



FOCUS

MIT Newsletter | Issue : June 2023 | Volume: 2

RESEARCH DAY at MIT Manipal



Research Day was organised on 5 April 2023 at the institute as a new initiative to promote research among the MIT fraternity by providing a platform for researchers and scholars to present their groundbreaking work. The event was inaugurated by the Vice Chancellor, MAHE, Lt. Gen. (Dr.) M. D. Venkatesh. Cdr. (Dr.) Anil Rana, Director of MIT, who emphasized the significance of interdisciplinary research, and outlined the institute's strategic initiatives aimed at enhancing the research visibility. Dr. Ashok Rao, Associate Director of Research and Consultancy, MIT presented an overview of the events.

The highlight of the program was the invited talk by Dr. Rajeev Shorey, CEO of the University of Queensland-IIT Delhi Academy of Research (UQIDAR), IIT Delhi. Dr. Shorey focused on "Recent Investigations in Machine Learning and Edge Computing," and emphasized on the research challenges at the intersection of these two domains. He also delved into the Federated Learning paradigm within a faulty edge ecosystem, highlighting the need for innovative approaches to address this evolving field.

All eighteen departments of MIT participated in the event and showcased their research achievements over the past three years. The exhibits included informative flyers on major research domains, displays of developed products, and presentations on successful start-ups that emerged from research at MIT. Moreover, the event featured 110 poster presentations by second and third-year full-time PhD scholars. The exhibition also showcased the significant student projects undertaken at MIT.

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Annual NSS Camp and Environmental Day Celebrations

June 05 marked the annual celebration of World Environment Day, a global initiative aimed at raising awareness about environmental issues and promoting sustainable practices. This year, MIT collaborated with various stakeholders to organize a vibrant and impactful event to commemorate the occasion. The event, held at the Sir M V Seminar Hall, focused on the theme "Solution to plastic pollution," highlighting the urgent need to heal and revitalize ecosystems worldwide. The event coincided with the annual NSS Camp organised by MIT NSS units. During the inauguration of World Environment Day and NSS Annual Camp, distinguished guests including Cdr. (Dr.) Anil Rana, Director, MIT, Dr. Shankaranarayana Bhat, Associate



Director Faculty Development and Welfare, Mr. Dayanand Naik, Rotarian and NSS program officers, graced the event with their presence. Dr. Pooja Nag, Associate Professor, Department of Mechatronics commenced the program with an invocation. Dr. Balakrishna Maddodi Associate Professor Dept. of Civil Engineering welcomed the guests and participants. Dr. Poornima Bhagavat, Assistant Professor (Sr. Scale), Dept. of Chemistry delivered the vote of thanks, while Ms. Shivani coordinated the proceedings.

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“

It is my firm conviction that one man can only struggle, but it requires the co-operation of thousands to make his efforts succeed.

”

Dr. T. M. A. Pai

MANNUPALLA TO MANIPAL - AN EPIC SAGA



On the momentous occasion of Dr. T M A Pai's 125th birth anniversary, we proudly remember the visionary who transformed the lives of people in innumerable ways. Driven by boundless passion, he created Manipal's destiny into an oasis of erudition. The inception of Kasturba Medical College in 1953, resulted in a transformative revolution in medical education, particularly in the private sector. With fervent zeal, he nurtured a garden of learning, birthing institutions of brilliance in the region in all disciplines of education.

His legacy endures as an eternal flame, inspiring generations to soar on the wings of knowledge. Today, Manipal Academy of Higher Education stands tall, a testament to Dr. T M A Pai's visionary artistry, shaping futures and illuminating horizons.

We salute
revered Founder Dr. T M A Pai,
a beacon of everlasting inspiration to all of us...



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Editor's Musings

Dear Reader,

Greetings...!

The Editorial Board of FOCUS takes great pleasure in placing before you this issue of the Institute Newsletter capturing the highlights of the noteworthy events during the calendar quarter April-June 2023.

The life and achievements of our visionary founder Dr T. M. A. Pai will continue to inspire us for many generations to come. On the 30th of April 2023, the 125th Birth Anniversary of our revered founder was celebrated as the Founders' Day at MAHE and across its constituent units.

Although delayed by well over a fortnight, it is such a relief that the monsoon has finally arrived, and we hope to receive bountiful rains. The rainy season coincides with the arrival of a fresh batch of newly admitted UG and PG students who would be carrying forward the grand legacy of their senior batches. As we welcome the freshers, we wish the passing out batch a great and fruitful career ahead.

On the academic front, the institute has taken a big leap forward. Three new B.Tech. programs will be added from the academic year 2023-24, namely, B.Tech. in Mathematics and Computing, B.Tech. in Computer Science and Financial Technology, and B.Tech. in Electronics Engineering (VLSI Design and Technology).

We are happy to communicate that five of our PG programs received the NBA accreditation for three years i.e., up to the year 2026. They are: i) Computer Science & Engineering, ii) Structural Engineering, iii) Industrial Biotechnology, iv) Computer-Aided Analysis & Design, and v) Micro Electronics.

Further, the much-awaited International accreditation from the Institution of Engineering and Technology (IET) for 10 B.Tech. Programs is received for 3 years till 2025, with a back date from 2019 admission. In addition, 11 M.Tech. Programs received IET accreditation for 3 years till 2025, with a back date from 2020 admission.

With the new academic year due to begin during late July, the students and faculty would be returning from their vacations and the campus would soon be abuzz with exciting activities - both academic and non-academic. Team Focus will continue to capture all the action!

Happy Reading...!

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The valedictory function of Research day was graced by Dr. Narayana Sabhahit, Pro Vice Chancellor of Technology & Science at MAHE. Awards to recognize and celebrate the collective efforts of researchers were distributed during the event. The list of awards is given below:

1) Best Research Performance-PhD student:

1st position: Ms. Kashmitha Muthamma, Department of Chemistry

Runner-up position: Mr. Praveen, Department of Electronics and Communication Engineering

2) Best Researcher Award-Faculty:

1st position: Dr. Raja S, Department of Chemical Engineering

Runner-up position: Dr. Tanweer Ali, Department of Electronics and Communication Engineering

3) Excellent Research Performance -Department

1st position: Department of Physics

Runner-up position: Department of Chemistry

4) Best poster - 2nd year PhD research scholars

1st position: Mr. Anubhav Kumar Pandey, Department of Electrical & Electronics Engineering

Runner-up position: Mr. D Srinivas, Department of Mechanical & Industrial Engineering

5) Best poster - 3rd year PhD research scholars

1st position: Ms. Kashmitha Muthamma, Department of Chemistry

Runner-up position: Mr. Praveen, Department of Electronics and Communication Engineering

6) Best Research Exhibition- Department

1st position: Department of Information and Communication Technology

Runner-up position: Department of Aeronautical and Automobile Engineering



Annual NSS Camp and Environmental Day Celebrations *(continued from cover page)*

Exhibitions and displays showcased sustainable practices such as recycling, composting, renewable energy, and water conservation. Additionally, a quiz session was held for schoolchildren, fostering awareness about water usage, climate change, plantation, and the 5Rs (Reduce, Reuse, Recycle, Rethink, and Refuse).

Renowned environmentalists, scientists, and community leaders were invited as guest speakers, delivering inspiring speeches on ecosystem restoration, climate change mitigation, and the role of individuals and communities in effecting positive change. Cdr. (Dr.) Anil Rana discussed plastic usage and its adverse effects, Dr. Chytra shared dos and don'ts for protecting the planet through the 4Rs (Reduce, Reuse, Recycle, and Recover), Rotarian Dayanand Naik addressed water conservation, Dr. Narayana Shenoy, former HoD Department of Civil Engineering, interacted with schoolchildren to raise awareness about water usage, Dr. Anish spoke about plastic pollution and microplastics, and Dr. Murthy Dharmapura shed light on hydrogen fuel for sustainability.



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Workshops and activities engaged participants in meaningful ways. Tree plantation drives were carried out within the park, with students and volunteers actively participating to enhance the green cover and promote reforestation efforts. A community clean-up drive encouraged attendees to collect and properly dispose of litter, emphasizing waste management and the impact of plastic pollution on ecosystems.



A prominent pledge wall invited attendees to commit to specific actions for restoring and protecting the environment. Enthusiastically, people wrote down their pledges, fostering a sense of personal responsibility and collective action.

WOMEN IN MATHEMATICS DAY

The Department of Mathematics at Manipal Institute of Technology (MIT) hosted a special event, Women in Mathematics Day on 12 May 2023 to celebrate the remarkable achievements of women in the field of mathematics. Aligned with the global commemoration of female mathematicians, the event honored the memory of the renowned Fields Medallist, Professor Maryam Mirzakhani. It also aligned with the themes of G20, W20, and the institute's Innovation Council (IIC).

The inauguration ceremony was graced by Prof. Uttara V Naik Nimbalkar, a retired professor from Savitribai Phule Pune University, Dr. Geetha M, Director of Student Affairs at MAHE, and Cdr. (Dr.) Anil Rana, Director MIT. The speakers emphasized the importance of women's participation in STEM education. The valedictory function was attended by Ms. Shyamala S Kunder, former member of the National Commission for Women, and presided over by Dr. Somashekara Bhat, Joint Director of MIT. Dr. Vinod V Thomas, Registrar Evaluation, MAHE was the Guest of Honour.

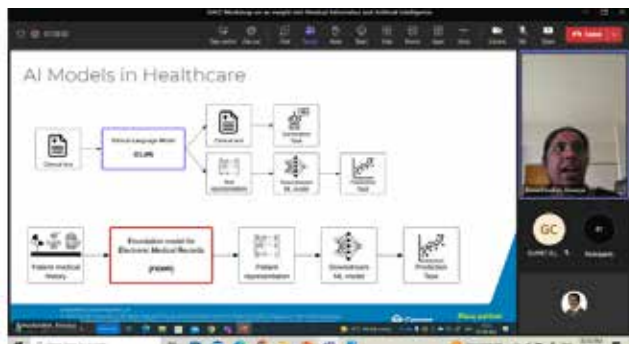


Over 140 students from nearby colleges participated in the event, engaging in a range of activities organized by the Department of Mathematics. These activities included Poster Presentations, Mathematical Rangoli, and Quiz competitions. Additionally, the event provided an opportunity to recognize and honor the outstanding contributions of Ms. Nirmala Kumari from Boscoss PU College, Mangaluru, who has played a significant role in encouraging slow learners to pursue mathematics. She was felicitated during the valedictory function for her dedication and efforts.

