



FOCUS

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MIT Pravesh 2023 - BTech Orientation Program

The second quarter of every calendar year at MIT Manipal is marked by a series of events to welcome the new batch of students and to introduce them to academics and campus life. MIT with a diverse student body of over 10000 individuals hailing from various regions, both within the country and abroad, makes it a vibrant hub with a plethora of opportunities and choices to cater to everyone's preferences. Newly admitted students are initiated into this exciting world of education and prospects through a formal orientation program, followed by a comprehensive Student Induction Program designed to familiarize them. The events are meticulously planned to facilitate the students to adapt to their new environment away from the comforts of their home, foster connections with their fellow peers, and keep them informed of the academic, co-curricular, and extracurricular opportunities MIT offers to them.



The formal Orientation Program for the newly admitted B. Tech students MIT Pravesh 2023 was held with grandeur and vibrancy of the mighty MIT at Manipal during 17-20 July 2023. The event was formally inaugurated by Dr. K. Vidya Kumari, Deputy Commissioner & District Magistrate of Udupi on 17 July 2023. The ceremony commenced with a floral tribute to our revered Founder, Late Dr. T. M. A. Pai followed by the lighting of the lamp. Lt. Gen. (Dr.) M. D. Venkatesh, Vice Chancellor of MAHE Manipal, Dr. Giridhar Kini Registrar of MAHE Manipal, Cdr. (Dr.) Anil Rana, Director, MIT, and Dr. Somashekara Bhat, Joint Director, MIT graced the occasion.

Continued on page 06

Inauguration of a unique Creche facility 'Chiguru' at MIT Campus



On 04 July 2023, the day care 'Chiguru' was inaugurated by Dr Ranjan R Pai, President of MAHE Trust. Dr. H S Ballal, Pro-Chancellor, MAHE, Lt. Gen. (Dr) M D Venkatesh, Vice Chancellor MAHE, Dr Narayana Sabhahit, Pro-VC Technology & Science MAHE, Dr. Giridhar Kini, Registrar, MAHE, Cdr. Dr. Anil Rana, Director MIT, Dr Somashekara Bhat, Joint Director, MIT were present during this occasion. Dr. Ranjan R. Pai commended MAHE for taking this initiative to improve the well-being of employees and urged MAHE staff members to make use of this facility.

With a total capacity of 39, this facility can accommodate children in the age group of 8 months to 7 years. In order to match the working hours of staff members and ease the pick-up and drop-off, the creche has been established inside the

campus in the residential area with extended hours (7:30am to 6:00pm). A committee of the MIT-MSAP Faculty club, led by Dr. Kannan, Faculty, MIT, Manipal, coordinates the creche's operations.

Continued on page 07



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

Spreading Education: The World Wide Manipal

It was the dream of Dr. TMA Pai, the architect of modern Manipal to transform his group of educational institutions into a world-class university at Manipal. Though Dr. TMA Pai during his lifetime came close to realising the dream, the task was yet to be completed. However, his illustrious son Dr. Ramdas M. Pai made it a reality in the year 1993 by obtaining a status of deemed to be University, named Manipal Academy of Higher Education (MAHE), to the group of institutions of Manipal.

Manipal Academy of Higher Education (MAHE), continuing the vision of its founder, Dr. TMA Pai and his successors, has made earnest efforts to provide quality education in the field of higher education since its inception. In addition to the main campus at Manipal, it has established a diverse and extensive network of campuses across various locations, each offering a unique educational experience. MAHE has also extended its global reach by establishing universities beyond India. These initiatives are testament to MAHE's commitment to providing high-quality education on a global scale. The national and international campuses are strategically located in different parts of the world, serving as hubs for academic excellence, cultural exchange, and research collaboration. While the educational endeavours transcend geographical boundaries offering region specific and international perspective, the academic rigor and commitment to quality education remain similar to the main campus.

Here is a snapshot of the different campuses of MAHE institutions/units in India and abroad established over the years:

Campuses in India

Manipal, Karnataka, India

Main Campus: The heart of MAHE, Manipal, is located in the picturesque state of Karnataka. This campus is where it all began and established the MAHE brand. It offers a wide range of programs in fields such as healthcare, engineering, management, and liberal arts. The lush green campus is known for its state-of-the-art facilities, research centres, and a vibrant student community.



Mangalore, Karnataka, India

Kasturba Medical College (KMC), Mangalore: MAHE's KMC Mangalore campus is renowned for its excellence in medical education and healthcare. It has enhanced the brand of KMC Manipal and extended its reach to the needy of the region. The campus is equipped with modern medical facilities and teaching hospitals in the heart of the city of Mangalore.



Bengaluru, Karnataka, India

MAHE Bengaluru Campus: Situated in the vibrant city of Bengaluru, the state capital of Karnataka, it is a dynamic hub of education and innovation. The campus offers a wide array of undergraduate and postgraduate programs in fields such as engineering, management, humanities and creative arts. With its prime location in India's Silicon Valley, MAHE Bengaluru fosters a culture of entrepreneurship and technological advancement, preparing students for successful careers in a rapidly evolving global economy.

Sikkim, India

Sikkim Manipal University (SMU): SMU, situated in Gangtok, Sikkim, offers a range of programs, including technology, management, and healthcare in the state of Sikkim. The campus takes advantage of the serene Himalayan environment of the north-eastern state of India, Sikkim, for a unique learning experience. This initiative extends the reach of MAHE legacy into the arena of private-public collaboration to cater to the needs of people of the North-East. The Sikkim Manipal University (SMU) has two campuses: the Medical campus and the Technology campus. The Medical campus and the University are located in Gangtok, while the Technology campus is located in Majitar, Sikkim



Jaipur, Rajasthan, India:

Manipal University Jaipur: Located in the historic city of Jaipur, this campus offers a wide range of programs, including engineering, management, humanities, and many more. It emphasizes experiential learning, research, and innovation. The campus blends the cultural heritage of Rajasthan with modern educational facilities.

Jamshedpur, Jharkhand, India

Manipal Tata Medical College (MTMC) is a joint venture between the Tata Trust and Manipal Academy of Higher Education (MAHE). In line with MAHE and the Tata Trust's commitment to community development, the medical college focuses on serving the healthcare needs of the local community in Jamshedpur and the surrounding areas.



Campuses Abroad

Dubai, United Arab Emirates

Manipal Academy of Higher Education, Dubai: MAHE's Dubai is an offshore branch campus of MAHE, Manipal, that caters to the international student community in the Middle East and beyond. It offers programs in various disciplines, including engineering, business, and media. The Dubai campus is known for its world-class infrastructure and diverse student community. This campus provides an opportunity for the Indian diaspora settled in the Middle East to experience the education from the Manipal group.



Malaysia

Manipal International University (MIU), Malaysia: MIU, located in the city of Nilai, Malaysia, is an integral part of MAHE's global expansion. It offers a wide range of undergraduate and postgraduate programs, including engineering, business, and hospitality. The campus promotes cultural diversity and academic excellence.

Melaka Manipal Medical College Malaysia:

Melaka Manipal Medical College (MMMC) in Malaysia, a collaboration between Manipal Academy of Higher Education (MAHE) and the Malaysian government, is a leading institution for medical education in the region. Established in 1997, it offers world-class medical programs with state-of-the-art facilities and strong international affiliations. With a diverse student body, ample clinical exposure, and a focus on research and community engagement, MMMC is a top choice for students aspiring to excel in the field of medicine in Malaysia.

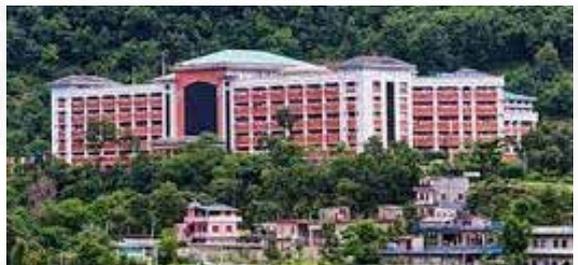


Antigua, Caribbean

American University of Antigua (AUA): MAHE's presence extends to the Caribbean through AUA College of Medicine in Antigua. It is a renowned institution for medical education, providing opportunities for aspiring doctors from around the world to pursue their medical degrees.

Nepal

Manipal College of Medical Sciences (MCOMS), Nepal: This campus is a testament to MAHE's commitment to healthcare education. Located in Pokhara, Nepal, MCOMS is known for its medical and nursing programs, contributing significantly to healthcare in Nepal.



These universities and campuses in diverse locations reflect MAHE's commitment to spreading quality education worldwide. Each campus has its own identity, strengths, and governance structure contributing to the overall growth and reputation of Manipal Academy of Higher Education as a world-class institution. Through these institutions the legacy and dream of Dr. TMA Pai lives on.

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Editor's Musings

Dear Reader,

Greetings...!

As the new academic year unfolds, we welcome a fresh batch of young minds joining the MIT family. During this year we have admitted over 3000 freshers, including the UG, PG, and research scholars to the Mighty MIT.

As usual, MIT witnessed a festive look during 17 to 29 July 2023 with an elaborate orientation and induction programs designed for a formal welcoming of the new batch of students. What set this year apart was the privilege of hosting five distinguished alumni as chief guests for the formal orientation function spread over four days. These accomplished alumni took the stage and shared their inspiring stories of success and valuable experiences, leaving the newly admitted students motivated and inspired.

This year, we have introduced three new undergraduate programs with a capacity of 60 students each in Electronics Engineering (VLSI Design and Technology), Computer Science & Financial Technology, and Mathematics & Computing. These programs in emerging areas are sure to offer exciting opportunities for students to excel in cutting-edge fields.

The Institute celebrated Engineer's Day on 15 September, which is the birth anniversary of the legendary Sir M Visvesvaraya. For the last few years, coinciding with the auspicious occasion, the Institute has been organising the Prof. P V Bhandary Memorial Oration. This year the distinguished speakers were Prof. K V Venkatesh, Dept. of Chemical Engineering, IIT Bombay, and Dr Narasimha Bhat, CEO & Founder, Manipal Dot Net Pvt Ltd., Manipal.

Our NSS unit actively engaged in various community service programs, such as blood donation drives, demonstrating our commitment to social responsibility. A group of NSS volunteers led by the faculty coordinators visited Ladakh in this quarter.

Four of our departments namely, Biomedical Engineering, Biotechnology, Data Science & Computer Applications, and Computer Science & Engineering have achieved impressive ranks in the Education World rankings. This is a testament to the dedication and hard work of our faculty and students.

Starting this quarter, we have extended the "Tea with the Director" initiative to faculty members to recognize and celebrate their outstanding achievements. About 60 accomplished faculty members participated in the event. This initiative is anticipated to boost faculty morale, foster collaborations, and enhance the number of accomplishments in the institute in the days to come.

On the research front, we are proud to announce that we have already crossed 1000 publications this year, showcasing our commitment to research excellence.

This academic year promises to be filled with more opportunities for growth, learning, and collaboration. We look forward to a year of academic achievement, personal development, and making a positive impact on our community, nation, and the world at large.

Welcome, once again, to the new academic year at MIT, and together let's make this year extraordinary!

CONTENTS

Events at MIT	06
Department Familiarization Programs	24
Faculty Achievements	42
Research Highlights	46
Students in Action	52
Alumni Matters	56

Continued from page 01

This year the newly admitted B Tech students had the privilege of listening to five distinguished alumni of MIT who were the Chief Guests for the event over the four days of celebrations. On 17 July 2023, Mr. Gaurav Agrawal, Managing Director, Innovation Healthcare Pvt. Ltd., Bengaluru (Biomedical Engineering, Batch of 1996) addressed the students highlighting his experiences as a student and entrepreneur. Lt. Gen. (Dr.) M. D. Venkatesh, Vice Chancellor, MAHE, Manipal was the Guest of Honor for the event. Welcoming the new batch of students, the Vice Chancellor narrated the legacy of Manipal in imparting quality education over six decades. He also emphasised on the responsibility of the students in shaping their future. Students admitted to Computer Science & Engineering, Computer Science & Engineering (AI & ML), Data Science & Engineering and Computer Science and Financial Technology participated in the program.



On 18 July 2023, Mr. Amit Gurkha, Senior Director, Software Engineering, Cisco Systems India Pvt. Ltd., Bengaluru (Computer Science & Engineering, Batch of 1994), in his inspirational talk elaborated on five key points that he believed were crucial for success. Dr. H. S. Ballal

Pro Chancellor, MAHE, Manipal, the Guest of Honor for the event, highlighted how Dr. T. M. A. Pai's educational vision remains as the cornerstone of Manipal's educational ethos. He noted that this legacy, deeply rooted in the institution's

history, remains a testament to its dedication to academic excellence for generations. Students admitted to Computer & Communication Engineering, Information Technology, Mechatronics, and Mathematics & Computing participated in the program.

On 19 July 2023, Mr. Amit Dhingra, Sr. Vice President, Risk and Compliance HCL Ltd., Noida (Mechanical Engineering, batch of 1998) was the Chief Guest for the event. Mr. Dhingra emphasized the transformative impact of his MIT experience, highlighting the role of friendships, knowledge, and overcoming challenges in personal and professional development. He also stressed the importance of instincts, common sense, and a solution-oriented mindset fostered by MIT professors in facing challenges. Dr. Narayana Sabhahit, Pro Vice Chancellor (Technology and Science), MAHE, Manipal was



the Guest of Honor for the event. Dr. Sabhahit elaborated on the abundant opportunities that lie before the students of MIT, Manipal, inviting them to harness the dynamic and innovative learning ecosystem. Students admitted to Electrical & Electronics Engineering, Electronics & Communication Engineering, Electronics Engineering (VLSI Des and Tech), Electronics and Instrumentation Engineering, and Cyber Physical Systems participated in the program.



On 20 July 2023, Ms. Mythili Kamath, Director - Flight Systems COE, Aerospace, Honeywell, Bengaluru (Electronics & Communication Engineering, Batch of 2002) was the Chief Guest for the event. Ms. Kamath underscored the importance of interpersonal connections and the significance of fostering relationships, even with individuals who may possess contrasting perspectives. Drawing from her personal journey as an MIT Manipal student, she recounted her

engagement in diverse projects and elective courses, highlighting the profound impact of such experiences.

Mr. Atul Batra, Product/Startup/India Ecosystem Advisor, (Computer Science & Engineering, Batch of 1993) was the Guest of Honor for the event. Mr. Batra stressed the significance of adopting a giving mentality over a taking one, elucidating

"The odds of hitting your target go up dramatically when you aim at it."

how it can pave the way for both achievement and contentment. He highlighted the intrinsic value of honing soft skills and cultivating a diverse mindset, attributes that are naturally nurtured at MIT Manipal. Additionally, he encouraged students to focus on research and take interest in gaining deeper knowledge in the field of science. Students admitted to Aeronautical Engineering, Biomedical Engineering, Biotechnology, Chemical Engineering, Civil Engineering, Mechanical and Industrial Engineering participated in the program.



Throughout the four-day event, Cdr. (Dr.) Anil Rana, the Director of MIT, Manipal, and Dr. Somashekara Bhat, the Joint Director of MIT, Manipal, took the stage alongside distinguished guests to extend a warm welcome to the newly admitted students of MIT, Manipal. The administrators provided comprehensive information each day, offering insights into various aspects of life at Manipal. Dr. Geetha Maiya, the Director of Student Affairs at MAHE, presented details about the diverse activities and initiatives designed to support the students. Dr. Raviraja Adhikari, the Associate Director (Academics), elucidated the academic procedures and processes followed at MIT, Manipal. The Chief Warden of MAHE, Air Commodore Col. Vinod Bhaskar shared valuable information concerning hostel facilities and guidelines.

Continued from page 01

Ms. Ashwita Pokala and Ms. Riti Ramesh, students in the Department of Civil Engineering at MIT, Manipal, designed the creche as their final year design project in 2021 while working under the guidance of Dr. Raghavendra Holla. Dr. Ranjan R. Pai interacted with students online and congratulated them on their creative ideas.



The design includes age-appropriate theme-based rooms, kid-friendly furniture and restrooms, foldable and modular furniture, CCTV live footage to parents, audio-visual aids in each room, a smart interactive board for early learning, a week's worth of planned activities, and a toddler outdoor park adjacent to the facility. The creche provides assistance

to children for speech, hearing, and brain-building exercises with the support of an experienced team of staff members deployed from MAHE and support from Manipal College of Health Professionals (MCHP), MAHE.

Dr. Arun G Maiya, Dean, MCHP, Manipal explained the details of the activities planned. The secretary of Chiguru team, Prof. Parthesh Shanbhag, Faculty, Department of Commerce, rendered the vote of thanks.

Engineer's Day Celebration and Professor P V Bhandary Memorial Oration

Manipal Institute of Technology (MIT), Manipal, on the occasion of Engineer's Day organised Professor P V Bhandary Memorial Oration on 15 September 2023. Dr. K. V. Venkatesh, a distinguished Professor from the Department of Chemical Engineering at the Indian Institute of Technology, Bombay, was the Chief Guest and the speaker at the event. He delivered the sixth lecture in the Prof. P V Bhandary Memorial Oration series, addressing the theme "Bringing Innovation through Higher Education: From Basic Research to Commercialization", Dr. Venkatesh emphasized the importance of translating academic research into practical solutions for societal benefit, with a particular focus on healthcare engineering and artificial intelligence applications.



The event also featured Dr. Narasimha Bhat, CEO & Founder of Manipal Dot Net Pvt. Ltd., as the Guest of Honour. Dr. Bhat delivered a special talk for Engineer's Day, highlighting the principles and practices of Sir M Visvesvaraya and their relevance to today's engineers and professionals. The event was presided over by Cdr. (Dr.) Anil Rana, Director of MIT, who emphasized the pivotal role of engineers in nation-building.

Dr. Somashekara Bhat, Joint Director of MIT Manipal welcomed the gathering. Dr. Balakrishna Prabhu K., Professor and Head, Department of Chemical Engineering and Dr M. V. Kini, Associate Director (Alumni, Public & International Relation) introduced the guests. Dr Bhagya R Navada rendered the invocation. Dr. Shankaranarayana Bhat, Associate Director (FD&W), proposed the Vote of Thanks. Dr. Ravi Prakash Y, Additional Professor, Dept. Of Physics anchored the event. The event was organized by the Office of the Associate Director of Faculty Development and Welfare. About 150 faculty members and students attended the event.



UNNATI (Work Integrated Learning Program): Diploma in Mechanical Engineering

A new initiative for promoting higher education for working professionals UNNATI Work Integrated Learning Program (WILP) was inaugurated on 27 March 2023 enabling CIPLA employees to pursue a “Diploma in Mechanical Engineering” through MAHE Manipal. It marked the culmination of a year-long effort by both the teams from MIT Manipal and CIPLA. The diploma will be conferred upon employees upon the successful completion of six semesters, which includes a combination of onsite, online, and student-directed learning. Weekend classes have been structured to facilitate the completion of the entire course in three and a half years. The first batch comprises thirty-eight students from CIPLA, Goa. Faculty members from various departments of MIT will facilitate delivery of courses and laboratory sessions.



The orientation program of the first batch was held on 28 July 2023 at the GOA facility of CIPLA. Dr. Somashekhar Bhat, Joint Director, MIT was the Chief Guest. He highlighted the journey of Manipal and the untiring efforts of its founder, Padmashree awardee Dr. T.M.A. Pai to establish an educational hub in Manipal. Mr. Vinay Bassi, Senior VP (HR) at CIPLA, encouraged CIPLA employees to seize the opportunity to upskill themselves, emphasizing the importance of seeking new knowledge and communication skills by actively participating in the learning process.

Cdr. (Dr.) Anil Rana, the Director of MIT, welcomed this initiative as a mutually beneficial collaboration between MAHE and CIPLA. He highlighted the substantial efforts put forth by various departments of MIT Manipal in developing the curriculum in consultation with CIPLA. Mr. Pankaj Shitole, the site head at CIPLA Goa, reiterated the sentiments expressed by Mr. Vinay Bassi and encouraged the newly enrolled students to make the most of the program to enhance their learning and skills.

