to attend the online event of the World Physiotherapy Congress 2023 held on 23rd to 25th June 2023. The bursary provided a concession of registration fees for her in-person attendance. This will also give access to the recorded content from all the main sessions in Dubai along with abstracts, platform, e-poster, and poster presentations, and live questions and answers from the key sessions with the online audience.

Ms Shristi Shakya, Dr TMA Pai PhD scholar, Department of Physiotherapy, MCHP presented a platform presentation titled, "Technology-based physiotherapy interventions for head and trunk control in children with Cerebral Palsy: A Review" at the World Physiotherapy Congress 2023 held at Dubai, UAE on 2nd to 4th June 2023.



She has also been selected as a bursary recipient (\$254) to attend the online event of the World Physiotherapy Congress 2023 held between 23rd to 25th June 2023. The bursary provided a concession of registration fees for her in-person attendance. This will also give access to the recorded content from all the main sessions in Dubai along with abstracts, platform, e-poster, and poster presentations, and live questions and answers from the key sessions with the online audience.



Mr Sulfikar Ali A, Dr TMA Pai PhD scholar participated in a national physiotherapy conference-Scintillacon 2023 conducted by JDT Islam college of physiotherapy, Calicut Kerala on 19th and 20th of May 2023. He presented a paper entitled “Effects of game based rehabilitation program compared to a task based training on upper limb motor function in people with stroke: preliminary findings” and won second prize for the best platform presentation under the PhD research category.

Ms Revati Ravi Amin, PhD scholar presented a paper titled “Does Pulmonary Rehabilitation improve functional capacity and Quality of Life in ILD patients” and received second place for the same at Scintilla’23 - a National Physiotherapy Conference organized by JDT Islam College of Physiotherapy, Kozhikode on 19th and 20th May 2023





Ms Dayana Martis, IV semester MPT (Neurosciences) bagged the second prize in the Quiz competition at IFNRCon 2023 held in Mumbai on 14th to 16th April, 2023.

Ms Ashritha Shetty, 4th semester MSc Audiology student, Dept of Speech and Hearing won the Best Scientific Paper Award at the First National Conference RAAM-CD organized by the Department of Audiology and Speech Language Pathology held at Aarupadai Veedu Medical College & Hospital, Pondicherry on 7th and 8 April 2023

Ms Srishti Munjal, 4th semester MSc Audiology student, Department of Speech and Hearing won the Best Scientific Paper Award at the First National Conference RAAM-CD organized by the Department of Audiology and Speech Language Pathology held at Aarupadai Veedu Medical College & Hospital, Pondicherry on 7th and 8th April 2023.

Dr Swastik Mishra, post-graduate student, Department of Periodontology, MCOADS, Manipal received a special commendation prize for his paper presentation titled “Buccal fat pad to the rescue” at the 21st ISP PG Convention, 2023 held in Mangalore.

<p>Dr Urbashi Roy Chowdhury, postgraduate student, Department of Periodontology, MCOADS, Mangalore has been awarded the Overall Best Paper “Dr V N Bhatavadekar Award” in Clinical Research Category of Paper presentation held at the 21st National PG Convention organised by Indian Society of Periodontology at AB Shetty Memorial Institute of Dental Science, Mangalore from 31st-1st April 2023</p>	
<p>Dr Priyanka Sahu, 1st-year postgraduate student, Department of Periodontology, MCOADS, Mangalore, MAHE, Manipal has won the Commendation certificate for her poster presentation titled, “Hyaluronic acid: Hope or Hype in Periodontics” under the category of review article at the 21st ISP National PG Convention held at AB Shetty Memorial Institute of Dental Science, Mangalore from 1st to 2nd April 2023.</p>	

<p>Ms Simran Gupta, Intern, MCOADS, Mangalore, MAHE, Manipal has been awarded the second prize for Best Research Presentation (International) for her oral presentation titled "Comparative Evaluation of Penetration and Adaptation of a Silver Nanocrystal Incorporated Pit and Fissure Sealant" at the 13th Dental Students' Scientific Symposium 2023 held at Faculty of Dentistry, University Teknologi MARA, Malaysia from 18th to 19th April 2023</p>	
<p>Ms Sukanya Menon and Ms Yashaswini Modukuru, Interns, MCOADS, Mangalore, MAHE, Manipal have been awarded the second prize for Best E-poster Presentation (Open Category) for their e-poster presentation titled "Comparative Analysis of Sphenoid Sinus, Frontal Sinus and Foramen Magnum using CBCT in sex determination" at the 13th Dental Students' Scientific Symposium 2023 held at Faculty of Dentistry, University Teknologi MARA, Malaysia from 18th to 19th April 2023</p>	

1. Ms Varalakshmi Velagacherla, Research Scholar, Dept. of Pharmaceutics, MCOPS, MAHE, Manipal secured second prize in e-poster presentation competition held at Drug Delivery Symposium (DDS) 2023 organized by NGSIM Institute of Pharmaceutical Sciences, Nitte (DU), Mangaluru during 12th to 13th April 2023. She presented her paper entitled "Self-assembled Nintedanib synergistic hybrid micelles- A targeted delivery to treat idiopathic pulmonary fibrosis", under the guidance of Dr Usha Y Nayak, Additional Professor, Dept. of Pharmaceutics, MCOPS, MAHE, Manipal.



