

NEWSLETTER

TERM: SPRING–SUMMER | ISSUE: 21 |

DATE: SEP 5, 2026

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



CMRIT, BENGALURU IS RANKED IN THE 151–200 BAND IN THE NIRF
2025 ENGINEERING RANKINGS.

FOR MORE INFO:
WWW.CMRIT.AC.IN



FOR ALL
CMRIT
FAMILY

**Inspiring innovation, nurturing
excellence, and empowering future-ready
engineers.**

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2026



2020





ABOUT CMRIT & LEADERSHIP

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CMRIT Vision



To be a nationally acclaimed and globally recognised institute of engineering, technology and management, producing competent professionals with appropriate attributes to serve the cause of the nation and of society at large.

CMRIT Mission



CMRIT seeks to realise its Mission to:

- **Create the necessary infrastructure appropriate to the needs of the programmes and activities of the institution.**
- **Attract and retain well-qualified faculty and supporting staff.**
- **Create and facilitate an ambience for interdisciplinary engagement, leading to a healthy competition among students and staff, in pursuit of excellence through lifelong learning.**
- **Develop and operate mutually-beneficial programmes, partnering with industries, institutes and individuals of national and international repute.**
- **Create mechanisms to understand societal needs and provide solutions for the betterment of society.**

ECE Department Vision



To create efficient engineers proficient with the domains related to Electronics and Communication Engineering for a successful career in the service of society.

ECE Department Mission



- **M1: To create professionals with robust industrial and academic exposure, capable of inspiring, moulding and training young minds into competent professionals and an ethical resource.**
- **M2: Impart knowledge of domains by equipping laboratories and facilitate experiential learning, experimentation and research, based on the foundation of science and mathematics.**
- **M3: Ideate and implement interdisciplinary projects and foster continuous learning in association with students and colleagues across disciplines of the institute.**
- **M4: Collaborate with academia, industries, organizations and professional bodies for training, consultancy and research.**

Message from the Principal

Leading with Vision, Growing with Passion.



The Department of Electronics and Communication Engineering at CMR Institute of Technology continues its journey towards academic excellence and meaningful technological contribution. The department has created a vibrant environment where students and faculty members actively engage in learning, research, innovation and professional development. The achievements of our students in placements, research publications and various technical activities reflect their ability to adapt to the evolving demands of industry and technology.

Faculty contributions through research, publications, patents and innovation initiatives have further strengthened the academic standing of the department. The department's engagement with professional activities, higher education guidance and community-oriented programmes demonstrates its commitment to education beyond the classroom. The achievements of students in technical, cultural, sports and co-curricular activities are also a testimony to the well-rounded educational experience provided at the institution. I appreciate the efforts of the faculty and students of the department and encourage them to continue striving for excellence, innovation and impactful contributions to society.

Dr. Sanjay Jain

Principal,

CMR Institute of Technology, Bengaluru

Message from the Vice Principal

Leading with Purpose, Growing with Excellence



At the Department of Electronics and Communication Engineering, CMR Institute of Technology, education is viewed as a process of transforming knowledge into capability. The department provides students with opportunities to explore ideas, apply their learning and develop the confidence required to face academic, professional and societal challenges. The active participation of students in industry-oriented activities, research, professional societies and skill-building programmes has helped them broaden their perspectives beyond the prescribed curriculum. Such experiences enable students to develop technical competence, communication skills, teamwork and a spirit of lifelong learning.

The dedication of the faculty in mentoring students, pursuing continuous professional development and exploring emerging areas of technology plays an important role in maintaining a dynamic learning environment. The department's initiatives also encourage students to remain connected with society through outreach and community engagement activities. As technology continues to evolve rapidly, the department remains committed to preparing students who are not only technically capable but also adaptable, creative and responsible in their approach to the future.

Dr. B Narasimha Murthy

Vice Principal,

CMR Institute of Technology, Bengaluru



MESSAGE FROM HEAD OF THE DEPARTMENT

Dr. PAPPAM



**To Our Beloved Students, Faculties
and CMRIT Family.....**



CMR Institute of Technology would always set up learning activities that allow students to explore their creativity in relevant, interesting, and worthwhile ways. The newsletter is one such platform for recognizing students' innovation and creativity. The Department of Electronics and Communication Engineering has always been striving to keep itself ahead of the competition.

This newsletter brings out a record of the Department activities such as professional development, IEEE activities etc... and the achievements of students, staff members and alumni, as well as offering interesting articles and their literary work of art. It gives me immense pleasure to continue the sequel of Newsletter of the even semester 2025-2026. I am sure the department will scale even greater heights in the years to serve the society.

EDITORIAL TEAM

Dr. K Venkateswaran



It is a privilege to be part of this edition of the ECE Department Newsletter, which beautifully reflects the academic accomplishments, innovative pursuits, and vibrant activities of our department. The achievements of our students and faculty stand as a testament to their dedication, perseverance, and passion for excellence. This newsletter brings together moments of learning, collaboration, creativity, and success that define our ECE community. May we continue to embrace challenges, foster innovation, inspire one another, and strive for excellence in all our endeavours.

Prof Sachin Aralikatti

It gives me immense pleasure to present this edition of the ECE Department Newsletter, capturing our journey of academic excellence, innovation, research, and achievements. The accomplishments of our students and faculty reflect our collective commitment to learning, creativity, and continuous growth. This edition celebrates the dedication, talent, and vibrant spirit of our ECE community. May we continue to learn with curiosity, innovate with purpose, and excel with integrity, inspiring greater achievements in the years ahead.



FACE OF THE DEPARTMENT



Dr. K Chitra
DEAN – ACADEMICS AND IQAC



Dr. Pappa M
DEAN – MENTORING &
INITIATIVES, PROFESSOR & HOD



Dr Sharmila K P
Professor



Dr. Meenakshi Patil
Professor



Dr. K Venkateswaran
Professor



Dr. Susheel Kumar
Professor



Dr. Viji K
Professor



Dr. Naveenkumar
Assoc. Prof



Dr. Eisha A
Assoc. Prof



Dr. Sridhar N
Assoc. Prof



Dr. Abinash Panda
Assoc. Prof



Dr. Sridevi S
Assoc. Prof



Dr. Mahesh Jha
Assoc. Prof



**Mr. Nithin S
Chaudhari**
Professor of Practice



Dr. Richa Tengshe
Assoc. Prof



Dr. Sutapa Sarkar
Asst. Prof



Prof. Suganya J
Asst. Prof



Prof. Monika Singh
Asst. Prof



**Prof. Krishna
Teja**
Asst. Prof



**Prof. Sachin
Aralikatti**
Asst. Prof



**Prof. Manjunath
V. Gudur**
Asst. Prof



**Prof. Abhishek
Javali**
Asst. Prof



Dr. Ananth Kumar
Asst. Prof



**Prof. Ashutosh
Srivastava**
Asst. Prof



**Prof. Sophiya
Susan**
Asst. Prof



**Dr. Alamuru
Susmitha**
Asst. Prof



Prof. Raveesh Hegde
Asst. Prof



**Prof. Sanitha
Michail C**
Asst. Prof



Dr. Parthasarathy. P
Asst. Prof



Prof. Sunilkumar
Asst. Prof



Dr. Kavitha D
Asst. Prof



Dr. Sushma T V
Asst. Prof



**Prof. Keka
Mukhopadhyaya**
Asst. Prof



Prof. Anju Das
Asst. Prof



**Prof. Kavitha N
Pillai**
Asst. Prof



Prof. Madhu G.C
Asst. Prof



Prof. Nandini Rao G
Asst. Prof



**Dr. Rangeet
Mitra**
Asst. Prof



**Dr. Geetanjali
Pawanekar**
Asst. Prof



**Prof. Kashif
Ahmed**
Asst. Prof



Prof. Chithra M
Asst. Prof



Dr. Ruma Debnath
Asst. Prof



Prof. Ranjitha R
Asst. Prof



**Dr. Deepthi
Mariam John**
Asst. Prof



Prof. Sandeep K
Asst. Prof



**Prof. Margaret
Mercy V**
Asst. Prof



Prof. Deepika C

Asst. Prof



Prof. Rajesh K M

Asst. Prof



Prof. Pavithra P

Asst. Prof



Dr. Nija K S

Asst. Prof

NON TEACHING STAFF



Ms. Vedha

Teaching
Assistant



Mr. Ramachandran

M
Senior Lab
Instructor



Mr. krishnappa SK

Lab Instructor



Mr. Kumar S

Lab Instructor



Mr. Ramu G

Lab Instructor



Mr. Backiaraj V

Lab Instructor



Ms Camilla

DOE



Mr. Vijay Kumar

Lab Instructor



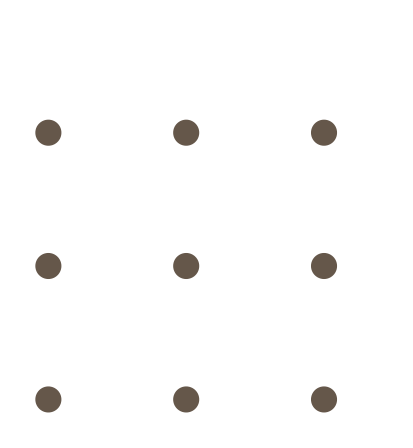
Ms. Rupa

Lab Instructor



Mr. Manoranjan B R

Lab Instructor



Editor's Note

It gives immense pleasure to introduce this Newsletter of Electronics and Communication Engineering, September 2026 which means Nectar in Greek. We are grateful to our Principal and HOD for giving this opportunity to create newsletter. It has been a team work and learning experience to us. We are thankful to all staff who supported us during the making of this newsletter. At last we are thankful to who supported us directly and indirectly.