Dr. Giridhar Kini, the Registrar of MAHE commended both MIT Manipal and CIPLA for designing a program that would empower young individuals to gain knowledge and upgrade their skills. Mr. Sachin Kaistha, Lead COE Operations and Strategic Projects at CIPLA, who was closely involved in designing of the curriculum, expressed his satisfaction on the successful fruition of the initiative.

During the orientation program, Dr. S S Sharma, Head of the Department of Mechanical and Industrial Engineering at MIT Manipal welcomed the attendees, while Dr. Raghuvir Pai, a Professor in Mechanical and Industrial Engineering, provided insights into the diploma program. Dr. Deepak, Professor, Department of Mechatronics, explained the academic rules and regulations, Dr. Ganesh elaborated on the technology platform used for delivering online course components, and Dr. Nitish and Dr. Girish coordinated the orientation program at the CIPLA campus. Dr. Rajesh Nayak and Dr. Pawan Hiremath handled the coordination from the MIT Manipal campus, and Mr. Anshuman Bhatta facilitated coordination at the CIPLA Goa facilities, assisting in organizing the orientation program. Dr. Nitesh Kumar, from the Department of Mechanical and Industrial Engineering, acted as the Master of Ceremonies for the event.

FDP on Motor Control Design and Code Generation with Simulink

The Department of Electrical and Electronics Engineering at MIT, in collaboration with MathWorks India Pvt. Ltd., successfully conducted a Faculty Development Program titled “Motor Control Design and Code Generation with Simulink” during 16 - 18 August 2023. Faculty members from NITK, Suratkal and MIT participated in the event for three days. During the inauguration, Cdr. (Dr.) Anil Rana, Director of MIT, emphasized the significance of such initiatives in enhancing teachers’ knowledge, thereby improving the teaching-learning process and preparing students to meet industry standards. Dr. Someshkhara Bhat, Joint Director at MIT, highlighted current trends in Power Electronic controls and applications. Dr. Chandrashekara S. Adiga, Head of the Department welcomed the gathering.



The program featured Mr. Shishir Patel and Dr. Apurva Kulkarni from MathWorks as resource persons, focusing on topics such as modeling, power electronics control design, embedded coder usage, customizing data characteristics, and function prototyping. The course was entirely hands-on and concluded with a motor control demonstration. Dr. Ciji Pearl Kurian, Senior Professor effectively coordinated the program alongside Dr. Sowmya R, Assistant Professor Senior Scale, of the department.

Two-day Online Workshop on 3D Animation for Physics Simulation

The Department of Media Technology organized a two-day online workshop titled “3D Animation for Physics Simulation” on 05 August 2023. The primary objective was to provide participants with comprehensive training in the fundamentals of 3D Animation, emphasizing its applications in physics simulations. Attendees had the opportunity to gain valuable skills in 3D modeling, animation techniques, and physics-based simulations. These skills are applicable across various academic disciplines and future career paths, promoting creativity, problem-solving abilities, and a deeper comprehension of physics concepts. The workshop garnered enthusiastic participation from a diverse range of individuals, including high school and degree students, as well as professionals from different regions of the country and even a participant from a Gulf country. The workshop was facilitated by Prof. Devicharan and coordinated by Dr. Nagaraj Kamath, Dept. of Media Technology.

National Symposium on Recent Trends in Biomedical Engineering 2023

The Department of Biomedical Engineering at MIT Manipal organized a Two-Day National Symposium on Recent Trends in Biomedical Engineering from 31 March to 01 April 2023. The symposium featured resource persons from various esteemed organisations, including IITPL, GE HealthCare, Mphasis, Dot Net Manipal, IIT Kharagpur, and KMC, Manipal. The symposium was conducted in a hybrid mode. Mr. Gaurav Agarwal, MD of IITPL, and an alumnus of MIT was the chief guest for the event. He shared valuable insights into the importance of market strategies for medical device development in the global context. Cdr. (Dr.) Anil Rana, Director, MIT presided over the function.



The symposium focused on topics such as medical device development, AI and ML, advancements in image processing, and rehabilitation techniques. The integration of medical and engineering concepts was emphasized as a potential catalyst for revolutionary advancements in the healthcare industry. The symposium served as a platform for the presentation and discussion of cutting-edge research and recent developments in various domains, including Bioinstrumentation, Biomedical Devices, Medical Imaging, Biomaterial and Tissue Engineering, Biomechanics and Rehabilitation, Internet of Things (IoT), Big Data, Machine Learning, and AI. Dr. G Muralidhar Bairy, Head of Biomedical Engineering welcomed the gathering. Dr. Cifha Crecil Saldanha, the Convenor,

provided the overview of the Symposium and Dr. Omkar Powar, Co-Convenor, delivered the vote of thanks.

The Valedictory of the symposium was held on 01 April 2023. Dr. Vaishali K, Professor of Physiotherapy MCHP, Manipal Academy of Higher Education, Manipal honoured the best poster award winner and distributed certificates to the participants.



Impressive Rankings in Education World

Four departments of MIT Manipal, namely Biomedical Engineering, Biotechnology, Data Science & Computer Applications, and Computer Science & Engineering have achieved impressive rankings by Education World. While the Biomedical



Engineering and Biotechnology departments scored the first rank, Data Science & Computer Applications, and Computer Science & Engineering departments scored a rank of 3 and 4 respectively at the national level.

The heads of the above departments were honoured with bouquets and plaques from Education World on 07 August 2023

Planting of Saplings- a collaborative outreach project

During the celebration of the 125th Birth Anniversary of Dr. TMA Pai, the visionary behind modern Manipal, an outreach project named 'Madhava Vana' focusing on social forestry in Udupi District schools was launched on 14 August 2023. The project's primary goal is to contribute to environmental sustainability and create a habitat for local wildlife. This initiative, held at the Composite Government High School in Shettibettu, Parkala, was inaugurated by Dr. Narayana Sabhahit, Pro Vice Chancellor (Technology & Science) at MAHE, Manipal, and Prof. S A Krishnaiah, an Environmentalist from Udupi.

Dr. Sabhahit emphasized the significance of projects like 'Madhava Vana' in mitigating soil erosion, floods, and global warming, promoting sustainability. Prof. Krishnaiah shared his inspiration drawn from the remarkable work of Smt. Sridevi, wife of Bopana Nayaka, who donated saplings for environmental conservation. He shared his experience of donating over 100,000 saplings to various places to date and encouraged students to pledge to plant at least 10 saplings annually. Cdr. (Dr.) Anil Rana, Director of MIT, emphasized the fortunate setting of the students in a lush, riverside environment and how projects like these can ignite environmental consciousness in schools. Dr. Somashekara Bhat, Joint Director, MIT, applauded the school and the entire organizing team for their efforts. Dr. Nagaraj Kamath, the Project Coordinator, introduced the program, while Dr. Raghavendra Holla, Assistant Director (Development) and Coordinator of Namami Gange, provided project details. Dr. Balakrishna Maddodi, Coordinator of the NSS unit-1 at MIT, detailed the NSS unit's future contributions to this endeavor. Smt. Sridevi Bai, the Head Mistress of the High School section, and Mr. Shankar Samanth, President of the school's DMC welcomed the gathering and Smt. Rathna, Head Mistress of the Primary section, delivered the vote of thanks. The event witnessed school students, NSS unit students from MIT, and guests planting saplings on the school premises to commemorate Dr. T M A Pai's 125th Birth Anniversary.



It is a joint venture of Manipal Institute of Technology (MIT), Manipal, the Namami Gange Project at MAHE, Composite Government High School, Parkala, the Massive Tree Plantation Drive - MeriLife Mission 2023, and the NSS unit of MIT.

Madhava Vana Project at Government Composite High School Saralabettu Parkala

MIT MAHE NSS Unit I & II, as a continuation of Madhava Vana Project at Government Composite High School Saralabettu Parkala, Udupi organized a planting of saplings. NSS volunteers of the institute planted approximately 70 saplings. This



initiative was part of the 125th Birth Anniversary of Dr. TMA Pai and the Namami Ganga Social Forestry Project. The primary objectives of this project were to conserve and protect Western Ghats species and enhance the overall environmental quality of the school and its immediate vicinity.

A total of 20 NSS volunteers, along with high school students, actively participated in this project. The initiative was inaugurated by Cdr. (Dr.) Anil Rana, Director and Dr. Somashekara Bhat, Joint Director. Dr. Nagaraj Kamath, the convenor of the project, and Dr. Balakrishna Maddodi, the NSS program officer, along with student volunteers engaged the school students in this noble environmental conversation endeavor.

Padma shri Awardee Salumarada Thimmakka visits MIT

The distinguished “Vrakhmatha” and Padma shri awardee, Smt. Salumarada Thimmakka, inaugurated the Swarna river watershed afforestation drive, a pivotal component of the ‘Namami Gange program’ on 26 July 2023 at MIT, Manipal. The core objective of the Namami Gange program lies in fostering public awareness and planting 10,000 saplings within the Swarna River basin. During the event, Smt. Thimmakka lauded MAHE for its steadfast commitment to transforming Manipal into a green campus and urged the university to persevere in similar eco-conscious endeavors. Mr. Umesh, son of Smt. Thimmakka, appreciated MIT and MAHE’s active engagement in the Namami Gange initiative. He emphasized the significance of planting indigenous fruit-bearing trees, which not only offer refuge and nourishment to avian and terrestrial fauna but also make a substantial contribution to the overall well-being of our ecosystem.



Neo Codeathon: MIT Edition

‘Neo Codeathon: MIT Edition,’ a dynamic event that brought together coding enthusiasts from various disciplines to demonstrate their talent and passion was organised on 19 August 2023, at the Innovation Center on the MIT Campus. The day commenced with a challenging preliminary round, where participants engaged in intense coding challenges, showcasing their coding expertise and innovative problem-solving skills. The top 20 participants from this round advanced to the final competition, which presented even more intricate coding challenges and fostered a competitive atmosphere.

The event concluded with a prize distribution ceremony, which was graced by Dr. K.V. Sriram, Associate Director-Industry Liaison, Placement & Practice School. Dr. Sriram emphasized the pivotal role of coding in shaping career prospects. Details of the winners: Yashas Kamath from the CSE Department (First Place, received Amazon Alexa), Harsh Bhansali from the ICT Department (Second Place, received a Smartwatch), and Kshiteesh Mani from the ICT Department (Third Place, received Bluetooth Headphones). Certificates of Excellence were awarded to the top 12 coders, and all participants received certificates for participation.

The ‘Neo Codeathon: MIT Edition’ was held in association with M/S iamneo, the industry collaborator.





Blood Donation Camp at MIT Manipal

To mark the celebration of 77th Independence Day and the 125th Birth Anniversary of Dr. TMA Pai at MIT Manipal, the NSS Unit organized a blood donation camp on 15 August 2023, at the Food Court-1 in MIT Manipal. Collaborating with the MIT Student Welfare Office, Abhayahasta Charitable Trust(R) Udupi, Lions Club Udupi Chetana, Rotaract Club Manipal, HDFC Bank Mangalore, and the Blood Bank Division of KMC Manipal, the event collected a record-breaking 215 units of blood from donors.



The camp was inaugurated by Cdr. (Dr.) Anil Rana, Director of MIT Manipal, who commended the voluntary blood donation initiative and its significance, stating that every unit of blood collected would bring relief and happiness to the recipients' families. Dr. Somashekara Bhat, Joint Director of MIT, distributed certificates to the donors and encouraged students to continue their altruistic work. Dr. Deepika from the Department of Blood Center, KMC Manipal emphasized the importance of blood donation. Dr. Poornima Kundapur, Associate Director, Student Welfare, MIT expressed her support for future blood donation initiatives by NSS volunteers. The event set a new record by collecting 215 units of blood from 386 student blood donors. The successful event was made possible through the dedicated efforts of NSS Coordinator Mr. Keethan, with support from numerous individuals, including Apathbandava Sri Satish Salian Manipal, Chairman of Abhayahasta Charitable Trust (R) Udupi, and MIT Administrative Officer Sri Ratnakar Samant. Ms. Shivani served as the master of ceremony. Mr. Santosh and Mr. Omkar Prabhu coordinated the stage program. The event concluded with a vote of thanks delivered by NSS Program Officer Dr. Balakrishna S Maddodi.

NSS UNIT I & II of MIT also organized a voluntary blood donation camp on 10 September 2023 at MIT Food Court I in collaboration with Abhayahasta Charitable Trust (R) Udupi, Lions Club Udupi Chetana, HDFC Bank Mangalore, and the Blood Fund Division KMC Manipal.

The blood donation camp was inaugurated by Cdr. (Dr.) Anil Rana, Director of MIT, who encouraged volunteers to continue organizing such camps regularly, emphasizing the significant impact on patients admitted to Udupi hospitals. Dr. Rana

himself donated blood, setting an inspiring example for students to participate in this noble cause. The event also saw the presence of Dr. Poornima Kundapur, Associate Director of MIT Student Welfare, Dr. Shamee Shastri, Head of KH BLOOD BANK CENTER, Lions Club Udupi Chetana's Sri Jagadish Acharya, and Abhayahastha Charitable Trust President Sri Satish Salian.

Dr. Balakrishna Maddodi, the NSS Program Officer, extended a warm welcome to all attendees, and Dr. Lakshman Rao P, NSS Program Officer, delivered the vote of thanks. Dr. Poornima Bhagavath compered the program.



Guest Talk on Leveraging Wettability Engineering for Energy, Water and Healthcare

Department of Mechatronics at MIT organised an enlightening guest talk by Professor Ranjan Ganguly, a renowned researcher in wettability engineering and its practical applications, on the topic “Leveraging Wettability Engineering for Energy, Water, and Healthcare” on 22 July 2023. The talk provided insights into how wettability engineering can address critical challenges in the energy, water, and healthcare sectors. Additionally, he discussed different wetting regimes, including superhydrophobic and superhydrophilic surfaces, and how they can be tailored to achieve specific objectives in energy, water and healthcare sectors. Following the presentation, Professor Ganguly engaged in an interactive session with the audience, resulting in discussions on real-world applications, technological hurdles, and the future of wettability engineering

Guest Talk on Altair Software Solutions for the Development of Smart Products

Department of Mechatronics organized a guest talk featuring Mr. Sushil Mane, Senior Technical Director from ALTAIR, on 20 July 2023. The talk focused on “Altair Software Solutions for the Development of Smart Products”. During his presentation, the speaker highlighted the tools employed by Altair and their potential applications in the realm of Mechatronics. These tools are widely utilized in domains such as automotive, aerospace, and product engineering and development. Additionally, the discussion delved into the use of AI/ML and model-based system engineering tools for IoT and Digital twin applications. Mr. Mane also explored internship opportunities for undergraduate and postgraduate students. Dr. D. V. Kamath, HOD, Department of Mechatronics presented a memento to the chief guest as a token of gratitude. Prof. D A P Prabhakar, Assistant Professor Senior Scale delivered the formal vote of thanks.

MIT, Manipal, MAHE enters a Memorandum of Understanding (MoU) with Macquarie University, Sydney, Australia. The formal signing ceremony was held on 28 August 2023 at the institute.

Azadi Ka Amrit Mahotsav - Har Ghar Tiranga Program



As a part of the celebration of Azadi Ka Amrit Mahotsav and the ‘Har Ghar Tiranga’ program, the NSS unit at MIT, in collaboration with the Department of Civil Engineering, distributed over 300 Indian national flags to faculty, staff, and students on 15 August 2023. MIT, Manipal acknowledges the generous contributions from Canara Bank and other donors.

Skill Development Workshop on- Basic MS Excel Hands-on Training

The Department of Civil Engineering at MIT conducted a workshop on basic MS Excel training for non-teaching staff as part of Dr. TMA Pai's 125th Birth Anniversary celebration on 12 September 2023. The workshop aimed to reskill staff members with limited MS Excel exposure, including Junior Engineers and library personnel. Mr. Abhimanyu U, Assistant Professor in the Department of Civil Engineering, welcomed participants and delivered the course content. Mr. Arun Kumar YM and Mr. Avinash AR, Assistant Professors, supported the event with their expertise. Mrs. Roopalatha, Deputy Engineer provided technical support. Participants from various departments made use of the workshop to enhance their skills in MS Excel.



Reliance Jio Business Head Delivers Insightful Presentation on 5G Technology

Mr. S Rajesh, Business Head of Karnataka Reliance Jio, discussed the evolution and profound impact of 5G technology in India in a special talk on 5G Technology jointly organised by the Office of the Student Welfare and Department of Electronics and Communication Engineering on 13 September 2023.

The presentation by Mr. Rajesh delved into the transformation from 4G to 5G technology, highlighting the exponential growth and potential it brings to India's digitalization journey. He emphasized the revolutionary impact of 5G across various sectors, including industry 4.0, education, agriculture, entertainment, and shopping experiences.



The event addressed Sustainable Development Goals related to Quality Education, Decent Work and Economic Growth, Industry, Innovation and Infrastructure, and Sustainable Cities and Communities (SDG 4, 8, 9, and 11). Dr. Somashekara Bhat, the Joint Director of MIT, emphasized the alignment in the vision of Reliance Jio and the institute. Ms. Esha Basik compered the event.

Chandraayaan Utsav

CHANDRAAYAAN UTSAV was inaugurated by Cdr. Dr. Anil Rana, Director of MIT Manipal, who addressed the students and encouraged them to contribute to space research and technology. He also expressed appreciation for ISRO's contributions and their successful mission. Dr. Somashekara Bhat, Joint Director of MIT, Associate Directors Dr. Ramachandra Murthy, Dr. Poornima Kundapur, Student Project Coordinator Dr. Nagaraja, and Assistant Director Dr. Pramod Shetty graced the occasion.



NSS program officers Dr. Lakshman Rao P, Dr. Poornima Bhagavath, Dr. Asha C S, and Dr. Balakrishna S. Maddodi coordinated the CHANDRAAYAAN UTSAV MOVIE SHOW. Students from various disciplines within MAHE Institution attended the movie show. NSS volunteers also arranged a musical dance program called "SPACE DANCE" to celebrate CHANDRAYAAN UTSAVA.

Talk on Polymeric Semiconductors for Flexible Organic Electronics

The Department of Physics organised a guest lecture by Professor Narayanasastri Somanathan, former Head and Senior



Principal Scientist of the Polymer Lab at the CSIR-Central Leather Research Institute, Chennai. The lecture, titled "Polymeric Semiconductors for Flexible Organic Electronics," held on 04 September 2023, was attended by faculty members, research scholars, and postgraduate students from the Departments of Physics, Chemistry, Printing, and Electronics. In the session, Professor Somanathan provided a comprehensive overview of conducting polymers, their diverse applications, and the impact

of chemical structural modifications on optimizing organic semiconductors to achieve white light emission from single polymers. Professor Mohan Rao K, Head of the Department, welcomed the speaker. Dr. Ismayil, Associate Professor coordinated the program.

Guest Talk on Building Inner Confidence

The office of the Associate Director (FD&W) organized a series of three sessions on the topic “Building Inner Confidence” for the benefit of students and Research Scholars of MIT. The sessions were conducted by Mr. Shivam, an alumnus of MIT, working as a Trainer and Emotional Intelligence Life Coach.



During the sessions, Mr. Shivam covered essential aspects of how building inner confidence can positively impact one’s approach to various situations. He emphasized the importance of developing self-awareness and the ability to evaluate one’s actions and emotional well-being. Mr. Shivam highlighted the significance of believing in one’s abilities and nurturing the core aspects of self for personal growth. Towards the end of each session, he shared practical techniques for managing emotions effectively in order to handle various situations. The sessions concluded with interactive Q&A sessions, providing the

participants with the opportunity to clarify their doubts.

