

NEWS LETTER

IEEE Mangalore Subsection

IEEE MSS Newsletter
Issue 2025/2 Jun – Dec 2025

IEEE MANGALORE SUBSECTION

Dec - 2025



Message by Chair – IEEE MSS

The IEEE Mangalore Subsection (MSS) was established on July 10, 2013, under the aegis of the IEEE Bangalore Section. Currently, MSS has achieved a record membership of 4,200 members, with students constituting nearly 80% of the total. The Subsection remains strongly committed to addressing the knowledge and training needs of its student community. Through a wide range of initiatives—including distinguished lectures, project and paper competitions, workshops, monthly technology series, and other educational programs—MSS continuously strives to empower students with meaningful learning opportunities.

One of the flagship initiatives of MSS is the IEEE International Conference on Distributed Computing, VLSI, Electrical Circuits, and Robotics (DISCOVER). Research papers presented at DISCOVER have received significant recognition and are published in IEEE Xplore, where they are widely accessed and cited by the research community. The 9th edition of DISCOVER was successfully conducted on 17–18 October 2025 at PA College of Engineering, Mangalore (<http://www.ieee-discover.org/>).

In addition, the PhD Research Colloquium, an initiative of MSS, provides an effective platform for promoting research outreach and collaboration among PhD scholars and domain experts, with a strong emphasis on networking. The 2025 edition was hosted by Sahyadri College of Engineering and Management (SCEM), Mangalore, on 28 June 2025, during which approximately 50 research scholars presented their work.

The Subsection also takes pride in organizing the annual IEEE Day celebrations, including the Professor K. M. Hebbar Memorial Lecture Series, initiated in 2017. Professor K. M. Hebbar, a pioneer in Electronics and Computer Engineering in coastal Karnataka, has left an enduring legacy through his contributions to academia and mentorship. This year's memorial lecture was held at Niveus Solutions, Udupi, on 4 October 2025, and was delivered by Dr. K. N. Haribhat, Former Professor, NITK Surathkal.

Further, MSS successfully organized two major events under the IEEE Bangalore Section banner: the Faculty Conclave at Bearys Institute of Technology, Mangalore, on 27 June 2025, and the preliminary round of Anveshan 2025 - a 24-hour Hackathon at VCET, Puttur, on 27 October 2025.

A significant achievement during this period was the receipt of a grant of ₹ 10 lakh from IEEE ComSoc and IEEE Tech4Good, led by Dr. Mohit P. Tahiliani, Past Chair (2023), MSS and Associate Professor at NITK Surathkal. Through this initiative, 130 Wi-Fi connections were established across Gram Panchayats, government schools, Primary Health Centres, and other key locations in Agumbe. This impactful project strongly reflected IEEE's core theme of Technology for Humanity.”

This newsletter highlights the events and activities conducted by IEEE Mangalore Subsection during the period from June 2025 to December 2025. It gives me immense pleasure to present the second edition of the MSS Newsletter during my tenure.

Dr. SV Sathyanarayana
Chair – 2025
IEEE Mangalore Subsection

From Editor's Desk

I am delighted to present the second edition of the MSS Newsletter, covering a wide range of events and initiatives conducted from June 2025 to December 2025. This period has witnessed outstanding contributions from our members and student branches, reflecting collaboration and a strong commitment to professional growth. Each initiative - technical workshops, webinars, flagship programs, and community-driven projects - showcases the dynamic and collaborative spirit of MSS

This edition presents detailed reports on key events, insightful sessions, and impactful projects such as "Promoting HEALTH in Agumbe", a community-focused digital infrastructure initiative in Agumbe, Karnataka. It also features activities organized by various committees of MSS, including the Webinar by the Funding Committee, FDP by WiE, the Industry Interaction Committee reports, and the SIGHT Committee initiatives. It also highlights the vibrant activities of student branches and recognizes MSS travel grant beneficiaries.

I extend my sincere gratitude to the editorial team, student volunteers, executive committee members, the IEEE Bangalore Section, and our industry partners for their unwavering support and commitment. Their continued dedication has been instrumental in the success of our initiatives and serves as a source of inspiration for the entire MSS community. As we conclude this year on a high note, let us continue to create opportunities, share knowledge, and inspire excellence together.

Wishing you all a happy and prosperous New Year 2026! **Happy Reading!**

Dr. Ashwini S R (Co-chair)

Prof. Sowmya Anil (Member)
IEEE MSS Newsletter committee

Warm regards,

Dr. Poornalatha G.

Chair
IEEE MSS Newsletter Committee

IEEE MSS Executive Committee Meeting Schedule (June–December)

Sl. No.	Month	Date	Time	Place
1	June	12.6.2025	6.30 PM	Online
2	July	10.7.2025	6.30 PM	Online
3	August	14.8.2025	6.30 PM	Online
4	September	20.9.2025	3.30 PM	PACE , Mangalore campus
5	October	09.10.2025	6.30 PM	Online
6	November	13.11.2025	6.30 PM	Online
7	December	14.12.2025	11.00AM	SVS High School, Agumbe



12th IEEE MSS Execom held at SVS High School, Agumbe

Flagship Events of IEEE MSS

I. IEEE Day Celebration and Industrial Visit

The IEEE Mangalore Subsection successfully organized the IEEE Day 2025 Celebration in conjunction with the Prof. K. M. Hebbar Memorial Lecture on October 4, 2025, at Niveus Solutions, Udupi. The event brought together IEEE members, industry professionals, academicians, and students to celebrate innovation, knowledge sharing and the legacy of Prof. K. M. Hebbar. The program commenced at 2:00 PM with an industry visit to Niveus Solutions, where participants gained valuable exposure to the organization's technological initiatives, work culture and real-world applications of emerging technologies. This interactive visit highlighted the importance of industry-academia collaboration and provided practical insights into current industry practices.

The IEEE Day Celebration and the Prof. K. M. Hebbar Memorial Lecture formally began at 3:00 PM with a welcome address by the organizers, emphasizing the significance of IEEE Day in fostering global collaboration among engineers and technologists. The memorial lecture was delivered by Dr. K. N. Hari Bhat, Former Professor at NITK Surathkal, who shared his experiences and insights while honoring the academic and research contributions of Prof. K. M. Hebbar. His lecture inspired the audience by reflecting on values such as academic excellence, mentorship, and lifelong learning, which continue to guide generations of students and professionals.

