MANGALORE INSTITUTE OF TECHNOLOFY & ENGINEERING

IEEE SB REPORT-2024

MANGALORE INSTITUTE OF TECHNOLOGY & ENGINEERING
(A Unit of Rajalaxmi Education Trust®, Mangalore)
Autonomous Institute affiliated to VTU, Belagavi, Approved by AICTE, New Delhi
Accredited by NAAC with A+ Grade & ISO 9001:2015 Certified Institution

Details of MITE IEEE Student Branch

Name of the Branch	MITE IEEE Student Branch
Branch Code	STB15771
Name of Student Branch Counsellor	Sri Krishna Shastri C
Office Bearers for the year 2024	
Student Chair	Prabhal raj
Vice Chair	Maithreyi Nayak
Secretary	Rohan Gowda S
Treasurer	Aishwarya Gowda
Webmaster	Ashish Alva

Membership Statistics

Year	Number of members
2021	20
2022	18
2023	264
2024	272

List of Activities conducted in the year 2024

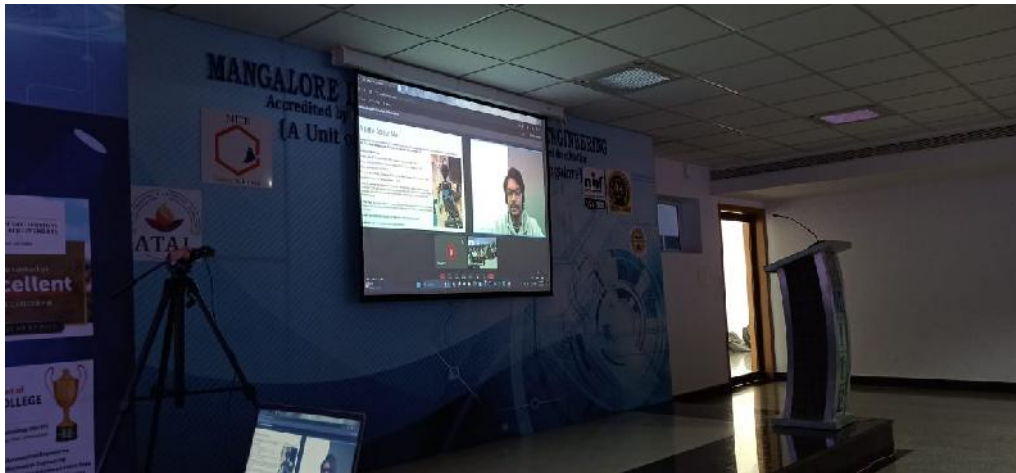| Sl. No	Name of the Activity	Resource Person	Date
1	Invited Talk on "career with IEEE and Path to abroad studies"	Mr. Mahendranath Reddy, University of Hertfordshire, UK.	19/01/2024
2	Hands on workshop on "Python Ignition"	Mr. Ashish Alva, 5th Sem E & C Mr. Rohan Gowda S , 5th Sem E & C	10/02/2024
3	Hands on workshop on "Python Evolver"	Mr. Rohan Gowda S , 5th Sem E & C	17/02/2024
4	Hands on workshop on "Web Wizadry"	Mr. Ashish Alva , 5th Sem E & C	17/02/2024
5	Hands on workshop on "Tinkercad"	Mr. Keerthan Bhat , 7th Sem E & C	25/05/2024
6	C-Coding competition "C-Quest	Students of E & C	29/06/2024
7	Hands on Workshop on "Utility Engineering"	Mr. Sudarshan Kini Managing Director, Sustainable Earth India Pvt. Ltd. Lajapat Nagar Delhi. Consultant to Oceanenergy and IITS	1/07/2024 to 02/07/2024
8	Session on Career Launch pad	Placement Cell, MITE	11/07/2024 to 13/07/2024
9	IEEE Day Celebration	Prof. Gurisiddeyya Hiremath, Student Activity Chair, IEEE MSS	10/10/2024
10	Hands on Workshop on Flutter	Mr. Shahank Mayya, Freelance Software Developer , Mangalore	17/10/2024 to 19/10/2024