WORKSHOP ON “AN INSIGHT INTO MEDICAL INFORMATICS AND ARTIFICIAL INTELLIGENCE”

The Department of Computer Science Engineering and the Department of Biomedical Engineering at MIT, MAHE, jointly organized a three-day online workshop (6-8 April 2023) aimed at exploring the latest advancements in medical informatics and artificial intelligence. The workshop witnessed the participation of renowned industry professionals and experts, who shared their knowledge and experiences with over 50 participants.

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On April 6, 2023, the workshop commenced with a session titled “A Deep multi-layered neural network exploring open-source data for predicting clinical outcomes” by Dr. Wasimakram Binnal, PhD, Senior Manager Data Science Health Network Consulting at Cerner Corporation. Dr. Binnal shared his extensive experience in utilizing deep learning techniques and addressed the challenges of analyzing COVID-19 patient data. He also demonstrated the use of Python code for handling Deep Learning (DL) and Long Short-Term Memory (LSTM) models to solve such data-related problems. Dr. G M Bairy, Head of the Department of Biomedical Engineering, welcomed the guest and participants and Dr. Krishnamoorthy Makkithaya, Head of the Department of Computer Science Engineering, briefed the participants on the workshop's benefits.

The second day of the workshop on April 7, 2023, featured a session on “The Impact of Large Language Models in Healthcare” by Ms. Aiswarya Ramachandran, Lead Data Analyst at Cerner Corporation. Ms. Aishwarya provided insights into the development of natural language-based applications and presented a compelling case study in this field.

Dr. Srikanth Prabhu, Additional Professor at MIT, MAHE, shared valuable insights into the challenges and applications of artificial intelligence in healthcare on the final day. Additionally, Krishnaraja Chadaga, Research Scholar MIT, conducted a demonstration on Explainable AI (XAI), emphasizing the importance of making AI models more interpretable and meaningful.

The workshop was convened by Dr. Niranjana S, Additional Professor in the Department of Biomedical Engineering, and Dr. Srikanth Prabhu from the Department of Computer Science Engineering.

Model Based Systems Engineering (MBSE) Summit -2023

ISSE Manipal Chapter, Department of Instrumentation and Control Engineering collaborated with INCOSE India Chapter, AeSI -Design Division and IEEE Systems Council Bangalore Section Chapter in organizing third Model Based Systems Engineering (MBSE) Summit -2023 during 25-26 May 2023. Padmashree awardee Dr. Kota Harinarayana, SERB Distinguished Fellow, CSIR-NAL & Chairman DD-AeSI, made opening remarks and highlighted the importance of MBSE and its scope in



complex systems design with time and cost optimality with high performance. Following this Christopher D. Hoffman, Leader, Future of Systems Engineering Methodologies stream for INCOSE delivered a talk on Future system engineering methodologies. Dr. Umut Durak, Group Leader - Avionics Systems, Institute of Flight Systems (DLR) shared his thoughts on Model-Based Safety Engineering for Avionics Systems. Mudit Mittal, President - INCOSE India Chapter, Technical Director - BlueKei Solutions in his talk highlighted Digital Engineering, SE to MBSE and Beyond with relevant examples in Indian and international Scenario. The final talk of the day was delivered

by Dr. Ramakrishnan Raman, Fellow at Honeywell Aerospace. He deliberated on Modeling Complex Systems: Steering the Complexity. The day one ended with a panel discussion which was moderated by Stueti Gupta, and Prem Andrade. Stehpane Lacame, Gaurav Dubey from Mathworks, Kiran Jacob, Dr. Sridhar from IIT Tirupati were the panelists.

Team from Department of Instrumentation and Control Engineering including Dr. Shreesha C, HoD, Dr. Meenatchi S. Sundaram, Additional Professor, Dr. Vidya S Rao, Associate Professor, Dr. Cyril Joseph Assistant Professor Selection Grade and PG students, Ms. Dephney and Ms. Tushara along with research scholar Mr David John coordinated the event.



The event also witnessed a series of lectures by eminent personalities from the domain. Dr. Mahmoud Efatmaneshnik University of South Australia, delivered lecture on Systems Engineering. Ms. Stueti Gupta presented a talk on Maximizing the value of MBSE adoption. Dr. Natasha Shevchenko presented the cyber threat modelling in line with MBSE. Dr. Manju Nanda from National Aeronautical Laboratory presented how MBSE has been adopted at their organization and the concept to realization roadmap on model based certification. Mr. Fatih Erkan, Sr. Lead Systems/Solution Architect, MBSE Lead Consultant - Philips shared his thoughts on similarities and differences on MBSE challenges in various domains. Finally, Dr. Yogananda Jeppu, Fellow at Honeywell spoke about INCOSE India chapter role on spreading awareness and providing training through lectures and academic programs in Indian Scenario. He concluded the Summit by acknowledging the contributions of all the stakeholders including MIT, Manipal and extended invitation to the participants for the next MBSE Summit in the year 2024.

Ocular Tribology Group at MAHE organizes Workshop on Digital Image Correlation



The Ocular Tribology Group at Manipal Academy of Higher Education (MAHE) organized a One-Day hands-on workshop on Digital Image Correlation (DIC) on 15 March 2023. Following the workshop, two days of intensive training were conducted for faculty members and research scholars from MAHE and neighboring institutions. Pyroynamics Bangalore, an authorized dealer of Correlated Solutions Inc., USA, provided expert guidance during the workshop.

Tribology, the study of friction, wear, and lubrication of interacting surfaces in relative motion, has gained significant relevance in various modern applications. The principles of Tribology and its design benefits are revolutionizing fields such as biomedical engineering, nanotechnology, and alternative energies. The application of Tribology in biological systems, in particular, is rapidly expanding beyond conventional boundaries. The workshop held in this context aimed at providing hands-on experience in the domain to a group of 20 participants. Educators and researchers from educational institutions across the South Canara region actively participated in the workshop. Mr. Abhishek, CEO of Pyroynamics Bangalore, skillfully conducted the sessions. The workshop

served as a platform to highlight the practical applications of Tribology in cutting-edge technologies.

The Ocular Tribology Group at MAHE is an inter-disciplinary research team comprising faculty members from technical and medical domains, including Mechanical & Industrial Engineering, Instrumentation, Optometry, and Ophthalmology. Led by Prof. Dr. B. Raghuvir Pai from the Mechanical & Industrial Engg. Department of MIT, the group focuses on addressing contact lens discomfort and quantifying the Coefficient of Friction between the Eye and Eyelid. Distinguished researchers, such as Dr. Ramesh from the Department of Optometry at MCHP, Dr. Manali Hazarika from the Department of Ophthalmology at KMC, Dr. Abdul Khader and Dr. Girish from the Mechanical Department at MIT, and Dr. S. Meenatchi Sundaram from the Department of Instrumentation and Control Engineering at MIT, contribute their expertise to the group's endeavors. Numerous postgraduate and undergraduate students from collaborating departments have also made significant contributions to the group's ongoing research, resulting in the filing of two patents to date.



Workshop On Natural Circulation Loops - Theory & Applications



The Department of Mechanical & Industrial Engineering, MIT organized a One-Day workshop on “Natural Circulation Loops - Theory and Applications” on 26 April 2023 with an objective of raising awareness about the indispensability and advantages of renewable energy and sustainable technologies. The workshop was sponsored by the Department of Science and Technology, New Delhi. Researchers from various IITs and other institutes were invited to deliver lectures on pertinent topics within the allied field. Dr. P K Vijayan, Professor at IIT Jammu, and Dr. Sathyashankara Sharma, Head of the Department of Mechanical & Industrial Engineering at MIT, graced the inaugural function.

Dr. Arunachala U Chandavar, Professor and Convenor of the workshop, highlighted the significance of the event, while Dr. Madhwesh N, Associate Professor and Co-convenor, facilitated the proceedings. The workshop witnessed enthusiastic participation of over twenty-five attendees hailing from neighboring districts and other states.

FDP On Outcome Based Education

The Electrical and Electronics Department, MIT organized a Faculty Development Program on OBE: Course and Program Articulation Matrix on 22 May 2023. The event was inaugurated by Cdr. (Dr.) Anil Rana, Director of MIT. He emphasized the importance of Outcome-Based Education (OBE) and its role in shaping a holistic learning experience for students in his inaugural address. Dr. Somashekara Bhat, Joint Director, enlightened the attendees on the accreditation process and role of faculty members in driving quality. Dr. Chandrashekara Adiga, Head of the Electrical and Electronics Department, shared his views on the significance of refining course outcomes in the context of 2022 curriculum.



Following the inauguration, Dr. Srividya, the department's NBA coordinator, delivered a concise presentation on the guidelines for writing course outcomes and mapping them with Program Outcomes (PO). The session aimed to equip the faculty members with the necessary tools and knowledge to create effective course outcomes. Subsequently, a hands-on training session was conducted to facilitate the faculty members to frame the course outcomes.

MIT-NSS-UNIT creates voters' awareness among public

In a bid to promote voter awareness and literacy, the Udupi District administration, headed by Sri Kurma Rao Deputy Commissioner Udupi and Zilla Panchayath CEO Sri Prasanna, extended an invitation to the NSS Unit of MIT, MAHE. The student volunteers of the institute took part in the SVEEP Program (Systematic Voters' Education and Electoral Participation).

At Malpe beach, 25 enthusiastic NSS volunteers showcased their talents to educate and remind people about the power of their vote. The volunteers delivered a powerful message through two mesmerizing dance performances and an engaging skit. The performances urged the public to exercise their democratic rights and vote conscientiously. This event took place in preparation for the voting day for Karnataka Assembly elections on 10 May 2023. Numerous college students from Udupi district also showcased their talents during the SVEEP program. The skits and dance performances received high praise from Sri Kurma Rao, IAS, Deputy Commissioner of Udupi, and Sri Prasanna Kumar, CEO of Zilla Panchayat, Udupi.

The combined efforts of the Udupi District administration, MIT MAHE NSS Unit, and the engaged audience ensured a resounding message of voter responsibility and democratic participation. The district administration awarded the NSS units with a trophy, certificate, and felicitated the team for their remarkable efforts.

The NSS unit worked under the guidance of Cdr. (Dr.) Anil Rana, Director MIT, Dr. Somashekara Bhat, Joint Director MIT, NSS program officers Dr Balakrishna Maddodi, Dr. Asha C S, Dr. Lakshman Rao P, and Dr. Poornima Bhagavath.