Article of Interest

- 51 students secured placements with reputed companies, reflecting their talent, dedication, and industry readiness.
- 25 student research papers were published, of which 22 papers are Scopus Indexed, reflecting strong student research engagement..
- 100 faculty research papers were published in reputed journals and conferences, strengthening the department's research profile.
- Faculty members filed 13 patents in emerging areas, promoting innovation and technology-driven research.
- Higher Studies Club and professional-society activities supported students in career planning, competitive examinations and higher-education opportunities.
- Faculty members actively pursued MOOCs and professional development programmes, supporting continuous learning and skill enhancement.
- Community outreach initiatives, including UBA activities and social-engagement programmes, strengthened the department's contribution to society.
- Student achievements in technical, sports, cultural and co-curricular activities were recognized, promoting holistic development.
- Prof.Ranjitha.R HAS PARTICIPATED THE FDP on AI tools for education,research,Health care and project management organized by the School of computer science engineering RV university Bengaluru in collaboration with IEEE FROM 8-12 June 2026.



PROUD MOMENTS & ACHIEVEMENTS

01



Rankings & Recognitions

02



Student Placements

03



VTU Ranks & University Achievements

04



Department Achievements



Proud Moment Our Student, Our Pride

Heartiest Congratulations to

CHINMAYI M KASHYAP
 1CR22EC049

Department of Electronics & Communication Engineering
 CMR Institute of Technology, Bengaluru



Recipient of Multiple Gold Medals
 VTU 26th Convocation

Sl. No.	Award Description	Gold Medal
1	To the student who secures 1st rank in B.E. Electronic & Communication Engineering.	VTU Gold Medal
2	To the student who secures 1st rank in B.E. Electronic & Communication Engineering.	Late Sanjay Shripati Koimattur Memorial Gold Medal
3	To the student who secures 1st rank in B.E. Electronics & Communication Engg.	Dr. N. R. Shetty Gold Medal
4	To the student who passes B.E. degree in Electronics & Communication Engineering course of VTU in first attempt securing highest marks in aggregate in the last four semesters.	SJCE Silver Jubilee-1988 Gold Medal
5	To the 1 st Rank Holder in Electronics & Communication Engg.	R N Shetty Gold Medal
6	To the student who secures highest marks in Electronics & Communication Engg.	Jain University Gold Medal
7	the student who secures 1st rank in B.E. Electronics & Communication Engineering	Jyothi Gold Medal

*Your exceptional hard work, dedication and academic excellence
 bring immense pride to the Department of ECE, CMRIT.
 Wishing you greater success in all your future endeavours!*



EXCELLENCE
 IN EDUCATION



INNOVATION
 IN TECHNOLOGY



LEADERS
 FOR TOMORROW

ECE PLACEMENT ACHIEVERS

CONGRATULATIONS



KUSHAGRA

USN: 1CR23EC094

Company: ZMJ Inc., A Delaware Corporation, USA
Package: ₹61.7 LPA

Your success is an inspiration to the entire CMRIT community.

May this achievement be the beginning of a successful and rewarding professional journey.

ECE PLACEMENT ACHIEVERS

CONGRATULATIONS



ARNIYA S

USN: 1CR23EC025
Company: Oddr
Package: ₹9 LPA

Congratulations on your remarkable achievement! Your dedication, perseverance, and hard work have truly paid off. Wishing you continued success and excellence in all your future endeavors.

Hearty Congratulation's



MS. RUPSHIKHA THAPA
(1CR21EC175)

***CONGRATULATIONS TO MS.RUPSHIKHA THAPA FOR
ACHIEVING ALL INDIA RANK 44 IN THE UPSC-CDS
EXAMINATION (MAR-2026) And secured All India Rank 1 (AIR-1)
in the SSCW-TECH (66) entry in the Electronics and
Communication Engineering branch and has been selected to
join the Indian Army, marking an exceptional accomplishment
in one of the most competitive defence selection processes.***

Congratulations on the Grant of Patent!



Dr. Sanjay Jain, Dr. Viji K. & Dr. Anju Das

The Department of Electronics and Communication Engineering, CMR Institute of Technology, proudly congratulates Dr. Sanjay Jain, Principal; Dr. Viji K., Professor and Dr. Anju Das, Assistant Professor, on the successful grant of the patent titled:

“Blackboard Cleaning Robot (Boardbot)”

The patent has been granted by the Office of the Controller General of Patents, Designs and Trade Marks, Government of India. Heartiest congratulations to the inventors on this significant achievement! Wishing them continued success in innovation and research.

Hearty Congratulation's



Dr. Anju Das

Dr. Anju Das, Assistant Professor, Department of Electronics and Communication Engineering, successfully completed her Ph.D. on 11 May 2026 from Amrita Vishwa Vidyapeetham, Bengaluru Campus, with the thesis titled “Dual Deep Learning Framework for Early Cancer Identification and Accurate Multi-Class Classification by Integrating Gene Expression and Histopathological Data.”

IEEE FUNDING & PROFESSIONAL ACHIEVEMENTS



CONGRATULATIONS **DR. ABINASH PANDA** FOR APPROVAL OF SUBSIDY GRANT FOR VARIOUS TECHNICAL EVENTS. (MAR-2026) Under IEEE Electron Devices Society (EDS) and IEEE has approved an amount of \$ 1500 to IEEE EDS, CMRIT SB 4th year 2026.



CONGRATULATIONS **DR. SUSHMA TV**, ON APPROVAL OF \$500 FUNDING FOR IEEE - SIGNAL PROCESSING SOCIETY STUDENT BRANCH CMRIT - (April-2026).



CONGRATULATIONS **DR. KAVITHA. D**, ON APPROVAL OF \$200 FUNDING FOR IEEE WIE SOCIETY FOR THE ACADEMIC YEAR 2025-2026. - (April-2026).

Unnat Bharat Abhiyan Project Approved



Congratulations to Dr. Sharmila K. P.

The Department of Electronics and Communication Engineering, CMR Institute of Technology, proudly congratulates Dr. Sharmila K. P., Principal Investigator (PI), on the noteworthy achievement under the Subject Expert Group (SEG) – Sustainable Agriculture System of the Unnat Bharat Abhiyan Project for the project titled: “Year-Round Farming for Sustainable Livelihoods and Rural Agripreneurship.” The department extends its heartfelt congratulations to Dr. Sharmila K. P. and wishes her continued success in her future research, innovation, and academic endeavours.



Congratulations to Dr. K. Venkateswaran

The Department of Electronics and Communication Engineering, CMR Institute of Technology, proudly congratulates Dr. K. Venkateswaran, Principal Investigator (PI), on the noteworthy achievement under the Subject Expert Group (SEG) – Sustainable Agriculture System of the Unnat Bharat Abhiyan Project for the project titled: “Development and Installation of Effective Insect Trapping System in Crop Fields.” The department extends its heartfelt congratulations to Dr. K. Venkateswaran and wishes him continued success in his future research and innovation endeavours.

AICTE Training and Learning (ATAL) programme for the Academic Year 2026–27



The Department of Electronics and Communication Engineering, CMR Institute of Technology, proudly congratulates **Dr. Viji K.** on the selection of the Faculty Development Programme (FDP) under the AICTE Training and Learning (ATAL) programme for the Academic Year 2026–27.

The selected FDP, titled:

“AI-Driven Transistor Technologies with 2D Materials for Next-Generation Semiconductor Systems,”

focuses on emerging and advanced areas of semiconductor technology, two-dimensional materials, artificial intelligence, and next-generation electronic systems.

This significant achievement reflects the department's continued commitment to academic excellence, faculty development, research, innovation, and emerging technologies.

Heartiest Congratulations and Best Wishes for the successful conduct of the FDP!

VTU EXAM TOPPEER'S



**HEARTY CONGRATULATIONS TO THE 3RD SEM TOPPERS FOR THEIR
EXCELLENT PERFORMANCE DURING VTU EXAMS HELD IN DEC-2025 - JAN-
2026- (April-2026)**

1CR24EC210 -SREEKARAM SREE SAI PREETHAM - 3RD SEM 'D' SECTION

1CR24EC119 -MOHAMMED AZEEM CHOUDHARI - 3RD SEM 'B' SECTION

1CR24EC131 -NEETHA CHOUDHARY - 3RD SEM 'C' SECTION



**HEARTY CONGRATULATIONS TO THE 5TH SEM TOPPERS FOR THEIR
EXCELLENT PERFORMANCE.**

DURING VTU EXAMS HELD IN DEC-2025 - JAN-2026- (April-2026)

**1CR23EC067 -G U R R A M V E N K A T A K U M A R A K A R T H I K E Y A - 5TH SEM 'B'
SECTION**

1CR23EC105 -MAAHI SINGH - 5TH SEM 'B' SECTION

1CR23EC073 -HARSHINIA - 5TH SEM 'B' SECTION

STUDENTS AWARDS, TECHNICAL COMPETITIONS & HACKATHON ACHIEVERS

1. CONGRATULATIONS TO ALL THE CENTUM SCORERS FOR THE ACADEMIC YEAR 2025-2026

ODD-SEM - SUBJECT BMATEC301 AV MATHEMATICS FOR ELECTRONICS ENGINEERING - (April-2026)

1. 1CR24EC131 - NEETHA CHOUDHARY – 4TH SEM 'C' SECTION
2. 1CR24EC210 - SREEKARAM SREE SAI PREETHAM - 4TH SEM 'D' SECTION.

2. National Level 24-Hour Hackathon conducted as part of TechFusion 2.0 held on 28th and 29th April 2026 at Dayananda Sagar Academy of Technology and Management, Bangalore.

1. SD Sanjana, USN: 1CR24EC178, Department: ECE, Semester: 4th Sem
2. Sai Vaishnavi SK, USN: 1CR24EC187, Department: ECE, Semester: 4th Sem.