2. **Mr Rakesh Rahangdale**, Research scholar, Department of Pharmaceutical Biotechnology at MCOPS received ESCMID FÖrderverein Grant for attending the 33rd ECCMID held at Copenhagen, Denmark. The grant included free registration, accommodation, and travel tickets including visa acquisition costs. Mr Rakesh presented his research paper entitled "Design and development of host cell derived peptide to inhibit Herpes simplex virus entry" at the conference which was co-authored by Dr Mukesh Pasupuleti (Scientist at CDRI, Lucknow), Dr Fayaz SM (Assistant Professor, Department of Biotechnology, MIT) and Dr Raghu Chandrashekar H. He is pursuing his research work under the guidance of **Dr Raghu Chandrashekar H**, Professor and Head, Department of Pharmaceutical Biotechnology, MCOPS, MAHE, Manipal on 15th to 18th April 2023.



3. Mr Annamalai Rama, Research Scholar, Department of Pharmaceutics, MCOPS secured first position in an online presentation at the National Conference on Intellectual Property Rights of Pharmaceuticals on 7th May 2023.

- Mr Shamanth Madapur, a Research Associate in the Biomedical Engineering Department, MIT, Manipal has been honored with the Young Investigator Award 2023 from the Indian Federation of Neurorehabilitation (IFNR) at IFNRCON 2023 in Mumbai for his work developing a "**Head and Trunk Control Rehabilitation Device for Children with Cerebral Palsy**". Dr Venkatesan (BME) is the team leader and Mr Harikishan Shetty (BME) provides technical support. Dr Sivakumar G (KMC), Dr Bhamini K Rao (MCHP) and Shristi Shakaya (MCHP), provided clinical support.

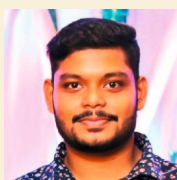
- Mr Ronan Mark Dsouza, B Tech, Data Science and Engineering/ third year, Department of Data Science and Computer Applications, MIT, MAHE, Manipal, DSE has won the hackathon organized by FOSS United and has been awarded INR one lakh as a cash prize.



Ronon Mark Dsouza (left) with his team at FOSS Hack

- We are pleased to inform that our students, Mr Siddharth S (190907174) and Ms Shwetha Prabhu (180907020) project proposal entitled, “Development of reliable imaging techniques for respiratory motion signal extraction of lungs in patients with thoracic insufficiency syndrome” has been approved by the Council under “Student Project Programme - 46th Series”, Karnataka State Council for Science and Technology during 2023.

- **Ms Gayathri** (Dr TMA Pai PhD Scholar), Department of Biotechnology, MIT, MAHE has awarded with International Society of Computational Biology (ISCB) international travel grant (\$1000) to attend the Intelligent Systems for Molecular Biology/European Conference on Computational Biology to be held at Lyon, France during 23th to 27th July 2023.



Mr Arnab Mukherjee (Dr TMA Pai PhD Scholar), Department of Biotechnology, MIT awarded with national travel grant to attend SERB High End Workshop (Karyashala) on Bioinformatics and Statistical analysis of Genome Scale DNA and RNA Sequencing Data to Understand Human Diseases to be held at National Institute of Biomedical Genomics, Kalyani, West Bengal during 13th to 19th July 2023

- **Ms Samrakshini**, Reg No 210924140, third year B Tech Biotechnology, MIT, MAHE has been awarded with prestigious Summer Research Fellowship 2023 by the Indian Academy of Sciences (in association with NASI and INSA) for two months at Central Potato Research Institute, Shimla, India. She will be availing the fellowship from 5th June to 31st July 2023.



- Ms Wilma Serrao has been awarded the Australia India Research Students’ Fellowship for 2023. The bilateral program, led by the Australia India Institute, and funded by the Australian Government Department of Education, supports research collaboration and student mobility between the two countries. The fellowship forms part of the update to the India Economic Strategy to 2035 action plan to strengthen education and research ties between the two countries. The program will see 22 Australian universities collaborating with 37 Indian higher education institutes. As part of the fellowship, Wilma will be taking up a study on the contributions of radio to Australia’s Indian diaspora. This study will be undertaken at Deakin University, Australia. Ethnic broadcasting is an important tool for supporting migrant communities to stay connected to their home country. In Australia, Indian radio stations continue to evolve, reflecting the country’s booming Indian population.

- Ms Anjali S Menon (Reg No. 200900189) is a recent recipient of a UGC fellowship under their new scheme Savitribhai Jyotirao Phule Single Girl Child Fellowship. After the submission of her detailed research proposal, UGC awarded her with a JRF fellowship under the scheme, making her one among the only four candidates under MAHE to procure the fellowship.



- Dr TMA Pai PhD Scholar Ms. Ashitha Christopher received the Indian Council of Social Science Research (ICSSR) Travel Award for International Conference, involving full funding, to present her research in person at the “Comics and/as Resistance” conference, organized by The Oxford Research Centre in the Humanities (TORCH) of the Radcliffe Department of Humanities, University of Oxford. Her research delves into the intriguing topics of childhood socialization, the crisis of normativity, and the significant role played by Indian comics in fostering alternative subjectivities, promoting inclusion in diversity, and nurturing acceptance of uninhibited individual uniqueness. By exploring these themes, the project aims to shed light on the powerful influence of comics in shaping our understanding of gender, identity, and societal norms.



1. Achievements by research scholars and students

- Ankitha S**, Bhisham Narayan Singh, Hybrid tissue reconstruct for articular cartilage, BioHeal 2023, Rishikesh, India. 13th to 16th April 2023 (Poster Presentation) (International conference) **(Awarded with Best Poster Award)** regeneration: In-vitro and in-vivo analysis.



