



FOCUS

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Manipal Entrepreneurship Summit Empowers Future Job Creators

The 7th Edition of the Manipal Entrepreneurship Summit (MES), a cornerstone event of the Manipal Academy of Higher Education (MAHE), Manipal, commenced on 14 February 2024 with much fervor. MES, an annual event of MAHE, is jointly organized by Manipal incubators, Manipal Institute of Technology (MIT), various Innovation and Entrepreneurship supporting units of MAHE, and executed by E-Cell of MIT, Manipal.

The 2024 edition of MES spanned for five days from 10-16 February 2024 covering a plethora of activities. Dr. H S Ballal, Pro Chancellor of MAHE, inaugurated the summit, emphasizing MAHE's commitment to nurturing entrepreneurial spirit among students, transforming them from job seekers to job creators.



Presiding over the ceremony, Dr. H S Ballal highlighted MAHE's role in providing the necessary support and infrastructure to foster entrepreneurship. He stressed the importance of equipping students with the skills and mindset required to become job creators rather than mere seekers of job opportunities.

The chief guest, Dr. Sharath Rao, Pro Vice Chancellor-Health Sciences, MAHE, echoed the above sentiments and emphasized the collaborative nature of entrepreneurship. Dr. Rao highlighted the significance of networks, partnerships, and support systems in the journey towards entrepreneurial success.

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Celebration of REVELS 2024: Aarohan - Infinite Horizons

The inauguration of Revels 2024 under the theme "**Aarohan - Infinite Horizons**" was held on 05 March 2024. Lt. Gen. (Dr.) Anil Kapoor, AVSM, VSM (Retired), former Director General Electronics and Mechanical Engineers of the Indian Army,

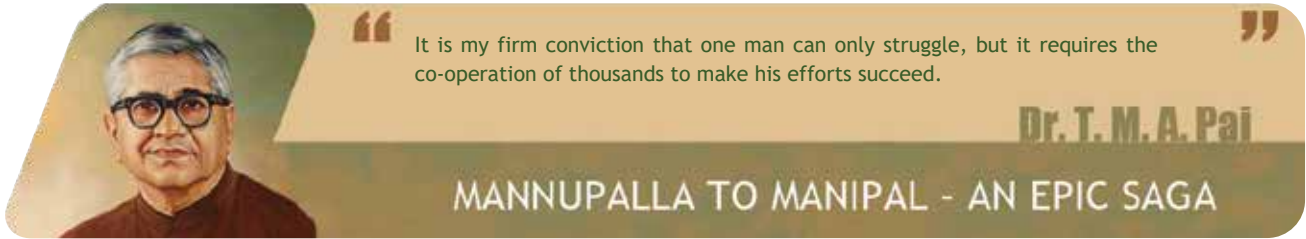


was the Chief Guest, and Ms. Rashmi Samanth, an advocate for cultural diversity and empowerment, was the Guest of Honour. Cdr. (Dr.) Anil Rana, Director, Dr. Somashekara Bhat, Joint Director, MIT Manipal and Dr. Geetha Maiya, Director, Student Affairs, MAHE graced the occasion.

The event attracted more than 800 participants showcasing the spirit of collaboration and innovation that defines MIT Manipal.

Lt. Gen. (Dr.) Anil Kapoor appreciated the efforts of the team MIT and vibrancy of Revels 2024. He highlighted the relevance of such student-centric cultural events in the institution and lauded the choice of the theme. Ms. Rashmi Samanth, alumna of MIT Manipal, reminisced her student days at MIT and commended the overwhelming changes she could see in the campus. Both the speakers expressed their best wishes for the grand success of Revels 2024 embracing the ethos of "Aarohan - Infinite Horizons."

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Dr. T M A Pai, who was actively occupied in establishing professional colleges after his experience of successful establishment of colleges under the Academy of General Education during the 1950's (Medical college in 1953 and Engineering College in 1957), happened to be introduced to the idea of establishing social-centric organisation with an international flavour to help the community in a bigger way. Mr. T Ramesh U Pai, nephew and an active member in Pai family introduced the idea of starting Rotary Club in Udupi- Manipal and convinced Dr. T M A Pai to become the founder President. Mr T A Pai, another nephew of Dr. T M A Pai also joined Mr. Ramesh U Pai in his efforts to persuade Dr. T M A Pai. Thus started the Udupi Rotary Club (which was to become the Rotary Club of Udupi-Manipal) in 1958, a year after the establishment of the then called Manipal Engineering College, the present MIT, Manipal.

Although, initially Dr. T M A Pai was hesitant to start the new initiative, he found an opportunity to serve the local community at large leveraging the international network. The initial meetings of the Udupi- Manipal Rotary Club with members predominantly being the staff of colleges under the Academy used to hold meetings both in Udupi and Manipal. The hosting was done by the Academy, because the growth of Rotary Udupi- Manipal was intricately woven with the growth of the institutions of Manipal. Every progress made in the hospital or colleges was made in to a Rotary Project. This setup of the club went on till 1973. The Rotary Manipal was almost a wing of the Medical College for the first 15 years. During the initial days, the membership fee was just Rs 100 and other major expenses were taken care by the Academy. Just as everything Dr. T M A Pai touched flourished, so did the Rotary Club of Udupi-Manipal.

The first dental chair was a Rotary Project which was the beginning of the Dental College of Manipal. The First Matching Grant was for a van to carry mentally challenged children to the College of Education. Subsequently, several matching grants were organised by the club for providing free cataract surgery and artificial limbs to the deserving and educational aids to schools and required furniture and fittings to orphanage and old age homes etc. Under the matching grant equipment and vehicles were provided to KMC under "Operation Eyesight Universal". The club initiated a project to bridge the gap between civilization and backwardness in Pernankila Village near Manipal for getting roads, transport, Health Centre and Veterinary Hospital, which were immediate needs of the village, by adopting the village. The club got Significant Achievement Award from the Rotary International. It received the Significant Achievement Award again in 1984 when it adopted a tribal colony near Brahmavar and provided education to children of the colony. Matching Grants through "Operation Eyesight Universal" gave eyesight to hundreds of people through the hands of Rtn. Dr Srinivas Rao. The club held 05 District Conferences. The first conference was held under the leadership of Dr. T M A Pai in 1964 against all odds related to logistics and operations. It is worth recalling that during that time, the whole of Manipal had not more than 20 cars. A big pandal was built in KMC Greens for the conference. Unfortunately, the day prior to the conference, there was an unseasonal rain which brought down the pandal. As the DNA of the team Manipal, all the Rotarians and the people of Manipal worked all night to set it up again displaying a great team spirit. Udupi- Manipal Rotary Club went on to organise the majestic Rotary International Conference in Manipal.

The Udupi-Manipal Rotary Club has given many leaders to the District and Rotary International. It has a great legacy of being nurtured by great men who followed the ideals of Dr. T M A Pai. Under the aegis of the Rotary, Dr. T M A Pai could serve the people of the region well beyond the boundaries of the educational landscape he created.

Source: Rtn. Dr. A. Girija, Consultant Gynecologist, Sonia Clinic, d/o Dr. A Krishna Rao, Former Dean of KMC, Manipal (President Udupi- Manipal Rotary 2013-2014)



The photo captured at the International Assembly & Rotary Institute in New York, U S A, which was attended by Dr T M A Pai during 27 May -04 June 1964.

Editor's Musings

Dear Reader,

Greetings from MIT, MAHE, Manipal...!

At MIT, Manipal each calendar quarter brings forth a variety of events that celebrate the spirit of innovation, collaboration, and connect with the society besides assured academic prowess. In this edition of the Newsletter, as we reflect on the highlights of the quarter, it becomes evident that MIT continues to excel by nurturing talents and fostering innovation.

The Manipal Entrepreneurship Summit 2024 was held with all its grandeur, bringing together aspiring student entrepreneurs, industry experts, investors, and thought leaders during 10 - 16 February 2024. The event served as a testament to the rich and diverse spirit of enterprise in our students, faculty, and staff, reflecting the vibrancy that permeates every corner of MIT in addition to providing an opportunity to discuss trends, share insights, and foster collaborations.

The annual cultural and sports extravaganza, Revels 2024 was held during 06-09 March 2024. From intense debates to challenging quizzes, and from captivating performances to thought-provoking dramas, Revels 2024 offered a diverse range of activities for everyone to enjoy. It was a celebration of talent, creativity, and camaraderie, leaving a lasting impression on all attendees.

The Solar Electric Vehicle Championship-2024 (SEVC-2024) was held for the first time at MIT Manipal in this quarter during 27 - 31 March. It reaffirmed our commitment to sustainability and provided a platform for young innovators to showcase their competence in renewable energy technology.

The Bhoomi Puja for the proposed TechShop reassured the availability of a long-awaited facility with the state-of-the-art features for the passionate students who are involved in technical clubs over the years. This new facility promises to be a crucible for ground-breaking ideas, providing students and faculty with the tools and resources needed to turn their dreams into reality. This unique facility is envisioned as a hub for experiential learning, innovation and collaboration.

MIT's partnership with the Bureau of Indian Standards (BIS) brought together experts and thought leaders to explore emerging trends and challenges in technology and standards. The Institute hosted an enlightening workshop on "Standardization Ecosystem" in association with the Bureau of Indian Standards (BIS) on 09 January 2024 as a significant step in the collaborative efforts between the institute and BIS.

Open Library, a new learning concept at MIT, has started functioning on campus as a part of MIT Central Library since 07 February 2024. With its vast repository of resources, the Open Library promises to be a go to place for scholars and seekers alike.

We are delighted to place on record that our faculty members, students and alumni continue to demonstrate their might through outstanding accomplishments in this quarter as well.

Happy Reading...!

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Solar Electric Vehicle Championship-2024 (SEVC-2024)

Solar Electric Vehicle Championship-2024 (SEVC-2024) - a national level event was hosted by Manipal Institute of Technology, Manipal, in collaboration with the Coimbatore Society of Racing Minds (CSRM) during 27 - 31 March 2024. MIT, Manipal had the privilege of hosting this prestigious event for the first time this year commemorating the 125th Birth Anniversary of Late Dr. TMA Pai. A total of 31 teams from across India registered for the SEVC, out of which 14 teams qualified for the final dynamic round. The event was attended by over 450 participants from various parts of India and was coordinated by the Department of Mechatronics and the Department of Aeronautical & Automobile Engineering, MIT Manipal.



Lt. Gen. (Dr.) M.D. Venkatesh, Vice-Chancellor, MAHE, Manipal, inaugurated SEVC-2024 on 28 March 2024. Dr. Y. Ras Mathew, President of CSRM, Coimbatore was the Guest of Honour and Cdr. (Dr.) Anil Rana, Director, MIT, Manipal presided over the inaugural event. Dr. Somashekara Bhat, Joint Director, MIT, Manipal welcomed the gathering, while Dr. Vijay Babu Koreboina, Associate Professor, Department of Mechatronics and the organising secretary of SEVC- 2024 delivered the vote of thanks.

The SEVC-2024 comprised static and dynamic events. Static events included vehicle acceptance protocol, design rounds, cost verification rounds, and business plan presentations. Dynamic events featured brake and acceleration tests, HOH tests, solar endurance tests, manoeuvrability tests, hovering and drag tests, ADAS rounds, Rush in Dusk (night ride), and endurance races.



A rolling trophy for SEVC-2024 was announced in memory of the 125th Birth Anniversary of the founder, late Dr. TMA Pai. Dr. H. S. Ballal, Pro-Chancellor of MAHE, Manipal, unveiled the SEVC-2024 Trophy on 30 March 2024 at MAHE, emphasizing the profound impact of sustainable

development in the realm of electric vehicles. Additionally, a one lakh rupees cash prize was announced, reinforcing the championship's commitment to recognizing and rewarding excellence in the field of solar electric vehicles. The Running Trophy was ceremoniously awarded to Team STES Hyperion, in recognition of their outstanding achievement and commitment to excellence.



On the final day, an EV Awareness Rally covered 14 kilometres starting from the MIT cricket ground, passing through Karavali Junction Udupi and concluding again at MIT cricket ground, Manipal. The EV Awareness Rally was flagged off by Dr. P. Giridhar Kini, Registrar, MAHE, Manipal. Dr. Raviraja N S, Director of Planning & Monitoring, MAHE, Cdr. (Dr.) Anil Rana, Director, MIT, Manipal, Dr. Somashekara Bhat, Joint Director, MIT, Manipal and other dignitaries of MAHE graced the occasion.



The valedictory ceremony of SEVC- 24 was held on 31 March 2024. Sri Tonse Sachin Pai, Trustee of Dr. T.M.A. Pai Foundation, the Chief Guest, delivered an enlightening discourse on India's pivotal role in harnessing solar energy and underscored the myriad opportunities in the realm of solar-powered equipment. He commended MIT Manipal for fulfilling the visionary dreams of his grandfather, the founder of the institution. Cdr. (Dr.) Anil Rana, Director, MIT, Manipal delivered the presidential address and Dr. Y. Ras Mathew, Chairman of SEVC, as the Guest of Honour, highlighted the significance of initiatives like SEVC in fostering innovation and promoting sustainable technologies. Dr. Somashekara Bhat, Joint Director, MIT, Manipal welcomed the gathering and Dr. Anand Pai, Associate Professor, Department of Aeronautical & Automobile Engineering, MIT Manipal and the organising secretary SEVC-2024 delivered the vote of thanks.



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Manipal Entrepreneurship Summit Empowers Future Job Creators

Cdr. (Dr.) Anil Rana, Director of MIT Manipal, graced the occasion as the guest of honor. Commending the efforts of the Entrepreneurship Cell (E-Cell) of MIT in coordinating the event on a grand scale, Dr. Rana highlighted the entrepreneurship ecosystem developed at MIT over the years. Mr. Aman Gupta, Co-founder and CMO of boAt, delivered the keynote address, offering insights into the strategies essential for success in business endeavours. Dr. Somashekara Bhat, Joint Director of MIT, Dr. Santhosha Rao, Convener of the Summit and Chief Executive Officer of MUTBI, Dr. Suchetha V Kolekar, Co-Convener of the Summit and Faculty Advisor of E-Cell, and Mr. Vasu Yogeshwar, President of E-Cell, were present during the inaugural event.

The MES' 24 showcased the journey of key entrepreneurship-led pointers of nearly 29 Founders, Creators, and Venture capitalists.



Overall, the event attracted a large number of students, school children, faculty members and entrepreneurs. 110 startups, student projects, research projects, and MSMEs were exhibited in the Innovation Mela, the flagship event of the Manipal Entrepreneurship Summit. The Innovation Mela was attended by thousands of students. The VCs saw massive potential in the startups and projects, with over 30 teams receiving formal communication for future help and endeavors.



Around 9 Venture Capital and Angel investors network firms were a part of the event, namely- 100x VC, Single Family Office Fund, Caerus3 Advisors & Think Tank, AngelBlue holdings, E2V ventures and Alkemi Growth Capital. Through the multi-year collaboration with 100x VC, Baylink, a startup by MIT students succeeded in raising Rs.1.25 cr led by 100x. Along with Baylink, 3 startups- UpEase, Flying Electronic and Navmarg Research and Innovation Private Limited, were declared the 2nd runners-up, 1st runners-up and winners respectively at the Pitch Tank 2024, securing a cash prize of Rs. 1.5 Lacs in total. A total of 11 startups pitched to a panel of these VCs and gained significant help in terms of ideation, sales and strategy, and network for further expansion.

MES'24 celebrated Manipal-based startups as well as great alumni founders. Three major startups from different incubators in Manipal, Bugbase, Eikona X and BlackFrog Technologies were awarded the best startups by the Pro-

Chancellor of MAHE, Dr H S Ballal and Pro Vice-Chancellor-Health Sciences, Dr Sharath Rao. Alumni founders such as Akshat Rathee, Manish Verma, Nitesh Aggarwal, Arpita Aditi, Susman Rajan, and Shreyans Mehta were honored as a part of the Summit to embrace their amazing journey and provide valuable lessons to the current students. Moreover, the event also was graced by four women entrepreneurs known for being the founders of big D2C brands who are funded by Sharks from Shark Tank India.