Dr. S. N. Bhat, Associate Director, Faculty Development and Welfare, introduced Mr. Shivam to the audience during all three sessions. Dr. Siddappa I. Bekinal, Assistant Director, Faculty Development and Welfare delivered the vote of thanks.

Anti-Ragging Week Event fosters a culture of respect and inclusion

MIT, Manipal organised a series of meaningful events as a part of the Anti-Ragging Week at the institute during 12- 22 August 2023. In line with the guidelines set by the University Grants Commission (UGC) and the All India Council for Technical Education (AICTE), the initiative aimed to raise awareness and foster a campus environment free from the menace of ragging. The primary objectives of the event were to sensitize both students and faculty to the detrimental effects of ragging and underscore the significance of maintaining a respectful and secure learning atmosphere.

15



Cdr. (Dr.) Anil Rana, Director MIT inaugurated the initiative on 12 August 2023. He highlighted the significance of eradicating ragging and cultivating a culture of respect and kindness within educational institutions. The inauguration ceremony witnessed the participation of the Director, Joint Director, faculty, and students of MIT. Dr. Somashekara Bhat, Joint Director, MIT welcomed the gathering and all the participants took pledge of commitment to creating a safe and nurturing learning environment. Dr. Poornima Kundapur, Associate Director of Student Welfare, thanked the participants for their support in bringing the event to fruition. The Anti-Ragging Week was followed by a week of meaningful activities aimed at promoting a safe and inclusive educational environment.

The Anti-Ragging Week witnessed a series of activities aimed at promoting a ragging-free campus environment. The following is an overview of the activities:

Rangoli Competition

The Rangoli Competition, held on 12 August 2023, showcased the creativity of students from various departments. The participants created intricate rangoli designs under the theme "Harmony and Respect." Judges evaluated designs based on creativity, theme adherence, complexity, and visual appeal. The top two designs received recognition.



Poster Design Contest

An exhibition of thought-provoking posters advocating against ragging was held at the Innovation Centre's ground floor lobby on 16 August 2023. The 11 entries were judged on creativity, originality, message clarity, visual impact, and theme relevance.

Essay Writing Competition (Online mode)

The Essay Writing Competition encouraged students to share insights on combating ragging and promoting respect and inclusion. Students submitted over 50 essays in English, Hindi, and Kannada, which were judged based on originality, clarity of thought, research, and theme adherence.

Street Play (Nukkad Natak)

Members of the student club AAINA performed a powerful street play on 17 August 2023. The play portrayed the negative impact of ragging on victims and emphasized the importance of empathy and respect. Real-life testimonials were incorporated into the play, and it concluded with a collective pledge against ragging.

The weeklong event was concluded on 22 August 2023 with a valedictory session. Dr. Poornima Kundapur, Associate Director, Student Welfare summarized the week's activities, reinforcing the importance of treating fellow students with respect and empathy. Certificates of appreciation were distributed to judges, and cash prizes and certificates were awarded to the top participants. Cdr. (Dr.) Anil Rana, Director of MIT, congratulated the students on their efforts and urged them to maintain a safe and respectful learning environment.

The Anti-Ragging Week Event successfully raised awareness about the harmful effects of ragging and fostered a culture of respect and inclusion within the MIT community.



Three Day Workshop on Schrödinger Material Science

The Department of Chemical Engineering in collaboration with the Department of Computer Science & Engineering at Manipal Institute of Technology, Manipal organised Schrödinger Material Science Workshop during 04- 06 September 2023. The workshop was inaugurated by Lt. Gen. (Dr.) M. D. Venkatesh, Vice Chancellor, MAHE.

The workshop comprised introductory lectures on molecular simulations and hands-on training sessions, showcasing the practical applications in materials science, chemical engineering, chemistry, biology, biotechnology, nanotechnology, physics, and engineering. It provided participants with insights into Molecular Modeling tools and demonstrated the capabilities of the Schrödinger Suite through interactive training sessions conducted by Schrödinger Scientists. Enthusiastic participation was observed from a diverse audience, including students, faculty members, and researchers from various institutes affiliated with MAHE.

A broad spectrum of topics was covered during the workshop, including catalysis and reactive systems, polymeric materials, energy capture and storage, drug discovery, and metals, alloys, and ceramics. The field of computational molecular modeling is rapidly evolving, emphasizing the increasing significance of interdisciplinary collaboration and application diversity. The workshop succeeded in imparting valuable skillset and expertise to the participants in the domain.

The workshop also played a pivotal role in providing essential concepts, motivation, and a foundational understanding of molecular simulations in material science to all participants keen on utilizing the Schrödinger Suite in their research endeavors.



Schrodinger Workshop on “Biomolecular Modelling and Drug Design”

The Department of Computer Science Engineering and Department of Chemical Engineering, MIT Manipal in collaboration with the Manipal College of Pharmaceutical Sciences (MCOPS), MAHE, organised a three-day online workshop from 16 to 18 August 2023. The workshop primarily focused on the latest strides in atomic-scale biomacromolecular modeling and the practical application of Schrodinger modules in drug design. Computational molecular modeling stands as a powerful tool, employed to foresee and grasp molecular behaviour across an array of domains including biotechnology, nanotechnology, drug discovery, and pharmaceutical sciences.

The workshop was facilitated by distinguished industry professionals with expertise in Schrodinger suite. They shared their experiences and provided training to over 100 participants hailing from various disciplines such as chemistry, biology, engineering, computer science, biotechnology, physics, and pharmaceutical sciences.



The workshop was inaugurated by Cdr. (Dr.) Anil Rana, the Director of MIT, who emphasized the importance of interdisciplinary research. He also outlined the institute's strategic plans for enhancing research visibility. Professor Mallikarjuna Rao, Principal, MCOPS emphasized the role of modelling and simulation tools in drug design and delivery.

Workshop on Beyond the Droplet: Innovations in Liquid Handling through Pipetting Techniques

A workshop titled “Beyond the Droplet: Innovations in Liquid Handling through Pipetting Techniques” was held on 30 August 2023 by the Institution of Engineers - Biotechnology (IE-BT) and Department of Biotechnology, MIT Manipal. The workshop focused on enhancing pipetting excellence, precision pouring, fluid control, mastering microliters, and lab liquid control. The event attracted active participation from 58 students and 4 faculty members. The event provided participants with an in-depth understanding of Eppendorf Pipettes, various pipetting techniques, calibration and maintenance procedures, the critical aspects of volume measurements and error reduction, best practices in pipetting, and strategies for addressing common troubleshooting issues. The workshop was designed to be highly interactive, featuring hands-on exercises that allowed participants to put theory into practice. It instilled a sense of curiosity and the importance of continual learning, encouraging participants to stay abreast of the latest advancements in pipetting techniques, which are essential for their ongoing professional development.



One-Week Workshop on ‘Robotics and Industrial Automation’ (RIA-2023)

A one-week workshop on ‘Robotics and Industrial Automation’ was organized in honor of 125th birth anniversary of our founder, the late Dr. T. M. A Pai by the Department of Mechatronics, Manipal Institute of Technology, Manipal. It was held from 25 to 29 September 2023. The workshop was inaugurated by Cdr. (Dr.) Anil Rana, Director, MIT on 25 September 2023. In his presidential remarks Dr. Rana urged the participants to make the best use of the workshop by active participation. The organizing chairman of the workshop, Dr. D. V. Kamath, Professor and Head, Department of Mechatronics, MIT provided the overview of the workshop.

18

A total of 10 lectures and 5 hands - on sessions were held during the five days of workshop. Day 1 of the workshop covered the introduction of robotics and industrial automation, frame coordinates, and transformations along with the corresponding hands-on session using Robot Studio. Day 2 engaged the participants with introduction to robot modelling and a hands-on session on UR5-Cobot. On the third day, the concepts of forward and inverse kinematics for serial and parallel robots were covered along with a hands-on session using Robo Analyser software. The fourth day focused on the basics of robot dynamics, joint space, task space, and sensor integration, and control of robot drives. A hands-on session on the microcontroller boards was also included to give a practical exposure to the sensor-based control of the drives. The basics of control modelling of robots and robot vision for industrial applications were covered on the final day along with a hands-on session on OpenCV to detect color and shape for industrial applications.

During the Valedictory session, Dr. Somashekara Bhat, Joint Director, MIT, Manipal highlighted the importance of updating with the latest trends to solve problems faced by society. Dr. Ankur Jaiswal, Assistant Professor in the department and coordinator of the workshop thanked everyone on behalf of the organizing team.

A total of 30 participants from India and Turkey attended the workshop. Dr. Ankur Jaiswal, Dr. Umesh Kumar Sahu, and Dr. Vijay Babu Koreboina, Department of Mechatronics, MIT, Manipal coordinated the workshop.



Certification Courses offered by MAHE-ISAC CoE

MAHE-ISAC CoE conducted 2 certification courses on “Basics in IoT Security” and “Artificial Intelligence for Cybersecurity” in this quarter.

The first batch on “Basics in IoT Security” course was held from 04 to 09 September 2023 with 28 participants, and the second batch was held from 25 to 30 September 2023 with 29 participants. The course was facilitated by a team of experts drawn from the various departments of MIT, Manipal. Dr. Balachandra (ICT), Dr. Yashwanth N (ECE), Dr. Vidya Rao (DCA), Mr. Akshay K C (ICT), Dr. Nagaraj Kamath (Media), and Dr. Sujitra T (CSE) facilitated the sessions. The main contents of the course included introduction to cybersecurity and IoT security. It also included instruction on the basics of Arduino programming for IoT devices and covered various hacking scenarios involving critical infrastructure systems such as power stations, water treatment plants, HVAC data centers, smart meters, and airport systems.



The first batch of the certification course on ‘Artificial Intelligence for Cybersecurity’ was held from 11 to 16 September 2023. The course covered topics such as introduction to cybersecurity, implications of cyberattacks, importance of cyber awareness, and types of cyber threats. The course also focused on the use of AI and machine learning techniques in the realm of cybersecurity, with practical hands-on sessions. Twenty participants completed the course. Dr. Manjula C B, Dr. Sanjay Singh, and Dr. Girija Attigeri from department of ICT facilitated the sessions.

Tea with the Director for Faculty achievers

Beginning from this quarter, the “Tea with the Director” program is extended to our faculty members, with the objective of acknowledging and celebrating their achievements. These invitations have been extended to faculty members who have achieved important milestones such as completing their PhDs, publishing research in journals with high impact factors, securing research grants, receiving various awards, and granted with patents. Approximately 60 accomplished faculty members were invited to join the Director for tea during this quarter, with events held one each in the months of July, August, and September.



This initiative is expected to boost faculty morale, encourage collaboration, and result in growing number of such achievements in the future.



Dr. Rajeev Varshney, the Director of Defence Institute of Physiology and Allied Sciences (DIPAS)- DRDO, and **Dr. Asheesh Gupta**, Additional Director at DIPAS-DRDO visited MIT Manipal on 15 September 2023.

Besides meeting with the leadership at MIT, they also visited the Centre for Microfluidics, Biomarkers, Photoceutics & Sensors, and the Centre for Cyber Security.

Motivational talk to the students by Adjunct Faculty

Dr. Yogananda Jeppu V, Adjunct faculty and Fellow at Honeywell Aerospace India Limited, delivered a motivational talk to the students of third Semester Cyber physical systems on 16 August 2023. He also addressed the faculty and researchers in Aeronautical and Automobile engineering department to explore the collaborative research projects from Honeywell. On 17 August 2023, he also addressed both PG students from both Embedded Control & Automation, and Internet of Things. He appealed to the students to remain focused and dedicate themselves to conceptual learning. He also advised them to identify good research problem, propose relevant solutions and publish the research outcomes.



Internal Hackathon organized at MIT



Manipal Institute of Technology organized an Internal Hackathon on 15 September 2023 as a precursor to Smart India Hackathon 2023. This event was inaugurated by Dr. Yogananda Jeppu, Fellow at Honeywell Technology Solutions Ltd, Bengaluru and Dr. P R Venkateswaran, Senior Manager, BHEL, Bengaluru. Cdr. (Dr) Anil Rana, Director MIT, Dr. Somashekara Bhat, Joint Director, MIT, Manipal, Dr. Sucheta V Kolekar, Assistant Director (Innovation & Incubation) MIT, MAHE, Dr. Shreesha C, Head of the Department, Dr. S. Meenatchisundaram,

Additional Professor, and Dr. Cyril Joseph, Assistant Professor- Selection Grade from Department of Instrumentation & Control Engineering were present during the event.

Guest Talk on Electric vehicle powertrain 1D simulation

Department of Aeronautical and Automobile Engineering organized a guest talk on “Electric Vehicle Powertrain 1D Simulation” on 12 August 2023 for the benefit of the students of automobile engineering. Mr. Suraj S D, Founder and CEO, Decibels Lab Pvt Ltd, Bangalore, was the resource person who discussed various parameters involved in design and simulation of EV powertrain during his talk. He also spoke on future scope and placement opportunities for students of Automobile Engineering in EV sector.

The students of Automobile Engineering of 5th and 7th semester and MTech in Automobile Engineering attended the guest talk besides the faculty members from the department.



Memorandum of Understanding with organisations

- MIT, Manipal, MAHE signed a Memorandum of Understanding (MoU) with UD Truck. The formal signing ceremony was held on 11 August 2023 at MAHE, Manipal. The UD Trucks team visited MAHE on Friday, August 11, 2023, to formalize the signing of an MOU with Aero and Automobile Engineering Department.
- MAHE signed a Memorandum of Understanding (MoU) on 09 August 2023 with the Institute of Engineering and Technology (IET), a UK based professional organization. With this MoU, MAHE officially became an Academic Affiliate of IET. During the occasion, representatives from IET engaged MIT administration, faculty, and students in productive discussions on possible collaboration and the way forward.
- MIT, Manipal, MAHE has entered into a Memorandum of Understanding (MoU) with FIS Global Business Solutions India Private Limited. The MoU was signed on 01 August 2023. The MoU is valid for four years.
- MIT, Manipal, MAHE has entered into a Memorandum of Understanding (MoU) with 3BIGS Co. Ltd., on 21 September 2023. The MoU is valid for five years.
- MIT Manipal, MAHE has entered into a Memorandum of understanding (MoU) with Schneider Electric, securing a grant of 67.732 Lakhs (including GST) over a span of three years, beginning on July 1, 2023 for an interdisciplinary research project is titled "Data-Centric and EIS Approach to Predict the Performance and Lifetime of Battery Cells."
- MIT, Manipal, MAHE has entered into a Memorandum of Understanding (MoU) with Bureau of Indian Standards(BIS). The MoU was signed on 29 August 2023. The MoU is valid for five years.

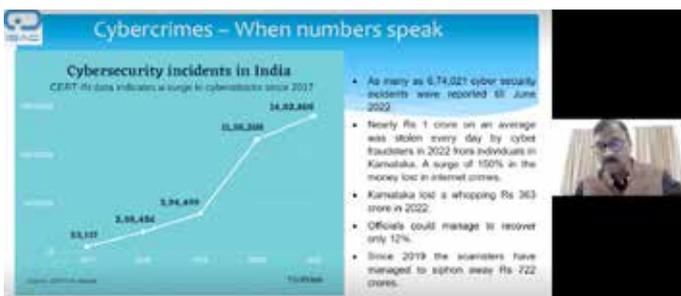
MIT Pravesh 2023: Institute Level Familiarisation Programs

Student Induction Program held at MIT Manipal

A weeklong Student Induction Program (SIP) held at MIT Manipal subsequent to the formal orientation program MIT Pravesh 2023 and department familiarization from 24 to 29 July 2023 for the newly admitted B.Tech students. A well-structured program was designed to give an insight into various aspects such as academic regulations & activities, placement and international relationships, research and innovation opportunities, discussions with the office of student welfare, interaction with the Teacher Guardians, student-related policies at MIT and activities of Major Student Projects. Through SIP, concepts of Universal Human Values (UHV), modules on Creativity, Problem Solving & Innovation and invited talks by external resource persons were also delivered. Additionally, the Director and Joint Director of MIT personally addressed all students in their classrooms, familiarizing them with their roles and responsibilities as students of engineering at MIT and MAHE.

Invited Talks During SIP

As a part of the student induction program two invited talks were organized on 29 July 2023 by the office of the Associate Director (FD&W) on topics of relevance to the newly joined students. The talks were delivered online for reaching all the students at a time. The first talk was delivered by Group Captain P Anand Naidu (Retired Indian Air Force Officer) on 'Cyber Crime Awareness and Opportunities in Cybersecurity', and the second was delivered by Mr Shivam, alumnus of MIT, 2014 batch of Aeronautical Engineering on 'Building Inner Confidence'.



Group Captain P Anand Naidu (Retired Indian Air Force Officer) has been associated with Information Sharing and Analysis Centre and Cyberange as Senior Advisor on policy and governance matters and with Cyber Security awareness programs, ISAC. Besides drawing the attention of the fresh students on the actions (intentional or unintentional), that would come under the cybercrime, he also elucidated that Cyber security is a field with many opportunities for youngsters, irrespective of the domain of study. He opined that as budding engineers, students of

MIT can equip themselves with the right cyber security skills, which will eventually help them build exciting careers. The talk ended with a question and answer session.

MIT Pravesh: PG Orientation Program 2023

On Monday, 07 August 2023, MIT conducted orientation sessions for its master's programs. The orientation for MCA and MSc. Programs was held in the forenoon, while the orientation for MTech programs took place in the afternoon.

During the morning session, MIT had the privilege of hosting Dr. K Vidya Kumari, Deputy Commissioner & District Magistrate of Udupi district, who attended as a parent of a student joining the MSc. Physics program at MIT Manipal.

Members of the MIT administration team, including Cdr. (Dr.) Anil Rana, Director, Dr. Somashekara Bhat, Joint Director, Associate Directors, Heads of the Departments, and academic staff of MIT attended both the programs.



Dr. Somashekara Bhat, Joint Director of MIT welcomed the participants, and Director Cdr. (Dr.) Anil Rana provided insights into the impressive facilities at MIT. Dr. Poornima P. Kundapur, Associate Director (Student Welfare), discussed MIT's support programs for students, while Dr. Ashok Rao, Associate Director, Research and Development, introduced the audience to the various aspects of research-driven learning at MIT. Dr. Raviraja Adhikari, Associate Director (Academics), shed light on the academic processes followed at MIT, Manipal.

Orientation for BTech Lateral Entry Students

The orientation program for B.Tech. Lateral Entry Students took place on 14 July 2023. The program commenced with an introduction to the university's history, vision, and mission, emphasizing MIT's unwavering dedication to excellence in education, research, and innovation by the Director, Cdr. (Dr.) Anil Rana.

Dr. Raviraj Adhikari, Associate Director (Academics) at MIT, explained in detail the academic regulations and processes



followed at MIT. Students were also provided with insights into the various facilities available on campus, such as libraries, laboratories, computer centers, and research facilities, all designed to support their academic endeavours. Dr. Shankaranarayana Bhat, Associate Director (Faculty Development & Welfare), gave a glimpse of the Lecture Capture Solution in place, the technology to support their asynchronous learning in addition to the classroom lectures.

Dr. Poornima P. Kundapur, Associate Director (Student Welfare) at MIT, shared valuable information about the numerous extracurricular opportunities available on campus. She also highlighted the mental health & wellness services and career counselling services available to students. Col. Vinod Bhaskar, the Chief Warden, emphasized on the Hostel policies and encouraged students to reach out to his office whenever needed and also provided details on the residential nature of the campus.

MIT Pravesh 2023: Department Familiarization Programs

1. Department of Aeronautical & Automobile Engineering

The orientation program for the I Semester Aeronautical Engineering students took place on 21-07-2023 at NLH103, with the participation of approximately 54 students. During the morning session, Dr. Pramod Salunkhe, Associate Professor of Aero and Auto Engineering, provided an overview of the department. Dr. T.G. Pai, Adjunct Professor, delivered an engaging talk on "Scope of Aeronautical Engineering, Opportunities, and the Future." Prof. Balbir Singh introduced the department's key features, including its facilities and faculty. Dr. Chandrakantha Bekal presented the course curriculum for B.Tech. Aeronautical, highlighting the scope and the features of Minor Specialization and B.Tech (Hons.). Dr. Manikandan conducted an interactive session with the students.