As part of the celebration, prizes were awarded to the winners of the Sunita Williams Poster Competition organized by the IEEE Mangalore Subsection, encouraging creativity and scientific expression among students. The event concluded with a high tea and networking session at 4:30 PM, providing an opportunity for participants to interact and strengthen professional connections. Overall, the IEEE Day 2025 Celebration and the Prof. K. M. Hebbar Memorial Lecture embodied the IEEE motto, "Advancing Technology for Humanity." The IEEE Mangalore Subsection extends its sincere gratitude to Niveus Solutions for hosting the event and to all speakers, members, and participants for making the celebration a memorable success.

2. PRIMED: Professional Readiness and Industry Engagement Drive: Anveshan 2025

The Subsection Round of Anveshan 2025, a flagship 24-hour national-level innovation marathon organized by the IEEE Bangalore Section Student Activities Committee (SAC), was successfully hosted at Vivekananda College of Engineering and Technology (VCET), Puttur. The event, aimed at empowering undergraduate students to develop innovative solutions to real-world problems across software and hardware domains, was inaugurated in the presence of Dr. Mahesh Prasanna K, Principal of VCET, and Dr. Jeevitha B K, IEEE VCET Branch Counsellor, with Mr. Venugopala P S, Chair-Elect, and Mr. Vinay Kumar, Secretary, representing the IEEE Mangalore Subsection.

A total of 51 teams participated out of 54 registered teams, showcasing strong enthusiasm and engagement from institutions across the subsection. Teams presented their problem statements and initial prototypes before a panel of industry experts, faculty members, and IEEE representatives, and were evaluated based on innovation, technical feasibility, societal relevance, and implementation strategy. The Subsection Round served as a key preparatory platform for shortlisted teams advancing to the Section-Level Finale scheduled for 15-16 November 2025 in Bangalore, marking an important milestone in their innovation journey under Anveshan 2025



3. IEEE PhD Research Scholars Colloquium

5th IEEE PhD Research Scholars Colloquium was successfully organized on June 28, 2025, at the Sahyadri Seminar Hall, Sahyadri College of Engineering & Management (SCEM), Adyar, Mangaluru. The event was jointly organized by the IEEE Mangalore Subsection and the IEEE Student Branch SCEM with the objective of fostering research excellence, innovation, and collaborative learning among doctoral scholars, academicians, and industry professionals. The colloquium commenced at 9:30 AM with a formal inaugural ceremony, invoking divine blessings. The session was graced by Dr. S.V. Sathyanarayana, Chair, IEEE Mangalore Subsection as the Chief Guest, Dr. Manjappa Sarathi, Director of R&D, Sahyadri College as the Keynote Speaker and Dr. S. S. Injaganeri, Principal, SCEM as the Presiding Officer. The welcome address was delivered by Dr. Mustafa Bathikodi, HoD, Department of CSE.

Key highlights of the inaugural session included the release of the Book of Abstracts containing selected research papers and the unveiling of the latest IEEE Mangalore Subsection newsletter. The dignitaries emphasized the importance of quality research, publications, and scholarly forums in strengthening the academic ecosystem. This was followed by two expert talks delivered by distinguished faculty from NITK Surathkal. Dr. Mohit P. Tahiliani spoke on "IEEE Funding Opportunities," providing insights into international research grants, while Dr. Sourav Kanti Addya delivered a session on "Prerequisites to Publish in Conferences," offering valuable guidance on academic publishing standards.



The technical sessions featured 55 PhD scholars presenting their research across eight parallel tracks, moderated by expert panels from diverse disciplines. The post-lunch session included a panel discussion on “The Power of Discovery – PhD Research and Publications as Engines of Innovation,” moderated by Dr. Anush Bekal and featuring eminent panelists from academia and industry. The colloquium concluded with a valedictory session, where eight best presentations were awarded certificates of merit. With participation from over 25 expert members, the event was highly appreciated for its academic rigor and organization, significantly contributing to the research culture of the IEEE Mangalore Subsection.

4. IEEE DISCOVER 2025

The 9th IEEE International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics (IEEE DISCOVER 2025) was inaugurated on 17th October 2025 at P.A. College of Engineering (PACE), Mangalore. The inaugural program began with a welcome address by Dr. Sharmila Kumari, Vice Principal and Head of the Department of Computer Science and Engineering, who warmly welcomed the dignitaries and introduced the guests. The Chief Guest, Mr. Vasudeva Kamath, Vice President and Head - Delivery Risk Management, Infosys Mangalore, delivered an insightful address emphasizing the importance of presenting innovative ideas and exchanging knowledge among researchers. He highlighted how innovations can contribute to national growth by improving GDP and benefiting society. He also stressed that innovations should not only solve existing problems but must ensure security and avoid creating new challenges. Dr. S.V. Sathyanarayana, Chair, IEEE Mangalore Subsection, briefed the audience about the objectives, roles, and achievements of IEEE. He also presented a statistical overview of the various editions of IEEE DISCOVER, highlighting its growth and impact over the years. Other esteemed guests present on the occasion included Dr. Vasudeva Acharya, Professor, NMAM Institute of Technology; Dr. Sharfuddeen P.K., AGM Campus, PAET and Dr. Afeefa Saleem, Principal, P.A. College of Physiotherapy, Mangalore. The program was presided over by Dr. Ramis M. K., Principal, P.A. College of Engineering, in his presidential remarks, expressed pride in hosting IEEE DISCOVER 2025 during the 25th anniversary celebrations of P.A. College of Engineering. The vote of thanks was proposed by Dr. Mohammed Zakir, Organizing Chair of the conference, expressing gratitude to all dignitaries, delegates, and participants for their valuable contributions. The conference is chaired by Dr. Ramis M. K., Principal, PACE, and Dr. S. V. Sathyanarayana, JNNCE, Shivamogga, with Dr. Sharmila Kumari M and Dr. Mohammed Zakir serving as the Organizing Chairs.

The valedictory address was delivered by Dr. Sameer S. M., Professor, NIT Calicut, who appreciated the IEEE team for hosting the conference and bringing out quality research works from various domains through careful and rigorous review. Dr. Sathyanarayana, Chair, IEEE Mangalore Subsection, gave the concluding remarks. Other dignitaries present included Dr. Vasudeva Acharya, Professor, NMAMIT, and Mr. Haris T.D., Purchase Manager, PAET.