- U Sangeetha Shenoy**, Divya Adiga, Adarsh Kudva, Naveena Kumar A.N, Shama Prasada Kabekkodu, Raghu Radhakrishnan. **Epigenetic reprogramming of HOX genes and ncRNAs in Oral cancer**, Manipal Research Colloquium, 2023, at MAHE, Manipal. 12 to 14th April 2023. **(Best Poster Award)**







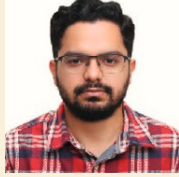




- NAIR AS**, Pooja YT, Rodrigues J, Nagiri SK, Umakanth S, Jasti DB, Joshi MB. Homocysteine induced neutrophil activation and its central role in stroke pathogenesis. International Symposium on Cardiovascular metabolomics organized by CSBMM-Yenepoya University, Mangalore, India in collaboration with London School of Hygiene and Tropical Medicine, 19th May 2023 (International) **(Best Poster Award)**.



- Sarah Gomes**, Herman Dsouza, Manjunath B Joshi. Phytochemical Inhibition of Glucose-induced Neutrophil Extracellular Traps in Type 2 Diabetes and Infection, International Symposium on Cardiovascular Metabolomics, Center for Systems Biology and Molecular Medicine, Yenepoya Research Centre, Yenepoya University, Mangalore, India, 19th May 2023. (Poster presentation) (International) **(Best Poster Presentation)**



- Kshitij Kashyap, Tanvi Sachdeva, and Muskan Verma (third year MBBS) bagged the first prize in Scientific Model making competition and presented on “Crime Scene Investigation.”

<p>Mr Ramiz Malik M, Department of Audiology & SLP, KMC Mangalore won Best Scientific Presentation award) for a paper titled "Effect of Hearing Aid on Balance: A Review of presentation (poster category) at Ni-VEMP National Conference, Nitte Institute of Speech and Hearing, Mangaluru on 29th April 2023</p>	
<p>Dr Anshul Tripathi & Dr Narshetty Shivam Gurunath, Department of Orthopedics, KMC Mangalore won first prize in Dr H K Vishwanath Memorial COS Quiz at Canara Orthopaedic Society on 25th May 2023</p>	 
<p>Dr Kaushika, Dhruvi Shah, and Prerana Jain, Department of Psychiatry, KMC Mangalore won third prize in Reel making competition on World Schizophrenia Day organized by Department of Psychiatry on 23rd May 2023</p>	  
<p>Dr Shreyas Aneja, Department of Psychiatry, KMC Mangalore won third prize in the Debate competition on World Schizophrenia Day organized by Department of Psychiatry on 23rd May 2023</p>	
<p>Dr Rabia Suzanne Angiras, Department of Oncology, KMC Mangalore won second prize for oral presentation at GI-CON 2023, HCG NMR Cancer Centre Hubli on 27th May 2023.</p>	
<p>Dr Devesvar M V, Department of General Surgery, KMC Mangalore won first prize for the poster presentation at FIAGES 2023 on 23rd June 2023</p>	 <p style="text-align: center; font-size: small;">Devesvar MV 11/1/2019</p>
<p>Ishita Gupta and Yukti Rustagi won third prize at the state level Debate competition - Forensic 2023, Department of Forensic Medicine & Toxicology, Father Muller Medical College on 20th May 2023</p>	 

C. Awards and accolades

Mr Basavaraj Poojar, PhD research scholar, Tutor, Department of Pharmacology was awarded a scholarship to attend ISPE's Mid-Year Meeting 2023 at Reykjavik, Iceland. The scholarship includes complimentary registration to ISPE's Mid-Year Meeting 2023, reimbursement of travel expenses up to USD 2100, and complimentary admission to pre-conference courses and announced social events.



1. Dr Chandni Gupta, Additional Professor of Anatomy Department has received the Best Oral Presentation Award at National Level Conference, SGTeAnatCon 2023 held during 5th and 6th April 2023.

- Manjunath K N, Associate Professor, Department of Computer Science and Engineering, MIT, MAHE, Manipal was honored with his name mentioned as an outstanding reviewer at the Medical Image Computing and Computer Assisted Intervention Society 2022 conference, Singapore. He was ranked 37th position out of 1248 reviewers worldwide, including radiologists, medical professionals, and professors in Biomedical engineering. This is the annual tier-1 (A ranking) conference conducted by MICCAI Society, USA.

- Dr Praveen Shetty was felicitated at GNITS, Hyderabad. The Department of Humanities and Mathematics, along with other student club convenors at G Narayanamma Institute of Technology and Sciences, Hyderabad, had a stimulating interaction with Dr Praveen Shetty, Assistant Professor Senior Scale, Department of Humanities & Management, MIT, Manipal and Coordinator of the Centre for Intercultural Studies and Dialogue at Manipal Academy of Higher Education. Dr Shetty had been awarded a citation for his documentary "Yakshagaana" in the category of Best Script Writing at a video competition held by the UGC Consortium of Educational Communication. During the interaction at GNITS, he shared his experiences and challenges in creating an intercultural platform in technical institutions and highlighted the importance of the humanities in engineering colleges. The department was delighted to have had this opportunity to learn from Dr Shetty and hopes to continue fostering a diverse and inclusive community at GNITS. Dr Shetty also provided his insights on the effective functioning of Humanities departments in Engineering colleges, given the dynamic changes in the Education sector. Dr Ramesh Reddy, Head of the Institution, GNITS felicitated Dr Shetty for his remarkable contribution to the Humanities discipline in India.