Secured 2nd Place in the competition and won a cash prize worth ₹ 8,000. (07/05/2026)

3. Ayush Kumar - 1CR23EC027 - 3rd year ECE Winner of ApriForge hackathon Winner (13/05/2026)

4. WINNERS OF THE CMRIT NATIONAL LEVEL SOCIAL HACKATHON 26, Team Verde (CMR Institute of Technology) - ₹5,000 (15/05/2026)

1. Likitha N (1CR24EC107)
2. Kovidh V Chodankar (1CR24EC101)

5. Winners of HACKTRONICS 2026. "Hacktronics - Circuit to Cloud – A Multidisciplinary Hybrid Hackathon

Project: An IoT-Based Smart Monitoring and Control System for Hydroponic Water Culture

1. Rincy Wilma R-1CR23EC176
2. S Sri Vatsa-1CR23EC186
3. S P Punith-1CR23EC1844.
4. Parikshith R- 1CR23EC146

STUDENTS AWARDS, TECHNICAL COMPETITIONS & HACKATHON ACHIEVERS

**Winners of the Two-Day Innovative Design Challenge:
1st Place, (21/05/2026), Title: IoT Based Smart Helmet System**

Team Members :

1. Vishnu Vardhan D (1CR25EC245)
2. Vismay Y Gowda (1CR25EC246)

2nd Place, (21/05/2026), Title: Cookie Quench Bottle

Team Members :

1. Sri Raksha KV (1CR25EC211)

3rd Place, (21/05/2026), Title: Medicine Reminder Box

Team Members :

1. V Rubitha (1CR25EC162)
2. N Bhoomika Prabhu (1CR25EC135)
3. Ruthu Modi (1CR25EC169)
4. Muskan Kumari (1CR25EC134)

Winners of NextGenConvergence 2026. 2nd prize(25/05/2026)

10 Team code red crew from CMRIT

Team Members :

1. Jaishree P (1CR23EC076)
2. Kandaddy Padmapriya (1CR23EC085)
3. Harshita Bhushan (1CR23EC074)
4. Janavi V (1CR23EC078)



ACADEMIC & PROFESSIONAL ENGAGEMENTS

01



**FDPs / LTTP / STTP,
Centre of Excellence
Activities**

02



**Hackathons,
Conferences**

03



**Expert / Invited Talks
/ Webinars**

04



Alumni Talks



IEEE - ICECCC 2026 Conducted on 17th & 18th JULY 2026

Events

The Third International Conference on Electronics, Computing, Communication and Control Technology - 2026 (ICECCC 2026) was hosted by the Department of Electronics and Communication Engineering, CMR Institute of Technology, Bengaluru, on 17th and 18th July 2026 in offline mode. The inaugural session was held at 9:15 AM on 17th July 2026 at the AV Hall, Ground Floor, D-Block.

The International Conference was inaugurated by the Chief Guest, Dr. Alope Das, Chair, IEEE Circuits and Systems Society, Bengaluru. In his inaugural address, he emphasized the importance of conducting conferences in offline mode, highlighting how direct interaction facilitates the effective dissemination and exchange of ongoing research work across multiple domains and areas of study.

The keynote speaker for the first day of the conference was Dr. Soma Pandey, AVP, IoT Devices, Jio Platforms. In her keynote address, she explored emerging dimensions of artificial intelligence in edge computing and IoT systems, highlighting the growing significance and potential of these technologies in addressing real-world challenges.

The keynote speaker for the second day of the conference was Shri Lokesh Nalluri, who is pursuing research in MSc Quantum Technologies (PGT) at the University of Strathclyde, Glasgow, Scotland, UK. He demonstrated the distinctive features and potential of quantum computing in comparison with conventional binary-based computing systems. He also discussed how the combined potential of artificial intelligence and quantum computing can be harnessed to address highly complex scientific and technological problems.



ECE Department Events

SHORT TERM TRAINING PROGRAMME on DESIGN PRINCIPLES IN DRONES & ROBOTICS

Organized by:

Centre of Excellence – Drones & Robotics

Dept. of ECE, CMR Institute of Technology, Bengaluru

Dates: 19th – 23rd May 2026

Time: 6:00 PM – 8:00 PM

Mode: Online

The rapid advancement of drones, robotics, artificial intelligence, and autonomous systems is transforming industries ranging from defense, agriculture, healthcare, smart manufacturing, logistics, and surveillance to Industry 4.0-driven smart factories. To bridge the growing gap between academic learning and real-world technological applications, the Centre of Excellence – Drones & Robotics, Department of ECE, CMR Institute of Technology, Bengaluru, is organizing a Short-Term Training Programme (STTP) on “Design Principles in Drones & Robotics.”

This STTP is carefully designed to provide participants with a strong conceptual foundation, hands-on exposure, and industry-aligned knowledge in modern drone and robotic systems. The program integrates theory, simulation, design methodologies, real-world case studies, and demonstrations, making it highly relevant for faculty members, students, researchers, and industry professionals. The training emphasizes modern tools, platforms, and regulatory frameworks, ensuring participants gain a holistic understanding of end-to-end drone and robotic system design, from architecture to deployment.



CMR INSTITUTE OF TECHNOLOGY
BENGALURU

The CoE – Drones and Robotics from the Department of Electronics and Communication Engineering is organizing a Short-Term Training Program (STTP) on **Design Principles in Drones and Robotics**

RESOURCE PERSON

Mr. Christopher Josh Senior Engineer Ignitium Technology Solutions Private Limited,	Dr. P. Susheelkumar Professor Department of ECE, CMRIT	Prof. Ashutosh Srivastava Head – CoE Drones and Robotics Department of ECE, CMRIT
Prof. Nitin Chaudhari Member - CoE Drones and Robotics Department of ECE, CMRIT	Prof. Deepika C Member - CoE Drones and Robotics Department of ECE, CMRIT	Prof. Keka M Member - CoE Drones and Robotics Department of ECE, CMRIT
Dr. Abinash Panda Member - CoE Drones and Robotics Department of ECE, CMRIT	Mr. Akash V CTO Akashavada Technologies	

9th – 13th June 2026

6:00 PM – 8:00 PM

Online Mode



Scan to Register

Prof. Ashutosh Srivastava
Event Coordinator

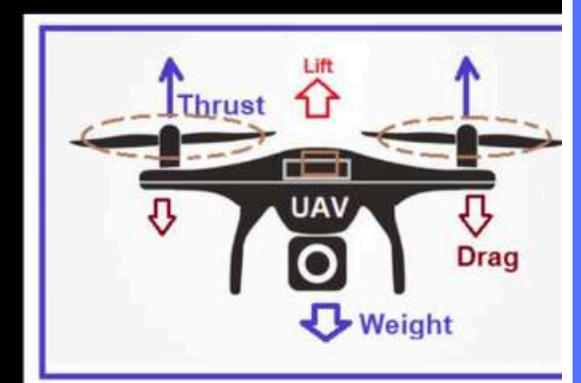
Dr. Pappa M
Dean M&I
HoD- ECE

Dr. Sanjay Jain
Principal

www.cmr.ac.in

TYPES OF DRONES (BASED ON PROPELLORS)

- Bi-copter (2 propellers)
- Triple-copter (3 propellers)
- Quadcopter (4 propellers) (most common)
- Hexacopter (6 propellers)
- Octa-copter (8 propellers)
- More propellers improve stability of the drone, but also need more battery power
- Need to balance between the two



LATEST IN ROBOTICS AND DRONES

- **AI-Powered Autonomy** – Integration of AI/ML for decision-making, adaptive navigation, and swarm intelligence.
- **Swarm Robotics & Drone Swarms** – Multiple drones coordinating for rescue, agriculture, and defense.
- **5G/6G-Enabled Drones** – for real-time control and high-resolution video streaming.
- **Collaborative Robots (Cobots)** – Robots working alongside humans in manufacturing, logistics, and healthcare.
- **Bio-Inspired Robotics** – Designs inspired by nature (bird-like drones, snake robots, insect-scale micro-drones).
- **Sustainable Power Systems** – Solar-powered drones, fuel cells
- **Advanced Sensors & Vision** – LIDAR, thermal imaging, precision mapping & monitoring.
- **Space Robotics & Exploration** – Rovers, planetary drones (like NASA's Ingenuity on Mars), and orbital robots.
- **Medical & Service Robots** – Robots in hospitals, elder care, and hazardous environments

ECE Department Events

2 Day Workshop Hyperparameter Free Information Theoretic Learning

Venue: CoE Drone and Robotics, Department of ECE (Online Mode)

Date: 10th & 11th June 2026, Time:

Morning Session: 10:00 AM – 12:00 PM, Afternoon Session: 2:00 PM – 4:00 PM

Resource Persons:

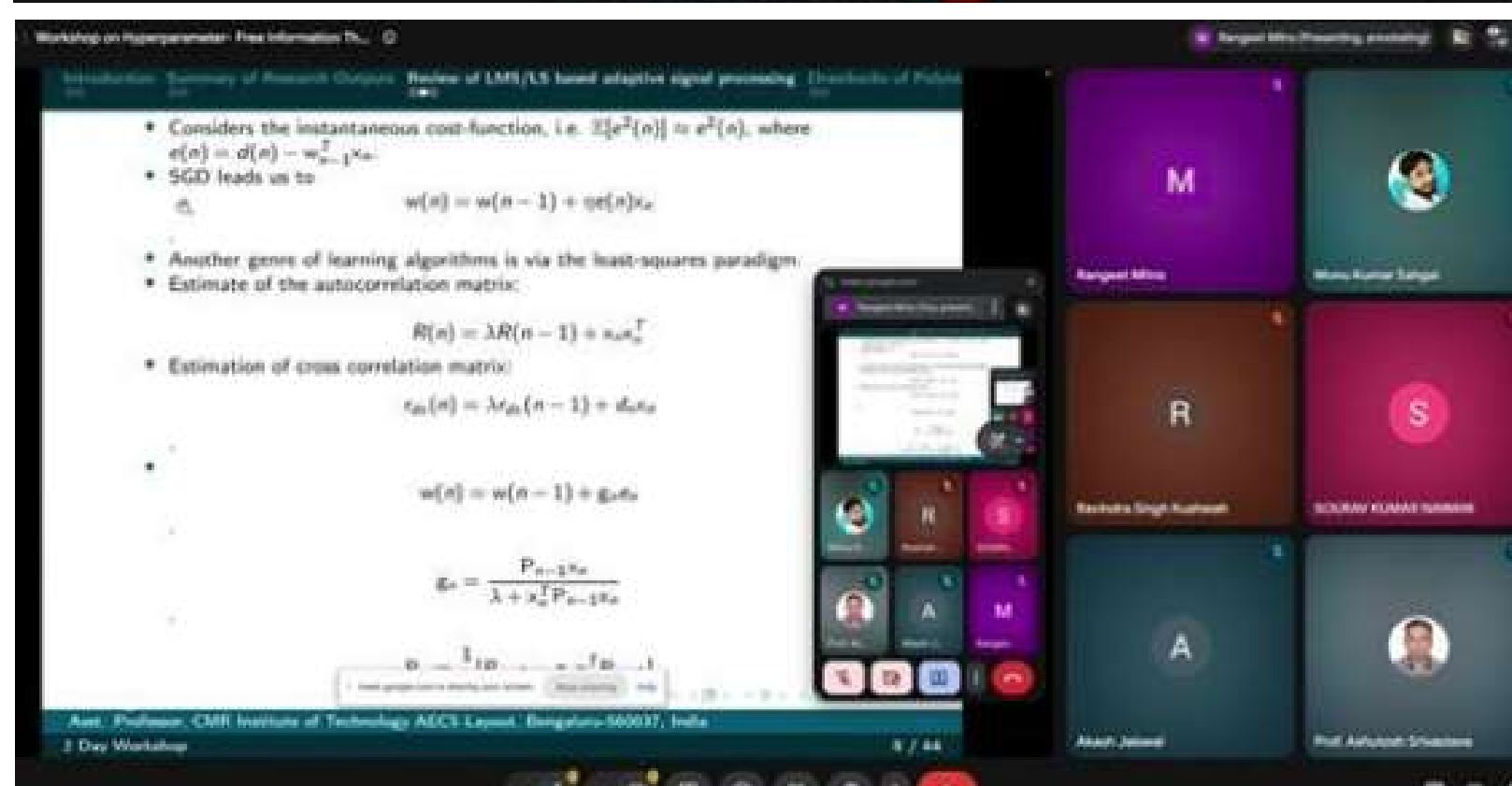
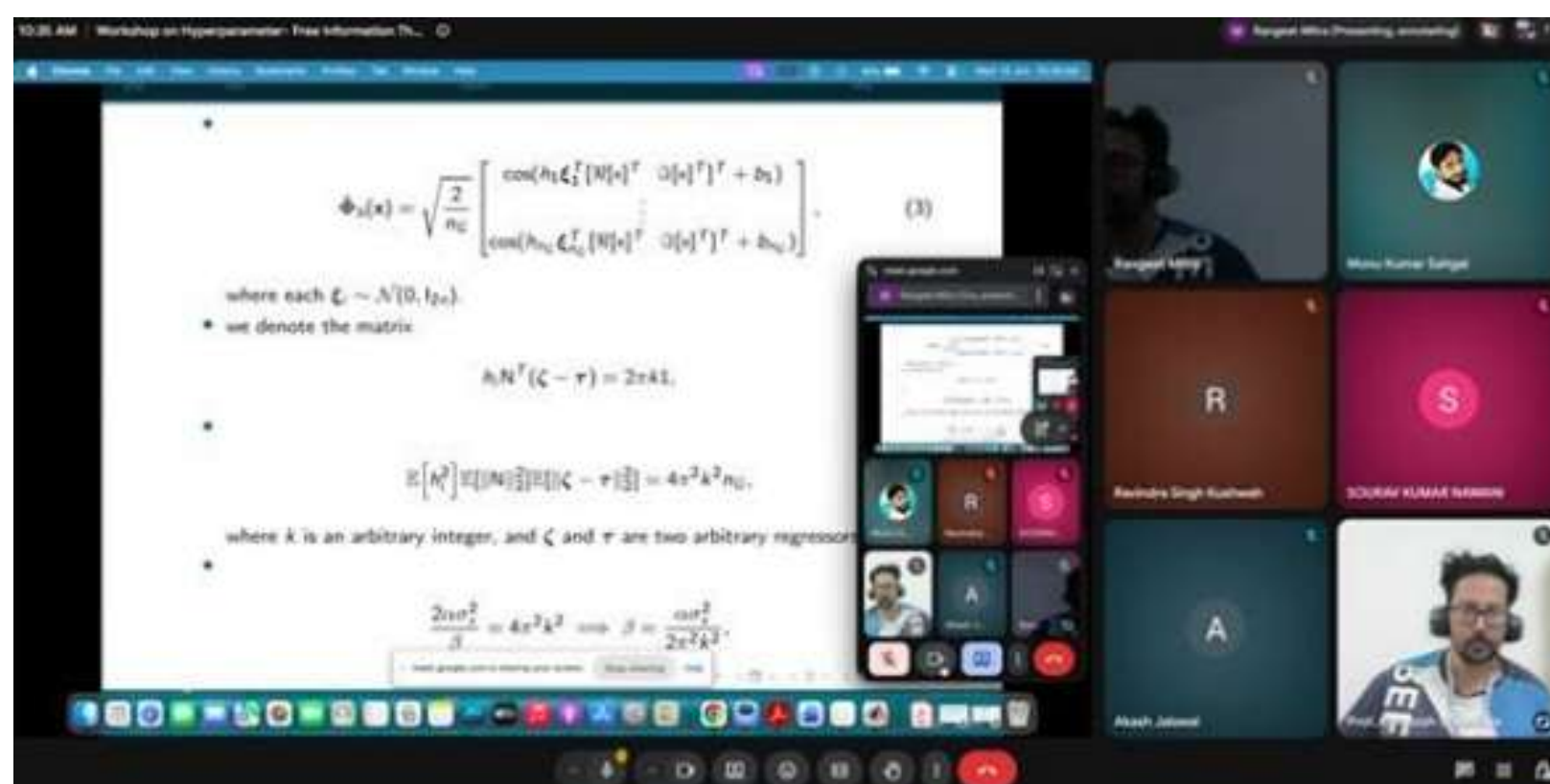
Dr. Rangeet Mitra

Assistant Professor

Department of Electronics & Communication Engineering
CMR Institute of Technology, Bengaluru

The Centre of Excellence (CoE) – Drone and Robotics, Department of Electronics and Communication Engineering, CMR Institute of Technology, successfully organized a two-day online workshop on "Hyperparameter-Free Information Theoretic Learning" on 10th and 11th June 2026. The workshop was designed to introduce faculty members, research scholars, postgraduate students, and undergraduate students to the latest developments in Information Theoretic Learning (ITL), adaptive signal processing, kernel-based machine learning, Random Fourier Features (RFF), and hyperparameter-free learning techniques that are expected to play a significant role in future AI-enabled communication systems, robotics, drones, 6G wireless networks, autonomous systems, and intelligent embedded platforms. The workshop emphasized the practical limitations of traditional machine learning models that require extensive hyperparameter tuning and introduced advanced mathematical approaches capable of eliminating manual parameter optimization while improving convergence speed and generalization performance.

Throughout the workshop, participants were exposed to recent research contributions, mathematical derivations, implementation methodologies, real-world applications, and future research opportunities in Hyperparameter-Free Machine Learning. The sessions were highly interactive and encouraged active discussions between participants and resource persons.



ECE Department Events

Workshop on Antenna Design using HFSS by Centre of Excellence (CoE) - Drones and Robotics

Name of the Event Workshop on Antenna Design using HFSS

Organized By

Centre of Excellence (CoE) - Drones and Robotics, Department of Electronics & Communication Engineering, CMR Institute of Technology

Level Organization Level (ORG)