World Bicycle Day - 2023

National Service Scheme (NSS) Units of MIT and Student Council MIT in association with Udupi District Surveillance Unit and NCD Cell Udupi, successfully organized World Bicycle Day 2023 at the MIT Campus on 31 May 2023. Dr. M V Kini, AD-IL, P&PS of MIT, inaugurated the "Cycle for Health"

initiative and advised students to prioritize cycling for their physical fitness. Dr. Chythra R Rao, Additional Professor, Department of Community Medicine, KMC, Manipal, encouraged youth to lead healthy life by regular bicycle riding. Dr. Poornima Kundapur, Associate Director of Student Welfare, highlighted the benefits of cycling. Dr. Ashok Rao, Associate Director (R&C) flagged off the event. Dr. Balakrishna Maddodi,



NSS officer, made the opening remarks and Dr. Lakshman Rao P. delivered the vote of thanks. Dr. Poornima Bhagavath and Dr. Asha C S., the faculty coordinators of NSS Units and several enthusiastic participants graced the occasion.

Campus Visit by Prospective Students and Parents

Students aspiring of getting admission to MIT, Manipal for the academic year 2023-24 visited the campus along with their parents. They explored the green, clean, vast campus comprising state-of-the-art labs, innovation and research facilities



and infrastructure through an organized campus tour during 19 June- 15 July 2023. The programme was coordinated by Dr V Ramachandra Murty, Associate Director-Development, Prof. Nagaraj Upadhyaya and Mr Ganesh Nayak (Student Projects). The visitors were given the necessary details about the institution, curriculum and facilities through a formal presentation. The Director of MIT, Cdr (Dr) Anil Rana and the Joint Director, Dr Somashekhar Bhat engaged the interactive sessions and addressed their queries. Prospective students and parents expressed their deep satisfaction after going through the presentations and visits to the facilities.

The program was facilitated to enable the prospective students and parents to have an opportunity to visit the campus and see it for themselves before deciding to join the institute.

MoU with SCL Chandigarh to Catalyse Electronics Manufacturing and Innovation Ecosystem.

Manipal Academy of Higher Education (MAHE), Manipal and Semiconductor Laboratory (SCL), Ministry of Electronics & Information Technology (MeitY), Government of India signed a Memorandum of Understanding (MOU) to establish a thriving semiconductor and display design and innovation environment that will enable India to become a major worldwide centre for electronics manufacturing and design. The MoU was signed by Commander (Dr) Anil Rana, Director, and Mr Vikas Trikha, Director of Semiconductor Laboratory (SCL), Mohali. The signing ceremony took place on May 17, 2023, at Mohali.



With Manipal Institute of Technology, Manipal launching the B. Tech Program in VLSI Design and Technology in the academic year (2023-2024), this MoU will play an important role for

preparing skilled graduates for the semiconductor industry in accordance with the objectives laid out in India Semiconductor Mission. The joint program will offer opportunities to students in the form of internships and specially designed coursework. The program will also focus on providing unique learning experiences in cutting-edge Microelectronics and VLSI technologies.

Other dignitaries present during the occasion were Mr. Vikas Trikha, Director, Semiconductor Laboratory, Mohali, Professor (Dr.) Shounak De, Associate Professor-Senior Scale Professor, MIT, Manipal, Dr. Tanweer, Associate Professor, MIT, Manipal, and Dr. Manish Hooda, Head Technology Development Division at Semi-Conductor Laboratory Department of Space Govt of India along with others.

PING 2.0.2.3 held in ICT Department

The annual workshop of the ICT Department held in, PING 2.0.2.3, titled "IEEE Sustainable Development Platform Next Gen Tech powered by AI," was held on 24th and 25th March 2023. The workshop took place in a hybrid mode and was organized in collaboration with Deutsche Bank, Bangalore. The event featured distinguished resource persons from various domains to shed light on the IEEE platform for advancing Sustainable Development Goals (SDGs). Additionally, insights into the cYAAG's triple impact initiatives and the management of environmental, social, and governance (ESG) data were presented.



The workshop was graced by Mr. Gautham Bhat - Head of Cloud Architecture and Artificial Intelligence Group, Mr. Kiran Puthukudy - Senior Cloud Architect, Mr. Sudhir Mahale - Lead of Cloud and AI Architecture, Mr. Gautam Bhat - Customer Success Manager - Architect IBM. Mr. Gautam Bhat and Mr. Kiran Puthukudy provided insights into the publisher-subscriber architecture, followed by a demonstration of Cloud Hyperscaler-AWS. This segment aimed to deepen participants' understanding of cutting-edge cloud technologies. Mr. Sudhir Mahale briefed on use case: Tokenomics, which explained how AI and NLP can be used for ensuring sustainable provenance of the ESG impacts. Dr. Preetham Kumar and Dr. Veena Mayya Faculty, ICT were the conveners of the workshop.

Nationwide hackathon KAVACH-2023 held at MIT Manipal

The KAVACH-2023, a nationwide hackathon was co-organized by the MoE's Innovation Cell, AICTE, the Bureau of Police Research and Development (BPR&D, MHA), and the Indian Cyber Crime Coordination Centre (I4C, MHA). KAVACH-2023 was an exceptional chance for higher education students and startups in India to contribute their creative concepts and ideas to address the challenges of cyber security. To nominate the top ten teams to participate in the final KAVACH 2023, on April 1st, 2023, Manipal Institute of Technology in collaboration with the MAHE-ISAC Center of Excellence for Cyber Security conducted a 12-hour internal hackathon.



The event hosted 22 student teams of MIT of six members each, involving at least one female member. The hackathon was inaugurated by Cdr. (Dr.) Anil Rana, Director, Manipal Institute of Technology, Manipal. The teams were evaluated by 8 panel members where each panel having experts in the field including Dr. Mamatha Balachandra, Dr. Renuka A, Dr. Radhakrishna Bhat from Computer Science and Engineering Department. After careful evaluation, ten teams were selected to participate in the final KAVACH competition.

Four faculty members from MIT participated in a training program at VOLVO Bengaluru

Four faculty members from MIT Manipal, Dr. Narendra V G, Professor & Dr. Ahamed Shafeeq B M, Assistant Professor - Selection Grade from Department of Computer Science and Engineering, Prof. Vijay S R, Assistant Professor - Selection Grade from Department of Electronics & Communication Engineering and Dr. Omkar S Powar, Assistant Professor from Department of Biomedical Engineering participated in a four-week training program on "Capability Enhancement for Faculty Members" organized by Volvo Group at Bagmane Tech Park in Bengaluru.

The program was an initiative from the VOLVO Group India Pvt Ltd, to bridge the skill gap between industry and university across India and took place from 07 to 30 June 2023. Several technical sessions were conducted, focusing on the latest technologies employed in industries such as DevSecOps, Hyper-automation, Chatbot applications, automated testing and autonomous solutions. The faculty members also had an opportunity to attend technical sessions on Data Engineering, Robotic Process Automation, ERP, C# and .NET Technologies, JAVA, Machine Learning and application, and Computer Vision application.

In the division of embedded systems, participants were introduced to testing and development programs designed to run on ECUs, along with a walk through in HIL testing. Further, discussions were held on signal acquisition, signal conditioning and signal processing with engineers at Power Train - Advanced analytics team of Volvo group.

During the program, the faculty members from MIT had an opportunity to get the curriculum reviewed by the Volvo team and received valuable suggestions to add a few modules that are aligned with their requirements. Moreover, there were discussions on plausible initiatives on R&D activities supported by VOLVO. The VOLVO Group India Pvt Ltd, is already supporting MIT with placement and internship opportunities.



International Yoga Day held at MIT Manipal

International Yoga Day Celebration was organised at the institute on June 21 with a view to promote physical and mental well-being of the members through the practice of yoga. It was organized by NSS Unit I & II, Manipal Institute of Technology, Manipal. The event commenced with an opening ceremony that included a brief introduction to the history and significance of Yoga Day. Dr. Balakrishna Maddodi, Associate Professor, Dept. of Civil Engineering welcomed the guest and participants. Cdr. (Dr.) Anil Rana, Director, MIT Manipal addressed students to practice yoga for reducing stress,



anxiety, and for improving the physical health. Dr. Somashekhara Bhat, Joint Director, MIT Manipal delivered the closing remarks highlighting how it should inspire them to incorporate yoga into their daily routines. Ms. Deepa Gowda, yoga instructor delivered an inspiring speech. Ms. Shivani introduced the guest yoga instructor to the audience. Dr. Poornima Bhagwat delivered vote of thanks.

The event succeeded in raising awareness about the benefits of yoga, inspiring participants to embrace yoga as a means of achieving holistic wellness. By providing a platform for individuals to connect, learn, and experience the transformative power of yoga, the event left a lasting impact on the participants, encouraging them to continue their yoga journey and spread the message of health and mindfulness to others in the community.

Har Ghar Dhyam Program held at MIT Manipal

Under the Aegis Azadi Ka Amrit Mahotsav (AKAM), Ministry of Culture, Govt. of India “Har Ghar Dhyam” (HGD), a one hour session was organized at MIT, MAHE, Manipal on Tuesday, 04 April 2023 by the Office of Associate Director (FD&W). Mr. Prashanth V Pai, Faculty, Art of Living, Bangalore, facilitated the introductory meditation session. He explained the purpose of Har Ghar Dhyam initiative, importance of mental health and relaxation in the current scenario. Highlighting the harmful effects of stress on mind, body and its impact in our working environment and personal relations, he narrated the importance of meditation practices for improved wellness as well as for improved productivity.



In addition, he said that this campaign should reach out to masses and youth so that more and more people will practice meditation and enjoy good health. He mentioned that Har Ghar Dhyam campaign will act as a medium for guiding people toward a healthy lifestyle and will encourage them to take up meditation as a regular practice. He pointed out that the status of mind is the most powerful tool to handle any kind of stress in life.

Dr. S.N.Bhat, Associate Director (FD&W) welcomed and introduced the resource person in the beginning and delivered the vote of thanks on conclusion of the program. About fifty faculty, Staff and students of MIT participated enthusiastically in the event.

Guest Talk in Department of Instrumentation and Control Engineering



As part of IAC activity of the course Industrial Automation (ICE 3252), Department of ICE organised a guest lecture on the topic of Distributed Control Systems for VI semester B.Tech, E&I students on April 29, 2023. The resource person was Mr. M. Bala Sai Krishna, Sr. Software Test Engineer, Siemens, Bengaluru. He explained the salient features of DCS in terms of its hardware and software components. The types of protocols used in industries for communicating with PLCs and DCS such as fieldbus, HART, Modbus, and Profibus were discussed.