- Dr Praveen Shetty, Faculty, Department of Humanities & Management received a Citation Award from The Consortium for Educational Communication (CEC) - University Grant Commission (UGC) for one of the video documentaries produced by the Centre for Intercultural Studies and Dialogue (CISD), MAHE. He received the Best Script Writing Award for his educational documentary, "Yakshagana". It is a part of the project, "Discerning India: Living Cultures of Tulunadu"

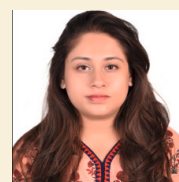


carried out by CISD, MAHE. The project has developed an Online Certificate Course under MAHE titled "Living Cultures of Tulunadu". The two-credit course can be completed by anyone in virtual mode and details are available at <https://manipal.edu/des/centres/cisd/DiscerningIndia.html>. The video documentary on Yakshagana was one among the top 20 educational video documentaries selected out of the 194 submissions to CEC-UGC. It was screened along with the other awarded documentaries at Educational Film Festival held during 27th to 29th April 2023 at Osmania University, Hyderabad.

- 1) **U Sangeetha Shenoy**, Divya Adiga, Adarsh Kudva, Naveena Kumar A.N, Shama Prasada Kabekkodu, Raghu Radhakrishnan. **Upregulation of HOXA9 promotes malignant progression of advanced clinical stage of Oral squamous cell carcinoma**, International conference on Precision cancer medicine for the evolving cancer genome and epigenome, Lucca, Barga, Italy, 21st to 26th May, **(Poster Presentation) (Travel award received from Conference organizers) (Also got travel grant funded from SERB, Govt of India)**



- 2) **Ms Ishita Chakraborty** was awarded with Ms Savitribai Jyotirao Phule Single Girl Child Fellowship (SJSGC) Scheme under UGC under the guidance of Dr Nirmal



Part III

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

The MAHE Students Research Forum (MAHE-SRF) is a dynamic and student-centric organization that plays a pivotal role in fostering research culture among undergraduates, postgraduates, and research scholars across the constituent institutions of MAHE. MAHE-SRF is committed to nurturing research interests and inspiring students to pursue research as a career.

The objectives of MAHE-SRF are multifaceted and encompass several key areas. Firstly, it aims to cultivate research curiosity among undergraduate and postgraduate students, motivating them to embrace research as a lifelong pursuit. Additionally, it endeavors to establish a robust network of students

across the constituent institutions of MAHE, fostering interdisciplinary collaboration and facilitating the exchange of ideas. Moreover, MAHE-SRF seeks to encourage entrepreneurship and innovation among students, providing them with a platform to transform their research findings into tangible solutions. Another crucial objective is to organize research activities that promote engagement and knowledge sharing among students. Lastly, MAHE-SRF aims to raise awareness among all students about the research-related incentive policies implemented by MAHE.

MAHE-SRF offers numerous opportunities and platforms for scientific interactions and networking in various multidisciplinary domains across institutions. Through the organization of summer school activities, webinars, and conferences, MAHE-SRF enables students to engage in collaborative work with eminent researchers, fostering an environment of intellectual growth and exploration. The Directorate of Research (DoR), MAHE, Manipal, oversees the functioning of MAHE-SRF, ensuring its alignment with the overall research goals of the university. The MAHE-SRF 2023 team comprises a dedicated group of 34 members hailing from the esteemed campuses of Manipal, Mangalore, and Bangalore. Leading the team as the President is Ms C A Ashitha Sreelakshmi from Manipal College of Health Professions (MCHP), Manipal. Supporting her in their roles as Vice Presidents are Ms Harshalatha from Manipal School of Architecture & Planning (MSAP), Manipal, and Ms Akhila Jagadesh from Manipal College of Health Professions (MCHP), Manipal, respectively. Together, this accomplished leadership team brings their expertise and passion to drive the initiatives and activities of MAHE-SRF, furthering its mission of promoting research and innovation within the MAHE community.

In the current year, MAHE-SRF will be organizing three significant events that are poised to make a substantial impact within the student-research community. The first event, Manipal Research Colloquium (MRC) 2023, will serve as a platform for students, doctoral scholars, and other researchers to showcase their research findings and engage in scholarly discussions. This conclave will facilitate the exchange of ideas, fostering a vibrant academic environment and encouraging interdisciplinary collaborations. Another noteworthy event organized by MAHE-SRF will be the Summer School Program - 2023. This program aims to provide students with an immersive learning experience, enabling them to delve deeper into their areas of interest through specialized workshops, and interactive sessions. By bringing together accomplished researchers and enthusiastic learners, the Summer School Program fostered a spirit of inquiry and nurtured the next generation of research scholars. Furthermore, MAHE-SRF will play a pivotal role in the organization of the Interdisciplinary Conference on Healthcare and Technical Research (ICHTR) 2023. This conference serves as a prestigious platform for scholars and professionals from diverse fields to present their cutting-edge research and engage in interdisciplinary dialogue. By facilitating knowledge exchange and promoting collaborative research, the ICHTR aims to address complex challenges at the intersection of healthcare, technology, and related fields.

In addition to the major events, MAHE-SRF has an array of other engaging events planned throughout the year. These events are designed to provide enriching academic experiences and foster knowledge exchange among the participants.

MRC 2023 (12th to 14th April 2023)

The 7th Manipal Research Colloquium (MRC) was organized from the 12th to 14th April 2023 by the Manipal Academy of Higher Education- Student Research Forum (MAHE-SRF) and Centre for Doctoral Studies (CDS) under the aegis of the Directorate of Research, MAHE, Manipal. MRC- 2023 was aimed to bring the students, scholars, faculties, and scientists to this forum to discuss a diverse range of topics from various streams (Health Sciences, Technical Sciences, Basic & Applied Sciences, Humanities & Social Sciences, and Management Sciences) of various MAHE institutes. papers and posters under the general category were presented on the 12th and 14th April 2023. PhD Mandatory poster presentations were presented on the 13th of April 2023. The event was coordinated by Mr Siva N, General Secretary of MAHE- SRF.