In the afternoon session, the students had the chance to visit various laboratories within the department, including the Avionics/Flight Simulation Lab, NVH Lab, Structures Lab, and Aerodynamics/Propulsion Lab. The lab visits were coordinated by Dr. Anoop K, Prof. Balbir Singh, Dr. Pramod Salunkhe, and Dr. Manikandan.



The orientation program for the I Semester Automobile Engineering students was held on 21-07-2023 at NLH203, with the participation of approximately 31 students. During the morning session, Dr. Satish Shenoy B, a Professor in the department, provided an overview of the department. Dr. Sriharsha Hegde served as the Master of Ceremonies for the program. Mr. Mayur Shetty, CEO of Blackfrog Technologies, delivered a talk on the Opportunities and Future of the automotive sector, emphasizing the entrepreneurship skills that MIT Manipal instills in its students. Mr. Flaxon Nazareth, a student from the Batch of 2023 in B.Tech. Aeronautical Engineering, shared insights about Semester abroad programs at international universities, having experienced the program at the University of Sydney, Australia during

2022-23. Dr. Padmaraj N H presented the course curriculum for B.Tech. Automobile, including features related to Minor Specialization and B.Tech (Hons.). Dr. Anand Pai introduced the department's faculty, staff, and infrastructure facilities. Dr. Chethan K N engaged in a Q&A session with the students.

In the afternoon session, the students had the opportunity to visit various laboratories within the department, including the Engine/Transmission Lab, Composites/NVH Lab, Avionics/Flight Simulation Lab, and Aerodynamics/Propulsion Lab. The lab visits were coordinated by Dr. Padmaraj N H, Dr. Vijay T, and Dr. Anand Pai.



2. Department of Biomedical Engineering

Dr. G Muralidhar Bairy, Professor and Head of the Department of Biomedical Engineering, provided an overview of the department to the incoming batch of Biomedical Engineering students on the first day. During his address, he provided insights into the department's profile, outlined its vision and mission, discussed the placement scenario, and highlighted the various advantages of pursuing a degree in Biomedical Engineering. Dr. Bairy also introduced the department's faculty members and commended the accomplishments of students within the department.



Dr. Niranjana S, Dr. Jeevan, Dr. Pramod, and Dr. Mathew engaged in discussions with the parents of the newly admitted students, during which they explained the program's scope and addressed their queries. Additionally, alumni of the Biomedical Engineering program, including Malaika Chaya (2022 batch, currently pursuing M. Tech in Biomedical Engineering at IIT Hyderabad) and Nancy (2020 batch, pursuing Master's in Medical Informatics at the University of Amsterdam, Netherlands), interacted with students and shared their experiences as undergraduate students in the Biomedical Engineering program at MIT.



Following this, Mr. Justin, a senior BME student and President of IEEE EMBS, delivered a presentation highlighting the advantages of students joining technical society. The discussion was then expanded to cover the specifics of the IEEE EMBS chapter and its initiatives, presented by Mr. Ashrith, another senior student. Additionally, senior students shared insights into the activities of the Biomedical Engineering Society of India, Manipal chapter. Dr. Vikas Bhat, the faculty advisor, provided an overview of the activities conducted during the academic year 2022-2023.

Following the lunch break from 2.30 to 3.30 PM, the students had the opportunity to hear from Lt. Cdr. Geethalakshmi P M (Rtd), who currently serves as an Assistant Professor (Sr. Scale) in the Department of Humanities and Management at MIT. She engaged the students in an interactive session and provided insights into their responsibilities as engineers in the society.

The students were also given the opportunity to explore the different laboratory facilities within the department. Prof Devadas Bhat, Dr. Amrithanshu Gupta, Dr. Pramod, Mr. Shamanth, and several research scholars guided the students through the current research endeavors and showcased various product developments taking place within the department.



3. Department of Biotechnology

The Department of Biotechnology convened an important session to deliberate on the orientation program for incoming B-Tech students. The purpose of this meeting was to collectively strategize and arrange an interactive and informative orientation session designed to welcome and acquaint the new students with the academic setting, departmental resources, and potential prospects. The meeting took place on July 21, 2023, and was attended by faculty members, administrative personnel, and student representatives.



The event commenced with a formal welcome by Dr. S. Balaji, Head of the Department of Biotechnology, extending a warm greeting to all the students attending the orientation program. Ms. Ishvarya, a PhD scholar, followed with a welcome address for the guest speaker, Dr. Peralam Yegneswaran Prakash, who holds the position of Associate Professor in Microbiology at KMC Manipal.

Dr. Prakash initiated the session with an engaging clapping exercise that infused enthusiasm among the students. He emphasized the significance of understanding the diversity of microorganisms in our surroundings, the diseases they can cause, and how biotechnology serves as a tool to combat these issues. His insightful talk lasted for approximately an hour, after which Dr. S. Balaji, the HOD, invited Dr. Ramananda Bhat, Professor and former HOD, to express gratitude to the guest speaker.

Dr. S. Balaji provided a comprehensive introduction to the Department of Biotechnology. Through his presentation, he delved into essential aspects such as the department's achievements, its ranking among Indian institutes, and notable alumni.

Subsequently, all the faculty members introduced themselves to the students and extended a warm welcome to the department. Dr. S. Balaji concluded his presentation, and invited Dr. Subbalaxmi, an Assistant Professor, to provide insights into the student club, IEBT.



Dr. Subbalaxmi elaborated on the functioning of the IEBT (Institute of Engineers - Biotechnology) club and highlighted its significant events and accomplishments since its inception. She provided details about the club's alumni talks, soft skills workshops, and industrial visits, all of which aimed to engage and benefit students. Her presentation is likely to pique the students' interest in becoming active members of the club.



Dr. Ritu Raval, Associate Professor, provided an introduction to iGEM. The iGEM competition and information about the Manipal Biomachines Club were then presented by Ms Nidhi,

a B-Tech student, with support from other club members. The engaging presentation delivered by these enthusiastic students ignited a wave of inspiration among the audience.



4. Department of Chemical Engineering

The familiarisation program for first-year B.Tech. Chemical Engineering students took place on 21 July 2023. Session on Beating the Blues on Mental Health Awareness by Dr Rayan Mathias, MAHE Student Counsellor and facility tour where held. The familiarisation program was attended by about 38 students, and 10 faculty members from the department.



5. Department of Civil Engineering

Department of Civil Engineering held the undergraduate orientation program on 21 July 2023 at the MIT - KEF R & D Centre Auditorium. Dr. Purushotham G Sarvade, Head of the Department of Civil Engineering extended a warm welcome to the attendees and provided an overview of the department, including its facilities and offerings.



The subsequent session featured a presentation by Mr. Pashangh Lavangia, an MIT Civil Engineering alumnus from the batch of 2014-18. Currently employed as a Strategy Consultant at Bain and Co. in Mumbai, he motivated the incoming students with insights on "Maximizing Your Manipal Experience."



This was followed by a talk by Dr. B H V Pai, Professor in the Department, who delivered an inspirational address to the students, enriching the sessions with valuable insights and captivating stories, making the interactions more vibrant and engaging.



The subsequent sessions consisted of a series of talks focused on specific domains, beginning with Prof. Vishnu Unnikrishnan shedding light on Construction Engineering and Management, followed by Dr. Sharanappagouda discussing Geotechnical Engineering, Prof. Avinash delving

into Structural Engineering, Prof. Girish M G exploring Transportation Engineering, and Prof. Shilpa Ratnoji highlighting the field of Environmental Engineering.



The subsequent presentation was delivered by another MIT Civil Engineering alumnus (UG 2004-2008 & PG 2009-2011), Mr. Amit Aravind from Archana Projects, Udipi. His motivational talk centered around the topic "Why Choose Civil Engineering?" and marked the conclusion of the Forenoon session.



The afternoon session began at 2:30 pm, during which the students had the opportunity to visit several labs within the Department of Civil Engineering. These included the Structural Engineering lab, Material Testing lab, Geotechnical lab, Environmental Engineering lab, Survey lab, and Strength of Materials lab.

Following the lab visits, the students gathered again at the MIT-KEF auditorium. Here, they were introduced to and briefed about the IE Civil and ASCE clubs by Prof. Arun Kumar Y M and Dr. Poornachandra Pandit.

The subsequent session revolved around career opportunities and was presented by Prof. Laxman Kudva. He provided insights into the institute's placement process and sensitized the students to it. During this session, there was also a brief overview of the placement statistics.

The subsequent segment of the session involved an interactive discussion led by Mr. Vishnu Sharma, formerly a faculty member in the Department of Civil Engineering, currently an entrepreneur with his startup in the field of waste management. He provided insights into the strengths, weaknesses, opportunities, and threats (SWOT analysis) within various domains of Civil Engineering, with a primary focus on the Environmental stream.

6. Department of Computer Science and Engineering

The Department of Computer Science and Engineering organized a four days of Familiarization and Orientation Program for the 1st-year B.Tech. (CSE) and 1st-year B.Tech. (CSE, AI/ML) students of the 2023 Batch, held from 18 -21 July 2023. Dr. Srikanth Prabhu, Additional Professor, and Dr. Kishore B, Associate Professor, in the Computer Science and Engineering Department, served as the program coordinators.



On the first day, 18 July 2023, department familiarization was held, where senior faculty members introduced the students to the courses offered in the department and the facilities available. On the second day, the guest Mr. Premnath Kudva delivered a talk starting with his experiences at MIT, particularly focusing on his student life. The guest effectively drew comparisons between technologies from bygone eras, such as payment systems, credit cards, and automobiles, and contemporary Internet-era technologies. This was exemplified through concrete real-world examples. The talk served as a valuable resource, shedding light on various facets of technological trends and gaps for the benefit of the upcoming generation of MIT students.



In the subsequent sessions on 19 July, Ms. Reshma Srinivasan introduced various entrepreneurship concepts, providing a comprehensive overview of the stages crucial for achieving success in entrepreneurial endeavors. Following the discussion, students were organized into groups where they engaged in collaborative brainstorming sessions to devise innovative business solutions for contemporary challenges. Mrs. Supriya R Kamath, an accomplished Engineer cum Entrepreneur, shared her perspectives on essential qualities and determination required in the entrepreneurial journey.

On July 20, 2023, the sessions centered on Automation and Interdisciplinary Learning. Mr. Amit Aravind (an alumnus of MIT, Civil Engineering), an entrepreneur, shared insights into automation career tips, underscoring the significance of interdisciplinary approaches in solving real-world

challenges. Dr. Sumukh S. Hungund and Dr. Dasharathraj Shetty faculty members of MIT highlighted the connect between technology and humanities, emphasizing the importance of domain knowledge and collaboration. Dr. Giridhar B Kamath, another faculty member of MIT elaborated on the value of incorporating management and humanities in Computer Science and Engineering (CSE) and elucidated on minor specializations in humanities. Mr. Ritwik encouraged students to allocate less time to social media, redirecting their focus towards societal activities to foster entrepreneurial skills. Finally, Mr. Mehran delved into the art of trading and offered insights on enhancing communication skills.



On 21 July the sessions were centered around Career Guidance and a Hackathon. Mr. Pramod Fernandes from Manipal Technologies Limited offered valuable insights into career paths. Mr. Prakash Prabhu, AGM at Manipal Technologies Limited, provided an intriguing discussion on graphology. Alumni Mr. Prashanth Hegde and faculty member Dr. Sucharitha Shetty delved into Corporate Social Responsibility. The orientation program culminated with a dynamic Hackathon, where students applied Design Thinking to address AI-related challenges across different domains, showcasing innovative problem-solving solutions.

These sessions aimed to provide students with a holistic understanding of their field of study, encourage interdisciplinary learning, and inspire them to become future leaders and entrepreneurs in the technology industry.



7. Department of Electronics and Communication Engineering

The Department of Electronics and Communication Engineering conducted an orientation and induction program in 2023 on the 20th and 21st of July. This program was designed for the newly admitted students in the department, including 240 students in the Electronics and Communication Engineering program and 60 students in Electronics (VLSI Design and Technology).

The orientation commenced with an introduction to the ECE department for the first batch. Dr. Kumara Shama, HoD of ECE, conducted this session in the ECE Seminar Hall, while Dr. Subramanya G Nayak led the session in the VLSI Lab.

A similar session was held for the second batch of students. Dr. Kumara Shama presented in the ECE Seminar Hall, and Prof. Dr. M Sathish Kumar conducted the session in the VLSI Lab.



The students from the first batch were divided into five groups, each consisting of approximately 30-35 students. Research scholars, namely Tanya, Srija, Akshaja, Susmita, and Sharini, took charge of guiding these groups during their visits to different labs. The visits were carefully organized in a predetermined order to prevent any overlap between groups and to ensure discipline throughout the lab tours. Lab coordinators, along with some ECE faculty members, provided detailed explanations of the lab facilities, equipment, and software packages.



Batch 2 students had outdoor activities planned for them, which took place in the ECE Foyer, an open area suitable for accommodating approximately 150 students.

Various activities for networking, team building, and leadership development were held in the department.



The activities were organized and coordinated by Mrs. Navya K T, Mrs. Akshatha, Dr. Anitha H, Mr. Muralikrishna, Mrs. Aparna V, Dr. Yashwanth N, Dr. Vinod Joshi, Dr. Aparna U, Dr. Dayanand Nayak, Dr. Kanthi, Dr. Bore Gowda, Dr. Shounak De, Dr. Supreetha, Dr. Subramanya Nayak, Dr. Ramya S, and Dr. Ravilla Dilli, who provided their support to ensure the smooth conduct of these activities.

Amidst the outdoor activities, Mr. Chandrakanth Shenoy, an alumnus of the ECE department (from the 1998-2002 batch), paid a visit to the department and graciously accepted the invitation to speak to the assembled students during the orientation program.

The second day of the dept. orientation was focused on various invited lectures and exploratory talks essential that would help the students not only in their academic growth but also to develop technical skills and their wellbeing. The schedule of the day 2 events is listed below:

The second day of the departmental orientation was dedicated to a series of invited lectures and informative talks aimed at enhancing the students' academic progress, technical skills, and overall well-being. The schedule for the events on the second day is as follows:



A Special guest lecture titled "Open Source and Internship Opportunities" delivered by Dr. Mohit Tahiliani, Assistant Professor from the Department of Computer Science and Engineering at NITK Surathkal was organized during the program.

Dr. Mohit Tahiliani, who currently serves as the Chair of the IEEE Mangalore sub-section for the year 2023, discussed various activities beneficial for students. To express their appreciation, Dr. Kumara Shama, the Head of the ECE Department, extended a token of gratitude to him.



The second invited speech revolved around the topic of “Managing Life’s Challenges Under Pressure” and was delivered by Dr. P. V. Bhandary, who holds the position of Director at Dr. A. V. Baliga Memorial Hospital in Udupi. Dr. Bhandary provided students with valuable guidance on managing life as students and adolescents. He emphasized the importance of seeking professional counseling when facing difficulties and offered advice on effectively dealing with life’s pressures. Dr. G.S. Nayak, Professor in the Department of ECE, presented a memento to Dr. Bhandary as a gesture of appreciation.



The third invited speech titled “Metamorphosis” was delivered by Mr. Utkarsh Sinha, Director of Engineering and Management at Bucolic Kailash Agritech & FMCG Pvt Ltd. Mr. Sinha is also an MIT Manipal alumnus.



Mr. Utkarsh Sinha shared his life experiences as a former Manipal student and explained how these experiences ultimately shaped his career as an entrepreneur. As a gesture of appreciation and gratitude, he was honored and congratulated by Dr. Pallavi R Mane, Professor in the Department of ECE at MIT Manipal.



The fourth invited presentation was titled “My Himalayan Journey” and was delivered by Mr. Ganesh Nayak, Assistant Professor, Department of ICE at MIT Manipal.

During his presentation, he recounted his adventurous life journey and emphasized to the students the significance of setting life goals and pursuing them with unwavering determination and persistence.

The fifth session focused on “Fitness through Zumba” and was led by Mrs. Prajnaya, a passionate Zumba trainer who also works as an advocate in Udupi District. She engaged with the students and emphasized the significance of maintaining fitness and overall well-being in life. She delivered an impressive performance that motivated students to join in and enjoy the concluding session.

Dr. Pallavi R Mane, Professor in the Department of ECE, expressed appreciation by presenting a memento to Mrs. Prajna as a gesture of gratitude.



8. Department of Electrical & Electronics Engineering

The Department Orientation commenced with Dr. Bindu S, Associate Professor, and Ms. Prathvi Shenoy, Assistant Professor, serving as the Masters of Ceremony.

The morning session initiated with a warm welcome and program introduction by Prof. Dr. R Shivarudraswamy. Head of the Department, Dr. Chandrashekara S. Adiga, provided an overview of the day's program and encouraged students to make the best use of the institute's facilities.

Subsequently, Mr. James Antony Pinto, Assistant Professor - Senior Scale, delivered a presentation on the "Overview of the E & E Department." He explained the department's facilities, shared placement data, and highlighted the achievements of both students and faculty. Dr. Savitha G. Kini, Professor, discussed the academic processes and provided guidance during her presentation on "Academics & Student Support System in the Department."



The afternoon session, started at 2:30 PM, featured a seminar on "Stress Management" by Prof. Satyakam, Assistant Professor in the Dept of E & E. Following this, Dr. Vinod V Thomas, Professor & Registrar - Evaluation(MAHE), delivered a seminar on "The Electrical Engineer of 2020 & Beyond."

The one-day department-level familiarization program concluded with closing remarks and a Vote of Thanks delivered by Dr. Bindu, Associate Professor, and Ms. Prathvi Shenoy, Assistant Professor.

On the following day, July 21, 2023, students participated in laboratory visits. They were divided into groups and guided by faculty members to various departmental laboratories, where they were introduced to the specialized equipment available in each lab.



9. Department of Instrumentation and Control Engineering

The Department of Instrumentation and Control Engineering at MIT conducted an orientation program for the incoming first-year students on the 20th and 21st of July 2023. The program aimed to introduce the newly enrolled students to the department, provide insight into academic procedures, and offer valuable information through guest speakers on various pertinent subjects.



The first day of the orientation program for first-year students enrolled in B.Tech Electronics and Instrumentation (E&I) and Cyber Physical Systems (CPS) commenced with a warm welcome from Dr. Shreesha C, Professor and Head of the Instrumentation and Control Engineering Department in AB5-209, and Dr. S. Meenatchisundaram, Professor in the department, in AB5-210. They conducted an informative presentation about the department and its various activities.

This session placed a significant focus on several key aspects, including the background of the department, the mission and vision statements guiding its trajectory, and an overview of the courses offered, specifically B.Tech in Electronics and Instrumentation, and B.Tech in Cyber Physical Systems. Attendees gained detailed insights into the structure of these courses, accompanied by highlights of notable achievements by both students and faculty members within the I&CE Department. The session also showcased impressive records of student placements from the department and provided valuable information about internships and practice schools tailored for undergraduate projects. In the latter part of the day, the students had the opportunity to visit the department's laboratories.

Dr. Manesh Thomas provided an overview of the initiatives undertaken by Manipal-GoK, the bio-incubator associated with MAHE. He motivated the students to explore their innovative ideas and consider establishing their own startup ventures. He assured them of comprehensive assistance and support to help transform their startup dreams into reality.





Mr. Ganesh Nayak, a faculty member from the I&CE department, addressed the students about his profound passion for cycling and the remarkable impact it has had on his life. He recounted his personal experiences from a cycling expedition to the Himalayas and provided insights into the activities organized by the Department of Outdoor Studies, which operates within MAHE.