Mode Online

Venue Google Meet

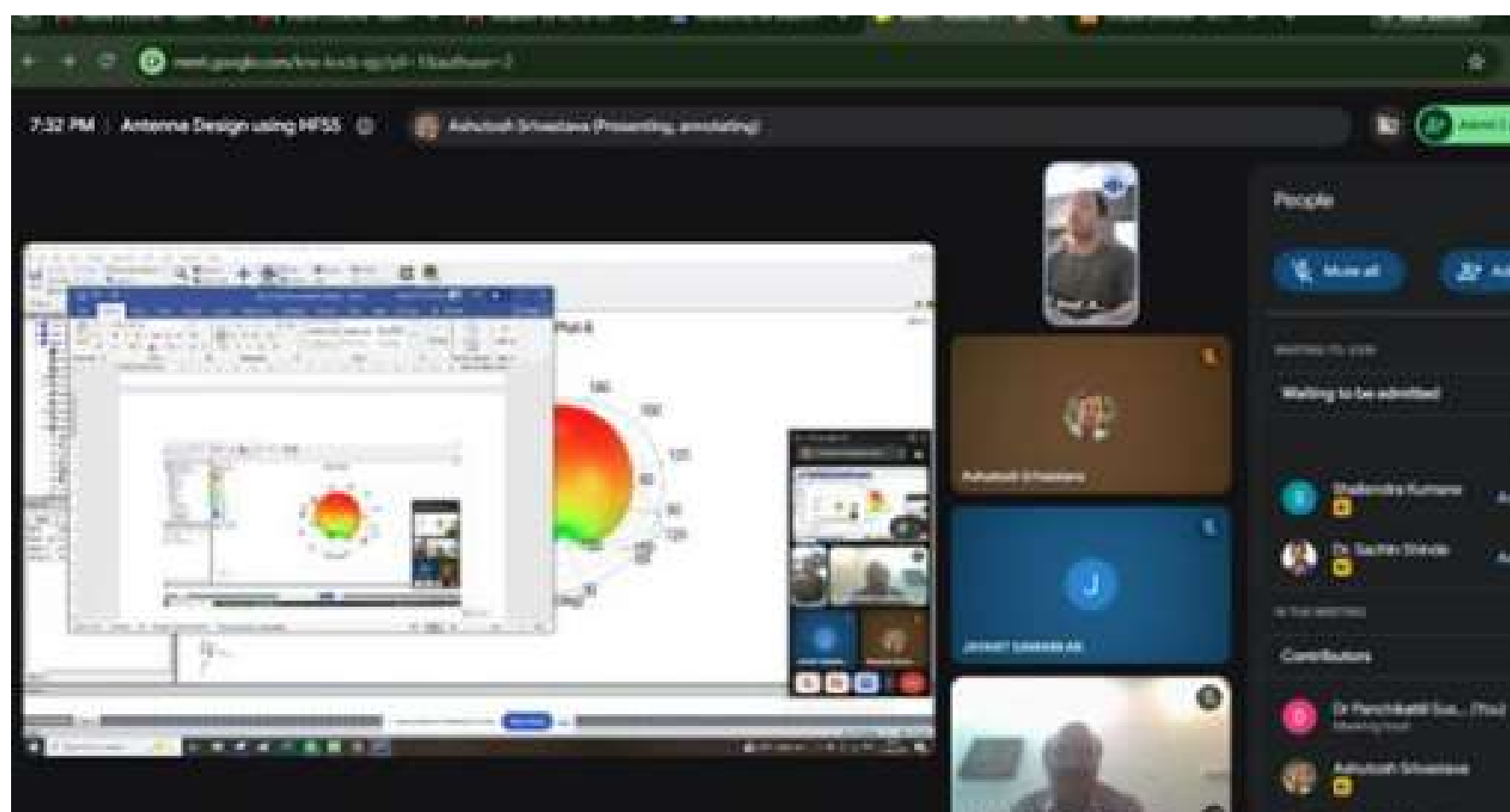
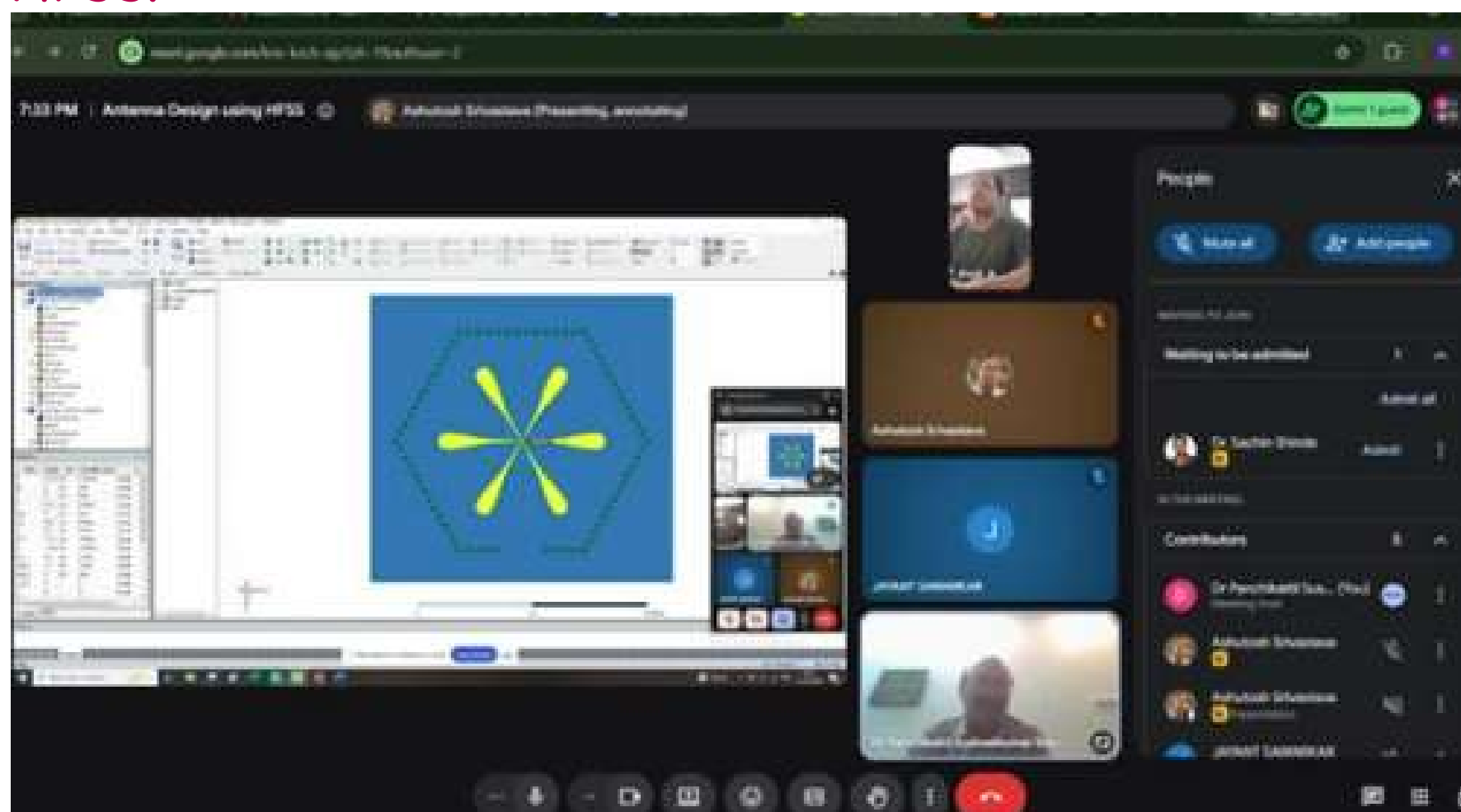
Duration Weekends of May-June 2026

Timing 2:00 PM - 4:00 PM (Saturdays & Sundays)

Resource Persons Prof. Ashutosh Srivastava, Dr. P. Susheelkumar

Participants CoE Drones & Robotics students, ECE students, faculty members, and participants from various engineering disciplines

With the rapid growth of wireless communication technologies, antenna design has become one of the most important areas in Electronics and Communication Engineering. Modern applications such as 5G/6G communication, satellite communication, UAVs, IoT devices, radar systems, biomedical instrumentation, and autonomous vehicles all rely on efficient antenna systems for reliable communication. ANSYS HFSS (High Frequency Structure Simulator) is a professional electromagnetic simulation software widely used in academia, research laboratories, and industries for designing and optimizing high-frequency components. The workshop was organized to provide participants with both theoretical understanding and extensive practical exposure to antenna modelling and simulation using HFSS.



ECE Department Events

Short Term Training Program "Rapid IoT Prototyping with Embedded Systems Using Simulation Tools" Conducted by COE- Embedded Systems. From 18th June, 2026, 2 pm to 4 pm to 22nd June, 2026, 2 pm to 4 pm

This Short-Term Training Program (STTP) is designed to provide hands-on exposure to IoT system design, embedded systems, and simulation-based prototyping. It enables participants to understand how real-world IoT solutions can be developed and tested using virtual tools without requiring extensive hardware setups.

The program focuses on bridging the gap between theoretical knowledge and practical implementation in modern IoT and embedded technologies.