The organizing committee received around 442 abstracts, including PhD mandatory presentation abstracts (161) from across MAHE institutions & research centers covering all major disciplines. The abstracts were shortlisted based on the reviewer's comments and plagiarism report (<20%). For general MRC (12th and 14th April 2023), we received a total of 285 abstracts within different streams which includes the following:

Health Science	Technical Science	Basic and Applied Science	Management Science	Humanities and Social Science
Oral: 43	Oral: 10	Oral: 17	Oral: 06	Oral: 09
Poster: 98	Poster: 21	Poster: 41	Poster: 07	Poster: 08
Online: 7	Online: 10	Online: 02	Online: 01	Online: 06

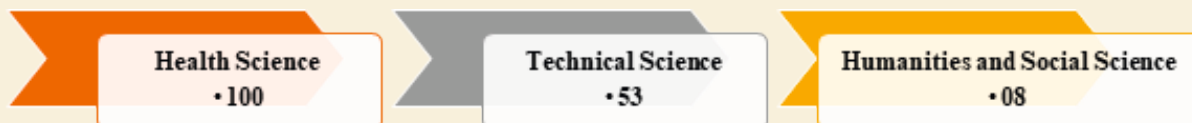
Out of 285 presentations, 255 presentations were within MAHE (including Manipal, Mangalore, and Bengaluru campus); other constituents of MAHE included 30 presentations (including Jamshedpur, Jaipur, Sikkim, Malaysia, and Dubai). The participants presented their papers and posters at Dr TMA Pai Halls, KMC Office, MAHE, Manipal.

The inauguration of the program commenced on 12th April 2023 by Chief Guest Dr HS Ballal, Pro-Chancellor and Guest of Honor, Lt (Gen) Dr M D Venkatesh, Vice-Chancellor, Manipal Academy of Higher Education (MAHE), and Dr B S Satish Rao, Director-Research, MAHE, Manipal. Various Heads of Institutions (HOLs), Heads of Department (HODs), Faculty and Staff, PhD candidates, participants, and attendees were present for the inaugural function. After the vote of thanks, an invited talk was delivered by Prof Sudesh Sivasaru, Head of Division, UCT MedTech Laboratory, University of Cape Town, South Africa. Paper and poster presentations started at 12:00 pm as per the streams divided under various zones. A total of 149 posters and 35 papers were presented on day one.



From the Valedictory Function of MRC 2023

On 13th April 2023, 161 PhD mandatory poster presentations were conducted under the following categories:



On the same day online, oral presentations were also conducted for 30 participants of other institutes of MAHE in the Board Room, Directorate of Research, MAHE, Manipal.



Poster and Oral Presentations were conducted in the Dr TMA Pai Halls

On 14th April 2023, a total of 149 posters and 35 papers were presented. Simultaneously, 15 best PhD mandatory posters were presented as oral presentations (5 min elevator pitch) among which five were awarded as Best Presentation Award with a cash prize of INR 5000 each. The invited talk by Taylor and Francis Journal was conducted online from 12:00 pm to 1:00 pm. The valedictory session commenced at 4:00 pm onwards in Auditorium, 3rd floor, Dr TMA Pai Halls, MAHE. The Guest of Honor for the event was Dr Narayana Sabahit, Pro-Vice-Chancellor (TS), and Dr Sharath K Rao, Pro-Vice-Chancellor (HS), MAHE. The results for the five Best Oral and Poster Presentation Awards 2023 for the General MRC category and fifteen Best PhD Mandatory Posters Presentation Awards' including the best five '5 minutes elevator pitch', were presented.



MAHE-Wiley Open Access Launch Event (16th March 2023)

Event Objectives:

The primary objectives of the MAHE-Wiley Open Access Launch Event were as follows:

- a. Introduce the Journal: Open access publishing- Trends and benefits.
- b. Academic Collaboration: The event provided an opportunity for researchers, scholars, and professionals to come together, fostering collaboration, networking, and the exchange of ideas.
- c. Promote Knowledge Sharing: The event aimed to promote the dissemination of knowledge by creating a platform for researchers to share their work, discuss emerging trends, and engage in scholarly discourse.

Event Highlights:

MAHE-Wiley open access launch event featured a diverse range of activities and components, including:

The Journal Launch Event was organized by MAHE-SRF to mark the official launch of Wiley, a prestigious scholarly publication focusing on open access. The event aimed to gather prominent researchers, academicians, professionals, and stakeholders in the field to celebrate the establishment of the journal and create a platform for knowledge exchange. The event was held at the Manipal School of Life Sciences (MSLS), MAHE, on 16th March 2023. The attendees included:

- Distinguished researchers and scholars from various MAHE institutions
- Professors and academicians specializing in the relevant field
- Representatives from Wiley journal
- Journal's editorial board members
- Media representatives and journalists

The inaugural function comprised a well-structured program that featured the following activities:

Ms Apoorva B S, a member of the executive committee of MAHE-SRF, took on the role of the master of ceremony. The event commenced with a warm welcome note by Dr B S Satish Rao, Director - Research, MAHE, highlighting the significance of the journal launch and expressing gratitude to the attendees for their presence and the honorable Vice Chancellor of MAHE, Lt Gen Dr M. D. Venkatesh, gave the opening remarks. Mr Ritesh Kumar presented an overview of the journal's vision, objectives, and scope, emphasizing the rigorous peer-review process, editorial policies, and future directions. Dr Santosh KV, Deputy Director, Technical Research, gave the closing remarks for the inaugural function.



Inaugural function of MAHE-Wiley Open Access Launch Event

A webinar was organized on the theme “MAHE’s Wiley Agreement: Supporting Open Access Publishing in Wiley and Hindawi Journals.” Through the online session, Ms Alice Wood, Associate Director of Open Access Business Development, shared her insights, research findings, and experiences, stimulating thought-provoking discussions among the attendees.