A dedicated session was conducted to cater to the B. Tech Cyber Physical Systems (CPS) students. Dr. Santhosh K V , Professor from the department provided an informative overview of the program, its scope and opportunities to the CPS students.

10. Department of Information and Communication Technology

A department-level Orientation Program was conducted for the 1st-semester CCE and IT students, with coordination led by Dr. Santhosh Kamath. The students were divided into five batches, each consisting of around 50 to 70 students.

Distinguished faculty members, including Dr. Smitha N Pai, Head of the Department of Information and Communication Technology, Dr. Manjula Shenoy, Dr. Poornalatha, Dr. Chandrakala, and Dr. Raghavendra Achar, provided valuable insights about the department and its academic offerings. They also shared information about the department's facilities and guidelines for students.

Placement coordinators Dr. Kaliraj, Dr. Satyajith, and Dr. Pankaj gave a comprehensive overview of the placement process and opportunities available to the students.

Additionally, Dr. Parul Gupta from the Department of Accommodation Operations at WGSMA, MAHE, Manipal, conducted a session on soft skills. This session was thoughtfully designed to acquaint students with essential skills needed for success in their professional journeys. Through active participation, students gained a deeper understanding of the significance of soft skills and etiquette. They also acquired practical techniques to enhance their professional interactions.

Overall, this orientation aimed to provide students with a well-rounded introduction to the department, emphasize the importance of soft skills and etiquette, and equip them with practical strategies to excel in their professional endeavours.



Dr. Shwetha T S and Dr. Indu Toby from MCHP, MAHE, provided valuable information to the students about the various opportunities that await them. They engaged with the students on the topic of achieving a balanced perspective in life, emphasizing that happiness can be found by cherishing the past, living in the present, and striving for the future.

Furthermore, they discussed common adjustment issues that students might face, such as homesickness, the challenges of hostel life, lifestyle adjustments, and the quest for personal freedom. They also addressed academic concerns,

including low grades, failure, and poor attendance, helping students identify the reasons behind these issues.

Ms. Indu Toby offered helpful tips on maintaining a healthy lifestyle and managing everyday stress. These tips included incorporating at least 20 minutes of aerobic exercise into each day, enjoying music, consuming balanced meals with whole grains, nuts, fruits, and vegetables, and substituting fruits for desserts. Other recommendations encompassed getting at least 7 hours of sleep, practicing relaxation techniques like imagery, daydreaming, prayer, yoga, or meditation, taking warm baths or showers, and going for walks. These strategies were presented as effective ways to reduce stress.

The participants of the orientation program had a rewarding experience, engaging in various practical exercises and discussions. Throughout the session, there were opportunities for participants to ask questions and seek clarification, ensuring that their doubts and queries were addressed comprehensively.

As part of the orientation program for first-year IT/CCE students, a session on “Prevention of Substance Abuse” was conducted by Dr. Binil and Dr. Savitha from MCON (Manipal College of Nursing). The session featured Dr. Binil V, an Associate Professor at Manipal College of Psychiatric (Mental Health) Nursing, and Dr. Savitha, also an Associate Professor at MCON Manipal.



During the session, the speakers addressed several important aspects related to substance abuse. They discussed common myths and facts about drugs, how individuals can develop dependencies on drugs, and the potential consequences of drug dependency. They also emphasized the prevalence of drug usage and the various stages a person may go through during this phase.

Moreover, the session covered preventive measures and provided guidelines on what to do and what to avoid. The speakers also shared insights on how individuals struggling with addiction can embark on the path to recovery. Approximately 75 students participated in this informative session, which was coordinated by Mr. Akshay KC, Assistant Professor - Senior Scale.

Dr. Sanjay Singh, Professor from the ICT Department at MIT, Manipal, delivered a talk on “Adopting a Productive Student Lifestyle.” In today’s digital age, students often face numerous distractions from social media, news, and entertainment. Additionally, unhealthy eating habits and a lack of physical activity can have adverse effects on their overall health. This talk aimed to guide graduate students on how to proactively address these challenges to excel academically and, ultimately, in their professional lives.

During the presentation, Dr. Sanjay Singh introduced the OMM model, which serves as a benchmark for becoming a productive student at MIT, Manipal. The OMM model likely encompasses strategies and practices that enable students to maintain focus, manage time efficiently, and strike a balance between their academic and personal lives, all contributing to their overall productivity.

Dr. Krishna Raghava Hebbar, a faculty member from the Division of Ayurveda at the Center for Integrative Medicine and Research, MAHE, delivered a talk on the “Significance of Nutritious Food for a Healthy Body and Mind” to first year BTech students on July 21, 2023. During his presentation, Dr. Hebbar discussed the impact of a nutritious diet on various aspects of health, including physical well-being, mental health, energy levels, brain function, digestive health, weight management, longevity, quality of sleep, and stress management. He emphasized that a balanced and wholesome diet serves as the cornerstone for maintaining a sound body and mind. Such a diet not only provides the essential nutrients required for physical health but also plays a pivotal role in supporting mental clarity, cognitive function, and emotional equilibrium.

Furthermore, Dr. Hebbar underscored the importance of making mindful and informed choices regarding our dietary intake. These choices, he explained, can significantly influence our overall quality of life, contributing to a healthier, happier, and more productive existence.



Mr. Kushagra Tandon, who graduated from the IT branch in the 2020 batch, Aditya Rathode, an alumnus of the CCE branch from the 2020 batch, Mr. Ram Rati, who graduated from the CCE branch in 2021, and Ankit Awal from the IT branch, graduating in the 2017 batch, shared their valuable

experiences with the new entrants of the I&CT department. During their insightful talks, they underscored the pivotal role played by IT/CCE subjects in various industries, highlighting their enduring relevance and significance in the professional realm. They also expressed profound gratitude to the dedicated and supportive faculty members who had been their guiding lights throughout their academic journeys.

Furthermore, the alumni recounted their enriching experiences as active participants in numerous technical and non-technical clubs during their time at MIT. Kushagra fondly reminisced about his vibrant hostel life and the sense of community it offered. Throughout their interactions, Kushagra emphasized the importance of unwavering focus and commitment throughout the course of study, and he highlighted the transformative impact of involvement in open-source projects.



During the Q&A sessions, the alumni addressed numerous queries from the students, covering a wide range of topics related to the department, courses, hostel life, and insights into the overall atmosphere and culture of MIT. In summary, their talks served as a powerful source of motivation, inspiring students to make the most of their time at MIT and to embrace the opportunities and experiences that lie ahead.



Dr. Balachandra, Professor in the ICT department, provided valuable insights into the realm of cybersecurity. Dr. Manohara Pai MM, Senior Professor, shed light on the subject of Intelligent Technologies and Research. Ms. Nisha delivered a talk on Responsible AI and its far-reaching implications on matters related to privacy and ethics.

The department's orientation program, held from 19 to 21 July 2023, featured engaging sessions on design thinking and an ideation competition for first-year students. These sessions aimed to impart essential knowledge about design thinking, emphasizing its core concepts, mindset, and methodology. Design thinking is an innovative and collaborative problem-solving approach that encourages creativity and empathy to address intricate challenges. It follows a structured process involving empathizing with end-users, defining problems, generating potential solutions, creating prototypes, and conducting testing.



Following the design thinking sessions, an ideation competition was organized, challenging students to apply all phases of design thinking to devise creative solutions. Different themes were assigned to various student batches, including Waste Management, Water Scarcity, Mental Health, Procrastination, and Classroom Education. The competition commenced with the formation of teams, each tasked with designing a poster and delivering a presentation. Students enthusiastically participated in both the sessions and competitions, with Dr. Sucheta Kolekar, Dr. Girija Attigeri, and Dr. Manjula C B facilitating and coordinating these insightful activities.



Dr. Nishanth Bhat, an Associate Professor in Medical Microbiology, led a session focused on self-defense. A talk addressing anxiety issues among students was conducted by Dr. Karuna, Mr. Jeevan, Ms. Shilpa, Ms. Sujatha, and Ms. Josna.

The importance of Ayurveda in today's life was discussed by faculty members Dr. Sripathi Adiga, Dr. K Hebbar, and Dr. Aparna from the Department of Ayurveda at KMC Manipal.

11. Department of Mechanical & Industrial Engineering

The Department of Mechanical & Industrial Engineering conducted a "Department Familiarization Programme" for 1st-year B.Tech. students enrolled in Mechanical Engineering and Industrial Engineering streams on Friday, 21st July 2023. The total cohort, comprising approximately 220 students, was divided into four batches. Parallel sessions were organized in the morning from 9:30 AM to 12:00 PM for two of the batches, while the other two batches visited various institute facilities. In the afternoon, between 2:30 PM and 5:00 PM, the activities were swapped.

The lecture sessions included the following topics:

1. Department Introduction - Presented by Dr. S.S. Sharma, the Head of the Department.
2. The Importance of Research in Undergraduate Education - Led by Dr. Raghuvir Pai B. and Dr. Vishwanath Managuli.
3. Introduction to Different Streams of Mechanical & Industrial Engineering - Conducted by a team of senior professors from the department.
4. Presentation of Videos from Department Alumni and representatives of ASME Manipal & IE (Mechanical) Students Club.



During the field visits, students were guided through the institute premises and shown various key locations, including the five academic blocks, Physics and Chemistry Labs, Graphics Lab, PSUC Lab, Central Workshop, Library, and other facilities available at the institute. The students expressed their appreciation for the comprehensive familiarization program that spanned the entire day.



12. Department of Mechatronics

The orientation program commenced with Dr. Shilpa Suresh, Assistant Professor presenting an overview of the schedule, extending a warm welcome to both students and parents attending the orientation program.



Head of the Department, Dr. D V Kamath, provided a comprehensive overview of the department's history, from its establishment to the present day. He discussed the faculty-to-student ratio, faculty profiles, and noteworthy achievements, including the department's 6 years of accreditation by NBA and IET. Dr. Kamath also highlighted the department's laboratory facilities, research areas, and significant milestones. Opportunities available for Mechatronics graduates were also addressed during this session, which concluded with a tea break.

The second session, led by Dr. Shweta Vincent, Dr. Ramya Moorthy, Dr. Pooja Nag, Dr. Jeane Marina DSouza, and Mr. Kalyan Chakravarthy, delved into the various components of mechatronics systems. They covered a wide range of topics, including sensors, actuators, robotics, automation, and computer science within the context of mechatronics systems. Practical case studies and real-world examples were incorporated into the discussion.

As a part of the familiarization, faculty members introduced themselves and shared insights into their respective research interests. Followed by, there was a session on Academic Rules and Regulations for the benefit of students. Dr. D V Kamath elaborated on the institute's academic rules and regulations. He also discussed the attendance and credit system. This session was followed by Ms. Spoorthi Singh, who provided information about B. Tech Honors and online courses.



Dr. Vijay Babu provided valuable insights into the research opportunities available within the department, along with details about the research facilities offered by the institute and the department. Additionally, graduating student Ms.

Kelly Ann shared her personal experiences at Manipal with the attending students, offering a unique perspective on life and academics at the institution.

On the second day of the orientation program, a departmental laboratory visit was scheduled. The students were divided into groups of ten, resulting in the formation of six distinct groups. Each group was assigned a faculty member who guided them during the lab tour. The lab coordinators explained the importance of each lab and how they relate to the field of Mechatronics.



The post-lunch session “PARICHAY,” was led by Dr. Shweta Vincent and her team. During this session, students actively participated in group activities and enjoyed some fun-filled interactions.

Dr. P V Bhandary, a distinguished psychiatrist in Udupi, delivered an insightful talk on mental health. He addressed various issues concerning teenagers and young adults, emphasizing the processes of addiction and recovery. Dr. Bhandary also highlighted the availability of student counselors at MIT for those seeking counseling. He placed particular importance on addressing exam anxiety, peer pressure, and depression, providing valuable strategies to overcome these challenges. This session proved to be both fruitful and informative.



Dr. Nikhil Pachauri explained the intricacies of the placement process, eligibility criteria, and shared departmental placement statistics. He also discussed opportunities for higher studies and students pursuing further education abroad. Following this, D A P Prabhakar, Assistant Professor presented information about the ISA student club and other technical and non-technical clubs available for student involvement.

Mr. Siddhant Vora, a proud alumnus of the department, engaged with the students, sharing his Manipal experience and journey from college graduate to marketing specialist. His talk was highly motivating and inspiring for the attendees.



Dr. Annapoorna, Head of the Department of Yoga, delivered an informative session on the practice of yoga. She emphasized the importance of yoga in promoting health, peace, and harmony. Dr. Annapoorna discussed various asanas and pranayama techniques that can be incorporated into daily routines for improved physical, mental, and emotional well-being. The session included a demonstration of asanas like bhujangasana, shavasana, padmasana, and trikonasana. Students actively participated in the session and engaged in discussions with the speaker. The session received appreciation from both faculty and students.

13. Department of Data Science and Computer Applications

The orientation and familiarization program for the first year BTech Data Science & Engineering students encompassed various aspects, including academics, research, and the cultivation of a global perspective. Additionally, specific sessions were dedicated to topics such as entrepreneurship, leadership, soft skills, and resilience, all of which are essential for fostering growth in students undergoing BTech program.



Dr. Radhika Pai, the Head of the Department of DSCA, commenced the orientation program with a presentation detailing the department, its faculty, and the academic offerings. Following this, Dr. Rohini R. Rao, who served as the Single Point of Contact (SPOC) for the orientation program, provided an overview of Data Science and its various applications.

Dr. Manohar Pai, Senior Professor, Dept. Of ICT, emphasized the significance of research and offered guidance to students on integrating research into their undergraduate studies. He also introduced them to the concepts of Intelligent Technologies and Data Analytics.



During the orientation program, Dr. Karunakar Kotegar (Director-International Collaborations, MAHE) engaged with the students, discussing the concept of global citizenship, strategies for addressing Sustainable Development Goals (SDGs), and opportunities for participating in study abroad programs during their undergraduate studies.



Dr. Dashrathraj Shetty, Associate Professor, discussed the principles of leadership and entrepreneurship, while Mr. Ganesh Nayak, Assistant Professor (Senior. Scale), Dept. Of ICT, shared insights into the adventurous lifestyle and showcased his travel experiences through visual presentations. Mr. Ganesh Nayak also highlighted the significance of the Center for Outdoor Studies and its role in cultivating resilience among students through adventure-based activities.



Dr. Divya Rao, Assistant Professor - Senior Scale, Department of Information and Communication Technology, spoke of the importance of participating in hackathons and briefed about such events that are being conducted in the campus.

Dr. Vidya Rao, Assistant Professor, Department of Data Science and Computer Applications spoke about the importance of cybersecurity in IoT and she also organized a visit to the MAHE ISAC Centre of Excellence for Cybersecurity in MIT

14. Department of Chemistry

Department of Chemistry conducted the department orientation program for the newly enrolled first-year M.Sc. students on 07 August 2023. The primary goals of the program were to introduce the department, familiarize students with the M.Sc. program, explain academic regulations, and introduce them to the department's faculty members.

Dr. Suma A. Rao, the Head of the Department of Chemistry at MIT Manipal, extended a warm welcome and initiated the program. During her address, Dr. Suma provided an overview of the department's history, its facilities, ongoing activities, and introduced the faculty members to the newly joined students. Additionally, she outlined the rules, regulations, program structure, and evaluation process of the M.Sc. program.

Following the orientation program, the students had the opportunity to explore various departmental facilities, including the M.Sc. classroom, M.Sc. laboratory, and other research labs.



Around 110 students enrolled in the BTech Data Science & Engineering program actively engaged in the workshop throughout the four days. The students were split into two groups, and concurrent sessions were held in two separate classrooms, facilitated by department faculty members. The program's single point of contact (SPOC) concluded the orientation with guidance for the upcoming week.

15. Department of Humanities and Management

A department-level orientation program was conducted for newly enrolled students in the B.Tech. program in Computer Science and Financial Technology. The orientation spanned over 4 days and featured resource persons from both industry and academia.



The first session, which commenced on 18 August 2023 began with Dr. Yogesh Pai P, Professor and Head of the

department, introducing the department and the program. He discussed the program's details and introduced the department's faculty members. Additionally, Dr. Srikanth Prabhu, Professor in the Department of Computer Science, highlighted the program's significance and its associated benefits.



On the first day, the second session was led by Mr. Pranav Naik, the Global Head of Risk Management and Operations, who joined in virtual mode. He discussed the ever-changing world and provided insights into how students can excel in it. Mr. Naik emphasized the key areas of focus for students during their four-year academic journey. The session also included active interaction with the students.

In the afternoon session of the first day, Dr. S. Naga Siddarth, Chief Human Resource Officer at Urban Piper in Bengaluru, delivered a presentation. He delved into the topic of self-leadership and provided valuable insights on what students should do and should not do throughout their academic journey.



The final session of the day was conducted by Dr. Shaswat Alok, who holds the positions of Associate Director - Finance at ISB, Hyderabad, and Research Director at the Digital Identity Research Institute (DIRI), Hyderabad. He delivered an informative talk on research within the Fintech domain, highlighting the significant impact Fintech has made in both academic and industrial sectors. Dr. Swapna (Assistant Professor-Senior) introduced the speakers to the audience, and Dr. Sumukh (Assistant Professor-Selection grade) delivered the vote of thanks.

Day two commenced with a technical session titled "FinTech and Stocks: A Simplified Approach," delivered by CA Muralidhar Kini from Manipal. He discussed the significance of stock investments and the ideal investment periods.

On the second day, the morning's second session was conducted by Mr. Sachin Ravi, Co-Founder of Qshala. He engaged with students, focusing on the college's role as a catalyst for entrepreneurial journeys and shared his own experiences.

Professor Lt Cdr Geeta Lakshmi P M (Retired) from the Department of Humanities and Management conducted a session titled "Individuals and Society" after lunch. The session aimed to raise students' awareness of their role within the ecosystem, both in giving and receiving aspects of life.

The session began with students reflecting on their current achievements. They were introduced to the remarkable contributions of individuals like 'Salumarada Timmakka' and 'Harekkala Hajabba,' emphasizing that their purpose extended far beyond mere survival, despite their modest means. The concept of 'Platform and Purpose' by Shri Subrato Baghchi was then introduced, explaining how students can build a stronger foundation for themselves and remain committed to giving back to society. The session guided them in creating an action plan to document their achievements and how to leverage these accomplishments for the greater good.



The second session was titled "Sensitivity in Communication" and it was led by Dr. Praveen Shetty and Dr. Veena Maben, both faculty members of the Department of Humanities and Management. This interactive session centered on emphasizing the significance of sensitivity in communication and emotional intelligence.

Through various group activities, the students were engaged in discussions to grasp the importance of being empathetic and considerate communicators, as well as attentive listeners. Additionally, they received insights into the components of emotional intelligence and its significance in both personal and professional interactions.



The third day commenced with a thought-provoking discussion on “Market Mindfulness for Engineers” conducted by Ms. Chaitra Rao, Senior Vice President at Citi Bank in Bengaluru. During this session, she underscored the significance of students remaining vigilant throughout their academic journey and even after its completion.

Ms. Chaitra Rao highlighted the importance of both technical courses and functional courses for engineering students, emphasizing their relevance in the ever-changing market landscape.

The second session revolved around “Start-ups and Innovation” and was conducted by Dr. Mohammed Zuber, the Chief Innovation Officer at MIT Manipal. During this session, Dr. Zuber emphasized the significance of startups and entrepreneurship for students, shedding light on the vibrant ecosystem at MAHE. Dr. Zuber also elaborated on the successful startups initiated by MITians, providing valuable insights into the world of innovation and entrepreneurship.

In the afternoon session of the third day, Mr. Anup Pai, the Founder and CEO of eSamudaay in Bengaluru, conducted a session on “Careers in FinTech.” During this session, he discussed the numerous opportunities that are accessible to FinTech students and provided insights into what steps should be taken to seize these opportunities.