Talk by adjunct faculty to students of Embedded Control Systems and Avionics

As an adjunct faculty engagement, Dr. Yogananda Jeppu delivered two talks with hands-on training to PG students of Embedded Control Systems and Avionics in the Department of Instrumentation and Control Engineering. On April 5, he delivered a talk on Model-based system engineering and safety analysis. During the talk, he stressed the importance of model-based systems engineering concepts in designing complex systems to meet the requirements and provide necessary safety and performance. He also introduced the tools available in this connection and familiarised the participants with the same.



On April 6, 2023, Dr. Jeppu delivered a talk titled, Safety critical control systems-algorithms. In this talk he elaborated on the development of safety-critical control algorithms starting with basic PID controllers with various aspects to incorporate safety in the control system performance.

Guest Lecture on Functional Organic-Inorganic Hybrid Materials for the Energy and Invisibility Concerns

Department of Chemistry, MIT, Manipal organized a Guest Lecture entitled, "Functional Organic-Inorganic Hybrid Materials for the Energy and Invisibility Concerns" on 8 April, 2023 in Sir M. V. Seminar Hall, MIT, Manipal. Prof. C. V. Yelamaggad,



Scientist-F, Centre for Nano and Soft Matter Sciences (CeNS), Bengaluru and Adjunct Faculty of MAHE delivered the lecture that focused on present challenges in Science and Technology viz., potable water, food crisis, shelter, health, safety, energy, pollution, climate change and global warming and natural and animal conservation. He emphasized on the growing applications of coordination polymers for energy storage, catalysis, sensing, separation and for electrical & magnetic applications. The event was attended by postgraduate (M.Sc./M.Tech.) students, research scholars and faculty members. Dr. Somasekhara Bhat, Joint Director, MIT presented the memento to the speaker during

the concluding remarks. Prof. Dr. Suma A. Rao, Head of the Department Chemistry, MIT delivered the vote of thanks and Dr. Maddasani Srinivasulu coordinated the event.

Himalayan Bicycle expedition

The Centre of Outdoor Studies headed by Mr. Ganesh Nayak, Assistant Professor - Senior Scale, Department of Instrumentation & Control Engineering successfully completed the first Himalayan Bicycle Expedition from MIT, Manipal of cycling the Zanskar Valley. The team cycled a total of 500 kms from Srinagar to Manali over 14 days from 10th June- 24th June reaching a maximum altitude of 5053m above sea level.



The team involved Jordan Kuruvilla, Harsh B Patil, Humesh S, Shravya Pare, Piyush Nahar, Nakshatra B. The team cycled through places like the Zoji La pass which is one of the toughest roads in the world. The activity was designed and coordinated by Mr. Ganesh Nayak, Assistant Professor - Senior Scale, Department of Instrumentation and Control Engineering.

Guest Talk in the Department of Electronics and Communication Engineering

Dr. Himanshu Tagra, Vice President of HCL Technologies delivered two lectures on the topic “Industrial Applications of Segmentation and Classification Techniques” on 03 -04 April 2023 in the Department of Electronics and Communication Engineering. Dr. Himanshu Tagra is an alumnus of MIT Manipal (E&C 1996 batch) and is currently serves as an adjunct faculty to the department. He has expertise in formulating and realizing next generation business strategy for the organization through seeding of new upcoming technology and functional business areas. Currently Dr. Himanshu Tagra is running a 100M business with a team of around 2000 engineers spread across 10 different countries. His responsibilities include P&L ownership, Business Development and Growth, managing business relationships, Leadership development, Team Alignment and Motivation, Strategy Planning and implementation. Dr. Anu Shaju Areeckal, Assistant Professor, Dept. of Electronics and Communication Engineering organized the event.



Guest Lectures in Civil Department

Dr. Rahul Mohan, Scientist ‘F’ and Group Director, National Centre for Polar and Ocean Research, Ministry of Earth Sciences, Government of India, delivered a public lecture titled “Climate Change: Signs of Unease in the Polar Regions” on 02 March 2023 at the MIT-KEF auditorium. The talk was attended by students of MSc Geology, post-doctoral and Ph D researchers, and faculty members of MIT and ICAS.



Prof. Manmohan Sarin, FASc, FNA, FNASc, DST-SERB Distinguished Fellow, Geosciences Division, Physical Research Laboratory (Unit of Dept. of Space), Ahmedabad, delivered a public lecture titled “Ocean Acidification” on 14 March 2023 at the MIT-KEF auditorium. The talk was attended by students of MSc Geology, post-doctoral and Ph D researchers and faculty members of MIT and KMC.



Train the Trainer Programme on IOT/SCADA security

Three day Train the Trainer Programme was conducted from 22 - 24 May 2023 at MAHE-ISAC CoE for Cybersecurity, MIT, MAHE. The training programme was inaugurated by Cdr. (Dr.) Anil Rana, Director, MIT, Manipal. Mr. Rajashekar P, Founder Director, ISAC and Group Captain Ananda Naidu, Director, ISAC graced the occasion. The dignitaries stressed upon the importance of cybersecurity in protecting critical data of organizations and individuals in the emerging global scenario. They emphasized the role of MAHE-ISAC CoE for Cybersecurity in capacity building and meeting the human resource requirement in the domain. Dr. Balachandra, Professor, Dept of Information and Communication Technology, MIT, Manipal and Coordinator, MAHE-ISAC CoE for Cybersecurity welcomed the guests and participants. Dr. Yashwanth N, Asst. Professor-Senior Scale, Dept of Electronics and Communication Engineering, and co-cordinator, MAHE-ISAC CoE for Cybersecurity, facilitated the event and Mr. Akshay K C, Assistant Professor Senior Scale, Dept of Information and Communication Technology proposed vote of thanks.

In the three days of training programme, participants were given insights into the probable cyber attack scenarios related to various civilian establishments and gained knowledge on IOT/SCADA security, in terms both theory and practical through simulations.



Guest Lecture in Computer Science Department

The Department of Computer Science & Engineering, MIT Manipal in association with NXP Semiconductors organized a guest lecture titled “CMOS Design Libraries/DDK/PDK” on 04 April 2023. Ms. Vandana Narula, PDK SW1 Manager and Mr. Pramod Gayakwad, Principal Engineer both from NXP Semiconductor were the resource persons. Around 250 participants including 77 from MIT Manipal attended the program.



Enriching Institute Leadership Dimensions



Dr. Santhosha Rao is appointed as CEO of Manipal Universal Technology Business Incubator (MUTBI) for 2 Years from 15 June 2023



The tenure of Dr. Vinod V Thomas, Registrar Evaluation, MAHE, Manipal is extended for 2 years from 01 Aug 2023.



The tenure of Dr. Geetha Maiya, Director, Student Affairs MAHE is extended for a period of two years from 05 March 2023



The tenure of Dr. V Ramachandra Murty, Associate Director (Development) is extended for two years from 01 September 2023.



The tenure of Dr. Muralidhar Bairy, Additional Professor and Head of the Department of Biomedical Engineering, is extended for 1 year from 01 June 2023.



The tenure of Dr. Asish Ommen Mathew, Assistant Director (Industrial Liaison, Placement and Practice school) is extended for 1 year from May 2023.



The tenure of Dr. Raghavendra Holla, Assistant Director (Development) is extended for one more year from 11 June 2023.

Dr. Promod Kumar Shetty, Additional Professor in Physics is appointed as Assistant Director (Quality Assurance) for a period of one year from 02 May 2023.



The tenure of Dr. Somashekara Bhat, Joint Director, MIT, Manipal is extended for a period of 2 years from 26 June 2023.



The tenure of Dr. Preetham Kumar, Deputy Registrar, Academics (Technical) is extended for one more year from 01 March 2023.



The tenure of Dr. Sathya Shankar Sharma, Senior Professor and Head of the Department, Mechanical & Industrial Engineering is extended till 31 May 2024.



The tenure of Dr. Suchetha Kolekar, Assistant Director (Innovation & Incubation) is extended for 1 year from 11 June 2023.



The tenure of Mr. Vinod Kamath, Assistant Director (Alumni, Public & International Relations) is extended for 1 Year from 02 May 2023.



Faculty Achievements

Dr. Anish Kumar Warriar, Associate Professor, Department of Civil Engineering and Coordinator, Centre for Climate Studies, is awarded with a Travel Grant of Euros 1630 by the International Union for Quaternary Research (INQUA). The grant supports Dr. Warriar to participate and present his research paper titled “Paleomonsoon variability of the past 2000 years - a high-resolution record from a coastal lake in Southern India” at the INQUA 2023 Congress, which will be held in Rome, Italy during 14-20 July 2023.



Dr. Anish Kumar Warriar has been selected as a Member of the Scientific Programme Committee for the National Conference on Polar Sciences (NCPs-2023) to be held during 16-19 May 2023, in Goa. The conference is organised by the National Centre for Polar and Ocean Research, Ministry of Earth Sciences, Government of India.



Dr. Balakrishna Maddodi, Associate Professor, Civil Engineering was awarded **KANNADA PAYASWANI AWARD** for his dedicated work in the field of Education- Environment - Social Service by Sitamma Pursha Nayak Memorial Kannada Bhavan and Library (R) Nullipady Kasargod.

Dr. Praveen Shetty, Assistant Professor- Selection Grade, Dept. of Humanities & Management, MIT, Manipal and Coordinator of the Centre for Intercultural Studies and Dialogue at Manipal Academy of Higher Education received a Citation Award from The Consortium for Educational Communication (CEC) - University Grants Commission (UGC) for one of the video documentaries produced by the Centre for Intercultural Studies and Dialogue (CISD), MAHE. He received the Best Script Writing Award for the educational documentary- *Yakshagana*. It is a part of the project *Discerning India: Living Cultures of Tulunadu* carried out by CISD, MAHE. The project has developed an Online Certificate Course under MAHE titled ‘Living Cultures of Tulunadu.’ The video documentary on *Yakshagana* was one among the top 20 educational video documentaries selected out of the 194 submissions to CEC-UGC. It was screened along with the other awarded documentaries at the Educational Film Festival held during 27- 29 April 2023 at Osmania University, Hyderabad.



Dr. Vivekanand Bhat, Additional Professor, Department of Computer Science and Engineering received Grant credits for \$27384 USD from Ministry of Electronics and Information Technology (MeitY) for his project proposal titled- ‘Detection of Cardiovascular Diseases in ECG Images Using Hybrid Quantum Convolution Neural Network Model’ under Quantum Computing Applications Lab (QCAL) MeitY, Government of India. The duration of this project is 24 months. His team aims to utilize these credits to access quantum computing facilities through AWS cloud.