As a part of the event, two workshops, namely Gaming and MedTech, to make people understand the intricacies of these booming industries were held. Further, TiE Mangaluru conducted an inspiring panel discussion with the top-notch entrepreneurs from the region focusing on the topic "Getting started on entrepreneurial journey, deciding on the product/service, finding first customers."



MES' 24 witnessed 13 colleges across MAHE hosting several entrepreneurship-led initiatives on their campuses highlighting the inclusive environment that MES has created over the years. Post MES- 2024, several students have shown their willingness to be entrepreneurs and focus on solving problems and innovation through their college learnings.



Continued from page 1

Celebration of REVELS 2024: Aarohan - Infinite Horizons

Revels 2024 witnessed another significant milestone, unveiling of MIT Manupal's official anthem. Composed to encapsulate institution's ethos and aspirations, the anthem reverberated with pride, passion, and a sense of unity.



The cultural evening was graced by classical rendition from the members of student club Kalakriya. It was followed by a classical dance performance by Student Council General Secretary, Ms. Prerana Rao and Joint Cultural Secretary Ms. Madhukori Chatterjee.



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Revels'24 at MIT Manupal, in addition to its wide range of cultural activities, also provided the students an opportunity to showcase their skills in the field of sports. The Revels Cup, a national-level inter-college sports championship held from 01- 10 March 2024 featured various sports such as cricket, athletics, basketball, swimming, and badminton, drawing participants from across the country to showcase their athletic prowess.



Revels'24 hosted a Cultural Parade celebrating and displaying a wide variety of cultures for the first time at MIT, Manupal,



further enhancing the festival's diversity and inclusivity. As a part of Revels'24, a total of 49 cultural events of diverse nature ranging from dance, oratory, drama to games and fashion show were held over the five days. Further, multiple workshops ranging from trip planning to stand-up comedy were also held to engage the participants and to broaden their horizon of knowledge.

The event witnessed an overwhelming participation of over 1,000 students from outside MAHE demonstrating its growing appeal and stature as a premier college festival.

The flagship event of Revels, the Proshow, featured renowned artists like Biswa Kalyan Rath, Javed Ali, Salim Sulaiman, and the addition of Kr\$na made Revels'24 all the more vibrant and colourful.



Revels'24 also integrated environmental responsibility by implementing green initiatives, waste reduction programs and the use of digital platforms for event management and promotions. Such efforts were well - aligned with global sustainable development goals, demonstrating a commitment to eco-friendly practices. Revels'24 at MIT Manupal redefined cultural and sports excellence, leaving an unforgettable impression with its blend of tradition and innovation.

The Mathematics Research Symposium (MaRS) - 2024

The Department of Mathematics, MIT Manipal organised the Mathematics Research Symposium (MaRS) - 2024 during 03-04 February 2024 at Manipal. The symposium aimed at the creation of academic collaboration and knowledge exchange among the mathematical research realm.



The event was inaugurated by Dr. Narayana Sabhahit, Pro-Vice Chancellor-Technology & Science, MAHE, Manipal, and was graced by the Chief Guest Dr. B.R. Shankar, Professor, Department of Mathematical and Computational Sciences, NITK, Surathkal. Dr. Somashekara Bhat, Joint Director, MIT Manipal, presided over the event.



The event included invited lectures by esteemed professors, including Dr. B.R. Shankar, Dr. E.K. Narayanan, Dr. K. Manjunatha Prasad, and Dr. P. Sam Johnson. The lectures covered areas such as Number Theory, Operator Theory, Linear Algebra, and Generalized Inverses of Matrices and sparked interest among participants to explore new avenues in their research endeavors. The symposium featured 43 contributory talks delivered across three parallel sessions, showcasing a diverse spectrum of topics in mathematics and ongoing research projects by postgraduate students and research scholars. A total of 105 students from five institutions of the region namely Manipal Institute of Technology, Manipal, Prasanna School of Public Health, MAHE, Manipal, Mangalore University, Mangalore, St. Aloysius PG College, Mangalore, and Poornaprajna PG College, Udupi attended the event.

Idea Conclave for Better Environment 2024

MIT National Service Scheme (NSS) unit and the Department of Civil Engineering, MIT Manipal jointly organized Idea Conclave for Better Environment 2024, focusing on the ecologically rich heritage of the Western Ghats during 12-13 March 2024. It was organized at MIT, Manipal in collaboration with the Environmental Management and Policy Research Institute (EMPRI), Bengaluru for the benefit of students.

Cdr. (Dr.) Anil Rana, Director of MIT Manipal inaugurated the event and set the tone for the conclave by emphasizing the importance and conservation of the Western Ghats ecosystem. Sri. Shivaram Babu IFS, DFO of Kudremukh Wildlife Range, Dr. Vinaya Chaitanya, Programme Officer at EMPRI and Dr. K Balakrishna, Professor, Civil Engineering Department, MIT Manipal along with other key stakeholders such as students, researchers, environmentalists, forest department officials, and policymakers graced the event.

Sri. Shivaram Babu, IFS, delivered the keynote address providing invaluable insights into the efforts made to conserve the Western Ghats. He highlighted the key environmental challenges such as unscientific developmental activities, habitat fragmentation, human-wildlife conflict, and invasive species demanding for collaborative action. Dr. K Balakrishna delivered a talk on the geological perspective of the Western Ghats, covering its formation, theories of plate tectonics, and rich biodiversity.



As a part of the event, a paper presentation competition for students was organized. Moreover, a panel discussion involving Dr. Surya Addoor, Sri. Abhish Sudhakar, Ms. Mahalasa Kini, and Dr. Shobha was held. The panelists shared their perspectives and experiences related to forest conservation and sustainable practices.

Dr. Somashekara Bhat, Joint Director, MIT in his valedictory address emphasized the importance of using technology, especially sensors, to mitigate forest fires and carry out studies on the vegetation. Dr. Purushotham G Sarvade, Professor and Head of the Department of Civil Engineering, MIT, stressed the importance of conservation amidst rapid development.

Workshop on Human Cell Culture Techniques and Characterization

A workshop on "Human Cell Culture Techniques and Characterization" was held on 01 February 2024 as precursor to the 7th Annual Conference of the Society for the Study of Xenobiotics (SSX-2024). It was organized by the Centre for Microfluidics, Biomarkers Photoceutics and Sensors (μ BioPS), Department of Biotechnology at MIT. The workshop featured distinguished resource persons, Dr. Evan-Anne Subileau and Dr. Pamela Bachour El Azzi, from Biopredic International, France. The participants were introduced to essential cell culture practices that examined the origins and characteristics of human cells. Demonstrations of various cell culture techniques were provided to the participants through hands-on training in staining techniques and microscopy visualization to discern cellular features.



The workshop was coordinated by Dr. Naresh Kumar Mani, Dr. Vijendra Prabhu, and Dr. Praveen Kumar, faculty, Department of Biotechnology.

Workshop on Standardization Ecosystem

The office of the Associate Director (FD&W), MIT Manipal organised a workshop on “Standardization Ecosystem” in collaboration with the Bureau of Indian Standards (BIS), Government of India on 09 January 2024. The workshop is a significant step in the collaborative efforts between BIS and MAHE, and was organised as per the Memorandum of Understanding (MoU) between MAHE and BIS, which was signed in September 2023.

Shri Uma Shiva Prasad Yadav, Deputy Director General (Southern Region) of BIS, in his address outlined the Education Outreach program of BIS to involve faculty and students from academia in development of indigenous standards. He stressed the need for India to set its own standards rather than solely following western models to achieve the nation’s goal to become a quality leader. He echoed the Prime Minister’s emphasis on the importance of improving standards across goods and services and urged all to collectively pledge to adhere to and enhance Indian standards. He appealed to the institution to participate in the endeavors of BIS for strengthening the standardization ecosystem and create a vibrant quality framework in the country.

Dr. Narayana Sabhahit, Pro Vice-Chancellor (Technology & Science) of MAHE, graced the event as the Chief Guest. He highlighted the pivotal role of standards in civil engineering and the evolution of former ISI codes of standard referred by the professionals. He underscored the broader impact of standardization beyond academia. Dr. Sabhahit narrated the efforts of MAHE in standardizing the operations. He also highlighted the importance of integration of standardization with technological advancements and scientific innovations.

Cdr. (Dr.) Anil Rana, Director, MIT Manipal, emphasized MIT’s commitment to knowledge sharing and academic excellence in his presidential address. He highlighted the critical role of standardization in engineering, particularly with reference to defence applications, as a vital support system during challenging times.



The workshop was facilitated by a panel of officials from BIS, namely, Smt. Sushma Rao, Shri Shanmukha Shiva Palli, both of rank Scientist-D and Joint Director, Shri Jitendra Kumar Chaudary, Shri Nitish Kumar Jain, Shri Priyanshu Sharma, all of rank Scientist-B and Assistant Director, and Shri Mohammed Ahamed Bijapur, Standards Promotion Officer. The sessions were marked by engaging discussions, sharing of best practices, and fostering a deeper understanding of the evolving landscape of standardization,

laying the groundwork for collaborative efforts between academia and industry. The sessions also focused on the significance of standardization in the country emphasizing the pivotal role played by BIS in ensuring quality benchmarks across industries. The facilitators made the participants aware of the opportunities available for the research and development in the area of standardization identified by BIS.

Dr. Shankaranarayana Bhat, Associate Director (FD & W), MIT Manipal welcomed the gathering. Dr. Yashwanth N, Assistant Director (FD & W) delivered the vote of thanks, while Dr. Vidya Rao, faculty from Instrumentation and Control Engineering rendered the invocation. Dr Anu Shaju and Ms Soumya S, faculty from Department of Electronics & Communication Engineering jointly anchored the program. Around 140 faculty members and research scholars from various departments and constituent institutes of MAHE attended the program.



Workshop on Density Functional Theory and Quantum Espresso Applications

The Department of Physics at MIT Manipal organized a comprehensive six-day workshop on “Density Functional Theory and Applications Using Quantum Espresso.” The workshop, tailored for research scholars, spanned a range of topics aimed at providing a robust foundation in Density Functional Theory (DFT) and its practical applications.

The inaugural ceremony, held on 29 January 2024 was graced by Cdr. (Dr.) Anil Rana, Director of MIT Manipal as the President and Dr. Shashi Kumar K from Alva’s Institute of Engineering and Technology, Moodubidri as the Chief Guest. The event commenced with an insightful talk by Dr. Shashi Kumar K on the intricate nuances of employing DFT calculation tools for experimentalists. Dr. Vikash Mishra, Assistant Professor, Department of Physics, MIT Manipal, delivered a session on the theory and practice of Materials Modeling for Electronic Structure Calculations using Quantum Espresso.



The participants were exposed to various topics ranging from the fundamentals of DFT to advanced applications such as doping and defect calculations. Hands-on sessions, led by experts Mr. Anantharam and Ms. Sunnetha, provided participants with practical training on utilizing DFT techniques across various material classes. The valedictory program, presided over by Dr. Ashok Rao, Associate Director (R&C), MIT Manipal, marked the successful culmination of the workshop. Dr. Sudha D Kamath, Head, Department of Physics and the Chairperson of the workshop, with Dr. Mahesha M G, Associate Professor, Department of Physics as the Convener coordinated the workshop.

Guest Lecture on Nanomagnetic Materials

Department of Physics, MIT, Manipal organised a guest lecture on 'Nanomagnetic Materials' by Dr. P D. Babu, Center Director, UGC-DAE Consortium for Scientific Research, Mumbai on 19th January 2024.



Dr. P D. Babu provided information on the beam facilities of the Dhruva reactor and the use of neutron beams to analyze the magnetic properties of bulk and nanomaterials. He outlined the advantages of neutron diffraction over x-ray diffraction. He also elaborated on the coexistence of the spin glass phase and modulated antiferromagnetism in intermetallic compounds that are rich in rare earths. Dr. B. V. Rajendra, Associate Professor- Senior Scale, Department of Physics coordinated the event.

Seminars and Live Streaming Event for Semiconductor Fabrication Facilities Foundation Stone Laying Ceremony

The Department of Physics organised insightful seminars and held the live streaming of the foundation stone laying ceremony for three mega semiconductor fabrication facilities by the Honorable Prime Minister Sri Narendra Modi on 13 March 2024.

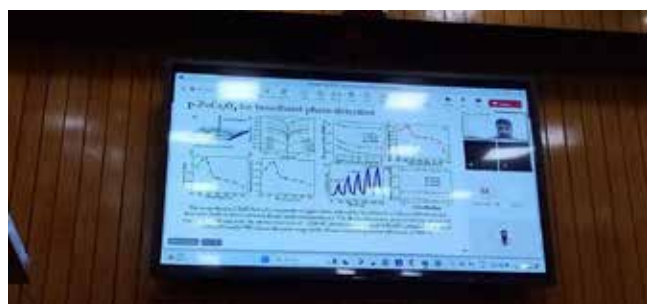


The event commenced with two informative seminars. The first seminar was on "Semiconductor-based Optoelectronic Devices" Dr. Mishra's presentation by Dr. Vikash Mishra, Assistant Professor, Department of Physics. The second

seminar was delivered by Dr. Sandeep Suchand, Associate Professor - Research in the Department of Physics on the topic "Semiconducting Nanocrystals for Solar Cells." Both seminars fostered productive discussions and underscored the indispensable role of materials in the domains of optoelectronics and renewable energy applications. Subsequently, attendees were treated to a live streaming event featuring the foundation stone laying ceremony for three mega semiconductor fabrication facilities by the Prime Minister of India Sri Narendra Modi. Dr. Dhananjaya Kekuda, Associate Professor from the Department of Physics at MIT, Manipal, coordinated the event.

Webinar on Nanoscience and Nanotechnology

The Department of Physics at Manipal Institute of Technology organized a webinar on 23 January 2024. The thematic focus of the webinar was "Nanoscience and Nanotechnology," aiming to unravel the burgeoning potential of artificial intelligence (AI) in these fields and delineate the trajectory of future research. With an audience primarily comprising students, research scholars, and faculty members of MIT Manipal, the webinar sought to amplify awareness and foster discourse on this symbiotic relationship.



Dr. Tejendra Dixit, from the Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram, talked on "Optoelectronic Intelligence." Dr. Ravi Trivedi, Bhabha Atomic Research Centre, Mumbai, expounded on "Recent Advances in Nanotechnology." Prof. Sudha D. Kamath, Head of the Department of Physics, provided guidance and leadership throughout the session. Dr. Akhilesh Ranjan and Dr. Vikash Mishra faculty members of the department were the convener and co-convener of the webinar respectively.

Workshop on Advanced Construction Practices

Department of Civil Engineering, in collaboration with Tata Steel Ltd. & Indian Mineral Company conducted One Day Workshop on Advanced Construction Practices on 23 January 2024. The workshop was organised for the benefit of practising Civil/Structural Engineers of Udupi-Mangaluru region and post-graduate students of Structural Engineering and Construction Engineering & Management from the department.

Mr. Surya Narayan Reddy and Mr. Hariharaputhiran H from Tata Steel Ltd. delivered the inaugural speech, sharing their insights and perspectives on the workshop's theme and objectives. Dr. Somashekara Bhat, Joint Director, MIT, Manipal in his presidential remarks highlighted the significance of the workshop and its relevance to the field of civil engineering. Dr Purushotham G Sarvade, Head, Department of Civil Engineering gave the opening remarks

while the convener of the workshop, Prof. Sandeep G provided the outline of the workshop. Prof. Prasanna Kumar, Convener of the workshop delivered the vote of thanks. Mr. Prithiv Siddharth (Sales Manager (Karnataka), Tata Tiscon retail), Mr. Preetam Revankar (Technologist-(West), Application Support Group) and Mr. Bimal Mehta (Managing Director, Indian Mineral Company) were the other dignitaries who participated in the event.



Three technical sessions were delivered during the workshop by the faculty members of the department. Dr. Raghavendra Holla K, Associate Professor delivered a technical talk on “Advanced construction methods”, Dr. Sharanappagouda Kadabinakatti, Assistant Professor, gave a talk on “Importance of Geotechnical site investigation”, and Mr. Abhimanyu U, Assistant Professor delivered a talk on “Tests on Construction materials”.