The final session of Day 3 was titled “Evolution of FinTech” and was led by Tilak Hegde, Director at Fidelity Investments. During this session, he explored the technological impact on the finance industry and highlighted the emergence of FinTech as a pivotal sector.

On day four, Dr. Praveen Shetty conducted a comprehensive exploration of the culture of Tulunadu. He introduced students to various aspects of Tulunadu culture and the local society, receiving positive feedback for the session.

As the FinTech students are newcomers to our college environment, the faculty members of the H&M Department provided guidance to help them become familiar with the various departments within the college.

16. Department of Mathematics

The program commenced with a warm welcome by Dr. Kuncham Syam Prasad, Professor and Head of the Department. During his address, he shared valuable information about the department’s history, accomplishments, and the diverse fields of study it offers. The students received an overview of the B.Tech. program in Mathematics and Computing, including details about core courses, elective options, and any distinctive aspects of the curriculum. The academic advisor then discussed the degree requirements and academic expectations.



Following this, Dr. Radhika M. Pai, Head of the Data Science & Application Department, delivered a presentation introducing the undergraduate course in Mathematics and Computing. She provided valuable insights into the program’s curriculum, its objectives, and the potential career paths available to students in this field. Her talk emphasized the interdisciplinary nature of the course, highlighting its significance in today’s technology-driven world. The presentation concluded with a Q&A session during which Dr. Radhika addressed all the queries raised by the students regarding the computational aspects of the B.Tech program structure.

The presentation titled “Mathematics and Computing - Opportunities and Prospects” by Dr B R Shankar provided a detailed examination of the mutually beneficial relationship between mathematics and computing. It underscored the myriad opportunities and potential prospects that emerge from the synergy of these two domains. The presentation delved into how the convergence of mathematics and computing has driven advancements in technology, scientific research, and various industries.



This talk left the audience with a heightened understanding of the interplay between mathematics and computing and

the exciting possibilities that await those who venture into this captivating intersection of disciplines. It emphasized the ongoing significance of research and collaboration in this field to fully unlock the range of opportunities and prospects it holds.

The presentation titled "Understanding Mathematical Software" Prof. Vinay M highlighted the importance of mathematical software across diverse domains. It stressed the importance of being aware of and skilled in using these tools effectively. The audience gained valuable insights into how these software applications can enhance efficiency, accuracy, and practicality when solving intricate mathematical problems, conducting data analysis, and visualizing data.

The session effectively emphasized the necessity for individuals to improve their proficiency in mathematical software to remain competitive and innovative in their respective fields.

This session aimed to provide a concise overview of how Number Theory is applied in Computer Science. Commencing with practical number theoretic calculations within the Mathematica software, the speaker briefly discussed his ongoing research project titled "Game of Primes." The presentation on "Awareness about Mathematical Software" offered a comprehensive perspective on the importance and applications of mathematical software in various domains. Participants gained an understanding of how these software tools can enhance efficiency, accuracy, and practicality when dealing with complex mathematical problems, data analysis, and data visualization. The event effectively emphasized the necessity for individuals to enhance their proficiency in mathematical software to maintain competitiveness and foster innovation in their respective fields.



The motivational presentation titled "Journey to Success," presented by Dr. Ravi Prakash, Additional Professor served as an inspiring and contemplative occasion designed to offer guidance on the path to achieving one's objectives and recognizing their capabilities. By discussing essential topics such as setting goals, building resilience, cultivating the right mindset, continuous learning, effective time management, and the importance of networking, the

presentation equipped participants with practical insights to effectively navigate their individual and career paths. The event served as a testament to the idea that, with the correct mindset, strategic approaches, and unwavering determination, anyone can surmount challenges and realize their ambitions.

The presentation titled "Embracing an Adventure Lifestyle: Conquering Challenges and Cultivating Resilience," delivered by Professor Ganesh Nayak, offered an enlightening conversation about the importance of adopting an adventurous way of life, the obstacles that accompany it, and methods to nurture resilience for surmounting those obstacles. Through the speaker's wisdom and personal anecdotes, the talk emphasized the value of venturing beyond one's comfort zone, embracing ambiguity, and fortifying resilience when confronted with adversity. Those in attendance departed with a reinvigorated understanding of the adventure lifestyle and practical approaches to fostering resilience in their own endeavors.



The presentation titled "Mathematics in Nature and the Art of Computing" by Dr Kudukodi Babushri Srinivas offered an enlightening and captivating exploration of the fascinating interplay between mathematics, the natural world, and the field of computing. The speaker delved into how mathematical principles intricately underlie the patterns and structures found in nature, and how these principles have not only inspired but also significantly contributed to advancements in the realm of computing. The presentation included a discussion on the natural occurrence of Fibonacci numbers, with references to Hemachandra and Virahanka, illuminating their beauty. Additionally, the speaker elucidated intriguing concepts such as randomness and fractals as observed in nature. Later in the presentation, the importance of slow and fast algorithms in computer science was explained, employing both recursive and iterative programs to generate Fibonacci numbers. By emphasizing the profound interconnectedness of these two fields, Dr. K B Srinivas left the audience with a heightened appreciation for the elegance of mathematics and its pervasive impact on the evolution of computing technologies.

A session on *Mathematics for Coding Theory and Cryptography* by Dr Vadiraja Bhatta G R , emphasised on

the foundational mathematical principles that underpin two pivotal domains within modern information technology: coding theory and cryptography. These domains hold a crucial role in ensuring the security of data, fostering dependable communication, and safeguarding sensitive information. The aim of the talk was to furnish a comprehensive overview of the mathematical bedrock that propels advancements in coding theory and cryptography. The speaker expounded upon various cryptosystems rooted in modular arithmetic and computationally intricate challenges, such as the integer factorization problem and the discrete logarithm problem. The session proved to be enlightening and uplifting for the students. By the session's conclusion, students had gained insight into various forms of cryptography and comprehended the imperative role of coding theory in cryptography. It underscored how mathematical concepts and properties are harnessed to devise resilient error-correcting codes and secure communication protocols. By grasping the mathematical underpinnings behind these technologies, researchers and practitioners are equipped to perpetuate innovation and bolster the security and dependability of digital communication and information exchange.



The presentation titled "Linear Algebra - The Language of Computation" by Dr Sudarsan N S Acharya offered an illuminating journey into the core principles and practical uses of linear algebra within the realm of computational sciences. The objective of this presentation was to underscore the pivotal role played by linear algebra in diverse domains, encompassing computer graphics, machine learning, data analysis, and scientific simulations. It underscored how linear algebra serves as a versatile tool for unraveling complex challenges and steering progress in fields as wide-ranging as computer graphics and machine learning. By employing various real-world instances, the speaker adeptly conveyed how linear algebra functions as the 'language' of computation.

The presentation titled "Statistics - A Tool from Abstract to Reality" by Dr Sumathi K offered a thorough examination of how statistics functions as a crucial intermediary between abstract theories and tangible real-world implementations. The presentation effectively conveyed that statistics plays an indispensable role in connecting abstract ideas to practical use cases. By elucidating various data analysis methodologies, the speaker motivated the audience to

appreciate the ubiquitous impact of statistics in influencing our perception and engagement with the surrounding world.

17. Department of Physics

Department of Physics conducted a department orientation program for the newly enrolled M.Sc. students on 07 August 2023. The primary goals of this program were to familiarize the recently admitted students with both the department and the M.Sc. program, provide them with an understanding of academic regulations, and offer valuable insights from guest speakers on relevant subjects.



The event commenced at 2:30 PM in the presence of the Head of the Department, faculty members, newly enrolled postgraduate students, and their parents. The program began with a welcome address delivered by Dr. Bhagyesh, Assistant Professor and Coordinator of the M.Sc. Physics Department at MIT Manipal.

The first presentation of the session was delivered by Prof. Mohan Rao K, HoD, Physics. During his presentation, Dr. Mohan Rao provided an overview of the department's history, its facilities and activities, and introduced the faculty members to the new students. He also covered important information about the rules and regulations governing the MSc program, its structure, and the assessment process.

Following the Head of Department's address, a series of insightful presentations and talks were conducted by various speakers. Prof. Sudha Kamath, the Department Placement Coordinator, shed light on career opportunities after completing MSc and discussed the placement prospects available within the department. Dr. Rajendra B. V., the Department Alumni Coordinator and Additional Professor, shared insights into alumni achievements and interactions in the Department of Physics. Dr. Dhananjaya Kekuda, the Department Research Coordinator and Associate Professor, provided an overview of the research facilities available in the department. Dr. Nagaraja K. K., the Department MSc Project Coordinator and Associate Professor in the Select Grade provided the details of MSc projects.



MIT Faculty members figured in the World Top 2% Scientists/ Researchers

Five faculty members from MIT have been featured in the list of top 2% Scientists/Researchers in the world as released by the Stanford University, USA, and published by Elsevier. **Dr Raja S**, Additional Professor, Department of Chemical Engineering, **Dr Raghavendra U**, Associate Professor, Department of Information and Control Engineering & Deputy Registrar, MAHE, Manipal, **Dr Tanweer**, Associate Professor, Department of Electronics and Communication Engineering, **Dr Shiva Kumar**, Professor, Department of Mechanical Engineering and **Mr. Nithesh Naik**, Assistant Professor- Senior Scale, Department of Mechanical Engineering are the five top researchers who have made it to the list. Mr. Nithesh Naik has joined this elite league this year, Dr Shiva Kumar has achieved this for the second consecutive year, while the other three have repeated this rare achievement for the third consecutive year.



Dr. D. V. Kamath, Professor, Department of Mechatronics at Manipal Institute of Technology, Manipal, received the Best Conference Paper Award for his paper titled "A New Compensation Method for Finite Output Resistance of Gm-C Lossless Integrator". He received this award at the 6th IEEE International Conference on Knowledge Innovation and Invention 2023 (IEEE ICKII 2023). The conference was jointly organized by the Institute of Electrical and Electronics Engineers (IEEE) and the International Institute of Knowledge Innovation and Invention (IIKI) in Sapporo, Hokkaido, Japan, from 11 to 13 August 2023.

Dr. Vinay Kumar Jadoun, Associate Professor, Department of Electrical and Electronics Engineering earned the prestigious title of R10 Ethics Champion. He achieved this feat by achieving a score in the range of 70% or higher in the IEEE R10 Ethics Superpower Challenge Assessment.



Dr. Balakrishna Maddodi, Associate Professor, Dept. Of Civil Engineering was honoured by the Udupi District Pre-University College Principals Association for his significant contributions to the Free CET-NEET Coaching Initiative. This initiative, a collaborative effort between MIT, Manipal, and the Udupi District Administration, aimed to provide free CET-NEET coaching to students in 30 government and aided pre-university colleges within the Udupi District. The primary objective of this initiative was to enhance students' performance in pre-university examinations and to help them excel in the CET-NEET exams.

The program was designed to empower underprivileged students attending government colleges. The online classes were conducted from the Resource Centre Studio at the Udupi Zilla Panchayath office, located at Rajathadri Manipal.

The initiative was driven by Dr. Balakrishna Maddodi from MIT with the support of faculty members of various departments. Over 50 experts, administrative staff, and supporting members from MIT, Manipal, contributed wholeheartedly to the success of this coaching camp.

Dr. Murthy Dharmapura, Associate Professor Research, and Coordinator for the Center for Renewable Energy, Department of Chemistry, received approval for his research proposal for the Short Research Trip to France (SRTF) 2023, a funding initiative offered by the French Institute in India (IFI) in collaboration with the Embassy of France in India. Under this program, Dr. Murthy Dharmapura will have the opportunity



to collaborate with a senior CNRS researcher in Lille, France, focusing on renewable energy technology. He is one of the 51 researchers selected for this opportunity from a pool of 600 applications submitted by accomplished researchers from various parts of India.

Dr. Karunakar A Kotegar, Director of International Collaborations, MAHE and Professor, Department of Data Science and Applications, MIT, along with **Dr. Anitha H**, Professor, Department of Electronics and Communication Engineering at MIT, Manipal, secured a SPARC grant amounting to Rs. 80,07,906 from the Ministry of Education. This grant will be utilized to support their collaborative research project with Deakin University in Australia. The primary focus of the project is on “Digital Image Forensics and Security using Deep Learning.”



Dr. Shobha M E, Assistant Professor - Selection Grade in the Department of Mathematics, achieved an impressive feat in a recent trail ultra run organized by Bangalore Mountain Adventures. She participated in the 30K Ultra Trail Running category and secured the Third position in the female category. The event was held on 09 July 2023 in Avati, Devanahalli, Bangalore, as part of the “BMF Ultra” (Bangalore Mountain Festival) event.

Dr. Devika Rani, **Dr. Adithi Shastry**, and **Dr. Swapna K S**, faculty members from the Department of Humanities & Management, MIT, Manipal were honoured and felicitated at Rajatadri, Manipal by the Deputy Commissioner & District Magistrate of Udupi, Mr Kurma Rao M, IAS and his team on 09 July 2023 in recognition of their contribution to the cause of education for the underprivileged students of Udupi district. The team was invited to conduct a program aimed at enhancing the professional communication skills of undergraduate students residing in government hostels across the Udupi district. The sessions were conducted online from Rajatadri, Manipal. The officials from the Department of Social Welfare were highly appreciative of the quality of content, the delivery, and the enthusiastic approach exhibited by these faculty members throughout each session.



Dr. Raghavendra Ganiga, Assistant Professor- Senior, Department of Information & Communication Technology, completed his Postdoctoral research at the prestigious Smart Networking Laboratory, Chosun University, South Korea. This was completed under the supervision of Prof. Wooyeol Choi, Department of Computer Engineering at the College of IT Convergence Engineering at Chosun University. During his post-doctoral research, Dr. Ganiga had an opportunity to work in several pivotal fields, such as Cloud Computing, Healthcare IT, Internet of Things (IoT), and Data Science.

Mr. Balbir Singh, Assistant Professor - Senior Scale, Aeronautical and Automobile Engineering edited a book titled “Nanomaterials: The Fundamental Elements of Contemporary Technology - Synthesis, Characteristics, and Practical Applications.”



Mr. Ganesh Nayak, Assistant Professor - Senior Scale in the ICT Department, was invited by the District Administration of Mangalore on World Tourism Day to be a member in the panel discussion focused on adventure tourism along the coast. During this event, Mr Nayak shared insights into the establishment of the Centre for Outdoor Studies at MIT, elaborating on its educational principles, ongoing projects, and the overarching vision.

Dr. Narendra Khatri, Assistant Professor, Department of Mechatronics received the Best Paper Award in the International Conference on Computational Intelligence and Knowledge Economy-(ICCIKE2023) at Amity University Dubai, UAE, technically co-sponsored by IEEE UAE during 9-10 March 2023. The award included a certificate with a cash of AED 500.



Dr. Chiranjit Ghosh, Assistant Professor Research, Department of Biotechnology, received the “ACBI Young Scientist Bursary Award” in recognition of his research paper presentation at the 49th annual conference hosted by the Association of Clinical Biochemists in India (ACBI). This conference, which took place in Thiruvananthapuram, Kerala, was organized by the ACBI. Dr. Ghosh presented a paper titled “Development of an analytical technique for noninvasively distinguishing between type 1 and type 2 diabetes through exhaled breath composition analysis.”

This research paper has also been published in the conference proceedings by Springer.

Dr. Niraj Kumar Dewangan, Assistant Professor, Department of Mechatronics received the Best Paper award at the IEEE International Conference on Renewable Energy and Sustainable E-Mobility (RESEM 2023) organized by Maulana Azad National Institute of Technology, Bhopal.



Mr Rajesh J, Assistant Professor- Senior Scale, Department of Biotechnology received the “Young Scientist” award for the presentation of his research paper in the “International Conference on Applications of Natural Products Nanomaterials and Nano-Pharmaceuticals” held during 09- 10 August 2023 at the School of Life Science, Abdur Rahman Crescent Institute of Science and Technology, Vandalur, Chennai.

Dr. Manjunath K N, Associate Professor, Department of Computer Science & Engineering, was awarded a Silver Medal at an international conference for his photograph shot at Malpe Beach. He secured the second prize under the ‘people’ category competing with over 3000 photo entries at the Korean Congress of Radiology, Seoul. The award included a cash prize of 150 USD.



Dr. Sudha D Kamath, Professor and Head of the Department of Physics has been honored with the Best Paper Award at the 6th IEEE International Conference on Knowledge, Innovation, and Invention (ICKII), held from 11 to 13 August 2023, in Sapporo, Japan. The awarded paper is titled “Impact of Gd2O3 Incorporation on Structural, Optical, Thermal, Mechanical, and Radiation Blocking Nature in HMO Boro-Tellurite Glasses.”

Dr. Rithesh Ramakrishna Bhat, Assistant Professor- Senior Scale, Dr. C. Raghavendra Kamath, Additional Professor, and Mr. Nithesh Naik, Assistant Professor- Senior Scale, Department of Mechanical and Manufacturing Engineering have authored an instructive textbook on comprehensive understanding of Data Analysis for the benefit of non-engineering students. The book, titled “Data Analysis Theoretical Concepts for Non-IT Engineers,” is published by Notion Press.



Dr. Vidya R, Assistant Professor, Dept of DS&CA, delivered a guest talk at Moodlakatte Institute of Technology, Kundapura, on the Topic: “Importance of Cybersecurity in the Internet of Things” on 25 August 2023.



Dr. Shweta Vincent, Associate Professor, Department of Mechatronics delivered a guest lecture on Landslide Susceptibility Mapping in a DRDO sponsored workshop in online mode on 12 September 2023. The workshop was conducted by the Department of Civil Engineering, JSS Academy of Technical Education, Bangalore during 11 - 15 September 2023.

Ms. Sharal T. Correa, Assistant Professor in the Department of Humanities and Management, Manipal Institute of Technology, Manipal, conducted a training session on “The Effectiveness of Clear Expression: Strengthening Written, Verbal and Nonverbal Communication Competencies” for professionals from Blackfrog Technologies Pvt. Ltd on 22 July 2023. It was designed to provide participants with approaches to effective verbal, nonverbal and written communication for improved interpersonal interactions and successful professional performance.



Dr. Meenatchi Sundaram, Additional Professor and **Dr. Cyril Joseph**, Assistant Professor - Selection Grade, Department of Instrumentation & Control Engineering conducted a session on “Home Automation with IoT” for the



students of Madhava Kripa PU College on 18 August 2023. This event was organized as a part of the celebrations for the 125th birth anniversary of our founder Dr. T M A Pai. About 270 students and faculty members actively participated, engaged in discussions, and witnessed a live demonstration using laboratory kits from the IoT Lab of MIT.

MAHE-Staff Badminton tournament 2023-24

MAHE hosted an Inter-Collegiate/Institution Badminton Tournament for both men and women on 03 September 2023, at MARENA in Manipal. The event was open to all the teaching and non-teaching staff associated with MAHE. A large number of faculty members and non-teaching staff from MIT, Manipal participated in various events.

Women Doubles Winners:



Ms Preeti Mohanty, Assistant Professor in Department of Instrumentation & Control Engineering, and **Ms Supraba Padiyar**, Assistant Professor at Department of Electrical & Electronics Engineering.

Men’s Doubles (above 45 years) Runners Up



Dr R C Shivamurthy, Assistant Professor -Selection Grade and **Dr. Murthy B R N** Additional Professor, Department of Mechanical & Industrial Engineering.

Men’s Doubles (below 45 years) Winners



Dr. Chethan K N, Associate Professor, Department of Aeronautical & Automobile Engineering
Dr. Gurumurthy S C, Assistant Professor-Selection Grade in the Department of Physics

Also **Dr. Chethan K N** emerged as the winner in Men’s Singles (below 45 years)while **Dr. Gurumurthy S C** emerged as the Runner up.