Dr. Narendra Khatri, Assistant Professor, Department of Mechatronics, MIT Manipal published a research article titled, “Computational fluid dynamics modelling of primary sludge classification in an activated sludge process-based wastewater treatment plant: Simulating the hydrodynamic behaviour and experimental verification of the classification efficiency” in Chemical Engineering Journal, Elsevier. It is a Q1 Journal with the Impact Factor of 16.744 and figures in the top 1 % in Scopus.



Dr. Sarika Verma, Assistant Professor Senior Scale, Department of Mathematics, has secured a grant of Rs. 16 lakhs for her project titled “Zeros of Some Complex Harmonic Polynomials” under the State University Research Excellence scheme (SERB-SURE). The Science and Engineering Research Board (SERB) has granted funding for the three years project.



Dr Dasharathraj K Shetty, Associate Professor, Department of DSCA, MIT, Manipal delivered the following talks:

- a talk titled “Future of Work -Automation, Gig Economy, Entrepreneurship” at GEMS Cambridge International School - Dubai.
- a guest lecture at the MAHE Dubai School of Engineering & Information Technology students on Design Thinking.
- a talk titled “Future of Work - Automation, Gig Economy, Entrepreneurship” to 140+ School Counsellors from across India. This talk was organised as a partner of PROGRESS (Professional Guidance Resource for Strengthening Schools) and Transacting Transition program by MAHE in association with ICTRC



Dr. Shetty chaired a session in SAMAROH-2023- A Two-Day National Conference on Business Management and Social Innovation. The Conference was organised by SSIM, Hyderabad, in association with the All Indian Management Schools Association.



Mr. Ganesh Nayak, Assistant Professor - Senior Scale, Department of Instrumentation & Control Engineering, delivered an inspiring talk titled “Pedaling to Peak: First Team of Indian Students Pushing Boundaries on a Himalayan Cycling Expedition” at the GenWise Summer

Program on 17 May 2023. The program, which commenced on 07 May at MIT, focused on over 120 school students spanning grades 6-12.



Ms. Hilda Mayrose, Assistant Professor - Senior Scale, Dept. of Biomedical Engineering, received the Best Poster Award in the Ph.D. poster presentations category for her poster entitled “Computational intelligence technique for the screening of dengue based on peripheral blood smear images” at Manipal Research Colloquium - 2023 organized by MAHE, Manipal.

Dr. Anitha H, Professor, Dept. of Electronics and Communication Engineering, MIT, Manipal has been selected by the Indian National Science Academy (INSA), for the Visiting Scientist Programme-FY2023-2024 for the period of two months, at MEG Research Centre, Department of Neurology, NIMHANS, Bangalore.



Dr. Vijay Babu Koreboina, Associate Professor, Dept. of Mechatronics, has been awarded with Inspiring Faculty Award in the event SOLAR ELECTRIC VEHICLE CHAMPIONSHIP 2023 organized at Hindustan college of Engineering, Coimbatore. The event was organized from 25 March to 02 April 2023.

Ms.Devika Rani, Dr. Adithi Shastry and Dr Swapna K S, Dept. of Humanities & Management were invited to handle a program to enhance the professional communication skills of the undergraduate students residing in the government hostels of Udupi district. They handled 16 sessions, each of 90 minutes (6:00 PM - 7:30 PM) online from Rajatadri, Manipal since May 2023 and have completed the assignment



successfully. The officials of the Department of Social Welfare appreciated the content, delivery and enthusiasm in delivering each session of the faculty members. The faculty members were facilitated for their contribution at Rajatadri, Manipal by a team which comprised of Kurma Rao M, (IAS Deputy Commissioner & District Magistrate, Udupi), Sharmila S, Senior Civil Judge and Member of the District Legal Services Authority, Udupi and other key officials.

Research Scholarship Award

Dr. Praveen Kumar, Assistant Professor in Dept of Electronics & Communication Engineering, has been awarded with prestigious Kunadapur Mohan and Lata Bhandarkar merit-cum-means scholarship for his research work under science and Technology category from Manipal Academy of Higher Education. He worked under the guidance of Dr. Tanweer, Associate Professor, in Dept of Electronics & Communication Engineering. The scholarship was awarded during the Founder's Day celebration on 30 April 2023 and carried an amount of fifty thousand and a certificate.



MIT won overall championship trophy in the Faculty Category

MIT won overall championship trophy in the Faculty Category in the annual event held for different INTER MAHE sports activities conducted in the year 2022-2023.

The award distribution ceremony for the various sports events was held at MAHE on 29 May 2023.



Shamanth Madapur, Research Associate in the Department of Biomedical Engineering received the Young Investigator Award for the work carried out by the team comprising researchers from the Department of Biomedical Engineering at MIT, KMC, Manipal and MCHP. It was awarded by the Indian Federation of Neurorehabilitation (IFNR). The IFNR is a part of the World Federation of Neurorehabilitation (WFNR), which is an organization with members from all over the world that works to advance the field of neurological rehabilitation and improve its overall quality. The IFNR Young Investigator Award is given to young researchers under the age of 35 who have made significant contributions to the field of neurorehabilitation.



Shamanth Madapur is a part of the team that is working on the development of the device known as the “Head and Trunk Control Rehabilitation Device for Children with Cerebral Palsy.” Dr. Venkatesan (BME), who serves as the Mentor, and Mr. Harikishan Shetty (BME), who offers technical support, are the work members of the Team. Shristi Shakya (MCHP), Dr. Sivakumar G (KMC), and Dr. Bhamin K Rao (MCHP) provide clinical support to the team.

Head and trunk control (HTC) is a key milestone during early days of a child’s motor development. It serves as a precursor for movement repertoires such as visuo-motor coordination, upper-lower limb control, sitting, standing, and walking. The Manipal team developed an interactive HATCoRe device to increase child’s active participation in the training sessions by displaying the audio-visual stimuli that are most preferred and customized by the user and to assist the therapist in delivering longer and more frequent training sessions. Data on the child’s performance are also to be gathered, analyzed, and stored by the device, and this information can be used for treatment planning in the future.

Dr. Chiranjit Ghosh, Assistant Professor (Research) in the Department of Biotechnology, has been granted two patents in May 2023. He received the patent for his inventions titled “A System for monitoring hemodialysis efficacy of a subject” on 16 May 2023 and another patent for the invention titled “System and kit for monitoring blood glucose profile based on breath analysis” on 26 May 2023. The first invention is a non-invasive technique to track the dialysis efficiency of patients after renal failure while the second one dealt with the detection of blood glucose from exhaled breath analysis by a portable breath analyser.



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Dr. Manish Varun Yadav, Assistant Professor -Senior Scale, Department of Aeronautical and Automobile Engineering, was granted a patent on 26 May 2023 for his invention titled “Microwave Sensor with Surface Wave Transmission Line.”

Mr. Sreevatsan Rangaprasad, final year student, Department of Electronics and Communication Engineering has presented a poster titled “Magnetic Tunnel Junction from the device level to the circuit level for digital applications” at the Manipal Research Colloquium (MRC) on 12 April 2023, and has won the Best Poster Award. He is part of the research team working on Spintronics, a promising emerging technology for solving CMOS challenges, under the guidance of Dr. Vinod Kumar Joshi, an Additional Professor at the Department of Electronics and Communication Engineering.



PhD Awardees: Faculty Members

Dr. Divya Rao, Assistant Professor-Senior Scale, Department of Information & Communication Technology, has successfully defended her doctoral thesis titled 'Computer-Aided Detection Techniques for Laryngeal Cancer Using Machine Learning and Radiomic Features' for the award of PhD degree by the Manipal Academy of Higher Education, Manipal on 21 April 2023. She was guided by Dr. Rohit Singh, Additional Professor, Department of Otorhinolaryngology, KMC, Manipal and co-guided by Dr. Prakashini S, Professor & Head, Department of Radio Diagnosis & Imaging, KMC, Manipal.



Dr. Amar Murthy Ambekar, Assistant Professor (Selection Grade), Department of Mechanical and Industrial Engineering, has successfully defended his doctoral thesis titled "Effect of Non-Newtonian Lubricant with Slip/No-Slip Conditions on the Stability of Multilobe Bearings" for the award of PhD degree by the Manipal Academy of Higher Education, Manipal on 28 April 2023. The research work was guided by Dr. Raghunandana K., Professor, Department of Mechanical and Industrial Engineering, MIT, Manipal.

Dr. Sowmya R., Assistant Professor (Senior Scale), Department of Electrical and Electronics Engineering, has successfully defended her doctoral thesis titled "Tunable Spectra for Enhanced Biomass Yield and Secondary Metabolites on Medicinal Plants" for the award of PhD degree by the Manipal Academy of Higher Education, Manipal on 4 May 2023. The research work was guided by Dr. Ciji Pearl Kurian, Professor, Department of Electrical and Electronics Engineering, MIT, Manipal, and co-guided by Dr. Narasimhan S., Associate Professor, Department of Biotechnology Engineering, MIT, Manipal.



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Dr. Sudheendra Prabhu, Assistant Professor-Senior Scale, Department of Electrical & Electronics Engineering has successfully defended his Doctoral thesis titled "Pathways for Performance Improvement of Kesterite Solar Cells" for the award of PhD degree by the Indian Institute of Technology Bombay (IITB) on 19 April 2023. The research work was guided by Dr. Subhananda Chakrabarti, Professor, Department of Electrical Engineering, IIT Bombay.

Dr. Jagadeesh Chandra R. B., Assistant Professor (Selection Grade) , Department of Electronics and Communication Engineering, has successfully defended his doctoral thesis titled "Development of Flexible Thermoplastic Composites Using Carbon Nanofillers and Metal Foils for Electromagnetic Interference Shielding" for the award of PhD degree by the Manipal Academy of Higher Education, Manipal on 12 June 2023. The research work was guided by Dr. B. Shivamurthy, Additional Professor, Department of Mechanical and Industrial Engineering, MIT, Manipal, and co-guided by Dr. M. Sathish Kumar, Professor, Department of Electronics and Communication Engineering, MIT, Manipal.



Dr. Jashma Suresh P P, Assistant Professor, Department of Computer Science and Engineering has successfully defended her doctoral thesis titled "Design and Development of a Hybrid Framework for Mining Non-Redundant Frequent Itemsets" for the award of PhD degree by the Manipal Academy of Higher Education, Manipal on 13 June 2023. The research work was guided by Dr. Dinesh Acharya U, Professor, Department of Computer Science and Engineering, MIT, Manipal and co-guided by Dr. N. V. Subba Reddy, Professor, Department of Information Technology, MIT, Bengaluru.