IEEE Tech4Good : Strengthening Digital Connectivity in Agumbe through Sustainable Network Infrastructure

The IEEE Mangalore Subsection, in collaboration with the National Institute of Technology Karnataka (NITK), Surathkal, successfully implemented a community-focused digital infrastructure initiative in Agumbe, Karnataka. The activity aimed to enhance reliable internet connectivity in this ecologically sensitive and geographically remote region by addressing long-standing infrastructure limitations. The initiative aligns with IEEE's mission of advancing technology for humanity and was conducted under the IEEE Tech4Good (T4G) and IEEE Communication Society's "Internet for All" program.

The primary objective of the activity was to strengthen network infrastructure in Agumbe to enable equitable digital access for essential services. Specific goals included improving internet reliability and speed, enabling digital healthcare and education services, supporting local livelihoods through digital transactions, and facilitating research and conservation activities in the region.

The project titled "Promoting HEALTH in Agumbe" - an acronym for Healthcare, Education, Agriculture, Livelihood, Technology, and Heritage was led by Dr. Mohit P. Tahlilani, Associate Professor, Department of Computer Science and Engineering, NITK Surathkal, and former Chair (2023) of the IEEE Mangalore Subsection. The implementation team comprised engineers and volunteers from NITK and IEEE.

Prior to this project, Agumbe had limited optical fibre-based connectivity due to the absence of localized infrastructure. The Optical Line Terminal (OLT) was located approximately 10 kms away, resulting in poor internet speeds and frequent outages, especially during the monsoon season and power interruptions.

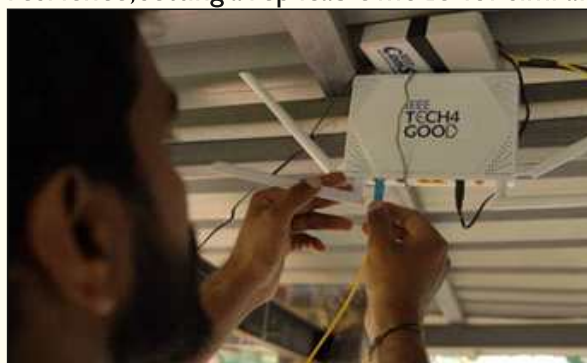
To overcome these challenges, the team installed a dedicated OLT within Agumbe, supported by an Uninterruptible Power Supply (UPS) to ensure uninterrupted service during power cuts. The project was carried out over 12 months and resulted in the provision of 130 Internet connections benefiting at least 2000 people. The project had received a funding of Rs. 10 Lakhs.

The enhanced network infrastructure now serves a wide range of stakeholders, including the gram panchayat office, hospitals, schools, police stations, ration shops, veterinary hospitals, research institutions, anti-poaching units, restaurants, home stays, and individual households. This inclusive coverage ensured that both public institutions and private residents benefited from the initiative.

The improved connectivity has significantly enabled digital transformation in Agumbe. Local businesses and residents can now conduct secure UPI payments and digital transactions. The availability of reliable internet has facilitated remote healthcare consultations, access to digital medical records, and expanded online learning opportunities for students and teachers. Researchers working in conservation and biodiversity studies have benefited from enhanced collaboration and data access.

The improved digital infrastructure has boosted tourism and local commerce through online visibility and digital booking systems. The initiative has also contributed to reverse migration, with families returning to Agumbe due to better infrastructure and livelihood opportunities.

This IEEE initiative demonstrates the transformative role of technology in enabling inclusive and sustainable development in remote regions. By strengthening digital infrastructure in Agumbe, IEEE Mangalore Subsection and NITK have successfully contributed to community empowerment, socio-economic growth, and long-term digital resilience, setting a replicable model for similar rural connectivity initiatives.



Major Events and Initiatives of IEEE MSS

1. Webinar on Leveraging Funding Opportunities from IEEE

The IEEE Mangalore Section (MSS) Funding Committee organized a webinar titled "Leveraging Funding Opportunities from IEEE" on December 01, 2025. The session was delivered by Dr. Mohit P. Tahiliani, Associate Professor, Department of Computer Science and Engineering, National Institute of Technology Karnataka (NITK), Surathkal, and Past Chair of the IEEE Mangalore Section.

Dr. Tahiliani began the session by emphasizing that one of the key benefits of IEEE membership is the vast range of funding opportunities available under various IEEE schemes. He presented an overview of several funding avenues, along with their tentative annual deadlines, and explained how IEEE members can effectively leverage these opportunities for professional and societal impact.

He elaborated on grants offered by different IEEE Societies and special interest groups, which invite applications at various intervals throughout the year. To illustrate the practical impact of such funding, Dr. Tahiliani shared details of a Communication Society and IEEE Tech4Good project sanctioned during his leadership. The project successfully enabled internet connectivity in Agumbe, a previously digitally unconnected region, thereby significantly improving the quality of life of its residents.

Dr. Tahiliani encouraged IEEE members to actively explore and apply for funding opportunities to translate innovative ideas into impactful projects. The webinar was moderated by Dr. Vasudeva, and the session concluded with a vote of thanks by Dr. S.V. Sathyanarayana, Chair, IEEE Mangalore Subsection. The event witnessed enthusiastic participation from over 80 attendees from various parts of Karnataka and beyond.

2. Empowering Women in Academia and Technology: IEEE MSS and WIE Initiatives

IEEE MSS organized three significant women-centric initiatives aimed at empowering women in academia and technology: (i) a Three-Day Faculty Development Programme (FDP) titled "*She Leads: Developing Leadership Competencies for Women Academicians*", (ii) a webinar on "*Women in IT Industry*", and (iii) a Poster Presentation Competition on the theme "*Women in Technology*". Collectively, these initiatives emphasized leadership development, industry exposure, and creative engagement, contributing to the professional growth and empowerment of women.