Dr. Harikrishnan P.K., Additional Professor, Department of Mathematics was awarded the SERB - Teachers Associateship for Research Excellence (TARE) Fellowship. This prestigious fellowship spans a duration of three years and supports Dr. Harikrishnan's research project titled "A Study of Frames of Operators in Hilbert Spaces." The grant amount for this research endeavour is 18,30,000 INR.



Dr. Manish Varun Yadav, an Assistant Professor-Senior Scale in the Department of Aeronautical & Automobile Engineering at Manipal Institute of Technology, achieved a significant milestone with the acceptance and publication of his design patent application titled 'Microwave Sensor for Surface Wave Transmission Line' by Intellectual Property India.

Dr. Raghavendra U, Associate Professor, Department of Instrumentation & Control Engineering and Deputy Registrar-Administration, MAHE, **Dr. Krishnamoorthi M**, Professor and Head, Department of Computer Science & Engineering, and **Dr. Karunakar A Kotegar**, Professor, Department of Data Science & Computer Applications, and Director of International Collaborations, MAHE have been granted an Indian Patent for their innovative work titled "Method and System for Efficient Stereo Matching."



Dr. Manohara M. Pai, Senior Professor, Department of Information & Communication Technology, **Dr. Radhika M Pai**, Professor and Head, Department of Data Science & Computer Applications, and **Ms. Pooja Botta**, Research Scholar, are granted with a patent for their innovative invention titled "Method, System and Apparatus for Securely Monitoring and Processing Sensor Data" by Indian patent office.

Dr. Praveen Kumar, Assistant Professor and **Dr. Tanweer**, Associate Professor from Electronics & Communication Engineering, **Dr. Sameena Begum Pathan**, Assistant Professor and **Dr. Manohara M. Pai**, Professor from Department of Information & Communication Technology were granted with a patent for their innovative work in the field of electromagnetic communication and antenna design titled "TWO-PORT THZ MIMO ANTENNA" by Indian patent office.



Dr. Sudha D Kamath, Professor and Head of the Department of Physics received approval for a research project entitled "Exploration of Quantum Cutting Process in Ca₂MgWO₆ Phosphors Doped with Rare Earth (RE = Sm³⁺, Dy³⁺, and Er³⁺) Ions for Luminescent Solar Concentrator Application." This project has been granted funding of 21.55 lakhs by CSIR - SERB, New Delhi and will be led by Dr. Sudha D Kamath as the Principal Investigator, for a duration of three years.

Dr. K Abhimanyu Kumar Patro, Assistant Professor, Department of Mechatronics is granted with a design patent titled "Device for Security of Wireless Transactions," by the Indian Patent Office on 04 September 2023. The patent is notable for its unique and innovative features, and it has the potential to significantly influence the field of wireless transaction security.



Dr. V H S Moorthy, formerly Associate Professor, Department of Electronics and Communication Engineering, MIT Manipal, **R M Piragash Kumar**, PhD student MSc Physics and **A Venkatesh** are granted with a patent titled "Process Of Formation Of Disordered Nanoholes In Optically Thick Silver Films". The authors have already published two scientific papers (plasmonic solar cells and Plasmonic biosensors) based on the work related to this patent. The patent will be useful in various opto-electronic devices such as solar cells, photosensors, and various biological applications and other important devices such as colour printers etc.



Dr. Umesh Kumar Sahu, Assistant Professor, Department of Mechatronics is granted a design patent titled "Device to Detect Power Consumption". The design consists of a mechanism to monitor and analyze the amount of power consumption along with the prediction of renewable energy consumption. Dr. Manoj S Choudhary, Dr. Man Mohan Soni, Dr. Ritesh Kumar Dewangan, Dr. Sourabh Kumar Soni are the coinventors.



Dr. Narendra Khatri, Assistant Professor, Department of Mechatronics is granted a design patent for the innovation titled "Smart Pot for Automatic Water Dispensation." The design will be useful to create an optimal environment for healthy plant growth by automatically managing water levels and humidity. This invention revolutionizes precision agriculture, optimizing plant growth and fostering improved agricultural and horticultural practices. **Dr. Narendra Khatri**, Assistant Professor, Department of Mechatronics is granted with a Design Patent (UK Design) "Smart Drone for Delivery of Medical Instruments". His co-inventers are Dr. Munish Kumar, Dr. Sumit Suhag, Dr. Imran Ali, Shaik Shabbir Ali, Dr. Poonam Jaglan, Dr. Bhawna Kaliraman, Yash Dhankhar, Dr. Sweety Nain, Rashmi Verma.



Dr. Dhanya Sunil, Professor, Department of Chemistry, and **Ms. Kashmitha Muthamma**, Research Scholar, are granted a patent for "A Hydroxynaphthalimide Ultraviolet Fluorescent Compound for Pigment in Security Ink and Composition Thereof." The patent will be useful for enhancing security measures across various applications in the field.



The faculty members from the Department of Mechanical and Manufacturing Engineering led by **Dr. Sathyashankara Sharma**, Senior Professor and Head are granted the following patents for their contributions to the advancement of metallurgical science and its practical applications.

Details of the patents and the corresponding inventors:

SI. No.	Title of the Patent	Inventors
1	Process for Hardening Surface of a Metal and System Thereof	Dr. Sathyashankara Sharma, Dr. Gowri Shankar M C, Dr. Pavan Hiremath, Dr. Manjunath Shettar, and Mr. Srinivas Doddapaneni.
2	Alloy Composition and a Method of Synthesizing the Alloy Composition	Dr. Sandeep Nambiar S, Dr. Murthy BRN, Mr. A A Prasanna and Dr. Sathyashankara Sharma
3	Method for Determining Mechanical Characteristics of a Metal Composition	Dr. Anand Hegde, Dr. Bhagya Laxmi, Dr. Jayashree P K, Dr. Gowri Shankar M C and Dr. Sathyashankara Sharma
4	Method Facilitating an Age Hardening Treatment of an Alloy	Mr. Ramakrishna Vikas S, P Dr. Raghavendra Prabhu and Dr. Sathyashankara Sharma
5	Method Providing Aging Treatment of Alloys	Dr. Shivaprakash Y M, Dr. Gurusurthy B M, Mr. Sowrabh B S, Dr. Ananda Hegde and Dr. Sathyashankara Sharma



PhD Awardees: Faculty Members

Dr. Swathi Tangi, Assistant Professor-Senior Scale, Department of Electrical & Electronics Engineering has successfully defended her Doctoral thesis titled *"Voltage Control in Smart Distribution Network with Distributed Energy Resources"* for the award of PhD degree by the NITK, Surathkal, on 05 July 2023. The research work was guided by Dr. Dattatraya Narayan Gaonkar, Department of Electrical & Electronics Engineering. NITK, Surathkal.



Dr. Shashikumar G S, Assistant Professor-Section Grade, Department of Electronics & Communication Engineering has successfully defended his Doctoral thesis titled *"Machine Learning Approach for Classification of Human Emotions Based on Valence-Arousal Model and Electroencephalogram"* for the award of PhD degree by the Manipal Academy of Higher Education, Manipal on 04 September 2023. The research work was guided by Dr. Niranjana Sampathila, Additional Professor, Biomedical Engineering Dept., MIT, Manipal.

Dr. Harishkumar Kamath, Assistant Professor-Senior Scale, Department of Mechanical & Industrial Engineering has successfully defended his Doctoral thesis titled *"Life Prediction of a PAD in an Externally Adjustable Fluid Film Bearing"* for the award of PhD degree by the Manipal Academy of Higher Education, Manipal on 01 September 2023. The research work was guided by Dr. Satish B. Shenoy, Professor, Department of Aeronautical & Automobile Engineering, MIT, Manipal and co-guided by Dr. Chandrakant R. Kini, Professor, Department of Aeronautical & Automobile Engineering, MIT, Manipal.



48



Dr. Laxmikant Keni Assistant Professor-Senior Scale, Department of Aeronautical & Automobile Engineering has successfully defended his Doctoral thesis titled *"A Biomechanical Simulation of Obstructed Ureteral Flow During Peristalsis Using Computational Fluid Dynamics"* for the award of PhD degree by the Manipal Academy of Higher Education, Manipal on 15 September 2023. The research work was guided by Dr. Mohammad Zuber, Professor, Aeronautical & Automobile Engineering Dept., MIT, Manipal and co-guided by Dr. Satish B. Shenoy, Professor, Department of Aeronautical & Automobile Engineering, MIT, Manipal.

Dr. Shwetha Rai, Assistant Professor-Senior Scale, Department of Computer Science & Engineering has successfully defended her Doctoral thesis titled *"Development of Efficient Algorithms for Discovering Strong Association Rules for Rare and Frequent Itemsets Based on Abstractions"* for the award of PhD degree by the Manipal Academy of Higher Education, Manipal on 23 September 2023. The research work was guided by Dr. Geetha M, Professor, Computer Science & Engineering, MIT, Manipal and co-guided by Dr. Preetham Kumar, Professor, Information & Communication Technology, MIT, Manipal.



Dr. Bhagya R S, Assistant Professor-Senior Scale, Department of Media Technology has successfully defended her Doctoral thesis titled *"Synthesis and Characterization of Pyrene-Based Fluorophores as Pigments in Security Ink for Flexographic Printing"* for the award of PhD degree by the Manipal Academy of Higher Education, Manipal on 09 September 2023. The research work was guided by Dr. Prakash Shetty, former Professor, Department of Chemistry, MIT, Manipal and co-guided by Dr. Dhanya Sunil, Professor, Chemistry Department, MIT, Manipal.

Dr. Prakash Kalingrao Aithal Assistant Professor-Senior Scale, Department of Computer Science & Engineering has successfully defended his Doctoral thesis titled *"Development of an Optimal Portfolio Management System Using Real-Time Data Analytics Framework"* for the award of PhD degree by the Manipal Academy of Higher Education, Manipal on 23 September 2023. The research work was guided by Dr. Dinesh Acharya U, Professor, Computer Science & Engineering, MIT, Manipal and co-guided by Dr. Geetha Maiya, Professor, Computer Science & Engineering, MIT, Manipal.



Dr. Muralikrishna H, Assistant Professor- Senior scale, Department of Electronics and Communication Engineering has successfully defended his Doctoral thesis "*Improving the Robustness of Spoken Language Identification Systems to Real-world Conditions*" for the award of PhD degree by the Indian Institute of Technology Mandi (IIT Mandi), Himachal Pradesh, on 8th September 2023. The research work was guided by Dr. Dileep A. D., Associate Professor, School of Computing and Electrical Engineering, Indian Institute of Technology Mandi.



Dr. Swati Varun Yadav, Assistant Professor, Department of Instrumentation and Control Engineering has successfully defended her Doctoral thesis "*Design and Investigation of Mode Transducer for High Power and Surface Wave Propagation*" for the award of PhD degree by the BITS Pilani K K Birla, Goa Campus, India, on 8th August 2023. The research work was guided by Dr. Ashish Chittora, Associate Professor, BITS Pilani Goa.

Dr. D Cenitta, Assistant Professor - Senior Scale, Department of Computer Science & Engineering has successfully defended her Doctoral thesis titled "*Design and Implementation of Substitution and Hybrid Classification Techniques for Identifying Cardiac Diseases*" for the award of PhD degree by the Manipal Academy of Higher Education, Manipal on 28 September 2023. The research work was guided by Dr. Vijaya Arjunan R, Additional Professor, Department of Computer Science & Engineering, MIT, Manipal and co-guided by Dr. Prema K V, Associate Director, Professor and Head Department of Computer Science & Engineering, MIT Bengaluru.



Additional Research Facility at MIT

To support the research activities and new academic programs, additional space is created in the third floor of Academic Block 5. Research labs and facilities, B.Tech labs, and classrooms were added to the existing infrastructure in this quarter to enhance the research and learning experience. Vice Chancellor, Lt. Gen. (Dr.) M. D. Venkatesh officially inaugurated the facilities on 08 September 2023.



Full-Time Research Scholars

Dr. A Venkatesh, Full-time Research Scholar in the Department of Electronics & 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 01 July 2023. The research work was guided by Dr. V.H.S. Moorthy, former Professor, Department of Electronics & Communication Engineering MIT, Manipal.



Dr. Prakash K G, Full-time Research Scholar in the Department of Civil Engineering has successfully defended his Doctoral thesis titled *"Stability Analysis of An Embankment on Soft Consolidating Soil Improved with Various Types of Columns and Composite Column Systems"* for the award of PhD degree by the Manipal Academy of Higher Education, Manipal on 10 July 2023. The research work was guided by Dr. A. Krishnamoorthy, Professor, Department of Civil Engineering, MIT, Manipal.

Dr. Praveen Kumar, Full-time Research Scholar in the Department of Electronics & Communication Engineering has successfully defended his Doctoral thesis titled *"Modelling of UWB MIMO Antenna with Band Notch Characteristics for Wireless Communication System"* for the award of PhD degree by the Manipal Academy of Higher Education, Manipal on 11 July 2023. The research work was guided by Dr. Tanweer, Associate Professor, Department of Electronics & Communication Engineering, MIT, Manipal and co-guided Dr. Manohara Pai M M, Senior Professor, Department of Information & Communication Technology, MIT Manipal.



Dr. Pawan Kumar, Full-time Research Scholar in the Department of Physics has successfully defended his Doctoral thesis titled *"Device Suitability of Tin Based Thin Films Deposited by Silar Technique"* for the award of PhD degree by the Manipal Academy of Higher Education, Manipal on 21 July 2023. The research work was guided by Dr. Gowrish Rao K, Associate Professor, Department of Physics, MIT, Manipal.

Dr. Pooja Prabhu, Full-time Research Scholar in the Department of Data Science and Computer Applications has successfully defended her Doctoral thesis titled *"MEG-MRI Registration for Improved Localization of Neuronal Activities"* for the award of PhD degree by the Manipal Academy of Higher Education, Manipal on 25 July 2023. The research work was guided by Dr. Karunakar A Kotegar, Professor, Department of Data Science and Computer Applications, MIT Manipal and co-guided by Dr. Sanjib Sinha, Professor, NIMHANS, Bengaluru.



Dr. Preeti Maurya, Full-time Research Scholar in the Department of Mechanical and Industrial Engineering has successfully defended her Doctoral thesis titled *"Experimental Investigation and Optimization of Cryogenic Abrasive Water Jet Machining of Nitrile Butadiene Rubber"* for the award of PhD degree by the Manipal Academy of Higher Education, Manipal on 17 August 2023. The research work was guided by Dr. Vijay G. S., Professor, Department of Mechanical and Industrial Engineering, MIT Manipal and co-guided by Dr. Raghavendra Kamath C., Additional Professor, Department of Mechanical and Industrial Engineering, MIT Manipal.

Dr. Veena Mathew, Full-time Research Scholar in the Department of Electrical & Electronics Engineering has successfully defended her Doctoral thesis titled *"Augmenting Daylight-Artificial Light Integrated Scheme with Tuneable Led Luminaries and Switchable Glazing"* for the award of PhD degree by the Manipal Academy of Higher Education, Manipal on 28 August 2023. The research work was guided by Dr. Ciji Pearl Kurian, Senior Professor, Department of Electrical & Electronics Engineering, MIT Manipal.





Dr. Gopal C M, Full-time Research Scholar in the Department of Civil Engineering has successfully defended his Doctoral thesis titled *"Pharmaceuticals, Personal Care Products and Heavy Metals in Western Bengaluru Rivers and Lakes: Method Development, Risk Assessment and Remediation"* for the award of PhD degree by the Manipal Academy of Higher Education, Manipal on 02 September 2023. The research work was guided by Dr. K. Balakrishna, Professor, Department of Civil Engineering, MIT, Manipal and co-guided by Dr. Krishnamurthy Bhat, Professor, Department of Civil Engineering, MIT Manipal.

Dr. Nagabhushan J Choudhari, Full-time Research Scholar in the Department of Physics has successfully defended his Doctoral thesis titled *"Investigation of Thermally Evaporated Kesterite Thin Films as an Absorber Layer for Solar Cells"* for the award of PhD degree by the Manipal Academy of Higher Education, Manipal on 04 September 2023. The research work was guided by Dr. Raviprakash Y, Additional Professor, Department of Physics, MIT, Manipal.



Dr. Lino Y, Full-time Research Scholar in the Department of Civil Engineering has successfully defended his Doctoral thesis titled *"Groundwater in Late Pleistocene Sediments of Coastal Karnataka and Their Role in Submarine Groundwater Discharge"* for the award of PhD degree by the Manipal Academy of Higher Education, Manipal on 13 September 2023. The research work was guided by Dr. K. Balakrishna, Professor, Department of Civil Engineering, MIT, Manipal and co-guided by Dr. H N Udayashankar, former Professor, Department of Civil Engineering, MIT Manipal.

Dr. K. Jeganath, Full-time Research Scholar in the Department of Physics has successfully defended his Doctoral thesis titled *"Investigation on the Physical Properties of Spray Pyrolyzed Cu₂ZnSnS₄ Thin Films for Photovoltaic Application"* for the award of PhD degree by the Manipal Academy of Higher Education, Manipal on 25 September 2023. The research work was guided by Dr. Raviprakash Y, Additional Professor, Department of Physics, MIT, Manipal.



Dr. Monisha M, Full-time Research Scholar in the Department of Physics has successfully defended her Doctoral thesis titled *"Dy³⁺ Sensitized Eu³⁺ and Sm³⁺ Co-doped Aluminoborosilicate Glass and glass Ceramics for Colour Tunable LEDs Application"* for the award of PhD degree by the Manipal Academy of Higher Education, Manipal on 26 September 2023. The research work was guided by Dr. Sudha D Kamath, Professor & Head, Department of Physics, MIT, Manipal.

Dr. Shruthi Balakrishnan, Full-time Research Scholar in the Department of Civil Engineering has successfully defended her Doctoral thesis titled *"Occurrence, Distribution and Seasonal Variation of Heavy Metals in Soil, Groundwater and Crops Between Rivers Swarna And Halady Of Udupi District, India"* for the award of PhD degree by the Manipal Academy of Higher Education, Manipal on 27 September 2023. The research work was guided by Dr. H N Udayashankar, former Professor, Department of Civil Engineering, MIT, Manipal and co-guided by Dr. K. Balakrishna, Professor, Department of Civil Engineering, MIT Manipal.



Dr. Prashant Bhat, Full-time Research Scholar in the Department of Physics has successfully defended his Doctoral thesis titled *"Photonic and Electronic Devices Based on Tin Doped Zinc Oxide Thin Films Grown by Dc Magnetron Sputtering"* for the award of PhD degree by the Manipal Academy of Higher Education, Manipal on 29 September 2023. The research work was guided by Dr. Dhananjaya Kekuda, Associate Professor, Department of Physics, MIT, Manipal.

Techshila News

ThrustMIT team participated in the esteemed 'Spaceport America Cup' competition in New Mexico, USA from 19 to 24 June 2023. The team achieved a remarkable rocket launch, reaching an impressive altitude of 10,000 feet. The successful recovery of the rocket in an intact condition stands as a testament to the team's careful planning and impeccable execution.

Notable Team Achievements:

- Secured the 57th position out of 67 in the 10,000 feet COTS (Commercial Off the Shelf) category.
- Attained the 101st position out of 119 in the Overall Standings.
- Achieved the 85th position out of 119 in the James Barrowman Award category.



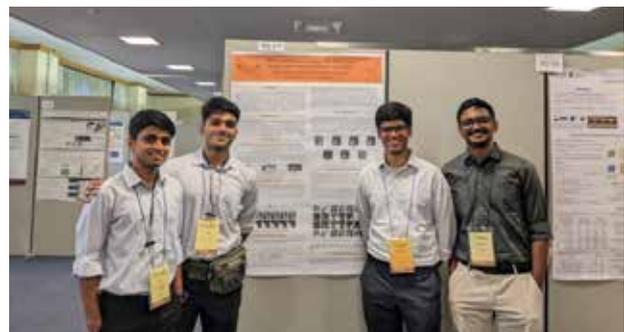
Team Robo Manipal participated in the RoboCon event held at New Delhi during 17-18 June 2023. The first match was against the team from Pune Institute of Computer Technology and the second match was held between MIT, Manipal team and the team from Padmabhooshan Vasanttraodada Patil Institute of Technology.