11	Workshop on " Harness the Power of Machine Learning"	Dr. Raghavendra S, MIT Manipal & Mr. Shivaprasad, VCET, Puttur	23/10/2024 and 24/10/2024
12	Workshop on Smart IoT Automation	Mrs. Rohini Trimurthy, Founder, XP Learn, Bangalore	21/11/2024 and 22/11/2024

2022 Activity Details

1) **Webinar on "Careers with IEEE & P ath to Abroad Studies" on 19/01/2024.**

Department of Electronics & Communication Engineering in association with IEEE MITE Student Branch organised expert talk on "Careers with IEEE & Path to Abroad by Mr. Mahendra Nath Reddy E, IMSc AI & Robotics, University of Hertfordshire England, United Kingdom.

The objective of "Careers with IEEE & Path to Abroad Studies" is to provide individuals with valuable insights, resources, and opportunities related to career development within the technology sector through IEEE membership. Highlighting the benefits of IEEE membership for career advancement, such as access to technical resources, networking opportunities, and professional development tools. Offering guidance on career paths within the technology industry, including information on various job roles, industry trends, and skills in demand. Providing assistance with resume building, interview preparation, and job search strategies tailored to careers in technology. Showcasing successful career trajectories of IEEE members and professionals within the technology sector, inspiring individuals to pursue their career goals. A total of 72 students participated in the session.

2) **Hands on session on Python Ignition on 10/02/2024**

Department of Electronics & Communication Engineering in association with IEEE MITE Student Branch organised Peer-to-peer Hands-on session on "Python Ignition"
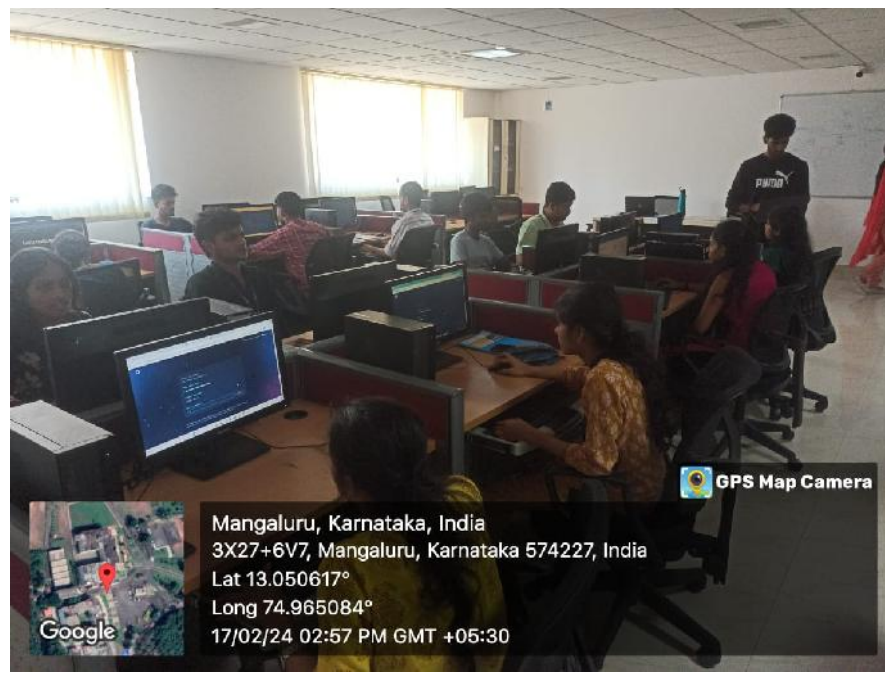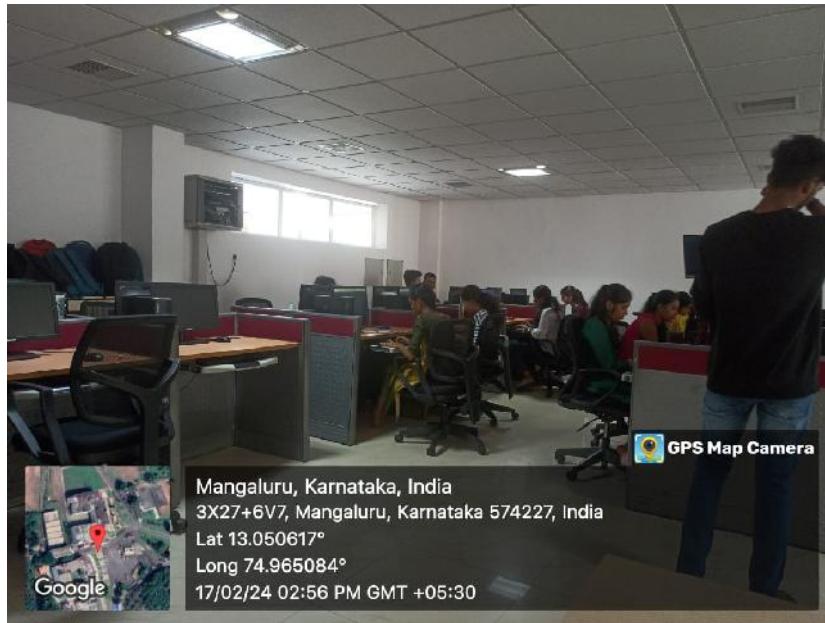
The objective of Peer-to-peer Hands-on session on "Python Ignition" is to introduce participants to Python Ignition, explaining what it is, its features, and its significance in the Python ecosystem. The primary objective could be to provide participants with hands-on experience using Python Ignition. This might involve practical exercises and coding examples to demonstrate its functionality and capabilities. A total of 52 students participated in the session. The session was handled by Mr. Rohan of 3rd Year E & C.