The three-day FDP was organized from 10 to 12 November 2025 at NMAM Institute of Technology, Nitte, by the Department of Information Science & Engineering in association with IEEE Women in Engineering (WIE) Mangalore Subsection, IEEE Bangalore Section, WIE Bangalore Section, and the Staff Development Centre, Nitte (Deemed to be University), with sponsorship from Canara Bank, Nitte Branch. The programme featured sessions on leadership foundations, emotional intelligence, communication, negotiation, mentorship, research leadership, diversity and inclusion, and institutional governance. Eminent resource persons from academia, industry, and public administration engaged participants through lectures, workshops, and interactive discussions. A total of 59 faculty members benefited from the FDP, gaining leadership competencies and strategic insights for professional advancement.

In celebration of International Women's Day, a webinar on "Women in IT Industry" was organized on 28 March 2025 by the Department of Computer Science & Engineering, JNN College of Engineering, Shivamogga, in association with IEEE JNNCE Student Branch, IEEE Mangalore Subsection, and the Women in Engineering Committee. The session, delivered by Ms. Tejaswini Prabhu, Engineering Manager at Hitachi Energy, highlighted challenges and opportunities for women in the IT sector, emphasizing mentorship, networking, and skill development.

The IEEE Mangalore Subsection WIE Committee conducted an online poster presentation competition on "Women in Technology" in July 2025, with participation from 21 students. The event promoted creativity, awareness, and dialogue on gender equity in technology. Overall, these initiatives significantly contributed to empowering women and fostering inclusive growth in academia and technology.



3. IEEE MSS SIGHT Committee Initiatives and Outreach

IEEE MSS SIGHT Committee conducted outreach programs, expert talks, workshops and training sessions on humanitarian engineering, design thinking, and sustainable product development by various institutions IEEE Student members of Mangalore Subsection under the guidance of respective IEEE Student Branch Counselors. The list of activities along with ATL workshops are listed below

Sl. No.	Name of School	Institute	Date
1	Dr. M. Ramana Shetty Memorial English Medium High School, Tapovana, Thokoor.	NMAMIT/NIPE	9-1-2025
2	SMS English Medium School, Brahamavara	NMAMIT	4-4-2025
3	Saraswati Vidyalaya English Medium School, Gangolli, Kundapura	SMVITM	8-4-2025
4	YIT, Moodbidri (Technical talk)	YIT, Moodbidri	14-5-2025
5	NSAM English Medium High School, Nitte	NMAMIT	28-5-2025 To 29-5-2025
6	S R Public School, Hebri	SMVITM	20-7-2025 To 27-7-2025
7	Govt. Composite High School, Volakadu, Udupi	SMVITM	12-7-2025
8	Karnataka Public School, Hiriadka	SMVITM	26-7-2025
9	Jnanasudha English Medium School, Karkala	NMAMIT	2-8-2025
10	Karnataka Public School, Hiriadka	SMVITM	16-8-2025
11	Karnataka Public School, Brahamavara	SMVITM	16-8-2025
12	National Public School (NPS), Shivamogga	JNNCE	16-8-2025
13	Govt. PU College – High School Section, Baliluru	SMVITM	28-8-2025
14	Sri Ramakrishna High School, Putturu	VCET	18-10-2025
15	KLSVDIT, Haliyal (Technical talk)	KLSVDIT	31-10-2025
16	Govt. High School, Benachi	KLSVDIT	20-11-2025

4. IEEE MSS Industry Relation Activities

The IEEE Workshop on "Data Mining and Predictive Analytics Tools for Career Success" was successfully conducted under the aegis of the Industry Relations Committee and the Student Activities Committee (SAC) of IEEE Mangalore Subsection. The workshop aimed to provide participants with insights into the significance of data mining and predictive analytics in career growth. The session was led by Dr. Raghavendra S, IEEE Senior Member and Co-Chair of the Industry Relations Committee, IEEE MSS. Dr. Raghavendra also demonstrated the use of various data mining tools and their practical applications. The session was interactive, with participants engaging in discussions and queries to enhance their understanding. Following the session, participants were taken to the Cyber Security Lab at the MAHE-ISAC Centre of Excellence for Cyber Security. This visit provided hands-on exposure to real-time case studies and practical applications of data analytics in cybersecurity



The IEEE Mangalore Subsection, in collaboration with CodeZyng, organized a highly engaging workshop titled “REST API & API Development with Node.js, Express, and Database Integration” on 28th April 2025 at Sahyadri College of Engineering & Management, Mangaluru. This event aimed to bridge the gap between academic knowledge and industry-level backend development practices by providing hands-on exposure to RESTful API design and implementation. The workshop was part of IEEE MSS's ongoing efforts to upskill students and prepare them for real-world software development environments. The session was facilitated by Mr. Hrishikesh Bhandarkar, a backend developer and AI enthusiast from CodeZyng, Udupi.

5. IEEE MSS Travel Grants: Beneficiaries

Sl. No.	Name	Institute	Event	Amount (Rs.)
1	Saakshi M S	AJJET Mangalore	IEEE WEICWITE 2025	2500.00
2	Ankita M Nayak	AJJET Mangalore	IEEE WEICWITE 2025	2500.00
3	Sanjana Dhawale	KLSVDIT Haliyal	Workshop at MIT, Mangalore	5000.00
4	Jibin Kuriakose	MIT Manipal	2025 IEEE DISCOVER	5000.00
5	Shrinithi Hegade	AJJET Mangalore	IEEE IDATHON	2050.00
6	Varsha Hegde	AJJET Mangalore	IEEE IDATHON	2050.00
7	Monita Cica Salins	MITE Moodabidre	IEEE Workshop in Antenna Technologies, IISc	2400.00
8	Kushi	MITE Moodabidre	IEEE Workshop in Antenna Technologies, IISc	2400.00
9	Anushree	MITE Moodabidre	IEEE Workshop in Antenna Technologies, IISc	2350.00
10	Dr. Mohammed Zakir B	PACE Mangalore	Agentic AI Summit, Bengaluru	5700.00
11	Pranav C Shetty	SCEM, Mangalore	Agentic AI Summit, Bengaluru	2500.00
12	Shraddha M Shetty	MITE Moodabidre	Public Safety Summit IEEE YPSS – 2025	2500.00
13	Samhitha Shetty	MITE Moodabidre	Public Safety Summit IEEE YPSS – 2025	2500.00
14	Shravya Shetty	MITE Moodabidre	Public Safety Summit IEEE YPSS – 2025	2500.00
15	Thrupthi Pai	MITE Moodabidre	Public Safety Summit IEEE YPSS – 2025	2500.00
16	Shravya Amin	MITE Moodabidre	Public Safety Summit IEEE YPSS – 2025	2500.00
17	Sameeksha	SMVITM Bantakal	ICDDS 2025	2500.00
18	Mehvish Ismail Shaikh	MITE Moodabidre	IEEE Future Networks World Forum (FNWF)	2256.00
19	Afsheen Banu	MITE Moodabidre	IEEE Future Networks World Forum (FNWF)	2256.00
Total (Rupees Fifty One Thousand Four Hundred and Sixty Two only)				51462.00