Dr. Arunkumar H. S, Assistant Professor (Senior Scale), Department of Mechanical and Industrial Engineering, has successfully defended his doctoral thesis titled “Design and Analysis of a Solar Air Heater for Improvement in Thermo-Hydraulic Performance” for the award of PhD degree by the Manipal Academy of Higher Education, Manipal on 24 June 2023. The research work was guided by Dr. K. Vasudeva Karanth, Professor, Department of Mechanical and Industrial Engineering, MIT, Manipal, and co-guided by Dr. Shiva Kumar, Professor, Department of Mechanical and Industrial Engineering, MIT, Manipal.



Full-Time Research Scholars



Dr. Dheeraj, Full-Time Research Scholar in the Department of Chemistry, has successfully defended his doctoral thesis titled “Synthesis and Characterization of New Organic Molecules for Solar Cell Applications” for the award of PhD degree by the Manipal Academy of Higher Education, Manipal on 26 May 2023. The research work was guided by Dr. Selvakumar M., Professor, Department of Chemistry, MIT, Manipal, and co-guided by Dr. Prakasha Shetty, Professor, Department of Chemistry, MIT, Manipal.

Dr. Sumana J R, Full-Time Research Scholar in the Department of Mechanical Engineering, has successfully defended her doctoral thesis titled “Solid Waste Management Behaviour Among Student Community: A Mixed Methods Approach” for the award of PhD degree by the Manipal Academy of Higher Education, Manipal on 29 May 2023. The research work was guided by Dr. Lewlyn Lester Raj Rodrigues, Professor, Department of Humanities and Management, MIT, Manipal.



Dr. Parashurama Salunkhe, Full-Time Research Scholar in the Department of Physics, has successfully defended his doctoral thesis titled “Fabrication and Characterization of Transparent Electronic Devices Based on Nickel Oxide Thin Films” for the award of PhD degree by the Manipal Academy of Higher Education, Manipal on 2nd June 2023. The research work was guided by Dr. Dhananjaya Kekuda, Professor, Department of Physics, MIT, Manipal.

Dr. Ashwini U, Full-Time Research Scholar in the Department of Physics has successfully defended her doctoral thesis titled “Monte Carlo Simulations to Optimize the Measured Prompt Gammas in Neutron Dose Measurements and Elemental Analysis” for the award of PhD degree by the Manipal Academy of Higher Education, Manipal on 6 June 2023. The research work was guided by Dr. Pramoda Kumara Shetty, Additional Professor, Department of Physics, MIT, Manipal.



Dr. Amrutha K, Full-time Research Scholar in the Department of Civil Engineering has successfully defended her Doctoral thesis titled “Source to Sink Characterization of Microplastics in the Riverine Environments of the Netravathi River, Karnataka” for the award of PhD degree by the Manipal Academy of Higher Education, Manipal on 13 June 2023. The research work was guided by Dr. Anish Kumar Warriar, Associate Professor of Geology, Department of Civil Engineering, MIT, Manipal.

Dr. A. Venkatesh, Full-time Research Scholar in the Department of Electronics and Communication Engineering has successfully defended his doctoral thesis titled “Fabrication of Plasmonic (Al, Ag and Au) Film Over Nanosphere Surface for LSPR Sensing Applications” for the award of PhD degree by the Manipal Academy of Higher Education, Manipal on 30 June 2023. The research work was guided by Dr. V. H. S. Moorthy, Associate Professor, Department of Electronics and Communication Engineering, MIT, Manipal.



Dr. Niraj Kumar Dewangan, Assistant Professor, Dept. of Mechatronics, won the Best Paper Award for his paper titled “A Novel Single and Multiple Switch Fault-Tolerant Multilevel Inverter Topology with Reduced Device Count” in the IEEE International Conference on Renewable Energy and Sustainable E-Mobility (RESEM 2023) organized by Maulana Azad National Institute of Technology, Bhopal from 17-18 May, 2023.



Dr. K Abhimanyu Kumar Patro, Assistant Professor, Dept. of Mechatronics, published a Patent, “AI-assisted Image Recovery for Low-Dose CT Scans”. The Indian Patent Application No. 202341031272 A, Date of Filing: May 02, 2023, Date of Publication: June 16, 2023. He co-inventors are S. Jayachitra, A. Prasanth, Sandeep Chinta, C. J. Raman, G. Inbasakaran, K. Kalyani, D. Gouse Peera, Raju Bura and J. Jayalakshmi. He also published a journal article “An efficient Intra-Inter pixel encryption scheme to secure healthcare images for an IoT environment,” in the journal Expert Systems with Applications (Elsevier), vol. 231, (Indexing - SCIE, Scopus, Web of Science; Quartile - Q1; IF - 8.665)

The co-authors are Sachikanta Dash, Sasmita Padhy, S Anjali Devi and Savya Sachi.

Two Design Patents awarded to Mr. Yajnanatha Acharya, Deputy Engineer, MIT Workshop.

Mr. Yajnanatha Acharya, Deputy Engineer, MIT Workshop along with Dr. Shaswata Karmakar, Dr. Shashikiran S, Department of Periodontology and Dr. Baishaki Modak, Department of Oral Pathology & Microbiology, Manipal College of Dental Sciences, Manipal were granted two design patents in April 2023.

Title of the Design Patent are as follows:

- Graft Holding Forcep - Straight - Application Number - 367110-001
- Graft Holding Forcep - Curved - Application Number - 367111-001



About the device: Harvesting soft tissue grafts from hard palate is extremely sensitive and demands high levels of skill from the clinician. The Periodontal soft tissue graft holding forceps enable the operator to hold the soft tissue graft comfortably while harvesting; the ends of the instruments have been designed to grip the graft adequately enabling the operator to efficiently harvest the graft. The angling of the shank of the instruments enables easier access to the donor site.

e-Yantra Robotics Competition (eYRC)

Forty one student teams from MIT, Manipal, participated in the e-Yantra Robotics Competition (eYRC), an annual international competition organized by e-Yantra, Indian Institute of Technology Bombay (IITB). The competition spans over 5 to 6 months and caters to teams with diverse skill levels, ranging from novice to advanced participants. The online event adopts a “LEARNING while COMPETING” approach.

The focus of this year’s eYRC was on the challenges of utilizing technology in future cities. The competition encompassed six themes, namely Functional RoadBot (FB), Krishi Bot (KB), Pharma Bot (PB), Swatchhta Bot (SB), Delivery Bike, Sentinel Drone (SD), and HoLa Bot (HB). Each theme aimed to impart futuristic skills to solve real-world problems.

eYRC comprised three stages: stage-1, stage-2, and the Grand Finale. In stage-1, teams were required to complete three tasks, primarily Task 0, Task 1, and Task 2. Shortlisted teams progressed to stage-2, where they received robotic kits from the e-yantra team to tackle the remaining three tasks, mainly Task 3, Task 4, and Task 5. The Grand Finale, held from 31 March to 01 April 2023, took place at IIT Bombay, where finalist teams showcased their projects related to future cities.

One team from MIT, Manipal, achieved level-3 and qualified for the pre-final round (stage-2) in the eYRC 2022-23. Additionally, four teams from MIT, Manipal, achieved level-4 and progressed to the pre-final round (stage-2) among the 41 participating teams.

A student team comprising Anurag Dhole, sixth Semester student of B.Tech Mechatronics Engineering, Edel Castelino, sixth Semester student of B.Tech Mechatronics Engineering and Geda Siva Ram Chowdary, sixth Semester student of B.Tech Electronics and Communication Engineering participated in the e-Yantra Innovation Challenge (eYIC), a national level competition conducted annually by the Indian Institute of Technology Bombay (IITB).

The team was selected as one of the 10 finalist teams out of 490 teams to demonstrate their project at the eYIC National Finals 2022-23 held at IIT Bombay during 05-06 April 2023 and was honoured with Best Implementation award and Market Ready award.

MIT, Manipal students showcased their talent at BITS Goa and ASMC Pune, securing numerous medals. Their outstanding performance at ASMC, Pune earned them the coveted title of overall champions as the team received the rolling trophy.



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MAHE Relay Team wins third place at Mangalore Triathlon

Relay open team consisting of three women from MAHE has achieved the third-place finish at the recent Mangalore Triathlon. The team was composed of an open sea swimmer, Ms. Poornima Shetty, a 3rd-year MIT student who covered a distance of 1.5 kilometers; an accomplished cyclist, Dr. Shobha M E, Assistant Professor-Selection Grade, Department of Mathematics, MIT who completed a challenging 40-kilometer ride; and a talented runner in her 3rd year at MIT, Ms. Niyati Kotian, (branch) who completed a 10-kilometer course.

In addition to the above award, the following members from MAHE participated in the Mangalore Triathlon and won appreciation from all for their committed effort:

1. Mr. Krish, a 1st-year MIT student, competed in the Solo category
2. Dr. Vaibhav Dalal, an Intern at KMC Mangalore participated in the Solo category
3. Dr. Sahana Acharya, a faculty member at KMC Mangalore, participated as cyclist in the Women's Team Relay and secured 4th place.
4. Dr. Santhosh Rai, a faculty member at KMC Mangalore participated in Men's Team Relay event
5. Men's Relay team 1:
Varun Biyani, a 3rd-year MIT student | Sughanpranav B., a 1st-year MIT student | Abhimanyu Singh, a 1st-year MIT student
6. Men's Relay team 2:
Pratham Rohida, a 3rd-year MIT student | Tejas Iyer, a 4th-year MIT student | Nigel Fernandes, a 1st-year MIT student
7. Men's Relay team 3:
Yash, a 3rd-year MIT student | Anway, a 3rd-year MIT student | Nishad, a 3rd-year MIT student

MIT won overall championship trophy in the Student Category

MIT won overall championship trophy in the student category in the annual event held for different INTER MAHE sports activities conducted in the year 2022-2023.

The award distribution ceremony for the various sports events was held at MAHE on 29 May 2023.



Championship Trophy at Geosphere



A team of ten MSc Geology Students of the institute won accolades at "GEOSPHERE" held at Dyanprasarak Mandal College and Research Centre (DMC), Assagao, Goa. The MIT team won the Championship Trophy along with other prizes at the event.