Post the workshop, a meeting with the Director, MIT Manipal and representatives from Tata Steel Ltd was convened to explore the possible collaborations in the future.



Workshop on Design Thinking for Research and Development

The office of the Associate Director (FD&W), MIT Manipal organised a workshop on Design Thinking for Research and Development on 07 February 2024. The workshop aimed to provide participants with insights into the application of design thinking approach in their professional and personal life.



Lt. Gen. (Dr.) Anil Kapoor, the resource person highlighted the Design Thinking approach adopted by visionary professionals such as Steve Jobs, Sundar Pichai, and Jeff Bezos. During his three hours of workshop, he outlined the design thinking process, postulates, value proposition, design thinking credo, self-development, and creative problem-solving. Through insightful case studies and anecdotes, Lt. Gen. Kapoor encouraged participants to adopt a proactive

approach towards personal and professional growth. Around 30 attendees, comprising faculty and research scholars, actively participated in the interactive workshop.

Dr. Raghuvir Pai B, Professor, Department of Mechanical & Industrial Engineering, MIT Manipal introduced the resource person, Lt. Gen. (Dr.) Anil Kapoor, AVSM, VSM (Retired) to the audience. Dr. S N Bhat, Associate Director (Faculty Development and Welfare) delivered the welcome address and vote of thanks.



Workshop on Risk Management and Change Management

The Office of Associate Director (Quality Assurance) of MIT Manipal organized a workshop on Risk Management and Change Management on 09 March 2024. Dr. Sandeep S. Shenoy Director, Compliance, MAHE, was the resource person for the event. The objective of the workshop was to provide participants with a comprehensive understanding of the principles and practices associated with mitigating risks and managing change in an organization.

Cdr. (Dr.) Anil Rana, Director MIT, in his initial remarks, outlined the importance and purpose of risk analysis when developing a change management strategy. He emphasized that, by being proactive in addressing risks, we can minimize their negative consequences on the institution.

The workshop covered various aspects such as Risk Identification, Risk Assessment and Risk Management and its applicability to academics, health care, research publications, collaborations, and placements. In addition, other aspects such as process flow, process description, SWOT Analysis, scale of risk evaluation, risk repository, and risk mitigation techniques were also reviewed in detail.

The workshop also explored change management frameworks and methodologies through case studies and real-life examples.

Dr. Chandrashekar Bhat, Associate Director (Quality Assurance) welcomed the gathering. Dr. Vishwanatha H M, Assistant Director (QA) introduced the resource person Dr. Sandeep Shenoy while Dr. Pramoda Kumara Shetty, Assistant Director (QA) delivered the vote of thanks.

The workshop was attended by about 70 participants including the administrators, faculty members and a few non-teaching staff of MIT, Manipal. Dr. Thivaharan, Assistant Director (QA) anchored the entire session.



Workshop on AI Assisted Course Building on Coursera

The office of the Associate Director (FD&W), MIT Manipal organised a workshop on AI Assisted Course Building on Coursera on 21 March 2024.

Cdr. (Dr.) Anil Rana, Director, MIT Manipal, in his opening remarks highlighted the importance of AI and generative AI in academics and administration. Following the Director's opening remarks, Dr. Somashekara Bhat, Joint Director, MIT Manipal elaborated on the genesis of collaboration with Coursera, the way it is being utilized in teaching learning at MAHE, and the way forward leveraging AI to make learning more effective.



The workshop was facilitated by Ms. Ramya Srinivasan, Customer Success Director and Mr Akshay Bhagchandani, Implementation Manager, both from Coursera. Ms Ramya spoke on how AI is changing online education and the leading role played by Coursera in using AI to help both teachers and students. She gave the outline of the workshop and presented the broad process steps involved in course building using AI on Coursera and its features. Mr Akshay Bhagchandani, gave a demo of course building using AI, guided the participants step by step and explained how to make course content more engaging and effective using AI. The hands on session on course building using AI as per the process developed by Coursera was facilitated by the team.



Dr. S N Bhat, Associate Director (Faculty Development and Welfare), MIT Manipal, welcomed the gathering and delivered vote of thanks.

Workshop on Altair's simulation and artificial intelligence platform

The Department of Mechatronics, MIT Manipal organized a five-day training program titled "Design of High-Performance Mechatronic Systems Using Altair's Simulation and Artificial Intelligence Platform" during 04-08 March 2024.

The training program was inaugurated on 04 March 2024 at MIT Manipal. The chief guest for the inaugural function was Mr. Sushil Mane, Technical Director, Altair Bangalore, India. Mr. Ranjith Kumar H. S. and Cdr. (Dr.) Anil Rana were the guests of honor at the inaugural event.

Mr. Sushil Mane in his address expressed that Altair is excited about the collaboration and looks forward to contributing to the development of future-ready engineers. Mr. Ranjith Kumar H. S. echoed the sentiments of Mr. Mane that

the collaboration of Altair with MIT, Manipal is aimed to bridge the gap between academia and industry, enabling students to gain practical experience and make meaningful contributions to the field of mechatronics. Cdr. (Dr.) Anil Rana, Director of MIT, expressed his enthusiasm about the collaboration, highlighted it as a significant milestone in the institution's commitment to foster excellence in engineering education and research. Dr. D. V. Kamath, Professor and Head, Department of Mechatronics, MIT, Manipal emphasized the need for such collaboration and training to upgrade the knowledge in the domain. During the occasion, on 04 March 2024, Cdr. (Dr.) Anil Rana, Director MIT, Manipal inaugurated a new PG Lab at the Department of Mechatronics.



Mr. Ayush Sharma, Senior Data Scientist, Mr. Sourav Das, Senior Solution Engineer, Mr. Sandeep Ramagiri, Technical Manager, Mr. Pratik Deshpande, Technical Manager, and Mr. Manoj K V, Technical Specialist, all from Altair facilitated the training program as resource persons for the five days.

Mr. Ayush Sharma focused on Optimizing Machine Learning Workflows: Leveraging RapidMiner and Panopticon for Seamless Development and Deployment in his presentation. Mr. Sourav Das led the Concept Design and Manufacturing session highlighting on the structural optimization techniques, and the integration of Inspire software with advanced techniques such as Design of Experiments (DOE) and SimSolid. Mr. Sandeep Ramagiri conducted a session on "Motor Design & Analysis" using Altair Flux. Mr. Pratik Deshpande trained the participants on Simplified Workflows for FE Modeling and Simulation of Structures and AI-assisted Simulation. Mr. Manoj K V spoke on Harnessing 1D Systems, Reduced Order Modeling, and AI/ML to develop Digital Twins.

The trainers succeeded in providing a comprehensive coverage of design of high-performance mechatronic systems using Altair's simulation and artificial intelligence platform. The program was attended by undergraduate and postgraduate students of the Mechatronics department, as well as faculty members from various other departments.



Workshop on Statistical Data Analysis & Design of Experiments

The Institution of Engineers-Biotechnology, Manipal Chapter and the Department of Biotechnology, MIT Manipal organized a two day workshop on Statistical Data Analysis & Design of Experiments (DoE) during 05-06 March 2024 in association with JMP Global Academics Team. The workshop was conducted by Dr. Muralidhara Anandamurthy, Academic Ambassador, JMP Global Academics Team.

The workshop was inaugurated on 05 March 2024. Guest of Honor for the event was Dr. V Ramachandra Murty, Associate Director-Development and Senior Professor of Biotechnology, MIT Manipal. Dr. Muralidhara A., resource person from the JMP Global Academics Team; Dr. Balaji S, Head of the Department of Biotechnology, MIT Manipal and Ms. Diya Anantheswaran, President of IE-Bt were the other dignitaries who graced the occasion. Dr. Ramachandra Murty and Dr. Balaji highlighted the importance of data analysis and DOE in the field of biotechnology. In his opening address, Dr. Anandamurthy emphasized on the pivotal role of statistics in modern society, the essence of statistical analysis beyond mere software proficiency, and the criticality of understanding data collection rationale and expected outcomes—a journey encapsulated by the phrase “Data to Decision” (D2D).

The workshop was structured around two key themes: “Process Discovery” likened to a ‘library’ and “Experimental Discovery” akin to a ‘laboratory’.



On the Day 01, the forenoon session focused on the fundamental types of data, ranging from categorical to continuous and unstructured text. Dr. Murthy elucidated the importance of collecting data in a continuous format whenever feasible, as it offers greater versatility in analysis. The practical utility of JMP software was highlighted, particularly its functionalities in data onboarding/importing and manipulation based on diverse data types, laying a solid foundation for subsequent inferential statistical analyses. The afternoon session explored further into inferential statistics, focusing on the crucial distinction between correlation and causation. Dr. Murthy guided participants through the intricacies of building regression models, emphasizing measurability, manageability, and minimization as guiding principles. Practical exercises, including correlation matrix construction and validation against statistical significance, provided hands-on experience in regression modelling. The session also touched on data visualization, highlighting its role in exploratory data analysis and narrative construction.

On the second day, the workshop focused on concepts of process and product variables. Dr. Muralidhara highlighted the significance of experimental design generation, introducing concepts such as first-order and quadratic models. Emphasis

was placed on techniques like full factorial design and screening design resolution. The afternoon session focused on advanced experimental methodologies, multi-component systems, and factors & factor levels within the context of classical mixture design. A highlight of the session was the exploration of Custom Design, a feature of JMP software hailed as the ‘Nirvana’ in Design of Experiments (DOE). Dr. Muralidhara illustrated the power of Custom Design through case studies, demonstrating its efficacy in optimizing experimental settings across diverse domains.

The workshop was concluded with an interactive Q&A session with the participants and a vote of thanks delivered by Ms. Diya, President of IE-Bt.



One Week Robotic Skill Training Workshop

A one-week Skill Training Workshop on “Elemental Robotic Programming with Service and Maintenance (RPSPM 2024)” was organized by the Department of Mechatronics, Manipal Institute of Technology, Manipal, in collaboration with JANYU Tech Pvt. Ltd., Pune, from 04 to 09 March 2024. The workshop was inaugurated in the MAHE-JANYU Robotic Center of Excellence (COE) at MIT Campus on 04 March 2024.

The workshop was inaugurated by the Chief Guest Cdr. (Dr.) Anil Rana, Director, MIT, by lighting the lamp. In his inaugural address, he highlighted the need to develop robotics skills continuously and fulfill the needs of the time. He also discussed the emerging areas of robotics, control, automation, and artificial intelligence and urged the institutions to come up with a roadmap to meet future expectations for the economic growth of India.

The Guest of Honor of the workshop was Dr. Senthil Vinayakam, Centre In-Charge, MAHE-Janyu COE. He outlined the relationship between MAHE and Janyu Pvt. Ltd. and also hoped to strengthen the bond through many more such activities under this CoE in the future.

Dr. D. V. Kamath, Professor & Head, Dept. of Mechatronics, MIT, Manipal welcomed the gathering and said that this is the first skill development workshop conducted at this center under Training of Trainers (ToT) model and the department plans to conduct additional skill-based workshops.



The workshop covered introduction to robotics and applications in diverse fields such as manufacturing, healthcare, and exploration. As a skill training, the participants were introduced to service and maintenance. The importance of regular upkeep of the robots was also highlighted to help them understand preventive maintenance strategies and troubleshooting techniques. The workshop also focused on industrial robotics with its basic control principles, trajectory planning, kinematics, and programming languages commonly used in industrial settings. Hands-on training on Throwbots (Military Surveillance Bot) and VARAHA (Underwater Robot) were also conducted.

Half-Day Workshop on Machine Learning Opportunities in VLSI Physical Design

Department of Electronics and Communication, MIT, Manipal organised a half-day workshop on Machine Learning Opportunities in VLSI Physical Design on 02 March 2024. This workshop aimed at providing insights into the fundamentals of machine learning techniques and its applications in VLSI Physical design. There was a hands-on session on implementation of machine learning for VLSI design applications on Google Colab.



The resource person, Mr. Supreeth R, an alumnus of the department (M.Tech. Microelectronics, Batch of 2019-2021), and currently working as EDA Tools Hardware Engineer at Intel Corporation, gave a brief on internal and external ML tools, PPA optimization of multiple technology blocks and Platform Validation. The session focused on domains such as Basics of AI and ML, ML opportunities in PD, Design optimization using compiler tool setting, Placement and routing optimization and Engineering change order (ECO).

Talk on Experimental Quantum Communication

Department of Physics and Department of Electronics and Communication Engineering MIT, Manipal, jointly organized a guest talk titled "Experimental Demonstration of Quantum Communication: Exploring Quantum Key Distribution (QKD) and Free Space Protocol" on 16 February 2024. Mr. Rounak, Ms. Kiran, and Ms. Sonali, research scholars from Tata Institute of Fundamental Research (TIFR), Mumbai, delivered the talk that focused on how QKD ensures data security through fundamental principles of physics, diverging from the mathematical complexities inherent in classical cryptography. The session highlighted ongoing research endeavors aimed at augmenting the performance, scalability, and real-world deployment of QKD systems. The speakers also provided insights into the experimental demonstration of a "Free Space" quantum communication protocol, such as the B92 Protocol, conducted in a lab. The

post talk discussion revolved around the facets of QKD, encompassing its theoretical foundations, technological implementations, and practical applications.



Dr. Somashekara Bhat, the Joint Director of MIT, Manipal, Prof. Kumar Shama, the Head of the Department of Electronics and Communication Engineering (ECE), and Prof. Sudha D. Kamath, the Head of the Department of Physics, attended the talk and engaged the participants in the discussion. The event was attended by research scholars, postgraduate students, and faculty members of MIT, Manipal, besides participants from other constituent units of Manipal Academy of Higher Education (MAHE).

Talk on Applications of Deep Neural Networks in Medical Imaging

The Mechatronics Department organized a guest talk on Applications of Deep Neural Networks in Medical Imaging on 24 January 2024 in the virtual mode. Ms. Madhuri Nagare, a research scholar from Purdue University, delivered the talk focusing on the application of deep neural networks (DNNs) in medical imaging. Highlighting the importance of preserving texture while denoising CT images, Ms. Nagare addressed the challenges inherent in DNNs, such as the lack of explicit control over the bias-variance trade-off and the need to maintain the shape of the noise power spectrum (NPS).



Guest Lecture on Atmospheric Aerosols

The Department of Civil Engineering organised a guest lecture on "Atmospheric aerosols: Sources, chemistry and deposition" by Dr. A.K. Sudheer, Scientist/Engineer-SF at the Physical Research Laboratory, Ahmedabad on 03 February 2024 at MIT, Manipal.



In his talk, Dr. Sudheer focused on the properties of aerosols and their pivotal role in various biogeochemical cycles, radiation balance, and atmospheric pollution dynamics. He provided an overview of the research activities and the cutting-edge infrastructure available at the Physical Research Laboratory. The talk gave the attendees an opportunity to explore possibility of internship and research prospects with the speaker.

Guest Talk by Prof. B. L. V. Prasad

Dr. T. M. A. Pai Endowment Chair on “Advanced Functional Materials”, organized its first guest lecture on 05 February 2024 at MIT, Manipal. This event was organised in collaboration with the Department of Chemistry, Department of Atomic and Molecular Physics (DAMP), and Directorate of Research (DOR), MAHE.

The post-graduate students, Ph.D. scholars, and faculty members of various departments actively participated. Prof. Satish Rao, Director - Research, Dr. Sajan D. George, Head, DAMP, Dr. Suma A. Rao, Head, Dept. of Chemistry, Dr. Santosh C. and HoDs from various departments of MIT and faculty members of various departments of MIT were present for the talk.

The special guest lecture on ‘Nanoparticles with different “attires”: Dressed to function?’ was presented by a renowned scientist, Prof. Dr. Bhagavatula L. V. Prasad, Director, Centre for Nano and Soft Matter Sciences (CeNS) Bengaluru. In his talk, he discussed the synthetic approaches of nanomaterials that have the desired coating for functioning. He mentioned that the transformation of noble metals into advanced functional materials not only involves their preparation at the nanometer scale but also their surface functionalization with appropriate “designed and tailor-made” molecules. The significance of surface functionalization using organic molecules/ligands for their interaction with environment/biological systems was discussed. The choice of appropriate organic ligands, which serve as stabilizing agents, in various functions/applications was revealed. Dr. Prasad briefed on the role of molecules/ligands as tools for controlling nanoparticle size and dispersion stability in different solvent media.