RoboManipal secured Second Runner-up position in Technoxian. Team RoboManipal represented MIT MAHE in the Technoxian 7.0 competition held at Noida during 25 - 27, July 2023 and secured Second Runner Up position in the event. The team participated in two events, namely, robosoccer and maze

solver. These events saw the participation of over 150 teams, and Team RoboManipal distinguished themselves by achieving the title of 2nd Runner-up among 79 competing teams from across the nation. The team was awarded with cash prize of INR 25,000.

AeroMIT team members, Anagh Benjwal, Prajwal Uday, Aditya Abhiram Vadduri & Abhishek Pai presented a paper titled "Safe Landing Zone Detection for UAVs using Image Segmentation and Super Resolution." in the 18th International MVA conference on Machine Vision Applications, at Hamamatsu, Japan during July 23- 25, 2023.

Anagh Benjwal, Prajwal Uday, Aditya Abhiram Vadduri, and Abhishek Pai, members of the AeroMIT team, had the honor of presenting their paper titled "Safe Landing Zone Detection for UAVs using Image Segmentation and Super Resolution" at the prestigious 18th International MVA conference on Machine Vision Applications in Hamamatsu, Japan, held from July 23 to July 25, 2023.



Formula Manipal - CV team participated in Formula Student event at Austria, during 22-27, July 2023. Out of 21 teams that participated in CV category, the team stood 12th position overall. In the static events, it stood 6th in Cost, 12th in Engineering Design & 18th in Business Plan. In the Dynamic Events, the team stood 7th in Acceleration, 10th in Skid pad & 12th in Auto Cross.



The Formula Manipal - CV team had the opportunity to take part in the Formula Student event held in Austria from July 22 to July 27, 2023. Among the 21 teams that participated in the CV category, our team

achieved an impressive 12th position overall. In the static events, we secured 6th place in Cost, 12th place in Engineering Design, and 18th place in Business Plan.

The Formula Manipal team hosted a two-day seminar on Motorsport Awareness led by Mr. Shubham Sangodkar during 19-20 August 2023. A total of 110 members from various student projects at MIT participated, including four attendees from Kerala.

During the first day of the seminar, Mr. Sangodkar shared insights into his life and journey, starting from his college days to his pursuit of a career in Formula 1. He highlighted his educational background, which included a B.Tech in Aerospace Engineering from Jain University. He then joined Bell Flight as an Aerodynamic Performance Engineer. His academic journey continued with a Master's degree from MUNER, Italy, and subsequent work as an Aerodynamicist for Red Bull Racing. After a three-year stint, he decided to enroll in the experimental race course offered at MUNER. Mr. Sangodkar emphasized the importance of choosing the right educational path to enter the world of Motorsport, particularly when aspiring to work in Formula 1.



On the second day, Mr. Sangodkar delved into the design process followed by Formula 1 teams, particularly concerning aerodynamic components. He provided valuable insights into the dos and don'ts of designing aero parts. Furthermore, he engaged with the team members to discuss their progress and designs. Mr. Sangodkar also reviewed the aerodynamic designs of the Formula Manipal Team and offered guidance on how to enhance the designs.



As part of the Chandrayaan 3 Utsav celebrations, the Project Kalpana student project team organized an interactive session featuring Dr. P. Sreekumar, the Director of MCNS, on 08 September 2023. Dr. Somashekara Bhat, Joint Director MIT welcomed the participants. Dr. Sreekumar initiated the seminar by sharing his remarkable experiences and the journey involved in establishing Project Kalpana and other missions undertaken by ISRO. This insightful presentation was followed by an engaging Q&A session that garnered enthusiasm and provided valuable information.

Dr. V. Ramachandra Murthy, Associate Director (Development) delivered the vote of thanks.

As part of the Chandrayaan 3 Utsav celebrations, the Parikshit student satellite project team conducted a workshop on nanosatellite construction on 11 September 2023. This workshop aimed to provide participants with a comprehensive overview of each subsystem involved in the design and development of a satellite. The workshop spanned two hours and covered six key subsystems: Structures (Thermals and Mechanisms), Payload, Onboard Data Handling, Attitude Determination and Control, Communications and Ground Station, and Electrical Power System. During the workshop, the team explained various component options required to assemble a nanosatellite, offering valuable insights into each subsystem.



Following the workshop, a small component selection competition was organised. Participants were divided into groups of three, and they were presented with problem statements from each subsystem. Their task was to select one or more components, as explained during the workshop, to demonstrate their understanding and knowledge gained from the session.

Manipal BioMachines Team 2023 wins the Impact Grant

The Manipal BioMachines team of 2023 won the Impact Grant as a team engaged in projects with significant potential impact, building upon the foundations of the synthetic biology community. The Manipal BioMachine team was shortlisted among the best 90 teams out of 240 that applied for the grant. The grant amount of \$2,500 USD is awarded to the team as a mark of this recognition.



MIT Student Team becomes the First Runner-up in HackRx 4.0



MIT team achieved the First Runner Up position in the HackRx 4.0 hackathon an exciting competition hosted by Symbiosis Institute of Technology, Pune. The focus of the project was to develop an end-to-end system dedicated to the processing and analysis of graphical data.

The details of the team members are as follows:

- Garvit Gopalani, Final year B. Tech in Information and Communication Technology
- Mihir Agarwal, Final year B. Tech in Data Science & Engineering
- Prajna Prabhu, Final year B. Tech in Data Science & Engineering
- Smeet Dedhia, Final year B. Tech in Data Science & Engineering
- Yaswanth Biruduraju, Final year B. Tech in Data Science & Engineering

NSS members take part in Seema Darshan Project

As part of the "Seema Darshan Project," a group of students and two faculty members from MIT - NSS had the unique privilege of touring the Leh - Ladakh region. This project was launched with the aim of enabling individuals to gain insights into the daily lives and duties of the BSF personnel stationed at our borders.



Ashutosh Jha, a fifth semester student of Electronics and Communication Engineering won the First Prize for the best project in Intel Unnati Industrial Training- Summer 2023 held in June 2023. He received a cash award of Rs. 30,000. He worked on the project titled "Conquering Fashion MNIST with CNNs using Computer vision". He worked under the mentorship of Dr. Anu Shaju Areeckal, Department of Electronics and Communication Engineering and Dr. Ritesh Bhat, Department of Mechanical and Manufacturing Engineering.

Ranjana M., a Research Scholar under the guidance of Dr. Dhanya Sunil in the Department of Chemistry visited Aalto University in Espoo, Finland as a part of her research work. During her visit, she conducted a portion of her thesis work titled "Organic Fluorophores for Gas Sensing and Cellular Applications" at the School of Electrical Engineering, Department of Electronics and Nanoengineering. She worked in the Micro and Quantum Systems research group led by Professor Ilkka Tittonen. Aalto University holds the 40th position in the Times Higher Education (THE) ranking and stands as the top-ranked Finnish university.



Ms. Babitha Ganesh, Research Scholar in the Dept. of Mechatronics received the Best Paper award at the Second International Conference on Artificial Intelligence, Computational Electronics and Communication Systems (AICECS 2023), organized by the Dept. of Electronics and Communication Engineering, Manipal Institute of Technology, Manipal, Karnataka.

Bharathwaaj Sundararaman, B. Tech in Electrical & Electronics Engineering and **Siddhant Jagdev**, B. Tech in Electronics & Instrumentation Engineering under the guidance of Dr. Narendra Khatri, Assistant Professor, Dept. of Mechatronics published a paper in an open access journal of Sustainability, a Q1 journal with an impact factor of 3.9. The journal article is the outcome of their final year of project work.



Ms. Atheena PV, a PhD student in the Department of Biotechnology, received the award of PMRF Scholar (2023 batch) in the Prime Minister's Fellowship Scheme for Doctoral Research by the Science and Engineering Research Board, Department of Science and Technology, Government of India for her Ph.D. project, Bioethanol from Chitin Waste. She was mentored by Dr. Ritu Raval, Associate Professor, Department of Biotechnology.

Nikunj Sharma from III Semester B Tech in Information Technology won the annual campus quiz organized by TATA on 29 August 2023. This quiz serves as a platform to evaluate the business and financial acumen of college students. Nikunj secured this achievement after successfully progressing through three challenging rounds of screening.



Prerana Rao from V Semester B. Tech in Information Technology was nominated as the Most Outstanding Student of MAHE Manipal. This prestigious recognition was bestowed by the Institution of Engineering and Technology (IET) on 18 August 2023.

Rimaansh Bhargava from V Semester B. Tech in Information Technology earned an appreciation award for his participation in a 3-week virtual micro-internship in 2023 at the University of Auckland and Signal Corporation. His team was selected as one of the top two, providing them with the opportunity to directly present their ideas to the SIGNAL Corporation Team.



Vignesh S Iyer, Dishita Midha and Saatvik Maheshwari, all from VII semester B Tech in Data Science and Engineering were honoured with a Certificate of Excellence from the Samsung R&D Institute India-Bangalore for successfully completing the project as part of Samsung PRISM program. Additionally, they were offered six months

internship in Samsung Research Institute, Bangalore. The students completed the project under the mentorship of Dr. Ramakrishna M, Associate Professor, Department of Data Science and Computer Applications.

Nishad from VII Semester B. Tech in Data Science and Engineering secured a place within the top 100 in the world rankings in the World Cube championship held in South Korea from 13 to 15 August 2023.

MIT student team comprising Milind Kumar Jha, Abhigyan Basak, and Sagnik Santra from the Department of Data Science and Engineering emerged as the National Finalists of Hack'E'Lth 2023.

As a part of IAESTE student exchange program, eight engineering graduate students from the Smart Village Campus of the Arab Academy for Science, Technology & Maritime Transport in Cairo, Egypt, have joined Mechatronics Engineering department to complete their internship.



Mr. Achintya Dutta, an alumnus of MIT, Manipal (Electronics and Communication Engineering, Batch of 2021) secured a position in Erasmus Mundus Scholarship Program. This prestigious scholarship program offers opportunities for students to pursue higher education in Europe.



Mr. Vivek Chandy, an alumnus of MIT, Manipal (Electronics and Communication Engineering, Batch of 1997), was promoted as the Managing Director in the Risk Management Group at DBS Bank in Singapore. Mr. Chandy has a Master's in Management (Finance) from the London Business School and Masters in Management (General Management) from the Asian Institute of Management (AIM), Manila, Philippines. He joined DBS Bank Ltd, Singapore, in 2004 as an associate and has steadily risen to position of importance in the organisation.

Mr. Ranjit Bawa, an alumnus of MIT, Manipal (Electronics and Communication Engineering, Batch of 1996), has been promoted as Chief Strategy and Technology Officer, Deloitte. In this role, Mr. Bawa will be responsible for shaping the strategic direction and technological advancements within the organization.



Mr. Naman S Lawania, alumnus of MIT (Civil Engineering, Batch of 2019), secured a place in the Indian Army. Mr. Lawania, a former NCC cadet during his time at the institute, joined the Indian Army through the NCC Special Entry 53rd Course in the year 2023.

Mr. Aditya Nireesh, alumnus of MIT (Biomedical Engineering, Batch of 2021) secured a place in the Indian Army. Mr. Nireesh, a former NCC cadet during his time at the institute, joined the Indian Army through the SSC (TECH)-61 Course in the year 2023.



Dr. Abeera Sharma, an alumna of MIT (Chemical Engineering, Batch of 2008), has been appointed as the Senior Director for R&D Strategy and Programs in the Integrated Product Development Organization at the Dr. Reddy's Laboratories, Hyderabad. In this role, Dr. Sharma will be responsible for overseeing and formulating strategic initiatives within the Research and Development (R&D) division of Dr. Reddy's Laboratories.

Mr. Himanshu Kapur, an alumnus of MIT, Manipal (Computer Science and Engineering, Batch of 2006) has been appointed as Assistant Vice President at Air India Ltd. In this role Mr. Kapur is expected to contribute to the organization's technological infrastructure, digital transformation, and innovation initiatives.



Ms. Chahat Vasal, an alumna of MIT, Manipal (Mechtronics Engineering, Batch of 2022) was awarded the Young Achievers Award by BW Healthcare (BW Business World) for her innovative technology and product solutions in the field of Education and Special Needs.



Alumni Visits

- **Ms. Ambika Bhat**, Chief Information Officer at Onyx-Fire, located in Mississauga, Ontario, Canada and alumna of MIT, Manipal (Biomedical Engineering, Batch of 2003) visited MIT On 6 July 2023.
- **Ms. Deeksha**, Technical Project Manager in Vehicle Active Safety at Bosch Chassis System India Limited, Pune, and alumna of MIT, Manipal (Electrical and Electronics Engineering Batch of 2017) visited MIT on 07 July 2023.
- **Mr. Ravindra Pai**, Lead Rotating Equipment Engineer at Sakhalin Energy, and alumnus of MIT, Manipal (Mechanical Engineering Batch of 1989) visited MIT on 10 July 2023.
- **Mr. Srikanth Bhat**, Executive Director at Manipal Dot Net Pvt Ltd, and alumnus of MIT, Manipal (Electronics and Communication Engineering, Batch of 1995) visited MIT on 17 July 2023.
- **Mr. Pashangh Lavangia**, Junior Consultant at Bain & Company, and alumnus of MIT, Manipal (Civil Engineering, Batch of 2018) visited MIT on 18 July 2023.
- **Mr. Sandeep Dutta**, Senior Managing Director & India Business Lead at Accenture, and alumnus of MIT, Manipal (Electrical and Electronics Engineering Batch of 1993) visited MIT on 19 July 2023.
- **Mr. Premnath Kudva**, Director at CPC Logistics Limited and Managing Director at The Canara Workshops, and alumnus of MIT, Manipal (Industrial and Production Engineering, Batch of 1984) visited MIT on 19 July 2023.
- **Mr. Naveen Kini**, Director of Engineering at Mavenir, and alumnus of MIT, Manipal (Electronics and Communication Engineering, Batch of 1998) visited MIT on 19 July 2023.
- **Mr. Vivekanand Shenoy**, Director in Valuations at the Bank of New York Mellon, and alumnus of MIT, Manipal (Electrical and Electronics Engineering Batch of 2004) visited MIT on 21 July 2023.
- **Ms. Siona Menezes**, an alumna of MIT (Electronics and Communication Engineering, Batch of 2005 and an MTech, Batch of 2007), visited MIT Manipal on 09 August 2023.
- **Ms. Viola Lewis**, **Ms. Irita D'Silva**, and **Mr. Amit Sharma**, alumni of MIT (Biomedical Engineering (BME, Batch of 2000) visited MIT Manipal on 10 August 2023.
- **Mr. Vinayak Kamath**, Vice President at TechnePlus Americas LLC, USA and alumnus of MIT (Mechanical Engineering, Batch of 2004) visited MIT on 12 August 2023.
- **Ms. Rashmi Samanth**, alumna of MIT, Manipal (Mechanical Engineering, Batch of 2020) visited MIT on the 24 August 2023.
- **Ms. Deeksha Prabhu**, an alumna of MIT, Manipal (Electronics and Communication Engineering, Batch of 2017) visited MIT Manipal on 26 August 2023. After working with GE Healthcare for five years, Ms. Prabhu has set her sights on pursuing her Master of Science (MS) degree at the University of Washington.
- **Mr. Nuthanraj**, Production Head at Massilly India Packaging Private Limited and Genesis Packaging, and alumnus of MIT, Manipal (Printing Technology, Batch of 2003), visited MIT Manipal on 27 August 2023.
- **Mr. Shivam**, Life Coach and author, and an alumnus of MIT (Aeronautical Engineering, Batch of 2014) visited MIT on 08 September 2023. Mr. Shivam conducted informative sessions on the topic of "Building Inner Confidence" for MSc students, MTech students, and Research Scholars, imparting valuable insights and knowledge to students.
- **Mr. Akhil**, an alumnus of MIT (Aeronautical Engineering, Batch of 2018) visited MIT on 01 September 2023.
- **Mr. Eeshan Chatterjee**, Founder/MD/CEO of Aroha Innovation Consulting, Cerebrionics Co, and Culinaire Firmag Pvt. Ltd, and alumnus of MIT, Manipal (Biotechnology Engineering, Batch of 2012), visited MIT on 11 September 2023.
- **Mr. Sachin Periera**, an alumnus of MIT (Electrical and Communication Engineering, Batch of 2003) visited MIT on 15 September 2023.
- **Rajat Hebbare**, Lead Manufacturing Engineer (Product and Planning) at GKN Aerospace and an alumnus of MIT (Aeronautical Engineering, Batch of 2014) visited MIT on 21 September 2023.
- A group of alumni from the batch of 1987 including **Mr. T. Parasuram** and **Mr. Vasudeva Prabhu** (Mechanical Engineering) and **Mr. Sandeep Krishnan** (Electronics and Communication Engineering) visited MIT on 03 September 2023.
- A group of alumni from the batch of 2011 (Structural Engineering) visited MIT, Manipal on 08 September 2023. The group included **Mr. Deepak S M**, Managing Partner at Vistaara Infra Consultants, **Mr. Nandisha S A**, Project Manager at APTCES / Construction, **Mr. Abhilash Yadav M L**, Assistant Engineer at TCE, Bangalore, **Mr. Punith C G**, Assistant Professor at GMIT in Davanagere, and **Dr. B K Varun**, Associate Professor at GMIT in Davanagere.
- A group of alumni from Mechanical Engineering, Batch of 2009, visited MIT in this quarter. The group included **Mr. Chandan**, Manager, TVS Motors, Patna, **Mr. Nilmani Kumar**, Deputy Manager, BHEL, **Mr. Prashant Kumar**, Deputy Manager, BHEL, and **Mr. Ravi Rakesh**, Senior Consultant, Exponentia-ai Pvt Ltd.

APPRECIATION OF SERVICE

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



Dr Ramesh R Galigekere
Professor

Department of Biomedical Engineering
Date of Joining: 23-12-2005
Date of Superannuation 31-07-2023



Dr Krishna Murthy
Additional Professor

Department of Mechanical and Industrial
Engineering
Date of Joining: 30-07-008
Date of Superannuation 31-07-2023



Dr Jyothilaxmi R
Additional Professor

Department of Physics
Date of Joining: 28-08-1989
Date of Superannuation 31-07-2023



Dr Tungesh G M
Additional Professor

Department of Humanities
Date of Joining: 17-07-2008
Date of Superannuation 30-09-2023



Mr. Suresh Poojary
General Duty Worker II

Department of Mechanical and Industrial
Engineering
Date of Joining: 01-07-1989
Date of Superannuation: 31-07-2023



Mr. Sadananda Shetty
Senior Technician (Fitting)

MIT Workshop
Date of Joining: 30-09-1991
Date of Superannuation: 31-07-2023



Mr. Ratnakara K
Senior House Keeping Staff
MIT Library

Date of Joining: 31-10-1989
Date of Superannuation: 31-08-2023



Mr. Ashok H Cardoza
Deputy Engineer (Lab)

Department of Civil Engineering
Date of Joining: 04-05-1991
Date of Superannuation: 30-09-2023



Mr. Alphonse D'Souza
Senior Security Guard

MIT Security
Date of Joining: 19-04-1991
Date of Superannuation: 30-09-2023

VISION

Excellence in Technical Education through Research, Innovation and Teamwork.

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Concern for Society and Environment*

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Senior Director, Software Engineering
Cisco Systems India Pvt. Ltd. Bengaluru



Mr. Atul Batra
Product/Startup/India
Ecosystem Advisor



Ms. Mythili Kamath
Director - Flight Systems COE, Aerospace
Honeywell, Bengaluru



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Distinguished Alumni Guests - MIT Pravesh 2023: BTech Orientation



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