The details of the awards are as follows:

First Prize in Pictionary

1. Sakshi Vijay Samji;
2. Vivenchy Fernandes;
3. Rohith Shetty

Treasure Hunt - 1st Runner Up: Ms. Medha Das, Ms. Adyasha Rath, Mr. Sankar Lamani

Quiz - 1st Runner Up: Ms. Ananya Kundu and Ms. Harsha Anna

Shark Tank Geology - 2nd Runner Up: Mr. Adyasha Rath and Mr. Shankar Lamani



Sweta Chunduri, a fourth Semester Computer Science Engineering student won the *TCS TechBytes 2023 Regional Finals* and qualified for the *State Finals to be held at SJB Institute of Technology, Bengaluru on 05 April 2023.*

Vinamra Choudhary (Technical Secretary) was awarded Second Prize in a photography competition organized by TIFR, Mumbai Optica Student chapter.



MIT Team in the World's Largest Global Climate Clock Assembly and Display Event

A team of students and faculty members represented MIT in the World's Largest Global Climate Clock Assembly and Display Event at the Indira Gandhi Indoor Stadium, Delhi on 22 April 2023. The program was organized by AICTE in association with the Energy Swaraj Foundation.



April - June 2023, Students' Major Projects, MIT

The Team AeroMIT participated in the event, SAE Aero Design East 2023 at Lakeland, Florida, during 10 -12 March 2023. SAE Aero Design is an annual collegiate design series event held by SAE International, Boeing and Lockheed Martin's Skunkworks division in the United States. Aero Design teams from the world's top engineering colleges participate in this event annually with a total of 36 teams participating this year and 16 teams in the Micro class category. Team AeroMIT has been participating in this event for the past seven years. The Team achieved World Rank #4 Overall, #2 in Design Report, #4 in Technical Presentation & #4 in Mission Performance.



Team Manipal Racing (TMR) - Combustion (CV) participated in m BAJA SAE India 2023 held at the NATRAX facility (Asia's largest automotive test track), Indore MP from 14 to 19 February 2023. BAJA is the largest student focussed automotive competition held in India and this year 114 teams had participated in the virtual round and around 90 teams qualified for the Physical Dynamic events at NATRAX. In the dynamics round, TMR secured 2nd position in Overall Physical Dynamics, 5th in Suspension and traction, 6th in Sledge Pull, 6th in Manoeuvrability and 10th in Endurance, out of the 90 participating teams. TMR bagged 1st in Validation event and 4th in CAE event out of 114 participating teams in statics round. Finally, the team stood 8th overall, considering both statics & dynamics rounds. Team also won cash prize of Rs. 40,000.

Team Manipal Racing -Electric (EV) participated in the event, e BAJA SAEINDIA, at Chithkara University, Baddi, Himachal Pradesh, during 05 - 09, April 2023. Out of 75 teams that participated, it secured 7th Overall position, 3rd in Validation, 4th in Design, 5th in CAE, 8th in Cost, 4th in Suspension and Traction, 8th in Manoeuvrability and 8th in Endurance Race.



Formula Bharat Roadshow 2023 at MIT: Formula Car was taken by Formula Manipal team on a display vehicle to 10 Institutes around Udupi and Mangalore, during 24- 25 April 2023 as a precursor to the "Formula Bharat Roadshow 2023" program scheduled on 29 April 2023 at MIT. The display vehicle with Formula Car was flagged off by the visiting IET delegates at MIT on 24 April 2023. During its visit, the Team interacted with enthusiastic students from other institutes.

"Formula Bharat Roadshow 2023" program was held at M.V Seminar Hall, MIT on 29th April, by the officials of Formula Bharat from M/s Curiosum Tech Private Limited, Mumbai. They conducted sessions on topics such as Formula Student and Formula Bharat, Formula Student rules on combustion and electric category, how to ace the static events and how to startup one's own team. The interactive sessions were attended by 78 Formula Manipal Team members and 07 outstation participants.



SolarMobil Team participated in Solar Electric Vehicle Championship (SEVC) 2023 event at Coimbatore from 29 March to 02 April 2023. The Team won Solar Endurance Award, Optimum Cost Award, Femina Award, and Inspiring Faculty Award in the event.



SolarMobil Team participated in the Electric Solar Vehicle Championship (ESVC) 2023 for the first time during 14 - 21 April 2023 at Greater Noida, Uttar Pradesh. The Team was placed #1 in Business plan and optimum cost, Future Award, Best teamwork Award, Overall 4th Position and Cash Prize of Rs. 55,000.

The solar car designed by Team SolarMobil is being followed by DL registered vehicles in Noida/NCR.

Moreover, the solar car has garnered the following significant recognition and accolades besides securing overall fourth position:

- #1 position in the Business Plan category,
- Optimum Cost Future Award,
- Best Teamwork Award
- Cash prize of INR 55,000.

Project Manas Team participated in the Intelligent Ground Vehicle Competition (IGVC) at Oakland University in Michigan, USA, during 02- 05 June 2023. The Team secured Third Rank globally in the Auto-Navigation Challenge among 29 participating teams and won a cash prize of \$1500.



Team ThrustMIT conducted a test firing of their rocket at the end point, Manipal, in an innovative way. Unlike traditional rockets that ascend into the sky, this rocket was designed to fly into the ground while exerting pressure on a load cell. By measuring the force or pressure applied to the load cell, an estimation of the rocket's potential altitude if it were launched skyward can be estimated. The novel experiment brought about a moment of awe and excitement for all present at the site, and also other students and faculty at the institute.



RoboManipal Team participated in DD Robocon 2023 event at Delhi, during 17th-18th June 2023. DD Robocon is a robotics competition held every year based on traditional games from different countries in Asia. This year it saw a participation from around 70 teams from all over the country for stage 2. 63 teams had qualified for final stage out of which 43 teams participated at the venue in Delhi. RoboManipal represented MIT-MAHE at the competition and secured 21st rank overall.



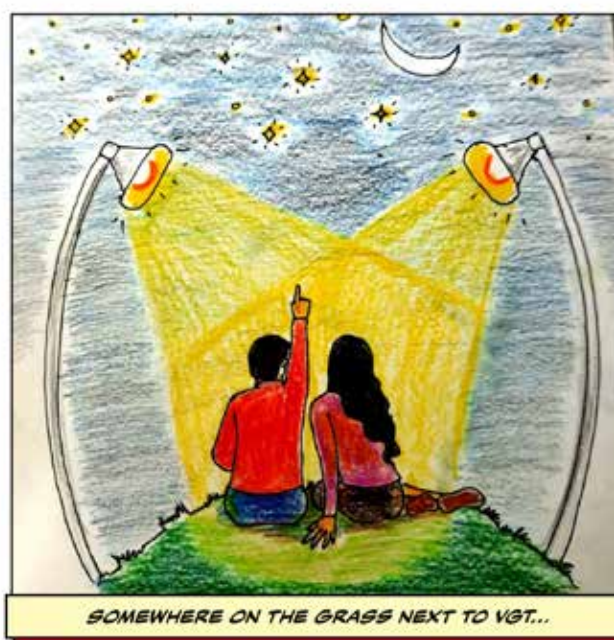
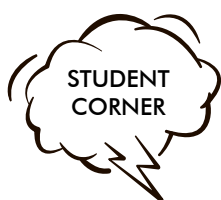
ThrustMIT Team participated in Spaceport America Cup 2023 at New Mexico, USA during 19th - 24th June 2023. Team achieved - 57/67 in 10,000 feet COTS (Commercial Off The Shelf) category, 101/119 in Overall Standings and 85/119 in James Barrowman Award. Team recovered the rocket shell, safely, after firing the rocket to 10,000 feet height in the air.



Project Manas Team participated in Student Unmanned Aerial System (SUAS) 2023 competition at St Mary's County Regional Airport, Maryland, USA, during 20-22 June, 2023. Out of 72 teams, we secured an impressive 12th position internationally, a significant upgrade from last year's 18th place. Team also stood 2nd nationally.



Dronaid Team participated in Unmanned Aerial System (UAS) Challenge 2023 event held in the United Kingdom from 26th to 29th June 2023. UAS Challenge is a live test design competition, run by the Institution of Mechanical Engineers. A total of 36-40 teams participated. Team achieved 16th in Flight Readiness, 16th in 20th in X-plane model, 19th position in Flight demo and 24th Overall.



Art by : Abhishek Biswas
Mechatronics Batch of 2025

Ms. Sundari G Pai, Printing Technology, 2003 batch, is recognized by *DiversityPlus* Magazine as one of the 'Top 25 Women in Power Impacting Diversity' from over 170 nominees across the world. Ms. Pai is associated with Brystall-Myers Squibb, an American multinational pharmaceutical company, as Senior Manager - Global Supplier Diversity.



Mr. Siddhant Vora, Mechatronics Engineering, 2016 batch, is recognized at National level as a budding marketing professional with an award 'Pitch Marketing 30 Under 30'

Mr. Ambar Atal, Industrial Production Engineering, 2005 batch, is currently associated with Taylor and Francis, New Delhi as Commercial Business Manager. Mr. Ambar Atal pursued MBA at Asian Institute of Management, New Delhi and had joined Cambridge University Press & Assessment as Strategic Alliances Manager before moving to Taylor and Francis, New Delhi.



Mr Arjun Upadhyaya, Mechanical Engineering, batch 2021 was awarded the title Superstar of the Badminton Club of Cranfield University for the year 2022-2023. Currently, Mr Arjun is pursuing his Master's in Advanced Mechanical Design at Cranfield University, Bedfordshire, United Kingdom.

Mr. Sachin, Chemical Engineering, batch of 1995 won the Contract for India's Largest Tolling System Integration Project. Mr. Sachin is Founder and CEO at Metro Infrasy Pvt. Ltd. Metro Infrasy Pvt. Ltd has secured a new order as the Master System Integrator (MSI) for the prestigious Delhi-Mumbai Expressway project. This expressway, spanning 1386 km and connecting five states enhances the connectivity between Delhi and Mumbai.



Mr. Akshit Bansal, Electrical and Electronics Engineering, 2017 batch, has been recently recognized as one of the top 50 EV Charging Leaders 2023. He is the Co-founder of Statiq, Gurgaon, Haryana, an enterprise in EV Charging segment.

Mr. Aditya S. Prasad, Mechanical Engineering, 2012 batch, has recently secured admission in Harvard Business School. He is already a graduate from MIT, Boston (M.Engg. in Advanced Manufacturing and Design), USA. He was associated with Rivian, USA as Manager - Battery Manufacturing Engineering till May 2023. Prior to that he was also associated with companies such as Tesla, Apple, JLR etc. During his B. Tech period at MIT, Manipal, he was a part of the Team Formula Car Manipal from 2009 to 2010.



Mr. Rahul Sharma, Computer Science and Engineering, 2007 batch, has been promoted as Director - Engineering at Paytm.