Dr. Poornima Bhagavath, Associate Professor, Dept. of Chemistry welcomed the gathering. Dr. Maddasani Srinivasulu introduced the guest to the participants. Dr C. V. Yelamaggad, Scientist-F, CeNS, Bengaluru and Dr. T.M.A. Pai endowment Chair delivered vote of thanks to all the participants.

Guest Talks organised by the Department of Electronics and Communication Engineering:

- *Recent trends and innovation in the electronics product development process* by Dr. Anish Bekal, alumnus of the department (B. Tech., Batch of 2004) and currently, Entrepreneur- Trachealth technologies, E-LAGORI on 05 January 2024. The talk focused on the latest advancements in electronics manufacturing and design methodologies.
- *Technological advancements in Rail signalling systems* by Mr. Devarajan Srinivasan, Engineer, Transport Department, Australia on 09 January 2024. The talk covered the evolution of railway signalling systems, including the use of communication technologies and automation for improved safety and efficiency.
- *Stepping into the classroom of life* by Ms. Sanymi Gupta, alumna of the department and currently, Leadership advisory expert, Egon Zehnder on 23 January 2024. The talk offered career guidance and life skills for navigating the professional world.
- *Vision voyage: A roadmap to the frontiers of machine vision* by Mr. Jethe Krushi (ML Engineer, Quantiphi) and Mr. Aritro Santra (Analyst, Deloitte), alumnus of the department on 25 January 2024. The talk explored the applications of machine vision in various fields, along with the technical aspects and future directions of this technology.
- *Sports ecosystem in India and career opportunities* by Mr. Vinay Raj Kumar Mandaville, alumnus of the department and presently, Associate Vice President, Revenue strategy, Viacom18 Sports. This talk provided insights into the Indian sports industry, potential career paths, and the role of technology in sports.
- *Cybersecurity: Digital forensics* by Mr. Nabeel Koya, alumnus of the department (M. Tech, Batch of 2002) and presently Scientist-F, CDAC Trivandrum on 31 January 2024. The talk covered the methods used to collect and analyze digital evidence in cybercrime investigations.
- *Preparedness for Industry Internship as I-Connect* session with Mr. Bharat H B, Design Engineer, NXP Semiconductors Pvt. Ltd. and Mr. Tejas Gopal, ASIC design Engineer (DFT) Alphawave Semi Pvt. Ltd., both alumni of the department (M. Tech. in Microelectronics, Batch of 2023) on 03 February 2024. The session gave an exposure to the students on the essential skills required for securing internship in industries and to make the best use of industry internship.
- *Internship and academic opportunities with VSDSquadron* by Mr. Montukumar Makadia, alumnus of the department (B. Tech., Batch of 1993) and presently Vice President, Elektropod, Mr. Kunal Ghosh, Co-founder and Director of VLSI System Design (VSD) Corp. Pvt. Ltd., and Ms. Anagha Ghosh on 22 March 2024. The discussion allowed the faculty and students to interact with representatives from VSDSquadron and learn about internship and academic collaboration opportunities with the company. Mr. Kunal Ghosh talked about the recent developments in VLSI industry and the importance

of industrial training for students to bridge the gap between Industry and academia.

- *Resume crafting and research exploration* by Dr. Roshan Joy Martis, alumnus of the department (B. Tech., Batch of 2004) and presently Associate Professor, Global Academy of Technology, Bengaluru on 28 March 2024. The session offered guidance on crafting effective resumes for technical roles and provided insights into research opportunities in the field.
- *Cadence Innovus PVS Flow* by Mr. Navaneethakrishnan Veerachamy, Senior Field Application Engineer, Entuple Technologies Pvt. Ltd., on 26 March 2024. The session provided exposure to the students on using Cadence Innovus, a software tool suite for physical verification of integrated circuits.

MAHE-Schneider Electric Centre for Industrial Research in Intelligent Technologies

The Manipal Academy of Higher Education (MAHE), through Dr. TMA Pai Endowment Chair (Intelligent Technologies, Industry - 4.0 and Sustainability) in a landmark collaboration with Schneider Electric, Bengaluru, inaugurated the MAHE-Schneider Electric Centre for Industrial Research in Intelligent Technologies at MIT, Manipal. The state-of-the-art centre, featuring advanced industrial automation equipment and computing technology, unveiled on 29 January 2024 is the second such initiative from Schneider Electric in India. This partnership allows Schneider Electric staff from across the globe to study at MAHE, further strengthening the educational and research collaboration between academia and industry.

The inauguration ceremony witnessed esteemed guests, including Arti Sharma, Vice President of Human Resources and Head of India R&D and Digital at Schneider Electric India, and Jayanth Lakavalli, Software Director of R&D at Schneider Electric's Industrial Automation BU. During the event, Guest of Honour Mr. Jayanth Lakavalli and Chief Guest Ms. Arti Sharma, shared their insights into contemporary industry trends and the transformative potential of intelligent technologies. Dr. Narayana Sabhahit, Pro-Vice Chancellor (Technology and Science), MAHE, in his presidential remarks, emphasized the significance of research and technological collaborations in academia. Cdr. (Dr.) Anil Rana, Director, MIT Manipal highlighted the MAHE-Schneider Electric collaboration's potential impact on industrial research and technological advancements.



The launch coincided with a three-day workshop on "Event-Driven Programming for Industrial Automation using IEC61499 Standards," featuring Schneider Electric experts Mr. Vivek Khandelwal, Mr. Nithin, and Mr. Dhigambar as resource persons. Dr. Manohara Pai M M, Professor and Dr. TMA Pai Endowment Chair at MIT, MAHE, has been instrumental in fostering this enduring research alliance with Schneider Electric R&D, Bengaluru. Dr. Shreesha C, Head of Instrumentation and Control Engineering proposed the vote of thanks concluding the event.

MIT Promotes Road Safety Awareness with Innovative Program

The Department of Civil Engineering and the NSS Unit of Manipal Institute of Technology (MIT) organised a Road Safety Awareness Program on 13 February 2024 at Tiger Circle, Manipal. Dr K Vidya Kumari Udipi District Commissioner was the chief guest and Mr. Abdulla Javed, Project Director of NHAI, was the guest of honor for the event.



During the event, Mr. Murty, Regional Sales Manager from JK Tyre, emphasized the critical importance of tyre care in ensuring road safety. Adding a creative touch to the program, students from ADA Dramatics and AAINA Dramatics, students' clubs of MIT showcased two street plays to spread awareness about safe road practices.

Walkathon 2024 for Cancer Awareness

The MIT NSS Units I and II organised Walkathon 2024 on 10 February 2024 in Manipal as part of "Cancer Awareness Week". The event was held in collaboration with various partners including Zilla Panchayath Udupi, Udupi District Health and Family Welfare Department, Udupi District Surveillance Office, NCD Cell Udupi, MIT Student Council, and MIT Student Welfare Office.

The walkathon was inaugurated by Cdr. (Dr.) Anil Rana, Director, MIT Manipal at the MIT Student's Plaza. Dr. Rana emphasized the importance of community outreach and appreciated the students' participation in the event. During the event, Dr. Shamini Kumar from the Primary Health Care Centre Manipal and Dr. Anjali, Coordinator of the NCD Cell, shed light on crucial aspects of cancer prevention and early detection. Dr. Kumar stressed the significance of public awareness in recognizing cancer symptoms early for effective treatment, while Dr. Anjali highlighted the role of lifestyle and dietary habits in reducing cancer risk. Dr. Poonima Kundapur, Associate Director, Student Welfare, encouraged students to embrace physical fitness as a means to combat cancer.



Dr. Balakrishna Maddodi, Associate Professor, Department of Civil Engineering and Program Officer of the NSS Unit welcomed the participants and encouraged the volunteers to disseminate vital information about cancer and its adverse impact. Dr. Lakshman Rao, Associate Professor, Department of Electrical & Electronics Engineering delivered opening remarks, and Dr. Poornima Bhagavath, Associate Professor, Department of Chemistry and Dr. Asha CS, Associate Professor, Department of Mechatronics coordinated the event. The Walkathon served as a platform to promote awareness, education, and solidarity in the fight against cancer.

St. Mary's Island Clean up Drive and Radio Learning Experience by NSS Units

NSS volunteers from Manipal Institute of Technology (MIT), Manipal engaged in a dual initiative focused on environmental conservation and experiential learning on 28 January 2024. The volunteers explored the intricacies of radio communication, gaining hands-on experience in operating radio concepts under the guidance of experienced members from the Mangalore Amateur Radio Club (MARC) and MIT HAM Club's Radio Station.



Following the immersive learning experience, NSS volunteers, along with the members of the MIT HAM club, demonstrated their commitment to social responsibility by participating in a clean-up drive at St. Mary's Island. The volunteers educated the tourists and visitors on the necessity of preserving the vital ecosystem and mitigating the harmful impacts of plastic waste.

Republic Day Mega Blood Donation Camp

MAHE-MIT National Service Scheme (NSS) Units organized a Republic Day Mega Blood Donation camp on 26 January 2024 at MIT, Manipal, in collaboration with MIT Student Welfare, KMC Blood Bank Center, Abhayahasta Charitable Trust (R). Udupi, Thapovana Manipal, Lion's Club Chetana Udupi, and the Indian Kitchen. The event was inaugurated by Cdr. (Dr.) Anil Rana, Director of MIT Manipal.



A total of 133 participants donated 83 units of blood. Additionally, 11 rare blood group donors were identified and kept on standby for emergency requirements. Dr. Poornima Kundapur, Dr. Deepika, Dr. Balakrishna Maddodi, Dr. Vanishree Aithal, Ms. Shika Anil Rana, Mr. Sathish Salian, and Mr. Jagadeesh Acharya, alongside NSS program officers Dr. Lakshman Rao P, Dr. Poornima Bhagavath, and Dr. Asha C S graced the occasion.

"Priceless Comfort" program for women

MAHE MIT NSS Unit I & II, in collaboration with the MIT Student Welfare Office, organised a novel initiative named "Priceless Comfort," aiming to prioritize women's health and well-being. Cdr. (Dr.) Anil Rana, Director of MIT Manipal inaugurated the event on 29 January 2024.



The program focused on female NSS students and MIT Student Council representatives, highlighting the importance of maintaining a hygienic lifestyle and seeking expert guidance for holistic health. The event featured a closed-door discussion led by Dr. Eshwari K from KMC Manipal, who highlighted the importance of menstrual health and advocated for the use of menstrual cups, providing crucial safety measures. Attendees gained valuable insights into women's health issues as the program fostered open dialogue and health education.

The event was attended by Dr. Poornima Kundapur, Associate Director, Student Welfare, MIT, Manipal and Dr. Diana Olivia, Assistant Director, Student Welfare, MIT, Manipal. Dr. Asha C S, NSS program officer, concluded the event with a pledge to extend similar initiatives to encompass all female members of MIT Manipal.

Open Library Unveiled at MIT, Manipal

Cdr. (Dr.) Anil Rana, Director of Manipal Institute of Technology (MIT), inaugurated the Open Library, an exciting addition to the campus's academic resources at MIT, Manipal on 07 February 2024. The Open Library, with its diverse collection of both general and technical books, offers access

to the library to all members of the Manipal Academy of Higher Education (MAHE) community.



It also welcomes outsiders who have received campus access permissions to explore its resources. Visitors to the Open Library enjoy unrestricted access to its collection, with the freedom to borrow and return books at their convenience as it operates 24/7. Additionally, readers are encouraged to contribute to the library's growth by donating books, fostering a culture of community learning and knowledge exchange. The inaugural event was graced by Dr. Somashekara Bhat, Joint Director, MIT and the heads of departments.

Cycling expedition along the Western Ghats

Mr. Ganesh Nayak, Assistant Professor -Senior Scale, Department of Instrumentation and Control Engineering and team members of Center for Outdoor Studies completed a challenging 130km cycle ride along the Western Ghats on 04 February 2024. The expedition endured a 2000m elevation gain over 14 hours. During the course of the cycling, the 14-member team of cyclists spent three days engaging in modules on ecology, nature documentation, leadership, and risk management.



Industry - Academia Interactions facilitated by CII office, Mangalore

A round table discussion with the teams from manufacturing sector was held at the Confederation of Indian Industry (CII), Mangalore on 30 November 2023. The session was moderated by Dr. Deepak D, Professor, Department of Mechatronics, MIT, Manipal, and Mr. Ajith Kamath, Vice Chairman, CII Mangalore. Several industries and academic institutions of the region participated in the discussion. Many interesting problems faced by the manufacturing industries were brought to the table and discussed with the team members from academic community.



Academia- Industry Interaction: Round table discussion with cashew industries

A round table discussion with the teams from cashew industries from the region was held at MIT, Manipal on 13 September 2023. Representatives from the cashew industries interacted with faculty members and administration of MIT Manipal. About 15 interesting problem statements pertaining to cashew industries were identified in the meeting and shared with the team members from academic community for providing technical solutions.



Launch of WILP for CIPLA employees

An initiative to enable the employees from CIPLA to pursue a 'Master of Science in Chemistry' degree under MAHE Manipal, named NEEV Quality Work Integrated Learning Program (WILP) was launched at the SMIT campus in Sikkim on 01 March 2024. It marked the culmination of a year-long collaborative effort by teams from MIT Manipal, SMIT Sikkim, and CIPLA.

During the launch, global executives from CIPLA emphasized on the significance of such a program in enhancing the core skills and competencies of their employees, thereby enabling them to make greater contributions in their profession. Following the launch, an orientation session for the first batch of students was conducted by the members of MAHE Manipal. Dr. Narayana Sabhahit, Pro Vice-Chancellor (Technology & Science), MAHE, reiterated the university's commitment to foster industry-academic collaboration and promoting upskilling and reskilling initiatives in alignment with the National Education Policy (NEP 2020). Dr. Giridhar P Kini, Registrar, MAHE, congratulated MIT Manipal and CIPLA on designing a program that facilitates knowledge ac-

quisition and skill development for working professionals. Cdr. (Dr.) Anil Rana, Director, MIT Manipal highlighted on the educational legacy of Manipal and the collaborative initiatives between MAHE and CIPLA. Mr. Vinay Bassi, Senior VP (HR) at CIPLA, encouraged employees to seize the opportunity for upskilling and continuous learning. Dr. Raju Mithri, GCPO, urged students to recognize the opportunity open for their educational journey and strive for success. Mr. Sachin Kaistha, Lead COE Ops and Strategic Projects at CIPLA, appreciated the initiative and emphasized the importance of the program for employees. Dr. Dilip Chandra Agarwal, Vice Chancellor of Sikkim Manipal University (SMU), along with Dr. GL Sharma, Director of SMIT, and Dr. Somashekara Bhat, Joint Director MIT Manipal graced the event.

Dr. Suma A Rao, Professor & Head, Department of Chemistry, welcomed the gathering, while Prof. Santhosh L Gaonkar, Professor from Department of Chemistry, MIT Manipal outlined the academic policies governing the program. Dr. Ganesha A, Assistant Professor - Senior Scale from Department of Mechanical & Manufacturing Engineering, MIT Manipal elaborated on the technology platform utilized for delivering the online component of the courses, while Dr. Deepak D, Professor from Department of Mechatronics, MIT Manipal and Program Manager for the Work Integrated Learning Program delivered the vote of thanks.



Book Release - Industrial and Architectural Rocks and Stones

Cdr. (Dr.) Anil Rana, Director, MIT released a book titled "Industrial and Architectural Rocks and Stones" authored by Dr. D. Venkat Reddy, former Professor of Geology in the Department of Civil Engineering, NITK, Surathkal on 09 March 2024 at MIT, Manipal.

During the occasion, Dr. Venkat Reddy delivered a lecture on the topic "Geological and Geotechnical Investigations for Major Civil Engineering Projects". In the talk he discussed on the importance of geological investigations in the site selection and construction of large tunnels, highway projects, bridges and underground excavations.