3) Hands on session on Python Ignition on 17/02/2024

Department of Electronics & Communication Engineering in association with IEEE MITE Student Branch organised Peer-to-peer Hands-on session on "Python Evolver"

The objective of Peer-to-peer Hands-on session on "Python Evolver" is to develop a Python-based framework for evolutionary algorithms and demonstrate its effectiveness in solving optimization problems. Specifically it aimed to implement various types of evolutionary algorithms, including genetic algorithms, differential evolution, and particle swarm optimization, Create a modular and extensible framework that allows easy experimentation with different evolutionary algorithms and problem domains and Test the framework on a range of optimization problems to evaluate its performance and scalability.

A total of 52 students participated in the session. Session was handled by Mr. Rohan of 3rd year E & C.

Mangaluru, Karnataka, India
3X27+6V7, Mangaluru, Karnataka 574227, India
Lat 13.050617°
Long 74.965084°
17/02/24 02:57 PM GMT +05:30

4) Hands on session on Python Ignition on 17/02/2024

Department of Electronics & Communication Engineering in association with IEEE MITE Student Branch organised Peer-to-peer Hands-on session on "Web Wizardry" by Ashish Alva of 3rd year E & C.

The objective of Peer-to-peer Hands-on session on "Web Wizardry" is to empower participants with the skills and knowledge needed to create dynamic and interactive web applications. The session focused on teaching various aspects of web development, such as HTML, CSS, JavaScript, and possibly frameworks like React or Angular.

A total of 47 students participated in the session.

5) Hands on session on Tinkercad on 25/05/2024

Department of Electronics & Communication Engineering in association with IEEE MITE Student Branch organized Peer-to-peer Hands-on session on "Digital creation with Tinkercad: From Idea to reality" .The session was handled by Mr. Keerthan Bhat of 4th year E & C.