Travel Grants Committee :

1. Sathyanarayana SV - Chair, IEEE MSS, Chair
2. Vasudeva - Chair, Conference Committee, IEEE MSS, Co-ordinator
3. Venugopala P S - Chair Elect, IEEE MSS, Member
4. Vinay Kumar Jadoun, Secretary, IEEE MSS, Member
5. Gurusiddaiah Hiremath, Treasurer, IEEE MSS, Member

STUDENT ENGAGEMENT: MSS STUDENT BRANCH ACTIVITIES

BEARYS INSTITUTE OF TECHNOLOGY, MANGALORE



Clinical Machine Learning: Trends & Perspectives in Indian Hospitals

The session focused on how machine learning is transforming clinical decision-making, patient monitoring, and diagnostic accuracy in Indian hospitals. Dr. S. Ruban provided insightful perspectives on real-world medical applications, challenges in data processing, and future research opportunities. The event encouraged students to explore interdisciplinary innovations and understand the growing relevance of AI in healthcare.



Ecoverse Makethon

The 24-hour Ecoverse Makethon brought together students to develop innovative prototypes aligned with the theme "Innovate Today, Sustain Tomorrow." Participants worked on solutions for clean air, pure water, green mobility, and safe cities, showcasing creativity and technical skills. The event successfully promoted sustainability-driven innovation and recognized the top three teams with awards.



Exploring VLSI Design

The technical talk introduced students to the fundamentals and industry trends of VLSI design and verification. Resource person Mr. Mahamad Anif shared valuable insights into semiconductor careers and the importance of practical design experience. The event conducted on 8th Sep 2025, helped bridge the gap between academics and industry, motivating students to pursue projects in VLSI.



Hands-on IoT Workshop

The workshop provided students with practical exposure to IoT technologies, including sensors, data acquisition, and device connectivity. Led by IoT expert Ms. Saeedah, the hands-on sessions strengthened students' technical skills and problem-solving abilities. Participants appreciated the workshop for effectively linking real-world applications with theoretical concepts.



IEEE Day Celebration & BEASPIRE Inauguration

The IEEE Day was celebrated on 31st Oct 2025 along with the inauguration of the BEASPIRE department association at BIT. Dr. Monika Sadananda inspired students with a session on adapting to a rapidly changing world through innovation and interdisciplinary learning. Fun and technical events fostered teamwork, creativity, and enthusiasm among engineering students.



Recent Advances in Aerospace Engineering

The technical session offered students an in-depth understanding of aerospace fundamentals, including Mach number, flight regimes, and fluid flow equations. Dr. S.A. Khan explained real-world applications of compressible flow, aircraft performance, and aerospace vibrations. The session emphasized strong theoretical foundations as essential for innovation in modern aerospace technology.



JAWAHARLAL NEHRU NEW COLLEGE OF ENGINEERING

A hands-on workshop on Robotic Simulation using RoboDK Software was conducted on 24.09.2025 organized by the IEEE AESS & RAS Student Chapters of JNNCE, in association with the Departments of Electronics & Telecommunication Engineering and Robotics & Artificial Intelligence (RAI). The workshop aimed to introduce participants to robotic simulation, offline programming, and automation using RoboDK, a leading software platform widely used in industrial robotics and automation sectors.



Machine Learning with KNIME Analytics Platform

Hands-on workshop on Machine Learning with KNIME Analytics Platform was conducted from 4th to 6th November 2025 and was organized by the JNNCE IEEE AESS Student Chapter. The event focused on familiarizing participants with machine learning algorithms, codeless programming using KNIME, model training on datasets, and visualization of ML outputs. It also introduced GenAI - enriched workflows, providing participants with practical exposure to modern machine learning applications.



SIGMA 2K25

Sigma 2K25 was successfully organized by JNNCE IEEE AESS Student Chapter on 29th November 2025, featuring five major events - Hackathon, Maze Run, Arduino Clash, Line Follower Competition, and Tech Talk. The symposium was inaugurated by Ms. Samitha Sarkar, Deputy General Manager, BSNL, Shivamogga, along with other distinguished dignitaries, inspiring participants with insights on technology and innovation. The event witnessed participation from 172 teams with over 250 students across Karnataka and concluded with a prize pool of ₹ 35,000, marking it as a grand success.



Inauguration of IEEE AESS and RAS Student Chapters

Electronics & Telecommunication and Robotics & Artificial Intelligence Departments have jointly planned to inaugurate IEEE Aerospace and Electronics Systems Society Student Chapter and Robotics and Automation Society Student Chapter on 24.09.2025 by Dr. Chengappa Munjandira, Vice-chair, IEEE Bangalore section, HP Enterprise, Bangalore.



PLASMA 2K25

The Department of Electronics and Communication Engineering, in association with the IETE Students Forum, JNNCE IEEE Student Branch and the JNNCE IEEE ComSoc Student Chapter, organized the flagship event “PLASMA 2K25”, a state-level technical symposium, on 21st and 22nd November 2025. The event was inaugurated by proud alumna Ms. Ranjitha H.V., Lead Engineer, Intel Technologies, Bangalore, in the presence of Sri S. N. Nagaraja, Secretary, NES; Dr. Y. Vijaya Kumar, Principal, JNNCE and Dr. S.V. Sathyanarayana, Dean (R&D) & Head, Department of ECE, JNNCE, Shivamogga. A total of 175 teams from 18 colleges across the state participated in the symposium. Three winners for each of the six events were awarded cash prizes totaling ₹ 60,000

MANGALORE INSTITUTE OF TECHNOLOGY & ENGINEERING

MTTS Workshop – “Sparks and Fields: Hands-On Exploration of Electromagnetics”

The two-day workshop on 22.09.2025 and 23.09.2025, introduced students to the fundamentals of electromagnetics through live demonstrations and practical experiments. Participants explored key laws such as Coulomb's Law, Gauss's Law, Faraday's Law, and the Lorentz Force using real-time working models. The event strengthened conceptual understanding and enhanced students' confidence in applying EM concepts to practical engineering scenarios.