The talk was attended by Ph.D. scholars, MSc students and faculty members. Dr K Balakrishna, Professor, welcomed the gathering, while Mr Runkob Srimani, Ph D scholar, introduced the guest and Dr Aditya Udayraj Joshi, Assistant Professor, proposed the vote of thanks. Dr Balakrishna S Maddodi, Associate Professor coordinated the programme.

Guest Talk by Dr. Venkat Bhat

The Department of Data Science and Computer Applications organised a Guest Talk by Dr. Venkat Bhat, Assistant Professor of Psychiatry, University of Toronto, Canada on the Topic "Digital Interventions and Intelligence in Mental Health" on 15 March 2024.

Konstantin Zulske, the cyclist from Germany Visits MIT

Konstantin Zulske, a German cyclist advocating for soil conservation visited MIT Manipal on 22 February 2024. Mr. Zulske has made his journey across multiple countries over the years. Zulske, embarked on his bicycle expedition from Germany on 28 May 2023 and so far covered approximately 13,000 kilometers across Europe and Southeast Asia to spread his message. In Manipal he interacted with members of the Center for Outdoor Studies and other students who also regularly undertake cycling expeditions.



Visit to the Institute

- Mr. M Jagannathan, Director, Vedd Consultant visited MIT, Manipal on 25 January 2024.
- Dr. K. Vamshi Krishna Varma, Associate Director - Industry Relations - Central Team, Sri Vishnu Educational Society visited MIT, Manipal on 23 January 2024.
- Dr. C. Subbarami Reddy, Professor and Head, and Mr. M. Rupesh, Associate Professor, Electrical and Electronics Engineering, BVRIT Hyderabad visited MIT, Manipal on 23 January 2024.
- Dr. SSS Sarathbabu and Dr. I. Kasireddy -Electrical and Electronics Engineering, SVEC, Bhimavaram visited MIT, Manipal on 23 January 2024.
- Dr. Shyama Narendranath, Scientist at ISRO visited MIT, Manipal on 08 March 2024.
- Dr. K. Fazlur Rahman, Principal of Anjuman Institute of Technology and Management, Bhatkal visited MIT, Manipal on 04 March 2024.
- Dr. Weihua Li, Senior Professor of Mechatronic Engineering at the University of Wollongong, Australia and Prof. Amitava Mukherjee, Senior Professor and Director at the Center for Nanobiotechnology, VIT University, Vellore visited MIT, Manipal on 01 March 2024.
- Ms. Anuradha T K, Distinguished Scientist Retd. Director, SATCOM Program, ISRO HQ visited MIT, Manipal on 29 February 2024.

Memorandum of Understanding (MoU) with Organisations

- MIT, Manipal, MAHE has signed an MoU with Innvolution Health Care Pvt. Ltd., Bengaluru, Karnataka on 26 February 2024. The MOU outlines a comprehensive partnership for student training, internship opportunities, research collaborations, and placement.
- MIT, Manipal, MAHE has signed an MoU with HILTI India on 15 January 2024. The MoU outlines collaboration between HILTI and MIT, Manipal for organizing continuous Professional Development (CPD) programs, practical training for students and professional mentorship. The MOU is valid for three years.
- MIT, Manipal, MAHE has signed an MoU with Elvikon India Pvt Ltd., on 11 March 2024. The MoU outlines collaboration between Elvikon India Pvt Ltd., and MIT, Manipal in research and internship in the field of science, biotechnology, and management.
- MIT, Manipal, MAHE has signed an MoU with Altair, Bangalore on 04 March 2024. The MoU is valid for three years and outlines training in usage of Altair software, promote innovative research, and support start-ups incubated under MAHE.
- MIT, Manipal, MAHE has signed an MoU with Chosun University, South Korea on 05 February 2024. The MoU primarily covers broad areas such as Cooperative Research, Researcher Mobility, Joint Workshops and Meetings, and Exchange of Academic Materials.
- MIT, Manipal, MAHE has signed an MoU with DLabs Incubator Association, Indian School of Business (ISB) Hyderabad on 30 January 2024. The MOU will foster and encourage entrepreneurship among students of MIT, Manipal. The MoU has a special relevance to the new integrated Masters Programme in Entrepreneurship in Dual Degree mode initiated by the Department of Humanities and Management, MIT, Manipal.
- MIT, Manipal, MAHE has signed an MoU with Larsen & Toubro Limited, Mumbai on 01 January 2024. As per the MoU, L&T offers industry-led application-oriented course, “Program in E-Mobility and Electric Vehicles” to MIT students coordinated by the Department of Electrical and Electronics Engineering. The MoU is valid till 31 December 2026.

Student Corner

Inhumane Humanity

I have become sad for our world, I live in a world of
numbers,

A world where I am no more than a commodity,

A talent to be put to use, a bunch of numbers on someone's screen being watched!

If I bring nothing to the table I'm useless, is that it?

In this world where if it doesn't bring profit, it's not worth bringing to light I can think of thousands of
examples that may bring profit though not

economical or financial

Why? Because its humanely profitable

Charity, humility, compassion are all acts that bring pure joy and no profit to anyone personally

But they change the lives of the people we express it to, astronomically.

And not just to people, but also our home, this planet We've not yet discovered a suc-
cessful way to flee earth just yet

And still we destroy her mindlessly and brutally every day!



Saumya Dsouza

I B. Tech (Computer Science and FinTech Engineering)

Enriching Institute Leadership Dimensions



Dr. Pallavi R Mane, Professor, Department of Electronics & Communication Engineering is appointed as Head of the Department for a period of two years from 08 April 2024.



The tenure of **Dr. Pramoda Kumara Shetty**, Assistant Director- Quality Assurance is extended for one year from 02 May 2024.

Dr. Ramakrishna M, Associate Professor, Department of Data Science and Computer Applications is appointed as Assistant Director - Alumni Cell, Public & International Relations for a period of one year from 01 March 2024



The tenure of **Dr. Vishwanath Managuli**, In Charge-Central Instrumentation Facility is extended for one year from 08 April 2024.



Dr. Giridhar Kamath B, Associate Professor, Department of Humanities and Management is appointed as Assistant Director - Industry Liaison, Placement & Practice School for a period of one year from 05 May 2024.

The tenure of **Dr. Vidya Rao**, In Charge- Central Computing Facility is extended for one year from 11 March 2024.



The tenure of **Dr. Manjunath Shettar**, Assistant Director- Student Welfare is extended for one year from 17 January 2024.



The tenure of **Dr. Diana Olivia**, Assistant Director-Student Welfare is extended for one year from 16 March 2024.



Dr. K Balakrishna, Professor, Department of Civil Engineering has been appointed as the Coordinator for the newly established "Centre of Excellence for Smart Coastal Sustainability" under MAHE, Manipal.

The tenure of **Dr. Gururaj Rao H V**, Assistant Director- Academics is extended for one year from 14 March 2024.



Dr. Manikandan M, Assistant Professor- Senior Scale, Department of Aeronautical and Automobile Engineering has been appointed as the Coordinator for the newly established "Centre for Aerospace Science and Technology" under MAHE, Manipal. **Dr. Balbir Singh**, Assistant Professor- Senior Scale, Department of Aeronautical and Automobile Engineering has been appointed as the Co-coordinator of the centre.



Dr. Giridhar B Kamath, Associate Professor, Department of Humanities & Management received the Best Paper Award for his paper titled "Understanding the Dynamics of Social Media Influencers: A System Dynamics Approach" presented at the conference on Green Economy and Sustainable Growth 2024, organised by the School of Business, MAHE, Dubai in collaboration with Department of Commerce, MAHE, Manipal and College of Banking and Financial Studies, Muscat, Sultanate of Oman held during 22 - 23 February 2024.



Dr. Suchand Sandeep, Associate Professor-Research, Department of Physics, delivered an invited talk at the International Symposium on Recent Advances in Biophotonics and Imaging organized by the Department of Atomic and Molecular Physics, MAHE on 02 January 2024. The talk highlighted on artefact-free fluorescence bioimaging using random lasers and the development of a microscopic system for simultaneous imaging and detection of tumour polyps using random lasing.



Dr. Raghavendra K. G., Assistant Professor, Department of Physics was invited by the Dr. K. V. Rao Scientific Society Hyderabad as a judge on the panel for the 13th Spark Innovation Award. The event held on 03 February 2024, in Hyderabad, India was specifically organized for school children across the country to encourage interest in the fields of science.



Dr. Suchand Sandeep also delivered an invited talk at the International Conference on Light Matter Interaction & Ultrafast Processes (ICLMIUP 2024), hosted by MG University, Kottayam, Kerala on 02 March 2024. The talk focused on ultrafast laser direct writing for the fabrication of diffractive and refractive micro-optical components and their applications.

He was also invited as a resource person at the National Conference on Advanced Materials for Chemical and Biological Applications organized by the Department of Chemistry at Sri Dharmasthala Manjunatheshwara College, Ujire, Karnataka, on 06 March 2024. In his lecture titled Renewable Energy with Quantum Dots, exciting results obtained through ultrafast optical and terahertz measurements on quantum dots were discussed from the perspective of inexpensive and efficient solar cells. He also chaired an oral presentation session at the conference.



Dr. Neha Sureshchandra Gandhi, Professor - Research, Department of Computer Science & Engineering conducted a 1-credit workshop on Scientific Computing and Visualisation Outcomes.

Dr. Srikanth Prabhu, Professor, Department of Computer Science and Engineering delivered an invited talk at A J Institute of Engineering and Technology in Mangalore on 07 February 2024. The talk highlighted on topics such as Innovation Development Process, Technology Readiness Levels (TRL), and the Commercialization of Laboratory Technologies and Technology Transfer.



Dr. Sivakumar V, Associate Professor, Department of Information and Communication Technology delivered a technical talk titled “Underwater Applications of Artificial Intelligence and Machine Learning in Environmental Studies” at an event organized by CINTEL, School of Computing, SRM Institute of Science and Technology, Kattankulathur on 09 March 2024. The talk was targeted to research scholars and professionals and centered around topics on disaster management.



Dr. Manjunath K N, Associate Professor, Department of Computer Science and Engineering presented a research proposal on “AI Frameworks in Medical Image Analyses” at the European Congress of Radiology 2024 in Vienna, and succeeded in receiving €1600 registration grant. His research team comprises members from the USA, Germany, Bengaluru and an alumnus of the department. Further, he also engaged in discussions on UN Sustainable Development Goals at the Vienna International

Centre. Dr. Manjunath was also invited to the Artificial Intelligence National Laboratory in Budapest to explore potential collaborations in the healthcare sector and to establish a Center of Excellence at Manipal.



Dr. Dasharathraj K Shetty, Associate Professor, Department of Data Science and Computer Applications acted as the moderator for a thought-provoking panel on “AI and Literature” at the Mangalore Lit Fest-2024 held on 30 January 2024. The session provided a valuable platform for sharing insights and perspectives regarding the current and future impact of AI on literature. The other panel members were venture capitalist Suresh Narasimha and free-speech activist Mr. Belur Sudarshana.

He also delivered a guest talk on “Understanding Business Model Canvas” during the National Startup Day held on 16 January 2024 at MUTBI, Manipal.

Dr. Dasharathraj K Shetty received the “Outstanding Leadership Award” at the Education 2.0 Conference held on 20 February 2024, at the InterContinental in Dubai Festival City. This award was given to him in recognition of his contribution to the field of education.



Dr. Karunakar A Kotegar, Director, Office of International Collaborations, MAHE and Professor, Department of Data Science and Computer Applications appeared as a guest speaker on the “Mukamukhi” TV news program on U_Channel in Udupi on 14 January 2024. He discussed the National Education Policy (NEP-2020) in the program.



Dr. Praveen K Shetty's short documentary, “Kambala- Slush Track Buffalo Race,” has been selected for screening at the Sixth International Film and Folklore Festival 2024 in Trinidad and Tobago. The documentary is one of the two shorts films selected from India for the screening and is a testament to the cultural significance and artistic merit of the work.



PhD Awardees: Faculty Members



Dr. Om Prakash Kumar, Assistant Professor-Senior Scale, Department of Electronics & Communication Engineering, has successfully defended his Doctoral thesis titled “MODELING OF ULTRAWIDEBAND ANTENNA WITH RECONFIGURABLE BAND NOTCH CHARACTERISTICS” for the award of Ph.D. degree by the Manipal Academy of Higher Education, Manipal on 27th December 2023. The research work was guided by Dr. Pramod Kumar, Professor, and Dr. Tanweer, Associate Professor, Department of Electronics & Communication Engineering MIT, Manipal.

Dr. Nisha P Shetty, Assistant Professor-Senior Scale, Department of Information and Communication Technology has successfully defended her Doctoral thesis titled “DESIGN AND DEVELOPMENT OF AN EFFICIENT METHOD TO PREVENT PRIVACY BREACH IN SOCIAL MEDIA” for the award of Ph.D. degree by the Manipal Academy of Higher Education, Manipal on 30 DECEMBER 2023. The research work was guided by Dr. Balachandra, Professor, Department of Information and Communication Technology, MIT Manipal.



Dr. Siddaraj, Assistant Professor-Senior Scale, Department of Electrical & Electronics Engineering, has successfully defended his Doctoral thesis titled “OPERATION AND CONTROL OF THE MICROGRID WITH MULTIPLE DISTRIBUTED ENERGY RESOURCES” for the award of PhD degree by the National Institute of Technology Karnataka Surathkal on 08 January 2024. The research work was guided by Dr. Udaykumar R Y, Professor (HAG) and co-guided by Dr. Nagendruppa H, Associate Professor, Department of Electrical and Electronics Engineering, NITK, Surathkal.



Dr. Subramanya R Prabhu B, Assistant Professor-Selection Grade, Department of Mechatronics has successfully defended his Doctoral thesis titled “CHARACTERIZATION AND PROCESS PARAMETER OPTIMIZATION OF FRICTION STIR WELDED AA6061-RUTILE COMPOSITES” for the award of PhD degree by the National Institute of Technology, Karnataka (NITK) Surathkal on 22 January 2024. The research work was guided by Dr. Mervin A Herbert, Associate Professor and co-guided by Prof. Shrikantha S Rao, Professor, Department of Mechanical Engineering, NITK Surathkal.



Dr. Gururaj, Assistant Professor-Selection Grade, Department of Computer Science & Engineering has successfully defended his Doctoral thesis titled “COMPUTATIONALLY EFFICIENT MULTILEVEL VIDEO CODING” for the award of PhD degree by the Manipal Academy of Higher Education, Manipal on 12 February 2024.



The research work was guided by Dr. Karunakar A. Kotegar, Professor, Department of Data Science & Computer Applications, MIT Manipal.



Dr. Akshatha K. R., Assistant Professor-Senior Scale, Department of Electronics and Communication Engineering has successfully defended her Doctoral thesis titled “DEVELOPMENT OF AN INTELLIGENT SYSTEM FOR PERSON DETECTION IN UAV IMAGES” for the award of PhD degree by the Manipal Academy of Higher Education, Manipal on 16 February 2024. The research work was guided by Dr. Karunakar A Kotegar, Professor, Department of Data Science and Computer Applications and co-guided by Dr. Satish Shenoy B., Professor, Department of Aeronautical and Automobile Engineering, MIT, Manipal.

Dr. Ramakrishna Nayak, Assistant Professor-Senior Scale- Department of Humanities and Management, MIT Manipal has successfully defended his Doctoral thesis titled “FABRICATION AND CHARACTERIZATION OF PRINTED FLEXIBLE THERMOELECTRIC GENERATORS BASED ON NOVEL INK FORMULATIONS” for the award of PhD degree by the Manipal Academy of Higher Education, Manipal on 09 March 2024. This research work was guided by Dr. Prakasha Shetty, former Professor, Department of Chemistry and co-guided by Dr. M Selvakumar, Associate Professor, Department of Chemistry, MIT Manipal.



Dr. Prajwal Shenoy T, Assistant Professor-Senior Scale, Department of Mechatronics Engineering, has successfully defended his Doctoral thesis titled “STUDIES ON THE METHODS FOR MEASUREMENT OF KINEMATICS AND ANALYSIS OF SYNERGIES OF THE DOMINANT AND NON-DOMINANT HAND” for the award of Ph.D. degree by the Indian Institute of Technology, Madras on 12 March 2024. The research work was guided by Dr. Varadhan S K M, Associate Professor, Department of Applied Mechanics and Biomedical Engineering, IIT Madras.