Webinar on Wiley Open Access

Summer School Program 2023 (3rd May 2023)

Manipal Academy of Higher Education-Student Research Forum (MAHE-SRF), under the aegis of the Directorate of Research, Manipal Academy of Higher Education (MAHE), organized a virtual Inaugural function of “Summer School Program 2023” on 3rd May 2023 at 10.00 am in Boardroom, MAHE, Manipal.

The Summer School Program 2023 will span for about 13 weeks, beginning from 1st May to 31st July 2023. The courses are divided into Category-1, with thirty-five courses, and Category-2 with six hands-on courses. More than 45 distinguished resource persons from both MAHE and non-MAHE institutions will be conducting the courses. Summer School Program is a platform for learners to explore courses

from multiple disciplines.

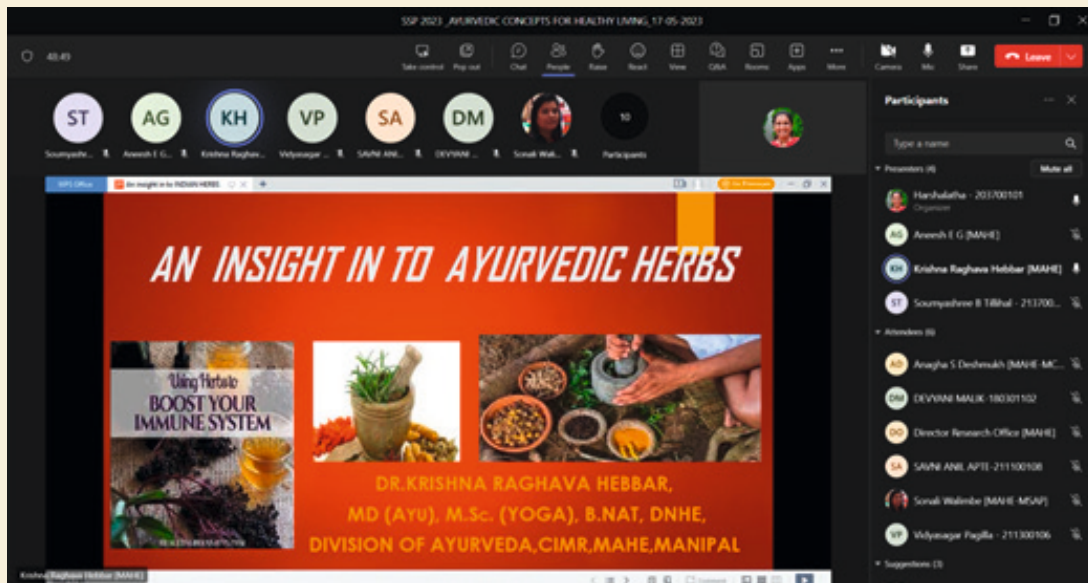
There are 280 participants registered for the different courses from MAHE and non-MAHE institutions. Around 500 registrations are done in both course categories (1&2). There are 54 faculties, 92 research scholars, and 129 students of postgraduate and undergraduate levels who joined the Summer School Program 2023, along with 12 from general categories.

The program was inaugurated by Dr N N Sharma, Pro-Vice-Chancellor (Strategy & Planning), MAHE, Manipal, and was streamed live on 3rd May 2023 at 10:00 am. Dr B S Satish Rao, Director-Research, and deputy directors Dr Bharti C Magazine, Dr Vasudha Devi, and Dr Santhosh K V were present in the inaugural session along with MAHE- SRF members. Ms Akhila Jagadish, Vice President, MAHE-SRF, hosted the ceremony. Ms Harshalatha, Vice President, MAHE-SRF and Event Convenor, welcomed the Chief guest and the gathering and provided an overview of the Summer School Program 2023. Dr N. N. Sharma shared some of his own experiences of learning and encouraged the participants to use the knowledge acquired from Summer School Program courses in their learning process. Ms C A Ashitha Sreelakshmi, President, MAHE-SRF, concluded the inaugural function with a vote of thanks.



Online Inaugural function of Summer School Program

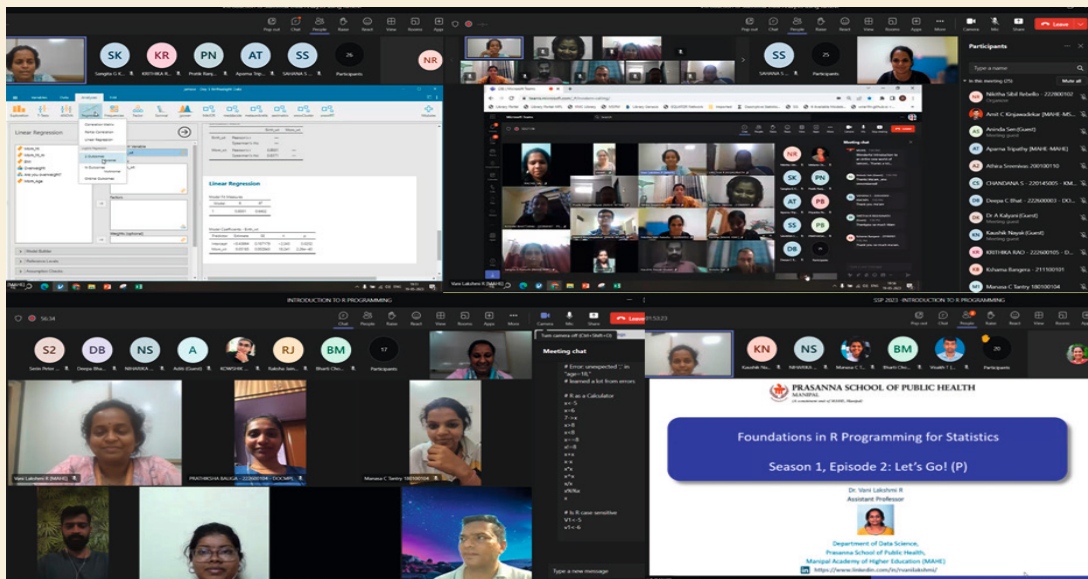
The first session of the first course was conducted on the inaugural day by the Division of Ayurveda, CIMR-MAHE, Manipal. The course was on **Ayurvedic Concepts for Healthy Living** and was conducted between 3:00 pm - 4.00 pm by Dr Anupama V Nayak through online mode. The remaining sessions were conducted by Dr Aneesh E. G. and Dr Krishna Raghava Hebbar on 17th May 2023, and the course was coordinated by SRF members Ms Akshatha and Ms Harshalatha.