Innovation 2025 – Project Exhibition

Innovation 2025 showcased final-year engineering projects, allowing students to present their technical skills, creativity, and problem-solving abilities. A panel of expert jury members evaluated 31 ECE projects based on innovation, relevance, and scientific approach. The exhibition motivated students across departments, encouraged knowledge sharing, and recognized the best projects for their societal impact and technical excellence.



Institute to Industry Forum (I2I) 4.0

The I2I Forum 4.0 connected students with industry professionals through a series of technical talks, hands-on sessions, and interview-readiness workshops. Experts from Intel, Qualcomm, Onsemi, and other leading companies provided insights into VLSI design, verification, hardware design flow, FPGA systems, and STA. The hybrid event empowered students with industry-oriented skills, practical exposure, and guidance for careers in the semiconductor domain.



NATIONAL INSTITUTE OF TECHNOLOGY, KARNATAKA

Code Red

CodeRed, a 24-hour Capture The Flag competition hosted by IEEE NITK Computer Society for first- and second-year undergraduate students, featuring challenges across DSA, Machine Learning, Systems, and Development. With 699 participants forming teams of 1–3 from over 140 colleges nationwide, the event saw strong engagement and competitive spirit. Many teams performed exceptionally well, solving over 80% of the problems by the end of the contest.

Entwine: Forged to Fly

Entwine: Forged to Fly was a technical design challenge hosted by IEEE NITK where participants engineered a compact flapping-wing system inspired by ornithopter mechanisms. Teams created CAD models, performed aerodynamic analysis in ANSYS Fluent, and submitted structured reports under strict design and simulation constraints, testing creativity and engineering insight. The virtual event saw strong participation with 95 attendees and emphasized innovation, kinematics, and aerodynamic efficiency.

NMAMIT, NITTE

TechTriad

The Tech Triad was an offline inter-college technical competition that tested participants across quiz challenges, web hunts, and reverse-engineering tasks. With 50+ participating teams, including 13 from other institutions, the event encouraged problem-solving, logical thinking, and teamwork. The well-structured rounds and seamless execution made it a successful and engaging technical contest.



SAP Hackfest - NMAMIT

SAP Hackfest introduced participants to critical problem-solving and innovation through SAP-based technical challenges. The event emphasized teamwork, practical learning, and creative solutions in a competitive environment. With strong student participation, it successfully fostered technical competence and real-world application skills.



Spark Hunt –Web Hunt Competition

Spark Hunt was conducted as part of World Creativity & Innovation Day, featuring a two-level web hunt designed to test research, creativity, and analytical thinking. Seventeen participants engaged enthusiastically, navigating clues and puzzles under time constraints. The event concluded with successful participation and contributed to promoting innovation and IEEE awareness among first-year students.



Hands-on Workshop on Agentic AI with Salesforce (Agentforce)

This workshop introduced students to Salesforce's Agentforce platform through practical demonstrations and guided hands-on exercises. Over 50 participants engaged in building real-world AI-driven automation workflows, enhancing their understanding of agentic systems. The event received highly positive feedback, effectively bridging theoretical concepts with practical implementation.



Pixel Perfection – Frontend Coding Challenge

Pixel Perfection was a frontend development competition held to promote creativity and technical skill among first- and second-year students. With over 90 participants, the event challenged students to design webpages on diverse real-world themes, evaluated for creativity, responsiveness, and design quality. The competition concluded successfully with prize distribution and strong student engagement, reinforcing IEEE's commitment to innovation.

P A COLLEGE OF ENGINEERING

InnoV8rix X HackSummit'25

A five-day national-level technology summit from May 12 to 16, 2025, was organized by the Department of Computer Science and Engineering, P.A. College of Engineering, in collaboration with IEEE Mangalore Subsection and industry partners. The first three days featured InnoV8rix, a technical fest with 15 diverse events promoting technical skills, creativity, and collaborative learning among participants from across Karnataka. The summit concluded with HackSummit'25, a 24-hour open-theme national-level hackathon organized with GLUG-PACE, encouraging open-source-driven, real-world problem-solving and innovation.



SAHYADRI COLLEGE OF ENGINEERING AND MANAGEMENT

ANVESH-25

Anvesh 25 was a technical paper presentation event conducted by the IEEE Student Branch–SCEM in association with the IEEE Mangalore Subsection on 7th October 2025. The event provided a platform for students to present research work, exchange ideas, and gain academic recognition. With 200+ student participants and 15 faculty attendees, papers were evaluated across multiple tracks, including CSE, ISE, AIML, ECE, and Mechanical/Robotics. A panel of expert jury members assessed submissions based on technical content, presentation, innovation, and practical relevance. Out of 50 submissions, the top two papers from each track were selected as winners. The event successfully promoted research culture, technical excellence, and professional engagement among students.



ST JOSEPH ENGINEERING COLLEGE, MANGALURU

Innovate 2025

The Department of Electronics & Communication Engineering in association with IEEE SJEC Student Branch and IEEE SJEC GRSS Chapter organized two days workshop INNOVATE 2025. Turn Ideas to Reality on 10-11 October 2025 for III Year SJEC Students.





IEEE Activity: A Commitment to Social Responsibility

The Department of Electronics and Communication Engineering, in collaboration with the IEEE SJEC Student Branch and IEEE SJEC GRSS Chapter, organized an IEEE outreach Program on 11th October 2025 to visit SEON Ashram Trust, Belthangady. A total of 20 IEEE student members participated in the program, accompanied by Ms Reshma K J and Ms Madhavi Gatty, Assistant Professors from the Department of Electronics and Communication Engineering.



Advanced FMCW Radar Systems and Practical Applications in ADAS

Description: The Department of Electronics & Communication Engineering in association with IEEE SJEC Student Branch and IEEE SJEC GRSS Chapter organized a one-day workshop on “Advanced FMCW Radar Systems and Practical Applications in ADAS” on 11 October 2025 for II and IV Year SJEC Students



IEEE Day Celebration Talk

An insightful session was held on October 13 to celebrate IEEE Day, featuring a talk by Dr. Mohit P. Tahiliani. The session focused on the structure, benefits, and practical impact of IEEE, particularly highlighting its initiatives within India.