Dr. Karthi Pradeep, Assistant Professor, Department of Electronics & Communication Engineering has successfully defended her Doctoral thesis titled “CONTRIBUTION TO ON-WAFER CHARACTERIZATION OF MILLIMETER-WAVE FD-SOI MOS TRANSISTORS” for the award of PhD degree by the University of Bordeaux, France on 28 June 2023. The research work was jointly guided by Prof. Thomas Zimmer, Dr. Sebastien Fregonese and Dr. Marina Deng from the University of Bordeaux and by Dr. Patrick Scheer and Dr. Benjamin Dormieu from STMicroelectronics, Crolles, France. The work was carried out at the IMS Laboratory of the University of Bordeaux and at STMicroelectronics, under the CIFRE framework.



Dr. Balbir Singh, Assistant Professor - Senior Scale, Department of Aeronautical and Automobile Engineering has



successfully defended his Doctoral thesis titled “MORPHOLOGY-DRIVEN DESIGN AND AERODYNAMIC PERFORMANCE OF HOVERING MOSQUITO INSPIRED PICO AERIAL VEHICLE” for the award of PhD Degree by Universiti Putra Malaysia (UPM), Serdang, Malaysia on 09 January 2024. The research work was guided by Prof. Ir. Dr. Kamarul Arifin Ahmad, Professor, Department of Aerospace Engineering, Faculty of Engineering and co-guided by Dr.

Noorfaizal Yidris, Associate Professor, Dr. Adi Azriff Basri, Senior Lecturer, Department of Aerospace Engineering, Faculty of Engineering, UPM, Malaysia and Dr. Sridhar Ravi, Senior Lecturer, School of Engineering and Technology, University of New South Wales, Canberra, Australia. Dr. Raghuvir Pai, Professor, Department of Mechanical and Industrial Engineering, MIT, Manipal was the internal Guide from MAHE, Manipal.

Full-Time Research Scholars



Dr. Asha Hind P, Full-time Research Scholar in the Department of Physics has successfully defended her Doctoral thesis titled “PREPARATION AND CHARACTERIZATION OF SPRAY COATED LANTHANIDE DOPED TIN OXIDE THIN FILMS FOR PHOTONIC DEVICE APPLICATIONS” for the award of PhD degree by the Manipal Academy of Higher Education, Manipal on 19 January 2024. The research work was guided by Dr. B V Rajendra, Professor, Department of Physics, MIT Manipal.



Dr. Pallavi M, Full-time Research Scholar in the Department of Electronics and Communication Engineering has successfully defended her Doctoral thesis titled “MODELING OF MIMO ANTENNA STRUCTURE FOR TRAFFIC ALERT AND COLLISION AVOIDANCE SYSTEM” for the award of PhD degree by the Manipal Academy of Higher Education, Manipal on 21 February 2024. The research work was guided by Dr. Pramod Kumar, Professor and co-guided by Dr. Tanweer, Associate Professor, Department of Electronics and Communication Engineering, MIT Manipal.

Dr. Ganesha Prasad, Full-time Research Scholar in the Department of Mechanical Engineering has successfully defended his Doctoral thesis titled “MODELING AND PREDICTION OF TOOL WEAR IN TURBINE OPERATION OF NICKEL-IRON-CHROMIUM SUPERALLOY FROM MACHINED-SURFACE- IMAGES USING DEEP LEARNING TECHNIQUE” for the award of PhD degree by the Manipal Academy of Higher Education, Manipal on 29 January 2024. The research work was guided by Dr. Raghavendra Kamath C, Additional Professor and co-guided by Dr. Vijay G.S., Professor, Department of Mechanical and Industrial Engineering, MIT Manipal.



Dr. Ashwitha Nancy D’Souza, Full-time Research Scholar in the Department of Physics has successfully defended her Doctoral thesis titled “IONIZING RADIATION SHIELDING AND DOSIMETRY STUDIES ON RARE-EARTH OXIDE DOPED HEAVY METAL OXIDE BORO-SILICATE GLASSES” for the award of PhD degree by the Manipal Academy of Higher Education, Manipal on 29 February 2024. The research work was guided by Dr. Sudha D Kamath, Professor and Head, Department of Physics, MIT Manipal.



Dr. Goutam Mohan Pawaskar, Full-time Research Scholar in the Department of Biotechnology has successfully defended his Doctoral thesis titled “CLONNING AND EXPRESSION OF CHITIN DEACETYLASE FOR THE MODIFICATION OF CHITOSAN TOWARDS ANTIVIRAL APPLICATION” for the award of PhD degree by the Manipal Academy of Higher Education, Manipal on 31 January 2024. The research work was guided by Dr. Ritu Raval, Associate Professor, Department of Biotechnology, MIT Manipal and co-guided by Dr. Piya Paul Mudgal, Associate Professor, Manipal Institute of Virology, Manipal.



Dr. Aldrin Claytus Vaz, Full-time Research Scholar in the Department of Physics has successfully defended his Doctoral thesis titled “PERFORMANCE IMPROVEMENT OF VISIBLE LIGHT COMMUNICATION SYSTEM USING ADVANCED CODING TECHNIQUES” for the award of PhD degree by the Manipal Academy of Higher Education, Manipal on 06 March 2024. The research work was guided by Dr. C Gurudas Nayak, Professor, Department of Instrumentation & Control Engineering, MIT Manipal and co-guided by Dr. Dayananda Nayak, Professor, Department of Electronics and Communication Engineering, MIT Manipal.

Dr. Arun Kumar, Full-time Research Scholar in the Department of Civil Engineering has successfully defended his Doctoral thesis titled “A GEOCHEMICAL STUDY ON THE KALI RIVER WITH EMPHASIS ON CHEMICAL WEATHERING AND ANTHROPOGENIC IMPACTS, SOUTH-WESTERN INDIA” for the award of PhD degree by the Manipal Academy of Higher Education, Manipal on 03 February 2024. The research work was guided by Dr. K Balakrishna, Professor and co-guided by Dr. H N Udaya Shankar, former Professor, Department of Civil Engineering, MIT Manipal.



Dr. Varsha, Full-time Research Scholar in the Department of Mathematics has successfully defended her Doctoral thesis titled “EXTENSION OF IDEAL THEORY OF NEARRINGS WITH APPLICATIONS TO HYPERSTRUCTURES AND SYMMETRY” for the award of PhD degree by the Manipal Academy of Higher Education, Manipal on 23 March 2024. The research work was guided by Dr. Babushri Srinivas Kedukodi, Professor and co-guided by Dr. Syam Prasad Kuncham, Professor and HOD, Department of Mathematics, MIT Manipal.



Research Grants



Dr. V Anoop Kishore, Assistant Professor - Senior Scale, Department of Chemical Engineering as PI has been awarded the Teachers Associateship for Research Excellence (TARE) SERB funding for his Project proposal titled "Reaction Kinetics Pathways of Liquid Organic Hydrogen Carriers for Effective Hydrogen Storage Using Ab Initio Calculations".

Dr. Abhilash K Pai (Co-PI), Assistant Professor, Department of Data Science and Computer Applications as Co-PI has been awarded the DBT project grant of amount INR 12,60,403/- for the project proposal titled "Dual Wavelength assisted, handheld and cost effective LED based device for cervical cancer screening in rural areas".



Dr. Jijo Lukose, Assistant Professor, Department of Atomic & Molecular Physics is the PI, while Dr. Abhilash K Pai, Dr. Santhosh Chidangil, Professor, Department of Atomic & Molecular Physics and Dr. Rekha Upadhy, Associate Professor, Department of Obstetrics & Gynaecology are the Co-PIs.



Dr. Raghavendra U, Associate Professor as PI and **Dr. Anjan Gudigar**, Associate Professor, as co-PI from the Department of Instrumentation and

Control Engineering have been awarded the SERB Research grant of amount INR 26,80,830/- for their research proposal titled "Artificial Intelligence-Enabled Student Emotion Identification and Alert System using Heterogeneous Bio-Signals in Higher Educational Institutes".

Dr. Mathew Peter, Assistant Professor, Department of Biomedical Engineering, MIT Manipal received a Grant of INR 11,91,625/- from the Department of Health Research for 'Inter- Sectoral Convergence & Coordination for Promotion and Guidance on Health Research for the research project entitled "Development of portable bioprinting device for direct printing on burn wound" under the Grant-in-Aid (GIA) scheme for Innovation in Health Technology.



Dr. Mathew Peter is the PI and Dr. Pramod K, Assistant Professor - Selection Grade, Biomedical Engineering, MIT and Dr. Joseph Thomas, Associate Professor, Department of Plastic Surgery, KMC are Co-PIs.



Dr. Chiranjit Ghosh, Assistant Professor (Research), Department of Biotechnology as PI has been awarded the SERB Research grant of amount INR 26.54 Lakhs for his research proposal titled "A Design of Portable Microextraction Device to Monitor Metabolic Marker Compounds from Human Skin and Breath for Noninvasive Detection of Diseases".

Patents



Mr. Nithesh Nayak, Assistant Professor - Senior Scale in the Department of Mechanical and Industrial Engineering at MIT Manipal, has been granted with a patent on 22 November 2023 for his invention titled "UNIVERSAL SELF ALIGNING AUTOMATED GEAR HOBBING FIXTURE" by The Patent Office, Government of India. Mr. Udit Rathee, Mechanical, 2021 Batch student is the co-inventor.

Dr. Chandrashekara S. Adiga, Professor & Head, Department of Electrical & Electronics Engineering at MIT Manipal, has been granted with a patent on 05 January 2024 for his invention titled "A SYSTEM AND METHOD FOR MAINTAINING CONTINUOUS POWER SUPPLY TO LOCAL LOAD IN ON-LINE GRID CONNECTED SOLAR POWER SYSTEMS" by The Patent Office, Government of India. Mr. Bandhakavi Kameshwar and Venda Ramsurya, Electrical and Electronics Engineering, 2018 Batch students are the co-inventors.



Mr. Jayakrishnan Radhakrishnan, Assistant Professor - Senior Scale, Department of Aeronautical & Automobile Engineering at MIT Manipal, has been granted with a patent on 09 January 2024 for his invention titled "AERIAL POWER GENERATION SYSTEM" by The Patent Office, Government of India. The former students of Aeronautical Engineering Mr Dhruv Suri, Mr. Raahil Nayak, Mr. Anirudha Paranjape, Mr. Anhad Singh and Mr. Amartya Mukherjee from Mech engineering were the co-inventors.

Dr. Somashekara Bhat, Joint Director and Professor in the Department of Electronics and Communication Engineering, MIT Manipal, has been granted with a patent on 29 January 2024 for his invention titled "AUTOMATICALLY CONTROLLED HANDS FREE



ELECTROLARYNX SYSTEM AND METHOD” by The Patent Office, Government of India. Dr. Madhushankara M, Associate Professor, Dr Keerthana Prasad, Professor & Director, Manipal School of Information Sciences and Dr. Venkataraja Aithal U, Professor and Associate Dean, MCHP, Manipal are the co-inventors.



Dr. Prashanth Barla, Assistant Professor - Senior Scale in the Department Computer Science and Engineering has been granted with a patent on 05 February 2024 for their invention titled “A SELF TERMINATING AND MONITORING SELF CIRCUIT” by The Patent Office, Government of India. Dr. Vinod Kumar Joshi, Additional Professor and



Dr. Somashekara Bhat, Joint Director and Professor in the Department of Electronics and Communication Engineering are the co-inventors.

Dr. Jayalakshmi N S, Professor in the Department of Electrical and Electronics Engineering at MIT Manipal, has been granted with a patent on 10 February 2024 for her invention titled “A NON-ISOLATED MULTI-PORT INTERLEAVED BIPOLAR BIDIRECTIONAL CONVERTER FOR EV CHARGING IN BIPOLAR DC GRID” by The Patent Office, Government of India.



Dr. Shailendra Kumar Tiwari, Associate Professor in the Department of Electronics and Communication Engineering, MIT Manipal has been granted with a patent on 14 March 2024 for their invention titled “A METHOD OF FABRICATING MICROFLUIDIC DEVICE” by The Patent Office, Government of India. Dr. Somashekara Bhat, Joint Director and Professor in the Department



of Electronics and Communication Engineering and Dr. Krishna Kishore Mahato, Professor & HOD, Department of Biophysics are the co-inventors.

Mr. Nithesh Nayak, Assistant Professor - Senior Scale in the Department of Mechanical and Industrial Engineering at MIT Manipal, has been granted with a patent on 14 March 2024 for his invention titled “DEVICE FOR INSPECTING DIMENSIONS OF A TOOL HOLDER” by The Patent Office, Government of India. Mr. Dhruv Shah is the co-inventor.



Dr. M Selvakumar, Associate Professor, Department of Chemistry was a Resource Person for the “Enrichment Programme on Intellectual Property Rights (IPR)” at Kongunadu Arts and Science College, Coimbatore held on 02 February 2024. The event was a part of the DBT Star College Scheme

Dr. Dasharathraj K Shetty, Associate Professor in the Department of Data Science and Computer Applications at MIT Manipal, has been granted with a design patent on 22 March 2024 for his invention titled “AIRWAY DEVICE” by The Patent Office, Government of India. Dr. Jayaraj Mymbilly Balakrishnan, Professor & HOD, Department of Emergency Medicine is the co-inventor.



Dr. Ganesha A, Assistant Professor - Senior Scale in the Department of Mechanical & Industrial Engineering at MIT Manipal, has been granted with a patent on 05 March 2024 for his invention titled “ANTOGRAPH SUSPENSION SYSTEM AND METHOD FOR VEHICLES” by The Patent Office, Government of India. Mr. Akshay Saxena is the co-inventor.

Dr. Poornima P Kundapur, Associate Director - Student Welfare and Associate Professor the Department of Data Science and Computer Applications at Manipal Institute of Technology, Manipal, has registered for her research on “INSTRUMENTAL ACTIVITIES OF DAILY LIVING FOR ELDERLY PEOPLE” by The Copyright Office, Government of India. Raghavendra G, Assistant Professor - Selection Grade, Welcomgroup Graduate School of Hotel Administration | WGSMA Manipal - Manipal Academy of Higher Education and Dr. Shashidhara Y N, Professor and Head, Department of Community Health Nursing are the co-contributors.



Mr. Shaurya Rahul Narlanka, Assistant Professor, Department of Civil Engineering has published a research article titled “Measuring energy access for livelihoods, lifestyles, and welfare: Validating the Hierarchical Energy Access Framework in India” in the Journal, Energy Research & Social Science (Impact Factor: 6.7, Quartile: Q1, 98%).

Dr. Subramanya G. Nayak, Professor, Department of Electronics & Communication Engineering has published a research article titled “Machine Learning Enabled Photoacoustic Spectroscopy for Noninvasive Assessment of Breast Tumor Progression in vivo: A Preclinical Study” in ACS Sensors Journal, published by American Chemical Society (Impact Factor: 9.618, Quartile: Q1, 99%).



“As for the future, your task is not to foresee it but to enable it.”

Dr. Vinay Kumar Jadoun, Associate Professor and **Dr. Jayalakshmi N S**, Professor in the Department of Electrical and Electronics Engineering have published two research articles in high impact factor journals in this quarter:



- “Multi-objective price based flexible reserve scheduling of virtual power plant” in the journal, Renewable and Sustainable Energy Reviews (Impact Factor: 15.9, Cite Score: 26.5, Q1).
- “A combined approach to evaluate power quality and grid dependency by solar photovoltaic based electric vehicle charging station using hybrid optimization” in Journal of Energy Storage (Impact Factor: 9.4, Cite Score: 11.6, Q1).

Dr. Narendra Khatri, Assistant Professor in the Department of Mechatronics Engineering has published a research article titled “Comparative studies of knapsack, boom, and drone sprayers for weed management in soybean (*Glycine max L.*)” in the journal, Environmental Research journal (Impact Factor = 8.3, Q1).