Ms. Jyotsna Budideti, Aeronautical Engineering, 2014 batch, has been recognized as one of the 15 groundbreaking startups in France. Ms. Jyotsna Budideti is currently acting as the CEO of SpaceSense.ai.



Mr. Amit Malik, Electronics and Communication Engineering, 1991 batch, has been appointed as VICE PRESIDENT & SALES LEADER in India for Ciena. Ciena is a global leader in optical & routing systems, services, and automation software.

Mr. Achintya Dutta, Electronics and Communication Engineering, batch 2021 received the Erasmus Mundus European Full Scholarship for his Master's studies under the Nanoscience program. It is a joint program involving Cambridge University, UK and K U Leuven, Belgium. Mr. Achintya Dutta is currently associated with TIFR, Mumbai.



Mr. Rajesh Shenoy, Biomedical Engineering, 1996 batch has been appointed as Director, Capgemini Invent, Hyderabad.

Mr. Sandeep Dutta, Electrical and Electronics Engineering, 1993 batch, has been appointed as Senior Managing Director & India Market Unit Lead at Accenture.



Mr. Madhav Nair, Electrical and Electronics Engineering, 1993 batch, who is Country Head & CEO - India, Mashreq Bank and Dy Chairman IBA (2022-23), has been nominated as Co-Chairman ASSOCHAM, Member- FICCI, IMC National Committee on Banking 2023.

Ms. Adfer Muzzafar, Electronics and Communication Engineering, 2007 batch, is currently associated with Unilever as General Manager - HR R&D and Head Future of Work - South Asia, Mumbai. Adfer has done Masters in Mind, Brain and Education at Harvard University and Master in HRM at Tata Institute of Social Sciences.



Alumni Visits

- **Mr. Ravikant**, Dept of Electrical and Electronics Engineering, 2005 batch and Mr. Shivam Modi, Dept of Information and Communication Technology, 2020 batch, both working for Standard Chartered Bank visited MIT in this quarter. They were representing the company for campus recruitment drive at the Institute.
- **Mr. J K Rao**, Dept. of Mechanical Engineering, 1978 batch visited MIT in this quarter. He was accompanied by Dr. J R Rao, an alumnus of KMC, Manipal.
- **Dr. S. K. Singh**, Computer Science and Engineering, 1992 batch, who is currently Professor & Head, Department of Computer Science and Engineering, Indian Institute of Technology (BHU), Varanasi visited MIT in this quarter.
- **Mr. Pulkit Arora**, Mechatronics, 2014 batch, who is presently the Principal Solutions Consultant at Razorpay visited MIT in this quarter.
- **Mr. Sajal Jain**, Mechanical, 2014 batch, who is currently working for a startup 'Zetwerks' visited MIT in this quarter.
- **Ms. Sreesudha**, Electronics and Communication Engineering, 1991 batch, visited MIT in this quarter. Ms. Sreesudha is the daughter of the late Prof. CN Sreedharan, who was a renowned faculty member in the Department of Mathematics.
- **Mr. Atary**, Electronics and Communication Engineering, batch 2022, visited MIT on 26 March 2023. Mr. Atary, after a brief stint at Deloitte, will be joining Dartmouth College, Hanover, Germany for his higher studies.

- **Mr. Samyak Jain**, Electronics and Communication Engineering, batch 2021 and Mr. Rishabh Jain, Civil Engineering, batch 2021, both associated with PwC visited MIT on 05 May 2023.
 - **Amish Kumar Sinha**, Electronics and Communication Engineering, 2021 batch working as Data Analyst at Ugam visited MIT on 05 May 2023.
 - **Sumit Narayan**, Electronics and Communication Engineering, 2021 batch, working as Associate Software Engineer at Sabre India visited MIT on 05 May 2023.
 - **Shubham Sharma**, Civil Engineering, 2021 batch, who is currently taking care of his Family Business visited MIT on 05 May 2023.
 - **Ms. Shaily Poddar**, Electronics and Instrumentation, 2020 batch, presently serving as Senior Software Engineer at Schneider Electric, Bangalore visited us on 05 May 2023.
 - **Dr. Manpreet Singh**, Civil Engineering, 2012 batch, who is currently working as Assistant Professor in Thapar Institute of Engineering & Technology (TIET), Patiala, visited MIT on 08 May 2023.
 - **Mr. Pradeep Menon**, Electrical and Electronics Engineering, 1991 batch, has been appointed as CEO of EVORA Global, New York.
 - **Mr. Ankit Raj**, Electrical and Electronics Engineering, 2019 batch, who is currently Senior Officer (Engineering) at Indian Oil Corporation Ltd. visited MIT on 22 May 2023.
 - **Mr. Teddy Kurian**, MTech in Structural Engineering, 2001 batch, who is currently the Lead Civil & Structural Engineer at GE visited MIT on 22 May 2023.
 - **Mr. Vinod Anand**, Computer Science and Engineering, 1999 batch, who is currently the Managing Director, EQS Group visited MIT on 25 May 2023 with his family.
 - **Mr. Gaggandeep Singh Sublok**, MTech Construction Engineering & Management, 2019 batch visited MIT on 30 May 2023.
 - **Mr. Ashish Sharma**, Information Technology, 2010 batch visited MIT on 12 June 2023. Presently he is serving as Senior Software Engineer at Commonwealth Bank.
 - **Ms. Anisha Chavali**, Mechanical Engineering, 2015 batch visited MIT on 13 June 2023. She has completed her MBA at IESE Business School, Barcelona, Spain.
 - **Mr. Naga Sitaram Guduri**, Electronics and Communication Engineering, 2016 batch visited MIT on 20 June 2023. He is presently working as a Software Developer at TSMC, Taiwan.
 - **Mr. Sudarshan Nayak**, Civil Engineering, 1998 batch visited MIT on 24 June. He is presently working as General Manager, Mangalore SEZ Ltd.
-

Making the Most Out of College Life: A Guide to Nurturing Your Mind and Body!

I remember the very first day I came to Manipal from a small Indian city. A lot of things were happening so quickly that I couldn't even process what I was feeling back then. But looking back at it today, I was clearly anxious. And I had all the reasons to be. Having never lived a single day without my family, I was there in a coastal town all by myself with so many uncertainties surrounding me. Little did I know back then how these uncertainties would shape my entire life going ahead.

I know any freshers on the campus would be feeling the same... we all do. I have gathered some learnings from my experience over the years and feel they would be good starting pointers for students at MIT. Here are some tips that can help them to make the most out of college life.

- **Prioritize Mental Health:** College life can be a rollercoaster of emotions, with new challenges and responsibilities on your plate. It is crucial to prioritize your mental health right from the start. Seek balance by scheduling regular self-care activities: meditation, yoga, journaling, or even spending time in nature. Reach out to the campus counseling services if you ever feel overwhelmed or stressed.
- **Nurture Physical Well-being:** Your mind and body are intricately connected. To make the most of your college life, prioritize physical health too. Engage in regular exercise, whether it is hitting the gym, playing a sport, or simply going for a brisk walk. Eating a balanced diet is equally important; fuel your body with nutritious food to maintain energy levels and enhance focus. Adequate sleep is often underestimated, but it plays a vital role in ensuring overall well-being. Develop healthy sleep habits to enhance your productivity and overall happiness.
- **Embrace New Experiences:** College life is a golden opportunity to step out of your comfort zone and explore new experiences. Challenge yourself to try things you have never done before. Join clubs or organizations that align with your interests, be it drama, photography, or entrepreneurship. Participate in workshops, seminars, and networking events that widen your horizons and introduce you to diverse perspectives. Embracing new experiences enriches your college journey and helps you discover hidden talents and passions.
- **Embrace Diversity:** MIT is a melting pot of cultures, backgrounds, and ideas. Embrace diversity and make an effort to connect with students from different parts of the world. Engaging with diverse perspectives not only broadens your understanding of the world but also fosters empathy and open-mindedness. Celebrate festivals and events that are significant to different cultures, and you will find yourself enriched with a global outlook.
- **Build Meaningful Relationships:** Campus life is a time to build lasting connections and friendships. Be open, approachable, and supportive of others. Surround yourself with people who inspire and encourage you to grow. Meaningful relationships not only contribute to your emotional well-being but also create a strong support system that lasts beyond college years.

The four years of campus life at MIT will be an extraordinary chapter in your journey of self-discovery and growth. Embrace the challenges, seize opportunities, and take care of your mental, physical, and emotional well-being. As you make the most of this incredible time, remember that you are not just here to acquire academic knowledge but also to shape the person you want to become. Make every moment count, for these years will be the foundation for a successful and fulfilling future.



Shivam is the author of two very popular books “How to unleash your true potential” and “Finding the Magic in You” and a certified Emotional Intelligence Life Coach having trained and personally coached more than 1000 people across the globe towards being emotionally intelligent.

Shivam joined MIT Manipal as a fresher in 2010 in the Department of Aeronautical Engineering and graduated from MIT in 2014. With an All India Rank of 203 in the prestigious GATE examination, he pursued his Masters in Aerospace Engineering and is on the verge of finishing his Ph.D. in Aerospace Engineering.

APPRECIATION OF SERVICE

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



Dr. Prakasha Shetty
Professor

Department of Chemistry
Date of Joining: 10-12-1994
Date of Superannuation: 31-05-2023



Dr. V H S Moorthy
Associate Professor

Department of ECE
Date of Joining: 01-03-2007
Date of Superannuation: 25-06-2023



Sri Balakrishna Nayak

Senior Technician Workshop
Date of Joining: 02-05-2000
Date of Superannuation: 31-05-2023



Sri Ananthapadmanabha Bhat

Maintenance Foreman (Electrical)
Date of Joining: 12-03-1990
Date of Superannuation: 31-05-2023



Sri Arun Kumar B

Security Supervisor II
Date of Joining: 03-03-2009
Date of Superannuation: 31-05-2023



Sri Ashok Shettigar,

ICT Senior Technician
Date of Joining: 11-07-1988
Date of Superannuation: 30-04-2023



Ms. Manorama, Senior Clerk

Academic Section
Date of Joining: 16-08-1988
Date of Superannuation: 30-04-2023

VISION

Excellence in Technical Education through Research, Innovation and Teamwork.

MISSION

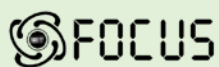
Educate students professionally to face societal challenges by providing a healthy learning environment grounded well in the principles of Engineering, Research, and Teamwork.

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



Dr. Tonse Madhava Ananth Pai
125 Year of Birth Anniversary