A hands-on session on “Quantum Gates using Q#”

The Department of Computer Science and Engineering in association with IEEE SJEC Student Chapter and TEMS, successfully organized a hands-on session on “Quantum Gates using Q#” for CSE Staffs on 31 October 2025, 3:00 PM to 5:00 PM. Dr Melwyn D'Souza, HOD- Dept. of CSE, Dr Shrisha H S, Associate Professor, was the resource person for the session. The session focused on providing hands-on experience with quantum gates such as NOT, CNOT, and CCNOT (Toffoli),



SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT

IEEE Day Celebration

The IEEE Student Branch of SMVITM, Bantakal, celebrated IEEE Day 2025 on 7 October with the inauguration of new IEEE societies and installation of office bearers for 2025–26. Distinguished guests highlighted the importance of IEEE in fostering innovation, collaboration, and professional development among students. The event featured various technical and fun activities, concluding with prize distribution and reflecting the theme “Leveraging Technology for a Better Tomorrow.”



The Next Frontier in Wireless Communication

The Department of Electronics and Communication Engineering, in collaboration with the IEEE ComSoc and ISTE Student Chapter, successfully organised a talk for VII Semester ECE students on August 30, 2025 at 11:15 AM. The session was conducted in the Seminar Hall of the Admin Block, with Dr. Prabu K., Associate Professor, Department of ECE, NITK Surathkal, serving as the resource person.



Verilog design and applications

The Department of Electronics and Communication Engineering, in collaboration with the ISTE Student Chapter, IEEE ComSoc and the Co-curricular Cell, successfully organized an expert talk on Verilog Design and Applications for the final-year ECE students on August 20, 2025, at 11:15 a.m. The event took place in the Seminar Hall of the Admin Block, with Mr. Hariprasad from Anmaya Technologies, Udupi, serving as the resource person.



GitHub and Flutter for Application Development

One day workshop on "Github and Flutter for Application Development" was successfully organized by the Department of Electronics and Communication Engineering, in association with the Technocrats Club and IEEE ComSoc, at Shri Madhwa Vadiraja Institute of Technology and Management (SMVITM), Bantakal on 29 August 2025. The workshop was conducted by Mr. Shashank, Mr. Kaushik, students from 5th semester, with the support of Mr. Arun Upadhyaya, Head of the Department of Electronics and Communication Engineering and Ms. Pavithra Poornima S, Assistant Professor (Sr.), Coordinator of the Technocrats Club.



ATAL MENTORING WORKSHOP

The IEEE MSS Student Activities Committee and SMVITM students conducted multiple ATAL Mentoring Workshops across schools in Udupi, covering Arduino programming, microcontrollers, IoT applications, and introductory Python programming. The workshops included hands-on sessions on coding, sensor interfacing, automation, simulations, and mini-project demonstrations, making technical concepts accessible to students, especially in rural schools. These initiatives enhanced technological awareness and problem-solving skills among school students while providing valuable mentoring and leadership experience to SMVITM volunteers.



SRINIVASA UNIVERSITY

Workshop on IEEE: Importance and Benefits

The workshop introduced students to the importance, structure, and benefits of IEEE membership, emphasizing opportunities for learning, networking, and professional growth. Expert speakers, including Prof. Vyshak R and faculty from Srinivas University, explained how IEEE activities support student development. The event saw active participation from 90 students and five faculty members.



Workshop on AI in Cybersecurity

The session highlighted how Artificial Intelligence strengthens cybersecurity by enabling faster threat detection, anomaly identification, and automated responses. Speakers explained how AI enhances modern security systems while also addressing challenges like high implementation costs and adversarial attacks. The workshop concluded by emphasizing that AI-driven strategies are essential to protect digital infrastructure in today's evolving cyber threat landscape.



Photography Competition

The IEEE Student Branch organized an online photography competition aimed at encouraging students to creatively capture themes like TechYuva 2025, nature, and campus life. The event attracted 20 teams, and two teams were selected as winners based on their submissions. With support from faculty, coordinators, and Branch Counselor Mr. Vyshak R, the competition successfully promoted non-technical talent among students.



Emerging Trends in Cyber Crime and Attacks

The event featured an expert talk on modern cybercrime threats, including ransomware, identity theft, and AI-powered attacks. Speakers highlighted how technology evolution increases risks and emphasized the rising career opportunities in cyber security. The session aimed to build awareness through objectives focused on understanding attacks, case studies, and advanced technologies, with participation from 40 students and 5 faculty members.



Cyber Security Tools and Techniques by TRACELAY

The program covered essential and advanced cybersecurity topics like OWASP Top 10, SOC, SIEM, XDR/EDR, IoT security, cloud security, and APT defence. Participants were introduced to industry-level skills, including AI-driven cyber defense, malware analysis, offensive security, and breach simulation. The event offered practical training, professional guidance, study materials, certificates, and internship opportunities, ensuring real-world skill development.

VIVEKANANDA COLLEGE OF ENGINEERING AND TECHNOLOGY

Anveshan

The Subsection Round of Anveshan 2025, a flagship 24-hour national-level innovation marathon organized by IEEE Bangalore Section SAC, was successfully hosted at Vivekananda College of Engineering and Technology, Puttur. Anveshan is an initiative designed to empower undergraduate students to solve real-world problems through innovation in both software and hardware domains. The hackathon aims to nurture creativity, collaboration and community-oriented innovation among young engineers.





Jnanasangama

The Vivekananda College of Engineering & Technology (VCET), Puttur, in association with ISTE, the Vivekananda Centre for Research Studies, the Institution's Innovation Council, and the IEEE VCET Student Branch, is hosting the inaugural function of JnanaSangama 2025, a National Level Student Conference. The event will be held on 26th November 2025 at 9:30 AM at Savarkar Sabhabhavana, Krishna Chethana Block. The Chief Guest for the inauguration is Dr. Pallavi K. N., Associate Professor, Dept. of CSE, NMAMIT, Nitte, and the program will be presided over by Sri Muralidhara Bhat B, Treasurer, VCET Governing Council. Coordinated by Mr.Venkatesh Y.C. and Ms. Rashmi P.C.