Dr. Chiranjit Ghosh, Assistant Professor, Department of Biotechnology has published a research article titled “Printed flexible supercapacitor from conductive ink of graphite nanocomposite blended with Co_3O_4 to facilitate the fabrication of energy storage device” in Journal of Energy Storage (Impact Factor: 9.4, Quartile: Q1, 99%).

Dr. Sowmya R, Assistant Professor- Senior Scale, Department of Electrical and Electronics Engineering has published a research article titled “Newton-Raphson-based optimizer: A new population-based metaheuristic algorithm for continuous optimization problems” in the journal, Engineering Applications of Artificial Intelligence, Elsevier (Impact Factor: 8).



Dr. Narendra Khatri, Assistant Professor in the Department of Mechatronics Engineering has been granted with Design Patent for “ECONOMICAL WATER TANK WITH SELF CLEANING ABILITY” from the Indian Patent Office on 23 February 2024. (co inventors Dr. Sumit Pokhriyal,

Mr. Saurabh Sudeep Chaughule, BTech students from Dept. of Mechanical and Industrial Engg., MIT, Manipal, Dr. Awanish Kumar Sharma, Dr. Manju Faujdar, and Dr. Rashmi Bangale).



Dr. Manish Varun Yadav, Assistant Professor - Senior Scale, Department of Aeronautical & Automobile Engineering has registered his work on “A Circular 5G Antenna with TU Shaped for Microwave Applications” for copyright on 06 February 2024.

Dr. Binay Kumar Tripathy, Assistant Professor from Civil department has received the Early Career Research Award (ECRA) from VGST an amount of Rs. 10 lakh in the month of January 2024.



Dr. Smitha Nayak, Additional Professor in the Department of Humanities and Management secured the best paper award at SETIB 2023 organized by the School of Management Studies, JIS University, Kolkata, on 09 January 2024.

Dr. Fayaz S M, Assistant Professor - Selection Grade, Department of Biotechnology received the “Research Excellence Award” in the International Conference on Advances in Research and Development (ICARD 2024) during 27-28 January 2024. This conference was organized by the All-India Institute of Training and Education (AIITE) and International Skill Development Council (ISDC), New Delhi.



Dr Srinivas G, Associate Professor, Department of Aeronautical and Automobile Engineering received the best paper award at the 5th International Conference on Advances in Mechanical Engineering (ICAME 2024), held at SRM Institute of Science and Technology, KTR Campus, Tamil Nadu during 20-22 March 2024. The co-authors of the paper are **Mr. Vedansh Mittal** (B.Tech Mechanical Engineering, Registration No: 210908016), **Mr. Kripal** (B.Tech Aeronautical Engineering, Registration No: 210933028), both students of Manipal Institute of Technology.



‘The future depends on what we do in the present’

- Mahatma Gandhi

Death of Fame

Fame is superficial, it's temporary.
It's very much like death, though you'd think the opposite.
And just like death, the period for when it'll flourish is uncertain.
But it is certain that it will end.

You can gain fame overnight, and that's all it'll last for,
Or you could gain it a decade later and be remembered for a decade after that, but ultimately it will die.
Fame is not immortality.

If you spent a percent of yourself on getting fame, You could spend cent percent of yourself again and again.
But you would never gain immortality.

Your virtues could get it, but your body never will.
For your name, your attributes, and your virtues to be immortal, They need to carry some weight over the world,

They need to be valuable, ingenious, and ground-breaking.
So much so that for decades, centuries, eons Your beliefs and virtues will be remembered.
They will be immortal.

I don't want to be remembered for the viral video I posted last week,
I don't want to be remembered for the amazing physique I started my body for That's superficial, that's fame
That's an immediate need to satiate the on-going "Trend". If I'm remembered, if I'm immortal, it'll be for my intellect.

For the change I bring to the world
For the change my writing brings to the world
For the words I write, for the emotions and expressions they carry.
For the hope and love I spread I'm not interested in Fame,
I want Immortality!



Saumya Dsouza

I B. Tech (Computer Science and FinTech Engineering)

Cryptonite

Members of Student Major Project, **Cryptonite** shine in various events in this quarter as listed below:

- **Cryptonite** participated in the prestigious BITSCTF 2024 held on 16 February 2024 and won the First Position in the event.
- **Yogesh Rane**, a student from the Department of Information and Communication Technology, **Rupak Banerjee** & **YVSR Akash** from the Department of Computer Science and Engineering won the top 3 positions respectively in the Aurora CTF 2024.
- **Gurmann Ajmani**, from the Department of Data Science and Engineering, **Avanish Srivats** & **Nishant Gunda** from Department of Computer Science and Engineering won the Second Place in the Productathon organized by IIT Roorkee during 02 - 04 February 2024.
- **Shreyansh Sankrit, Prabhakar Dev & Shreyas BS**, students from the Department of Information and Communication Technology, and **Aditi Kulkarni & Krish Pandey**, students from the Department of Instrumentation and Control Engineering won second place in the hackathon jointly organised by News first Kannada and IISc Bangalore at Cybercrimes conclave hackathon held during 28-29 February 2024.
- **Yogesh Rane & YVSR Akash**, students from the Department of Information and Communication Technology, **Rupak Banerjee**, a student from the Department of Computer Science and Engineering, and **Krish Pandey** from the Department of Instrumentation and Control Engineering qualified for finals and received recognition as one of the top teams in the national vulnerability assessment and penetration testing challenge at Pentathon 2024 organised by NPIIC held during 15-17 March 2024.

Project Dronaid

Members of **Project Dronaid** figured in various events in this quarter as listed below:

- Participated in the Start-up Expo at IIT Guwahati, held on 23 January 2024 and won a grant of Rs. 50,000.
- Won Second position in the Vayurvya RotorCraft Multirotor Competition, NMAMIT, Nitte during 09 - 10 February and won a cash prize of Rs. 50,000.
- Successfully demonstrated the delivery of medicines using drone in auto pilot mode from location outside Academic Block1 into quadrangle on 24 February 2024.



Team SolarMobil, as one of the supporting partners of Solar Electric Vehicle Championship (SEVC- 2024) participated in the EV Awareness Rally from MIT to Karavali Junction, Udupi during 28 - 31, March 2024.

Team SolarMobil represented Manipal Institute of Technology at the TATA Motors Quarterly Technical Seminar, "Automorphoses," held on 18 January 2024. During this event, the team presented the project, "SERVE: India's First Passenger Solar Car," to the panel involving Padma Shri awardee Dr. Mylswamy Annadurai, who served as the project director for ISRO Satellite Center, Bangalore, and Mr. Sven Patuschka, the Chief Technical Officer of TATA Motors Passenger & Electric Vehicles. During the event, the Faculty Advisor, Dr. Vijay Babu Koreboina, Associate Professor, Department of Mechatronics along with the team explored sponsorship and collaboration opportunities with TATA Motors.



SWARM Robotics won the First position in the Search and Rescue competition using Drone at BITS Pilani Goa's QUARK fest held during 16 - 18 February 2024. Lakshya Patel, Anish VR, Zaosh Khambhata, Anupam Nair, and Anirudh Mohta - showcased exceptional skills and innovation. The highlight of their success was the development of a powerful drone capable of lifting up to 2.5kg, outperforming other teams.



Mr. Piyansh Thukral and his team from **SWARM Robotics** achieved the 2nd position in the Flipkart Grid 5.0 Robotics Challenge, hosted at IIT Madras (Shaastra 2024) during 03-08 January 2024. It comprised three rounds, including two online rounds where participants demonstrated their proof of concept, followed by the finals at IIT Madras. Out of the 21 teams in the finals, Mr. Thukral's team, secured the second position. The team was awarded with Rs.75,000 in

EGVs (Electronic Gift Vouchers) from Flipkart and received a pre-placement offer (PPO) worth 32 lakhs.



Team Combat Robotics won the Third prize at BITS Pilani Goa's QUARK fest held during 16 - 18 February 20024. Teams' 15 kg bot, 'Bloodmoon' competed with 8 other combat bots from prestigious institutes across the country and was awarded with a prize money of Rs.10,000.



Team Manipal Racing - CV participated in the m BAJA event organized by BAJA SAE India 2024 at NATRAX facility, Indore, Madhya Pradesh, during 10 - 14 January 2024. Out of 75 teams that took part, Team Manipal Racing achieved overall 10th, acceleration - 2nd, sledge Pull - 7th, endurance - 3rd, sales event - 3rd, validation - 8th, overall dynamic - 6th & build quality - 12th position.



Team Manipal Racing - EV participated in the e BAJA SAE INDIA event held in Narsapur, Hyderabad, during 06 -11 March 2024. Out of 80 teams that participated, TMR - EV achieved 7th Overall, 1st Sledge Pull, 2nd Overall Dynamics, 4th Suspension and Traction event, 5th Maneuverability event, 8th Endurance, 6th CAE finals in addition to winning a cash prize of Rs. 40,000.



Team Manipal Racing celebrated the unveiling of V15, a four-wheel-drive ATV on 31 March 2024. This event signifies a remarkable milestone in their 15-year journey of innovation

and dedication to excellence. The V15 is set to compete as their entry in the 2024 BAJA SAE competition.



Mars Rover Manipal emerged victorious by securing the First Place at the International Rover Challenge 2024 held during 24- 29 January 2024. The team competed against 22 teams from worldwide. Their outstanding performance earned them awards for the best task in IDMO and RDO, achieved through completing the mission in record time and accruing bonus points in both categories.



MotoManipal launched its new bike on 07 February 2024 at MIT, Manipal.



Patents Granted:

- Formula Manipal Team along with co-inventor, Dr. Nithesh Naik, Assistant Professor - Senior Scale, Department of Mechanical & Manufacturing Engineering obtained a patent for their invention, "Universal Self Aligning Automated Gear Hobbing Fixture".
- thrustMIT Team obtained a patent for their invention "A System for Ejection" by the Indian Patent Office, Government of India on 02 February 2024 for the work of Ashish Paka (Reg no:160909352) & Arjun Sivasankar (Reg no:160909162). Dr Srinivas G, Associate Professor, Department of Aeronautical & Automobile Engineering is the faculty advisor.
- Team Manipal Racing obtained a patent for their invention "A Continuous Variable Transmission". Dr Mahesh G T, Professor, Department of Aeronautical & Automobile Engineering is the faculty advisor.

Journal Publication:

A research paper titled "Kinematic simulations and design of a steering upright for a single seater electric car" authored by the members of SolarMobil Team - **Shubham Ganju, Kelly Ann Dennis Furtado, Fanil Harshad Birawat, Nagesh Shenoy, Subash Acharya** is accepted for publication in the International Journal of Vehicle Noise and Vibration.

Student Achievements

MAHE MIT contingent won first place in the Republic Day celebrations Parade

MAHE MIT contingent won the first place in the Republic Day celebrations Parade held at MAHE on 26 January 2024. The team showcased its excellence and talent in the parade and brought laurels to the institute.



Mr. Utkarsh Sourabh was nominated for the 21st Century Emily Dickinson Award for his debut book *The Heart of Heartbeats* by BookLeaf Publishing, a global publisher.



Mr. Tushar Mishra, a student of B. Tech in Biotechnology secured All India Rank of 3 in the GATE exams held on 10 February 2024.

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Mr. Ashrith Sagar Yedlapalli a student of B. Tech in Biomedical Engineering secured All India Rank of 7 in the GATE exams held on 4 February 2024.



Ms. Urvi Todi and Mr. Mohal, students of second year Electrical and Electronics Engineering won the first place in the paper presentation competition at Idea Conclave for Better Environment 2024: Conservation of Western Ghats. The paper was titled "Mapping the Environmental Impact of Trekking and University Activities in the Western Ghats through analysis of carbon footprint" and was authored under the guidance of Dr. Shobha M E, Associate Professor, Department of Mathematics.



Socio Ichor organises POP-UP Blood Donation Camp

Socio Ichor Manipal organised POP-UP Blood Donation Camp on 09 January 2024 in response to a request from KMC Blood Bank for arranging 30 units of blood for an emergency. The student club was able to mobilise 101 units of blood, far exceeding the expectations.

Socio Ichor Blood Donation Camp at MGM College Udupi

Socio Ichor Manipal, in collaboration with Mahatma Gandhi Memorial College, Udupi, organized a blood donation camp on 02 March 2024. The camp received overwhelming response by the student donors resulting in the collection of over 80 units of blood from over 130 students.

Stem Cell Donor Registration Drive At MGM College

Socio Ichor Manipal organised a Stem Cell Registration Drive at Mahatma Gandhi Memorial College, Udupi on 05 March 2024 in collaboration with DKMS BMST, the world's largest stem cell repository.



The event marked Socio Ichor's first stem cell donor drive outside Manipal, receiving an overwhelming response. A total of 186 students registered to be potential life savers during the drive. The drive is relevant as it is the final hope for blood cancer patients when all other treatments fail.

Socio Ichor organises Manipal Marathon Stem Cell Drive

Socio Ichor Manipal organised a 3-day stem cell registration drive during the Manipal Marathon 2024 in collaboration with DKMS- BMST, the world's largest stem cell repository during 09- 11 February 2024 at KMC Greens.



The drive was inaugurated by Dr. H S Ballal, Pro-Chancellor, MAHE on 09 February 2024. In his address Dr. Ballal commended the efforts of Socio Ichor in raising awareness amongst the public on blood cancer and its impact. He also motivated students and visitors to register and help the blood cancer patients in fighting the disease.

During the drive, the samples were collected on a swab and processed for tissue characterization. Socio Ichor raised over 750,000 INR through collaboration to facilitate the processing of 424 samples.

"Be the change that you wish to see in the world."

Department of Data Science and Computer Applications Student Achievements

- **Mr. Pratinav Seth**, fourth year B.Tech student, Department of Data Science and Computer Applications and **Dr. Abhilash K Pai**, Assistant Professor, Department of Data Science and Computer Applications presented their paper virtually at the IEEE/CVF Winter Conference on Applications of Computer Vision Workshops 2024 (WACVW 2024) held in Hawaii, USA during 04 -09 January 2024. The paper titled “Does the Fairness of Your Pre-Training Hold Up? Examining the Influence of Pre-Training Techniques on Skin Tone Bias in Skin Lesion Classification” has also been published in the Open Access repository of CVF as the Proceedings of the IEEE/ CVF Winter Conference on Applications of Computer Vision (WACV) Workshops, 2024.
- **Mr. Pratinav Seth**, fourth year B.Tech student, and **Dr. Abhilash K Pai**, Assistant Professor, Department of Data Science and Computer Applications presented their paper titled “Does the fairness of your pre-training hold up? examining the influence of pretraining techniques on skin tone bias in skin lesion classification”, at the Pretraining Workshop, WACV 2024 in the month of January 2024.
- **Mr. Pratinav Seth**, fourth year B.Tech. student of Department of Data Science and Computer Applications and team presented a paper titled “Rsm-nlp at blp-2023 task 2: Bangla sentiment analysis using weighted and majority voted fine-tuned transformers” at the first workshop on Bangla Language Processing (BLP 2023), the 2023 Conference on Empirical Methods in Natural Language Processing (EMNLP-23), Singapore in December 2023.
- **Mr. Aditya Kasliwal**, **Mr. Aryan Kamani**, third year B.Tech. students, and **Mr. Pratinav Seth**, fourth year B.Tech. student of Department of Data Science and Computer Applications presented their paper titled “Lamar: Laplacian pyramid for multimodal adaptive super resolution” at the Student Abstract and Poster Program, Thirty-Eighth AAAI Conference on Artificial Intelligence (AAAI 2024) in the month of February 2024.
- **Mr. Sankarshana Sagaram** and **Mr. Aditya Kasliwal**, third year B.Tech. students of Department of Data Science and Computer Applications presented a paper titled

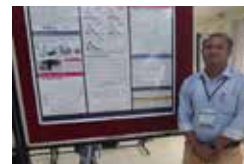
“Solar Panel Segmentation: Self-Supervised Learning for Imperfect Datasets” at the International Conference on Learning Representations (ICLR) 2024 in the Tiny Papers Track.