The objective of a Peer-to-Peer Hands-on session on "Digital Creation with Tinkercad: From Idea to Reality" would be to provide participants with a practical understanding of digital design and creation using Tinkercad. A total of 30 students participated in the session.

6) Session on C-Quest on 29-06-2024.

Department of Electronics & Communication Engineering in association with IEEE MITE Student Branch organised "C QUEST: Weaving the C's Next Wonders".

"C QUEST: Weaving the C's Next Wonders" is a coding competition designed to challenge participants' skills in the C programming language. Hosted on HackerRank, the event brought together a diverse group of programmers, ranging from beginners to advanced coders, to solve a series of algorithmic and data structure problems.HackerRank was chosen as the platform for this competition due to its robust features that support a wide range of programming challenges. A total of 135 students (66 groups, each group having 2 participants) participated in the activity.

7) Session on "Career Launchpad" on 11/07/202 &13/07/2024

Department of Electronics & Communication Engineering in association with IEEE MITE Student Branch organised" Career Launchpad" on 11/07/2024 -13/07/2024.

The objective of the "Career Launchpad" event is to provide a platform for job seekers to enhance their skill in a series of structured activities, including resume uploads, aptitude tests, group discussions, and HR interviews. This event aims to identify and recruit talented individuals, improve participants' job readiness and soft skills, facilitate networking opportunities, and provide valuable feedback and career guidance, ultimately helping candidates to better navigate the job market and achieve their professional goals. A total of 135 students participated in the activity.

8) Talk on Innovating the Future-with IEEE on 10/10/2024.

Department of Electronics & Communication Engineering in association with IEEE MITE Student Branch organized "Innovating future: IEEE Day 2024". Students from 3rd ,5th and 7th semesters participated in the event.

The primary objective of IEEE Day 2024 was to foster a spirit of innovation, collaboration, and knowledge-sharing among engineers, technologists, students, and professionals worldwide. The event aimed to encourage creative problem-solving and the development of new solutions for current and future challenges, uniting participants around the goal of advancing technology for societal benefit. By providing a platform for exchanging ideas, showcasing cutting-edge advancements, and discussing the future of technology, IEEE Day 2024 sought to inspire attendees to engage deeply with pressing global issues, such as sustainability, digital transformation, and the ethical use of emerging technologies. Additionally, the event was designed to strengthen the bonds within the IEEE community, promote global participation, and inspire the next generation of innovators through youth engagement and accessible networking opportunities. A total of 379 students participated in the activity.

9) Workshop on Innovating the Flutter on 17/10/2024 to 19/10/2024

The workshop aimed to provide participants with a comprehensive introduction to Flutter, focusing on practical application development skills. Over three days, attendees engaged in hands- on activities, gaining insights into Flutter's capabilities for building modern applications. The collaborative environment fostered by the Department of Electronics & Communication Engineering and the MITE IEEE Students Branch contributed to a productive learning experience.

10) Workshop on Electrical and Electronics Utility engineering on 01/07/2024 -02/07/2024

Department of Electronics & Communication Engineering in association with IEEE student chapter organized a Two Day Workshop on "Electrical and Electronic Utility Engineering Towards Renewable and Sustainable Energy: An Industry Perspective"

The objective of the workshop was to enlighten the students mind towards the present scenario of the power sector being a major player in industry where in utility Engineering of the Electrical and Electronic Process becomes crucial. This workshop intending to give the insights and open new horizons in the area of utility engineering with hands on session and introduction to the tools used in the industry. The sessions covered the topics about the IEEE standard recommendations, Renewable and sustainable energy generation with Power estimation, Load list calculations and regulations were taught. The process control VFD and PLC's with Pneumatic systems and industrial Automation in order to work towards efficient power estimation and generation with practical difficulties and practice sessions on detailed project report preparation in order to apply for tenders and different agencies for funding was covered.