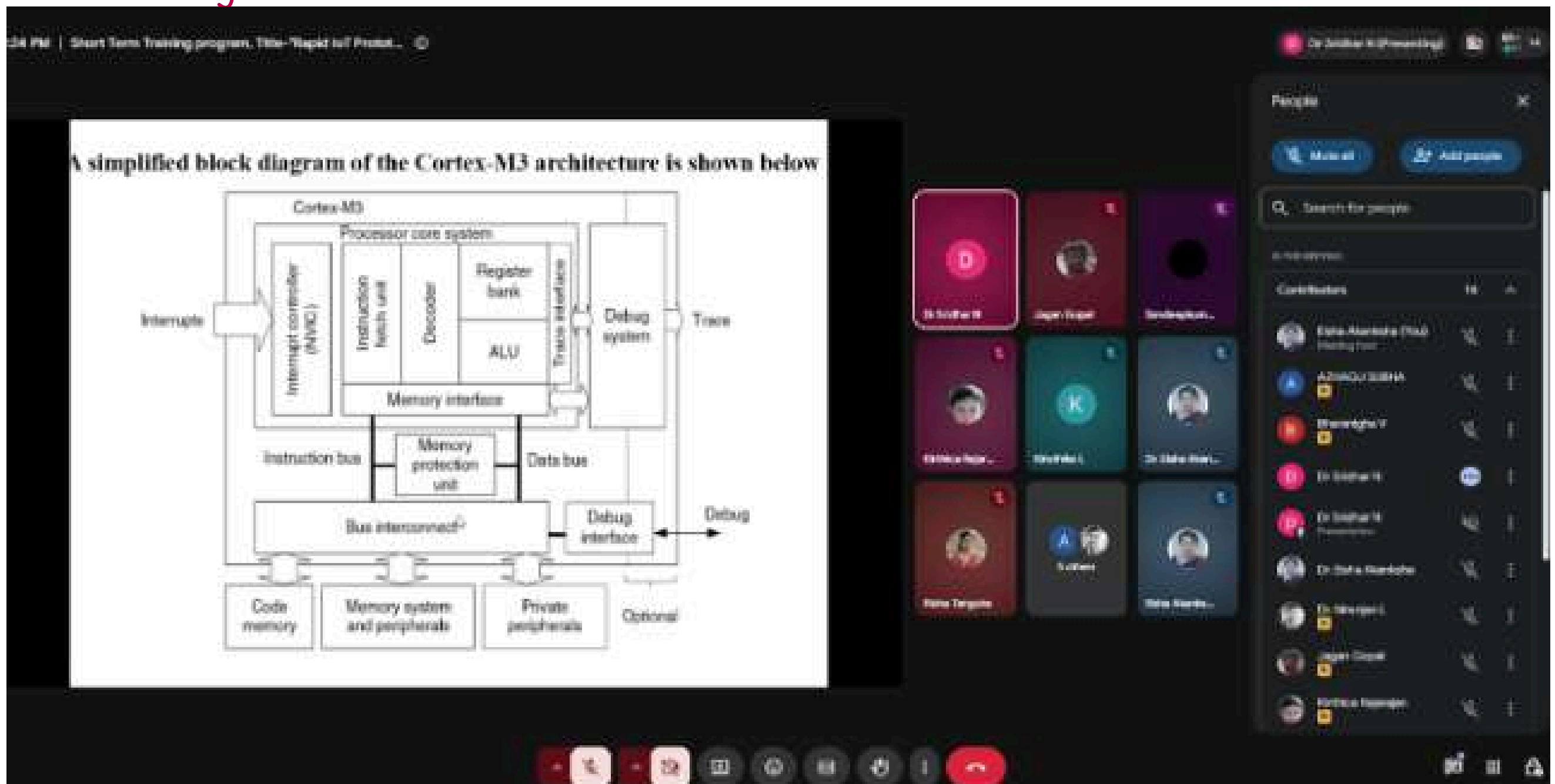
Objectives

- 1.To develop skills in rapid IoT prototyping using embedded systems and simulation platforms.
- 2.To encourage innovative solutions for real-world engineering and societal problems using IoT technologies.
- 3.To enable participants to design cost-effective, scalable, and deployable system prototypes.
- 4.To emphasize user-centric design with simple configuration, clear system feedback, and meaningful outputs using simulation tools.

Expected Outcomes

After completing this STTP, participants will be able to:

- Design and simulate IoT-based systems
 - Work with embedded system concepts and virtual platforms
 - Understand sensor-actuator integration
 - Develop prototype-level IoT applications
 - Apply simulation tools for real-world problem solving
- frequency components. The workshop was organized to provide participants with both theoretical understanding and extensive practical exposure to antenna modelling and simulation using HFSS.



ECE Department Events

Workshop- Mastering Research Paper Writing and Publications

Duration: 120 minutes

Mode: Offline

Venue / Platform: LH 301, Block C, CMR Institute of Technology, Bengaluru. 05.06.2026 1pm to 3pm

Dr. Abinash Panda is an Associate Professor in the Department of Electronics and Communication Engineering at CMR Institute of Technology (CMRIT), Bengaluru. He has extensive academic and research experience in optical fiber sensors, photonics, biomedical sensing, artificial intelligence applications, and embedded systems. His research focuses on developing advanced sensing technologies for healthcare, environmental monitoring, and smart engineering applications. Dr. Panda has published numerous research papers in reputed international journals and conferences, secured patents, and actively collaborates on interdisciplinary research projects. He has been recognized as 2% scientist by Stanford University USA for the year 2023 and 2024. He is also involved in organizing workshops, faculty development programs, and student-centric technical activities, contributing significantly to research, innovation, and academic excellence at CMRIT. He is also recognized as a Senior Member of IEEE and has been invited as a speaker at several technical summits and workshops.



ECE Department Events

Guest Lecture on “Cybersecurity Engineering: Building Secure Systems in an Insecure World”

Date & Venue: 18.03.2026 Venue: LH 303 Block C

CMR Institute of Technology, Bengaluru

Speaker: Mr. Ajith Vijayan, Service Delivery Leader, IT Security, VDTTrucks, Bengaluru. Time: 2:00PM – 3:00PM



- Emphasized the growing importance of cybersecurity in the digital era, where interconnected systems are increasingly vulnerable to sophisticated attacks.
- Introduced the concept of security-by-design, advocating for integrating security measures from the initial stages of system development rather than as an afterthought.
- Discussed common cyber threats such as phishing, ransomware, zero-day exploits, and advanced persistent threats (APTs), along with real-world case studies.
- Highlighted the role of secure coding practices, vulnerability assessment, and penetration testing in minimizing system risks.
- Explained the significance of cryptography, authentication mechanisms, and access control in safeguarding sensitive data.
- Addressed challenges in emerging domains like IoT, cloud computing, and AI systems, where security risks are rapidly evolving.
- Stressed the importance of risk management, threat modeling, and incident response planning for resilient system design.

ECE Department Events

Guest Lecture on “Building Real Applications: JSON, APIs, and Career Paths for ECE Students in the Tech Industry”

Date of the Event: 18-03-2026

Conduction: Offline _ Classroom-LH401

Target Audience: VI Semester ECE Students

Resource Person: K Dinesh Raj

Qualification: BE (Electrical and Electronics Engineering)

Designation: Entrepreneur, Backend Developer | Python | REST APIs | Databases, Bengaluru

Organization: Entrepreneur, Bengaluru

- The Department of Electronics and Communication Engineering, CMR Institute of Technology, Bengaluru, organized an Industry Connect Guest Lecture on “Building Real Applications: JSON, APIs, and Career Paths for ECE Students in the Tech Industry” for VI Semester ECE students. The session was conducted to provide students with practical insights about JSON, serves as a lightweight data exchange format widely used in modern systems.
- The lecture was delivered by K Dinesh Raj, Entrepreneur, Backend Developer, Bengaluru, who has strong expertise in Python, JSON etc. He shared his professional journey, highlighting how engineering fundamentals play a crucial role in building successful industry Projects.
- During the session, the resource person emphasized how to integrate sensors, web services, and cloud platforms through APIs and JSON, ECE students can develop practical applications such as smart monitoring systems, IoT-based solutions, and data-driven dashboards. This hands-on experience not only strengthens programming and system design skills but also prepares students for diverse career paths in software development, data engineering, embedded systems, and AI/ML, making them industry-ready in today's interconnected digital ecosystem the importance of core technical knowledge, problem-solving skills, communication, and adaptability in today's competitive industry environment



ECE Department Events

IETE GUEST LECTURE REPORT

TITLE: Artificial Intelligence and its Applications
EVENT DATE: 18.03.2026

The event was conducted with great enthusiasm on 18th March 2026, culminating in an inspiring inaugural ceremony. The resource person delivered an insightful session on Artificial Intelligence and its applications in the Electronics and Communication Engineering (ECE) domain.



ECE Department Events

Guest Lecture on “Electronic Circuit Controlling Devices and Actuators

Date of the Event: 29-04-2026, Conduction: Offline _ Classroom-LH304

Target Audience: IV Semester ECE Students, Resource Person: G. Sivraj

Qualification: Diploma In Electrical Engg , P.S.G. College of Technology, Coimbatore. Designation: Senior Consultant - Electronic Circuit Design

Organization: Consultant – Bangalore Hydro Engineers and Consultants Pvt. Ltd., 219, First “A” Main Road, 407 SFS, Yelahanka New Town, BANGALORE

The Department of Electronics and Communication Engineering, CMR Institute of Technology, Bengaluru, organized an Industry Connect Guest Lecture on “Electronic Circuit Controlling Devices and Actuators” for IV Semester ECE students on 29th April 2026. The session was conducted to provide students with practical knowledge of electronic control systems and their applications in modern automation and embedded technologies.

The lecture was delivered by Mr. G. Sivraj, who shared valuable insights into the working principles of controlling devices and actuators used in various industrial and domestic applications. He explained how electronic circuits play a major role in sensing, processing, and controlling different devices such as motors, relays, solenoids, LEDs, buzzers, valves, and robotic actuators.

OUTCOME OF THE EVENT

- ▣ Provides practical understanding of electronic controlling devices and actuators
- ▣ Introduces students to real-time applications of electronic control systems
- ▣ Enhances knowledge of interfacing circuits used for motors, relays, and sensors
- ▣ Bridges academic learning with industrial automation and embedded applications
- ▣ Motivates students toward careers in embedded systems, IoT, robotics, and industrial electronics.



ECE Department Events

Workshop on Protecting IPR and IP Management for Startups.