Pramitha A, Research Scholar from the Department of Physics, MIT, Manipal, won third place for best oral presentation in 3rd International Conference on Nanomaterials for Energy Conversion and Storage

Applications (NECSA) -2024 held at Pandit Deendayal Energy University (PDEU), Gandhinagar, Gujarat in collaboration with Department of Solar Energy (DSE) and Solar Research and Development Center (SRDC) during 21- 23 February 2024. She presented her abstract titled “Systematic investigation on PANI-coated Mn3O4 thin film electrode for supercapacitor application” in the oral presentation. She is carrying out her research work under the guidance of Dr. Raviprakash Y, Additional Professor, Department of Physics, MIT, Manipal.

Pradeep Nayak, Research Scholar from the Department of Physics was honored with the Best Poster Presentation Award for his work on designing Chitosan and PVA-based biopolymer blend films in the International Conference on Nanoscience and Nanotechnology (ICNN-2024) organised by Manipal Academy of Higher Education (MAHE), Manipal during 29 February - 1March 2024. He is carrying out his research work under the guidance of Dr. Ismayil, Associate Professor, Department of Physics, MIT, Manipal.



Mr. Kiran R., Research Scholar, Department of Physics presented a poster titled “Synthesis and Photoluminescence Properties of BaB2O4xSm3+ Phosphor” at Advances in Natural Sciences & Techniques (SAINTS-2024)

Conference, Christ University (Deemed to be University), Bangalore. Mr. Kiran is carrying out his research under the guidance of Dr. Sudha D. Kamath, Professor and Head, Department of Physics, Manipal.

Sports News



Mr. Viraj Bangera, a student of first year Master of Computer Applications (MCA) won the Gold Medal under the 89 Kg, Amateur category at Karnataka State Boxing Championship held during 26 - 28 January 2024 in Bengaluru.



Mr. Naman Bhat, B.Tech student from Department of Mechatronics won the South-West Zone Inter-University Boxing Championship 2023-24, organized by Chandigarh University, Punjab, held from 30 December 2023 to 06 January 2024.

Mr. Mayank Kothari, a first year B.Tech. student from the Department of Computer and Communication Engineering won the gold medal at the Mangalore Sports Club Den Den Swim 2024 on 26 January 2024.



Mr. Rakesh Rao and **Mr. Vishal**, first Year students of Master of Computer Applications, Department of Data Science and Computer Applications, were members of the team that secured Gold medal in the Inter MAHE Volleyball Tournament during 26-27 February 2024.



Alumni News



Mr. Shyamprasad Kamath Mundkur, Chemical Engineering, Batch of 1989 has been elevated to the position of Managing Director of MRPL from the current position of Executive Director.

Mr. Sashikant Dash, Mechanical Engineering, Batch of 2009 has been recently appointed as Head of Finance - Mobility Uber's North Asia's operations (Japan, South Korea, Taiwan and Hongkong). Prior to this he was Head of Finance - Mobility, Australia and New Zealand's operations. He started his career with Uber in 2019 as Sr. Associate Strategic Finance - Mobility (South Asia & India).



Mr. Richard Lobo, Mechanical Engineering, Batch of 1993 has been elevated to the position of Chief People Officer at Tech Mahindra. Prior to this he was associated with Infosys in the position of Executive Vice President and Head Human Resources.

Mr. Nishant Dave, Electronics and Communication, Batch of 1999 has been elevated to the position as Global Head at TCS. He has been associated with TCS since 2000.



Mr. Ajay Bailur, Mechanical Engineering, Batch of 2001 has been elevated to the position of Senior Director-Client Services, Manufacturing Industry Segment, Infosys, Greater Gothenburg Area, Netherlands in January 2024. He has been associated with Infosys since the year 2007.



Mr. Satish M Rao, Civil Engineering, Batch of 1994 has been associated with construction of Rama Janmabhoomi Temple at Ayodhya as an official of Tata Consulting Engineers (TCE) which is the Engineering and Project Management Consultants for the project. He is Vice President & Business Unit Head - PMC BU at TCE. He has been associated with TCE since 1995.



Mr. Shreyas Reddy M R, Civil Engineering, Batch of 2023 has made it into the Indian Army through the SSC (TECH)-62 Course. He was an NCC Cadet during his studies at MIT Manipal.

Alumni Visits

- **Mr. Vinayak Shetty**, alumnus of MIT, Manipal, (Mechanical Engineering, Batch of 2002) visited MIT on 1 January 2024.
- **Mr. Asok Mathews, Mr. Kini Shivanand Alevoor, Mr. Harish S Vartak, Mr. Vishwanath Nayak**, alumni of MIT, Manipal (Mechanical Engineering, Batch of 1980) visited MIT on 5 January 2024.
- **Dr. Anish Bekal**, Founder at E-LAGORi, Director at TraHealth Technologies and alumnus of MIT, Manipal (Electronics & Communication Engineering, Batch of 2004) visited MIT on 5 January 2024.
- **Mr. Nikith P Salian**, Software Engineer at HP and **Mr. Nikhil B M**, Data Scientist at Lumen Technologies, USA and alumni of MIT, Manipal, (Electronics and Communication Engineering, Batch of 2020) visited MIT on 6 January 2024.
- **Ms. Meghana Padakandla**, marketing Intern at Haiku Deck, USA and alumna of MIT, Manipal, (Electronics and Communication Engineering, Batch of 2008) visited MIT on 6 January 2024.
- **Mr. Sanjay Dhingra**, Country Manager-Sales at Larsen & Toubro Infotech Ltd (LTI) and alumnus of MIT, Manipal, (Electronics and Communication Engineering, Batch of 1992) visited MIT on 8 January 2024.
- **Mr. Sheikh Moiden K M** (Computer Science and Engineering), **Mr. Ibrahim H** (Industrial Production), **Mr. Mehaboob** (Electronics and Communication Engineering), alumni of MIT, Manipal, Batch of 2000 visited MIT on 10 January 2024.
- **Ms. Roshini Shetty**, alumna of MIT Manipal, visited MIT on 13 January 2024.
- **Mr. Prasanth Mangalapalli**, alumnus of MIT Manipal, (M.Tech in Biomedical, Batch of 2011) visited MIT on 13 January 2024.
- **Mr. Manan Mehta**, Technical Engineer ECC at HILTI and alumnus of MIT, Manipal, (Civil Engineering, Batch of 2020) visited MIT on 15 January 2024.
- **Mr. Achyut Keshav**, Senior Engineer at HELCON Ltd. and alumnus of MIT, Manipal, (Civil Engineering, Batch of 2019) visited MIT on 15 January 2024.
- **Mr. Abhishek Anand**, Senior CSM at Spotbee and alumnus of MIT, Manipal, (Instrumentation and Control Engineering, Batch of 2018) visited MIT on 17 January 2024.
- **Mr. Vinayak J Prabhu**, Program Director at LTIMindtree and alumnus of MIT, Manipal, (Computer Science and Engineering, Batch of 2004) visited MIT on 15 January 2024.
- **Mr. Udit Rastogi**, Associate/Sr. Structural Engineer at Walter P Moore and alumnus of MIT Manipal, (Civil Engineering, Batch of 2005) visited MIT on 24 January 2024.
- **Mr. Ganesh Raj U**, Trustee of Vision Mate Foundation and alumnus of MIT, Manipal, (Industrial Production, Batch of 2004) visited MIT on 29 January 2024.
- **Mr. Saurav Shetty**, Project Manager at Cloudstrats and alumnus of MIT, Manipal, (Print and Media, Batch of 2020) visited MIT on 29 January 2024.
- **Ms. Vaibhavi Mishra**, Co-Founder at Laranya's and **Mr. Yash Dhote**, Technical Development Engineer, Brook+whittle, alumni of MIT, Manipal, (Print and Media, Batch of 2019) visited MIT on 29 January 2024.
- **Mr. Tanishk Shively**, Senior Manager at Policy Advocacy, Gordon Thomas Honeywell Governmental Affairs and **Sanjeet Singh**, Freelance Video Producer/Cinematographer, Freelance, alumni of MIT, Manipal, (Media Technology, Batch of 2019) visited MIT on 29 January 2024.

- **Mr. Sarthak Agarwal**, Associate at Media Operations, Analect India, Omnicom Media and alumnus of MIT, Manipal, (Print and Media, Batch of 2019) visited MIT on 30 January 2024.
- **Ms. Saumya Awasthi**, Associate Project Manager at Jio-Embibe and alumna of MIT, Manipal, (Print and Media, Batch of 2019) visited MIT on 30 January 2024.
- **Mr. Nabeel Koya A**, Scientist-F at CDAC3 and alumnus of MIT, Manipal, (MTech in DEAC, Batch of 2002) visited MIT on 31 January 2024.
- **Mr. Gembali Akhilesh**, General Manager at Krishna Pharma, Hyderabad and alumnus of MIT, Manipal, (Industrial Production, Batch of 2018) visited MIT on 01 February 2024.
- **Mr. Akhil Reddy P**, Founder at Dojima Network and alumnus of MIT Manipal, (Information and Communications Technology, Batch of 2018) visited MIT on 5 February 2024
- **Mr. Abhishek Bhadua**, Chief of staff at Aaritya and alumnus of MIT Manipal, (Electronics and Communication Engineering, Batch of 2015) visited MIT on 09 February 2024
- **Mr. Praveen Nagaraj**, IOS Engineer (EU), at Door Dash and alumnus of MIT Manipal, (Information and Communications Technology, Batch of 2024) visited MIT on 9 February 2024
- **Mr. Shailesh Jagnani**, LMTS at Salesforce and alumnus of MIT Manipal, (Information Technology, Batch of 2009) visited MIT on 12 February 2024
- **Mr. Shreyans Mehta**, Founder at Medlords & Nanda Capital Holdings and alumnus of MIT Manipal, (Industrial Production, Batch of 2012) visited MIT on 12 February 2024
- **Mr. Abhinav Sinha**, National Key Account Manager at Marico Limited and alumnus of MIT Manipal, (Electronics and Communication Engineering, Batch of 2014) visited MIT on 16 February 2024
- **Ms. Ashlesha Bhadoria**, Founder at Parchai & Simpliyoga and alumna of MIT Manipal, (Electronics and Communications Engineering, Batch of 2014) visited MIT on 16 February 2024
- **Mr. Siddhant Vora**, Marketing Lead at Ampere and alumnus of MIT Manipal, (Mechatronics Engineering, Batch of 2005) visited MIT on 18 February 2024.
- **Mr. R. Krishna Kumar**, alumnus of MIT Manipal, (Mechanical Engineering, Batch of 1969) visited MIT on 16 February 2024
- **Mr. Mayank Aggarwal**, Member of Technical Staff at VMware and alumnus of MIT Manipal, (Computer Science and Engineering, Batch of 2018) visited MIT on 19 February 2024
- **Mr. Ashwin Josh Correa**, GET QA-RA at Innvolution and alumnus of MIT Manipal, (Biomedical Engineering, Batch of 2023) visited MIT on 22 February 2024
- **Mr. Ujjwal Bhardwaj**, Regional Manager - South India at Innvolution and alumnus of MIT Manipal, (Mechanical Engineering, Batch of 2018) visited MIT on 22 February 2024
- **Mr. Nithinchandra R S**, PG Intern at Innvolution and alumnus of MIT Manipal, (Biomedical Engineering, Batch of 2023) visited MIT on 22 February 2024
- **Ms. Samhita Shivaprasad**, PG Intern at Innvolution and alumna of MIT Manipal, (Biotechnology, Batch of 2021) visited MIT on 22 February 2024
- **Ms. Anisha S Palkar**, PG Intern at Innvolution and alumna of MIT Manipal, (M.Tech in Biomedical Engineering, Batch of 2021) visited MIT on 22 February 2024
- **Mr. Balasubramanya Bhat**, Senior Engineer at FICO and alumnus of MIT Manipal, (Electronics and Communications Engineering, Batch of 2000) visited MIT on 23 February 2024
- **Mr. Brijesh Shetty**, alumnus of MIT Manipal, visited MIT on 23 February 2024
- **Mr. Roshan Pais**, Managing Director at EtaMax Technologies Pvt. Ltd and alumnus of MIT Manipal, Batch of 1994 visited MIT on 23 February 2024
- **Dr. Veena Thenkanidiyoor**, Associate Professor, Department of CSE at NIT Goa and alumna of MIT Manipal, (Biomedical Engineering, Batch of 1998) visited MIT on 24 February 2024
- **Mr. Hiren Deliwala**, Solutions Architecture Leader at Amazon Web Services and alumnus of MIT Manipal, (Computer Science and Engineering, Batch of 1995) visited MIT on 27 February 2024.
- **Mr. Rohith Puthran**, Freelancer in the field of Oil & Gas Industry and alumnus of MIT Manipal, (Mechanical Engineering, Batch of 1993) visited MIT on 1 March 2024.
- **Mr. Supreeth R**, EPA Tools Hardware Engineer at Intel and alumnus of MIT Manipal, (MTech in Microelectronics, Batch of 2022) visited MIT on 2 March 2024.
- **Mr. Arpit Ahuja**, Product Manager at Varuna Marine Services B.V and alumnus of MIT Manipal, (Mechanical Engineering, Batch of 2014) visited MIT on 5 March 2024.
- **Mr. Ashish Sahoo**, Co-founder at M/S Ashish Associates & Developers and alumnus of MIT Manipal, (Civil Engineering, Batch of 2015) visited MIT on 11 March 2024.
- **Mr. Manohar Kamath**, alumnus of MIT Manipal, (Electronics and Communication Engineering, Batch of 1985) visited MIT on 13 March 2024.
- **Mr. Ravi Kumar Potluri**, Staff Engineer at Qualcomm and alumnus of MIT Manipal, (Mechatronics Engineering, Batch of 2010) visited MIT on 21 March 2024.
- **Mr. Montukumar D Makadia**, Technical Business Consultant at SFAL, Sr. Biz Consultant at LightSpeed AI LAB, VP at ELEKTROPOD and alumnus of MIT Manipal, (Electronics and Communication Engineering, Batch of 1993) visited MIT on 22 March 2024.
- **Mr. Amol Kamath**, Distribution Head at Amazon Fresh and alumnus of MIT Manipal, (Chemical Engineering, Batch of 2013) visited MIT on 26 March 2024.
- **Dr. Roshan Joy Martis**, Associate Professor at Global Academy of Technology, Bengaluru and alumnus of MIT Manipal, (Electronics and Communication Engineering, Batch of 2004 and M.Tech in DEAC, Batch of 2008) visited MIT on 28 March 2024.
- **Mr. Rohitraj Ray**, Full-time PhD scholar at Penn State University and alumnus of MIT Manipal, (Electronics and Communication Engineering, Batch of 2022) visited MIT on 30 March 2024.
- **Mr. Shreyas Sharma**, Cloud Developer at HPE, alumnus of MIT Manipal, (Computer Science and Engineering, Batch of 2019) visited MIT on 30 March 2024.
- **Mr. Varun Bhat**, Senior UI/UX Interaction Designer at Baker Hughes and alumnus of MIT Manipal, (Industrial Production, Batch of 2016) visited MIT on 30 March 2024.
- **Mr. Aravind Kumar Yadav**, Founder & CEO at Haveli Research and Development Pvt. Ltd and alumnus of MIT Manipal, (Aeronautical Engineering, Batch of 2016) visited MIT on 30 March 2024.

APPRECIATION OF SERVICE

MIT, Manipal recognizes the immense contribution of the following personalities who superannuated from service in this quarter.



Mr Nagesh Prabhu
Librarian Selection Grade
MIT Central Library
Date of Joining: 18-03-1993
Date of Superannuation: 29-02-2024

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Mr Raju N
Senior House Keeping Staff
SECURITY
Date of Joining: 10-07-2000
Date of Superannuation: 31-03-2024



Mr Madhava Achary
Senior Technician (Carpentry)
Department of AERO & AUTO ENGG.
Date of Joining: 14-11-1990
Date of Superannuation: 31-03-2024

VISION

Excellence in Technical Education through Research, Innovation and Teamwork.

MISSION

Educate students professionally to face societal challenges by providing a healthy learning environment grounded well in the principles of Engineering, Research, and Teamwork.

VALUES

*Discipline
Integrity and Trust
Holistic Learning
Ethics and Professionalism
Concern for Society and Environment*

GOAL

To be a world class technical institution fostering innovation, leadership and entrepreneurial spirit.



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