11) **Hands on workshop on Machine learning by Dr. Raghvendra S, Associate Professor, MIT, Manipal and   Mr. Shivaprasad, Asst. Professor, VCET, Puttur on 23/10/2024-24/10/2024**
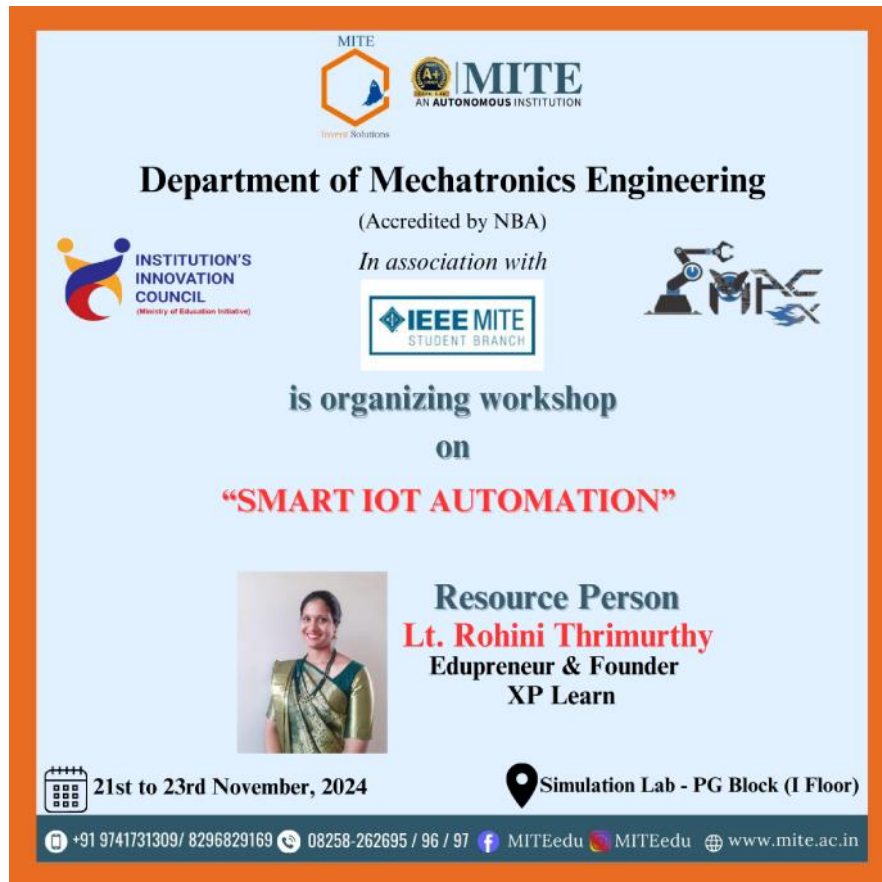
Department of Electronics & Communication Engineering in association with IEEE MITE Student Branch organised hands on workshop on Machine Learning & it's applications in data processing on 23rd and 24th October 2024.

The primary objective of the workshop is to learn the fundamentals of Machine learning and it's Applications in data processing domain. Topics to be covered: Introduction to Machine learning, Data pre-processing and Classification, Decision tree learning, ensemble learning with hands on sessions. A total of 48 students participated in the session.

12)   **Workshop on Smart IoT Automation on 21/11/2024-22/11/2024**

Lt. Rohini T. is an Edupreneur and the Founder of XP Learn, an innovative platform focused on experiential learning. She holds a Leadership Excellence Certificate from Harvard Square and secured 2nd rank in the 2024 Karnataka State Eligibility Test (KSET). With over a decade of teaching experience, she has trained more than 2000 students through hands-on, activity-based learning methods, emphasizing gamification, AI tool integration, and outbound experiential learning.

Funds Received from IEEE Mangalore Subsection

1) A fund amount of 12,000/- has been received from IEEE Mangalore subsection for the two days workshop on "Harness the Power of Machine Learning" held on 23rd and 24th October 2024 organised by department of Electronics & Communication, MITE Moodabidri.