The first course of Summer School Program 2023 - Ayurvedic Concepts for healthy living

There were twenty-one courses conducted, including the first-day course under category -1 by online, offline, and hybrid modes. The online course on **Sustainability and Project Management: Focus on Infrastructure Projects** was conducted by Dr Navaneetha Krishnan S from TAPMI, MAHE, Bengaluru on 5th and 6th May 2023, respectively, and the course was coordinated by the SRF member Ms. Harshalatha.

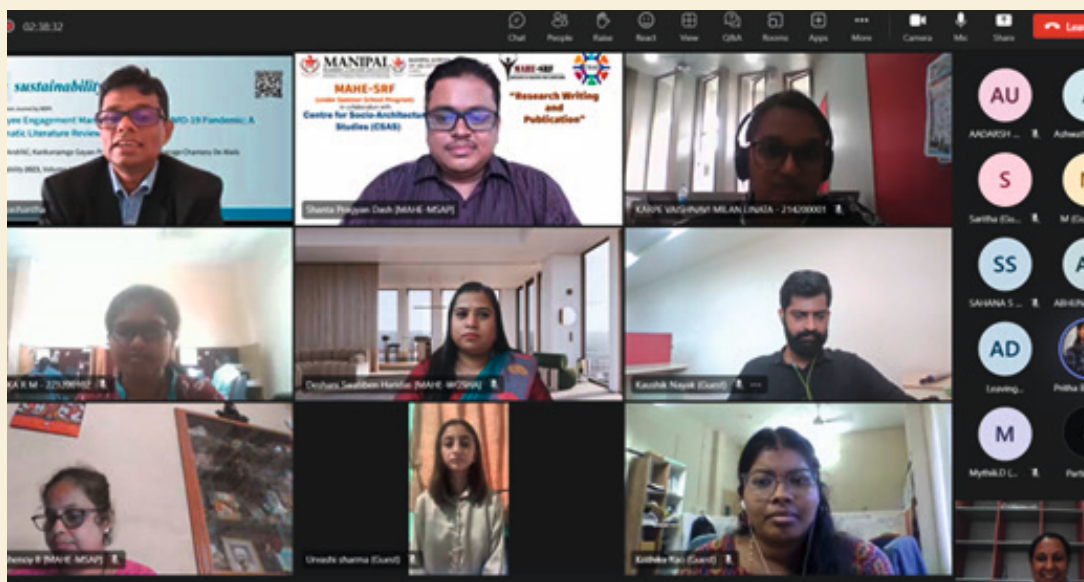
The five-day online courses, **Introduction to Statistical Data Analysis Using Jamovi**, held from 15th to 19th May 2023, and **Introduction to R Programming**, held from 22nd to 26th May 2023, were both conducted by Dr Vani Lakshmi R. from the Department of Data Science, Prasanna School of Public Health (PSPH), MAHE, Manipal and were coordinated by the SRF member Ms Nikitha Rebello.



5 - day online courses on Jamovi and R-programming by Dr. Vani Lakshmi of PSPH, MAHE,

There were four online courses conducted by the Manipal School of Architecture and Planning, MAHE Manipal, which were coordinated by SRF member Ms Harshalatha. The course Lesson of Sustainability from our Heritage was conducted on 27th and 28th May 2023 by Dr Deepika Jeevan Shetty. The course Introduction to Principles of Universal Design in Built Environment was conducted on 29th May

2023 by Dr Amit C. Kinjawadekar and Prof Trupti Amit Kinjawadekar. The course Lateral Thinking was conducted on 30th May 2023 by Dr Kirti Nishant Nikam. The course Research Writing and Publication was conducted on 1st June 2023 by Dr Shanta Pragyan Dash and guest lecturer Mr K G Priyashantha, Professor from Sri Lanka.