Date with Month & Year: 20/05/2026 – 20/05/2026

Duration (in hours): 2 Hrs

Expert/Speaker Details

Name: Prof. Praveenkumar T N, Registered Patent Agent

Designation: Associate Professor

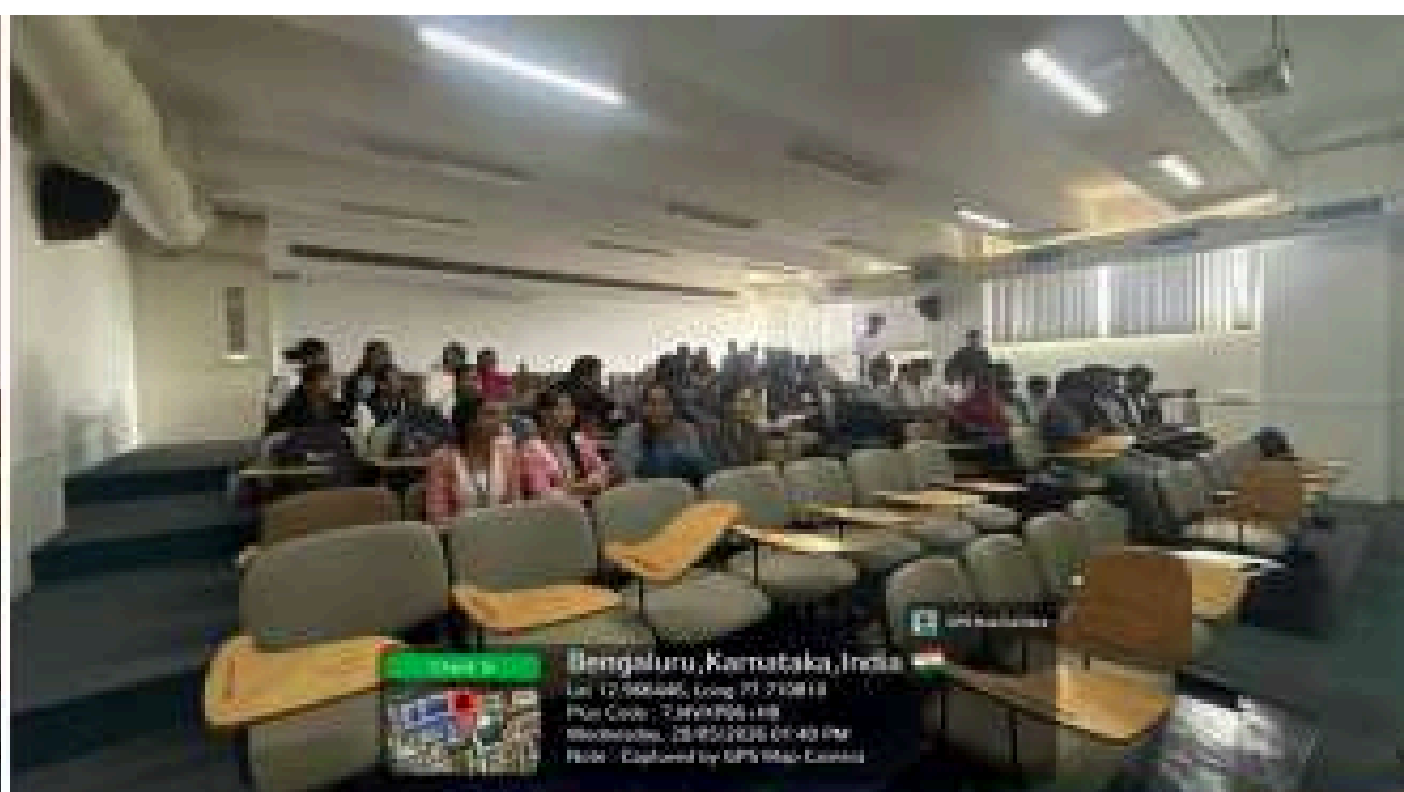
Organization/Institution: Mechanical Department, BMSIT&M, Bengaluru

Brief about Expert/Speaker:

Both the speakers have completed Innovation Ambassador's Upskilling training program and are involved in conducting workshops, STTP, FDP, expert talks and training programs outside and within the institute. Till date, each of them has conducted more than fifteen such activities in the area of Intellectual Property Rights, Innovation and Entrepreneurship.

Objective:

To provide awareness on Intellectual Property Rights (IPR), patent filing procedures, and innovation management strategies for startups. The workshop aimed to encourage students and faculty to protect innovative ideas, promote entrepreneurship, and understand the significance of IP commercialization in research and startup ecosystems.



NAAC A++
CMRIT
25
Innovation Council

CMR INSTITUTE OF TECHNOLOGY
BENGALURU

The institution's Innovation Council - CMRIT in collaboration with Department of ECE is organizing a workshop on:
Protecting IPR and IP management for startups

Resource Persons


Prof. Praveenkumar T N
Registered Patent Agent (Patent Agent No. 55/18/2006),
Chief coordinator: Intellectual Property Cell, BMSIT&M

20th May 2026
2:00 PM - 4:00 PM

Venue: AIT Hall, 4th Floor
100, APCO Layout, E. GP, Main Road,
Kudleshahalli, Bengaluru - 57

Dr. Manasakshi D. Fadi
R&D Coordinator
AIT Hall

Dr. Randeep Jais
Principal


www.cmrilac.in

ECE Department Events

**Guest Lecture on “Embedded Systems for Next-Generation Smart Applications” Date: 25.05.2026 Venue: LH 303, Block C
CMR Institute of Technology, Bengaluru**

Speaker: Mr. Asish Sahoo

IOT Developer, Cisco Systems (India) Pvt Ltd., Bangalore 560 087

Highlights of the Talk:

- Provided an introduction to embedded systems and their significance in modern smart technologies.
- Explained the architecture of embedded systems, including microcontrollers, processors, memory units, sensors, and actuators.
- Discussed the role of embedded systems in enabling intelligent and autonomous operation of electronic devices.
- Highlighted the integration of embedded systems with Internet of Things (IoT) platforms for smart monitoring and control applications.
- Demonstrated the use of popular development platforms such as Arduino, Raspberry Pi, ESP32, and ARM-based controllers.
- Explored real-time operating systems (RTOS) and their importance in time-critical embedded applications.
- Presented applications of embedded systems in smart homes, healthcare devices, industrial automation, automotive electronics, and consumer products.



ECE Department Events

Guest Lecture on “Role of ECE Engineer in Modern Software Development”

Date & Venue: 27.05.2026 Venue:

LH 303 Block C CMR Institute of Technology, Bengaluru

Speaker:

Mr. Karthik G

Embedded Engineer, IPEC India Pvt Ltd, Bengaluru

Highlights of the Talk:

- Provided an overview of the evolving role of Electronics and Communication Engineering (ECE) professionals in the software industry.
- Discussed how the convergence of hardware and software technologies has created new opportunities for ECE engineers in software development.
- Highlighted the strong analytical, problem-solving, and system-design skills that ECE graduates bring to software engineering roles.
- Explained the importance of programming languages such as C, C++, Python, Java, and JavaScript in modern software development.
- Demonstrated how ECE fundamentals, including digital electronics, microprocessors, computer networks, and communication systems, contribute to software design and implementation.
- Explored the role of ECE engineers in embedded software development, firmware programming, and real-time systems.





STUDENT LIFE & CAMPUS ENGAGEMENT



STUDENTS- MINI PROJECTS EXHIBITION

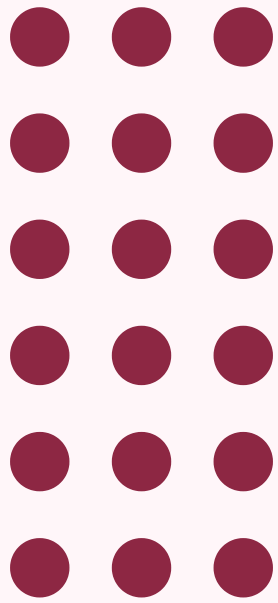
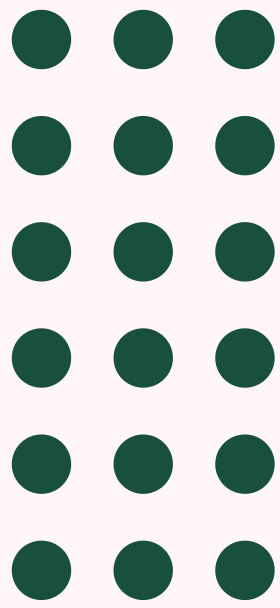
The best technical
exhibition to find the
camera you want.

Date : 16/04/26

Venue : L304,
Timing : 2PM to
4PM



Dept of Electronics and
Communication Engg



Students professional society/club activities

Faculty Coordinators(ETA & TAQ Clubs):
Prof Krishna Teja and Prof Madhu G C



CELEBRATE CMRIT CMR INSTITUTE OF TECHNOLOGY, BENGALURU. ACCREDITED WITH A++ GRADE BY NAAC

ETH ELECTRONICS AND TECHNOLOGY ASSOCIATION

INNOVATION COUNCIL (Ministry of HRD Initiative)