Code Manthan

Code Manthan, a flagship hackathon organized by the Artificial Intelligence Students Association in association with IEEE Student Branch and IEEE ComSoc, was inaugurated on 25th September 2025 at Savarkar Sabha Bhavana, VCET Puttur. The event aimed to foster innovation, creativity, and collaborative problem-solving among budding engineers. With an overwhelming response from students across various engineering branches, the hackathon set the stage for interdisciplinary learning, ideation, and prototype development.



IEEE Day Celebration

The IEEE Day 2025 celebration was organized by the IEEE Vcet Student Branch in association with WieVcet and ComsocVcet. The event was held to commemorate the spirit of innovation, collaboration, and technological advancement. IEEE Day served as a reminder of the first time IEEE members worldwide gathered to share their technical ideas, and this celebration reflected the same enthusiasm among students and faculty at VCET. With active participation and insightful sessions, the celebration truly embodied the IEEE spirit of "Leveraging Technology for a Better Tomorrow."



Tackle-Pitching Competition

Our college hosted its flagship entrepreneurial event Tackle – Pitching Competition. Organized collaboratively by E-Cell VCET, IEEE VCET, ACES and the Entrepreneurship Development Cell the competition aimed to encourage innovation, validate startup ideas, and instill confidence in students' entrepreneurial abilities. Beyond the quality of pitches, the event's true success lay in the ecosystem it created – one that inspires innovation, nurtures startup aspirations, and strengthens the entrepreneurial culture at VCET.

Code-A-Thon

The Department of MCA, in association with IEEE VCET Student Branch, organized Code-A-Thon, an internal-level hackathon aimed at fostering innovation and problem-solving skills among MCA students. The event provided participants with a real-world coding experience, challenging them to apply their technical knowledge in a collaborative environment. Participants were presented with four real-life problem statements, from which they selected one through a slot-picking process. The event was inaugurated by Sri. Ravikrishna D Kallaje, Director, VCET Governing Council, who highlighted the importance of creativity, teamwork, and technical expertise in the IT industry.

Techno Speak

The event aimed to enhance participants' technical knowledge, research capabilities, and communication skills through an engaging and time-bound activity. Participants were required to explore a technical topic randomly selected from a chit, research it within a limited timeframe, and present their findings effectively through a PowerPoint presentation. The event encouraged analytical thinking, teamwork, and presentation proficiency among students.

KLS VISHWANATHRAO DESHPANDE INSTITUTE OF TECHNOLOGY



CODE BATTLE - 24-hour National Hackathon

IEEE SB KLSVDIT organized a 24-hour National Hackathon on 11–12 March 2025 with five themes—Women Safety, AI Innovation, Cybersecurity, Disaster Response, and Healthcare—supported by IEEE Mangalore Subsection. A total of 71 teams (267 students) from Karnataka and other states participated, with industry experts from Adobe, Praxien Tech, Swipewire, and Arctictern serving as guests and jury members. The event ran continuously for two days, concluding with prize and certificate distribution, engaging IEEE members, faculty, and over 220 non-IEEE participants.



PCB Designing Workshop

A one-day hands-on workshop on PCB Designing was conducted for ECE and EEE students, featuring expert training by Mr. Vaibhav Sugandhi. The session introduced PCB basics and advanced techniques, including multilayer, SMT, HDI PCB design, and fabrication tools. A total of 51 students participated and gained practical skills for designing and fabricating printed circuit boards.



IEEE Day – Resume Building Workshop

A hands-on Resume Building session was held as part of IEEE Day with expert guidance from Prof. Narasimha Dixit and IEEE representatives. Students learned resume structure, ATS-friendly design, AI tools for resume enhancement, and practical drafting using various templates. The event saw active participation from final-year students, featuring demonstrations, feedback sessions, and supporting bills for event expenses.



ATL Mentoring Workshop

IEEE VDIT organized an ATL mentoring workshop for Government High School students at Benachi, focusing on creativity and innovation. Students from grades 8–10 engaged in hands-on activities, problem-solving tasks, and technology demonstrations led by 28 IEEE members. The workshop encouraged scientific curiosity and was supported by school staff and IEEE Mangalore Subsection.

YENEPOYA INSTITUTE OF TECHNOLOGY

Engineers' Day and Teacher's day Celebration

Engineers' Day and Teachers' Day were jointly celebrated on 15/09/2025 with great enthusiasm. The program highlighted the importance of engineering innovation and the vital role of teachers in shaping future professionals. Dr. Praveen B. M, Director of the Research and Innovation Council, Srinivas University, Mukka, served as the resource person for the event. He delivered an insightful talk on research, innovation, and academic excellence. The session inspired students to pursue creativity, ethics, and lifelong learning in their professional journey.

Industry Visit to KMF Udupi and Manipal Anatomy Museum

An industry visit was organized on 24.09.2025 to KMF Udupi and the Manipal Anatomy Museum to provide practical exposure to students. The visit to KMF Udupi offered insights into industrial processes, quality control, and large-scale production systems. At the Manipal Anatomy Museum, students gained valuable knowledge about human anatomy through well-preserved specimens and models. The visit helped bridge the gap between theoretical learning and real-world applications. Overall, it was an informative and enriching learning experience for all participants.

IEEE Day Celebration

IEEE Day was celebrated on 15/10/2025 with active participation and enthusiasm. The event focused on promoting innovation, technology, and professional development among students. Dr. Raghavendra S from MIT, MAHE delivered an inspiring and insightful session during the celebration. His talk highlighted the importance of innovation and research in engineering and technology. The session motivated students to actively engage with IEEE activities and pursue excellence in their technical journey.

IEEE 2 Days Workop : " From Concept To Implementation:VLSI Skill Development"

A two-day workshop titled "From Concept to Implementation: VLSI Skill Development" was conducted on 08/12/2025 and 09/12/2025. The workshop aimed to enhance students' practical and theoretical understanding of VLSI design concepts. Dr. Amith Kumar Goyal and Dr. Arjun Sunil Rao, Assistant Professors from MIT Manipal, served as the resource persons. They provided in-depth insights into VLSI fundamentals, design methodologies, and implementation aspects. The sessions were highly interactive and helped participants strengthen their technical skills and industry readiness.