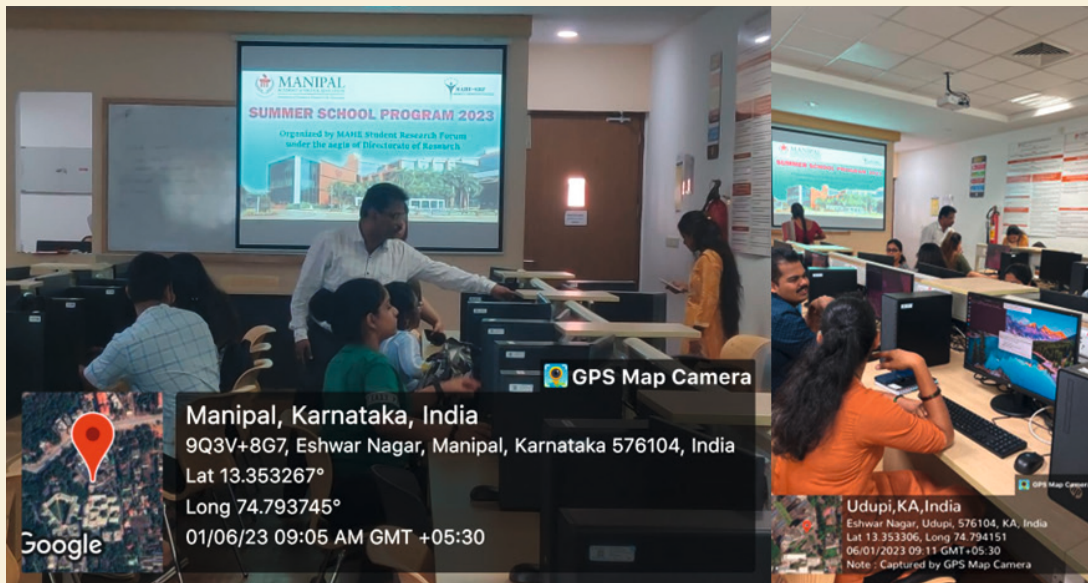
Mr. K. G. Priyashantha from Sri Lanka conducted a session in the online course on Research Writing and publication by MSAP, MAHE, Manipal.

Two offline courses were conducted by the Manipal Institute of Technology (MIT) and were coordinated by SRF members Mr Abhilash H N and Ms Vaidehi R. The course MATLAB for Beginner was held on 29th May 2023 by Dr Umanath R. Poojary, and the course Python for Beginners conducted by Dr Narendra V G along with Dr Ashalatha Nayak and Dr Siddalingaswamy P C was held between 1st to 3rd June 2023.

Two courses were conducted by TAPMI, Manipal, coordinated by SRF members Mr Tijo George and Mr Chethan Kumar. The course How to Publish in Top Peer International Journals by Dr Tatagatha Gosh was conducted through hybrid mode, and the course Structural Equation Modelling Using AMOS by Dr Arunima K V was conducted on 9th June 2023 through online mode.

An offline course, Region of Interest (ROI) Analysis Using Structural Brain MRI, was conducted by the Department of Basic Medical Sciences, MAHE, Manipal, from 29th to 31st May 2023. Dr M. G Ramesh Babu, Dr Rajagopal K V, Dr Bincy M George, and Dr Ashwini Aithal P were the resource persons, and the course was coordinated by SRF member Ms Diksha Shroff.

The ten days online course Personal and Professional Development was held from 15th to 19th and 22nd to 26th May 2023 with Dr. Shridhar of Manipal College of Pharmaceutical Sciences (MCOPS), MAHE, Manipal as the resource person, and Ms Pragathi (SRF member) coordinated the course.



Offline courses conducted by Manipal Institute of Technology, MAHE, Manipal

The five days long online course Making Academic Arguments Through/With Art and Design Artifacts was conducted from 5th to 9th June 2023 by Dr Asmita Sarkar from Srishti Manipal Institute of Art Design and Technology, Bengaluru, and the course was coordinated by SRF members Dr Parul Bajaj and Dr Deepak K V

The online course Gender and Society was conducted on 15th June 2023 by Dr Jagriti Gango-padhyay, Dr Ketaki Chowkhani, and DrR anjana Saha of Manipal Centre for Humanities, MAHE, Manipal. The course was coordinated by SRF member Ms. Joyce Sangeetha Henry.

The one-day offline course Ergonomics in Dentistry was conducted on 21st June 2023 by Dr Aditi Cho-pra of Manipal College of Dental Sciences (MCOADS), MAHE, along with Ms Sidhiprada Mohapatra of MCHP, MAHE, Manipal. The course was coordinated by SRF member Dr Wasiur Rehman Choudhury.

There were four hands-on courses under category-2 conducted by Manipal School of Life Sciences (MSLS), MAHE, Manipal in May and June and were coordinated by Mr. Venkidesh, (SRF member), supported by Ms Chandni Sachdeva (SRF Member) and student volunteers.



Hands -on experience and theoretical sessions during the course held at MSLS, MAHE,

The courses conducted by the Manipal School of Life Sciences (MSLS) commenced with an inaugural ceremony on 17th June at 9:00 am. The ceremony was hosted by Mr Venkidesh B. S., who provided an overview of the Summer School Program 2023 and emphasized the importance of SRF activities. Prof Dr T S Murali addressed the gathering and highlighted the significance and relevance of the course theme. Dr B S Satish Rao, Director - Manipal School of Life Sciences (MSLS), also addressed the attendees, emphasizing the value of the courses offered. The inaugural function was attended by

Associate Directors - Dr Padamalatha S Rai and Dr K P Guruprasad, HODs of various departments, and faculty members of MSLS.

The first course, Principles and Applications of PCR, was conducted from 17th to 19th May 2023 by Dr T S Murali, Dr Saadi Abdul Vahab, and Dr Sudharshan Prabhu. Followed by this were the other courses Flow Cytometry, conducted on 1st June 2023 by Dr Guruprasad K P; HPLC, ICPMS & LCMS Techniques, conducted between 21st to 22nd June 2023; and the course Animal Cell Culture and Cytotoxicity Assays conducted on 27th and 28th June 2023.

To conclude, Summer School Program 2023 has emphasized the importance of research activities and offered a diverse range of courses covering various disciplines. Participants have benefited from expert-led training, practical hands-on experiences, and insightful discussions. With upcoming courses scheduled in July 2023 (eleven courses under Category-1 and two hands-on courses under Category-2), the program is expected to continue fostering a vibrant research community and equipping participants with essential skills and knowledge. The MAHE Summer School Program 2023 serves as a platform for academic growth, collaboration, and the promotion of research excellence.



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