Verilog IGNITE

From Basics to Breakthrough

What You'll Gain

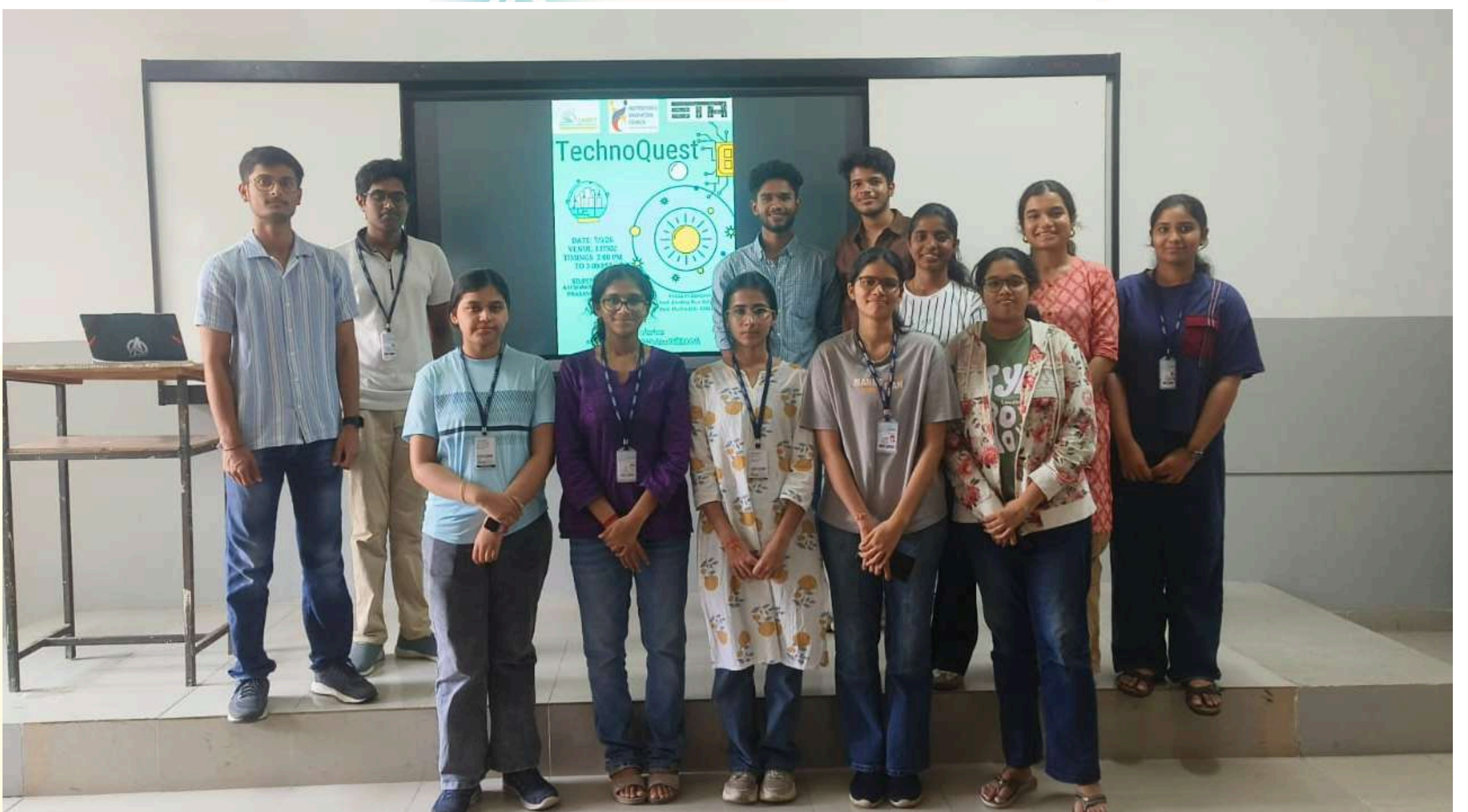
- Introduction to Verilog HDL fundamentals
- Understanding of digital logic design concepts
- Hands-on coding & simulation experience
- Learn combinational & sequential circuits

REGISTER NOW

Venue: L304

Time: 3 - 4

Day: Wednesday, 8 April 2026



TechnoQuest



DATE: 7/5/26
VENUE: LH302
TIMINGS: 2:00 PM
TO 3:00 PM

STUDENT CORDINATORS
A H SHAKTHI RAM- 9901074754
PRASANNA PA- 8277105030

FACULTY CORDINATORS
Prof. Krishna Teja-9606125513
Prof. Madhu G C- 8341165376

Registration:
<https://forms.gle/HHSdVaaZRffTDGGXA>



The

GRADUATION

Farewell

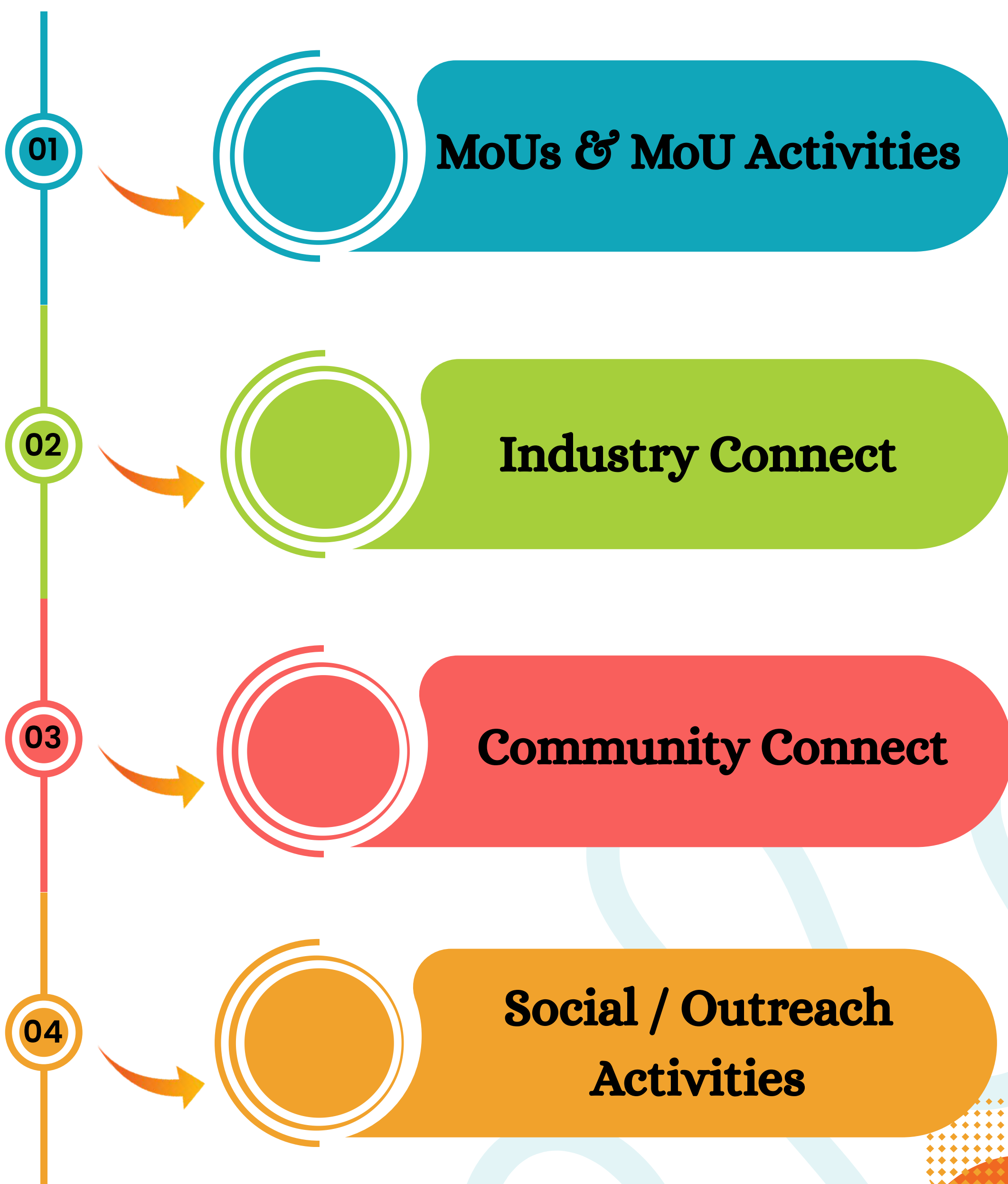
2022-2026 BATCH





INDUSTRY & COMMUNITY CONNECT

Dr. PAPPAM





UBA Project

COMMUNITY EVENT

**Year-Round Farming for Sustainable
Livelihoods and Rural Agripreneurship**



**COORDINATOR:
DR. SHARMILA K P**

Date	Time	Location
13 August 2026	09:00 AM – 03:00 PM	Government School at Doddaganjur Village

Under the UBA-sanctioned project “Year-Round Farming for Sustainable Livelihoods and Rural Agripreneurship,” a visit was conducted by Prof. Sharmila mam team to the Government School at Doddaganjur Village on 13 August 2026. The visit focused on promoting awareness and opportunities related to sustainable farming and rural agripreneurship.



UBA Project

COMMUNITY EVENT

**Year-Round Farming for Sustainable
Livelihoods and Rural Agripreneurship**



**COORDINATOR:
DR.K VENKATESWARAN**

Date	Time	Location
12 August 2026	09:00 AM – 03:00 PM	Channsandra Village

As part of the Unnat Bharat Abhiyan (UBA) initiative, our team has undertaken the project “Development and Installation of Effective Insect Trapping System in Crop Fields” in Channsandra Village. As part of the initial field assessment, we visited Channsandra Village on 12 August 2026 and met with the Village Sarpanch to explain the objectives and proposed activities of the project

CMRIT SOCIETY OF WOMEN ENGINEERS(SWE)

FACULTY COORDINATOR:

DR. ANJU DAS

✦ The Society of Women Engineers (SWE) plays a crucial role in empowering women to succeed and advance in engineering careers by providing a platform for networking, professional development, mentorship, advocacy, and outreach programs, CMRIT is Global affiliate of SWE ✦

✦ Every woman's success should be an inspiration to another. We're strongest when we cheer each other on ✦

To help students understand industry expectations, develop a strong personal brand through Unique Selling Proposition (USP), and effectively leverage Artificial Intelligence tools for internship and career success.



The Society of Women Engineers India, in collaboration with the SWE Student Chapter at CMR Institute of Technology and the Institution's Innovation Council (IIC), organized an invited talk titled “Internship as a Launchpad: Build Your USP, Boost with AI, Breakthrough to Success” on 13 May 2026. The event commenced with introductory remarks by Mr. Paul Robichaud and Ms. Charulatha Varadarajan, who highlighted the vision and initiatives of SWE India and emphasized the importance of industry-oriented learning platforms for students. The session was delivered by Ms. Ramya Mohan, Senior Software Engineering Manager at Honeywell Aerospace. The session focused on industry expectations from interns, the importance of communication and problem-solving skills, and strategies for building a strong Unique Selling Proposition (USP). Students also participated in interactive activities using AI tools such as Perplexity AI and Microsoft Copilot for ideation, research, and productivity enhancement. The event provided practical insights into internships, personal branding, networking, and AI-driven career growth. The session was highly interactive and helped students understand how to prepare themselves for future professional opportunities.



STUDENT EXCELLENCE & SUCCESS STORIES

01

**Centum Achievers
, Technical Competition
Winners**

02

**Student MOOCs
Student Publications**

03

Student Startups

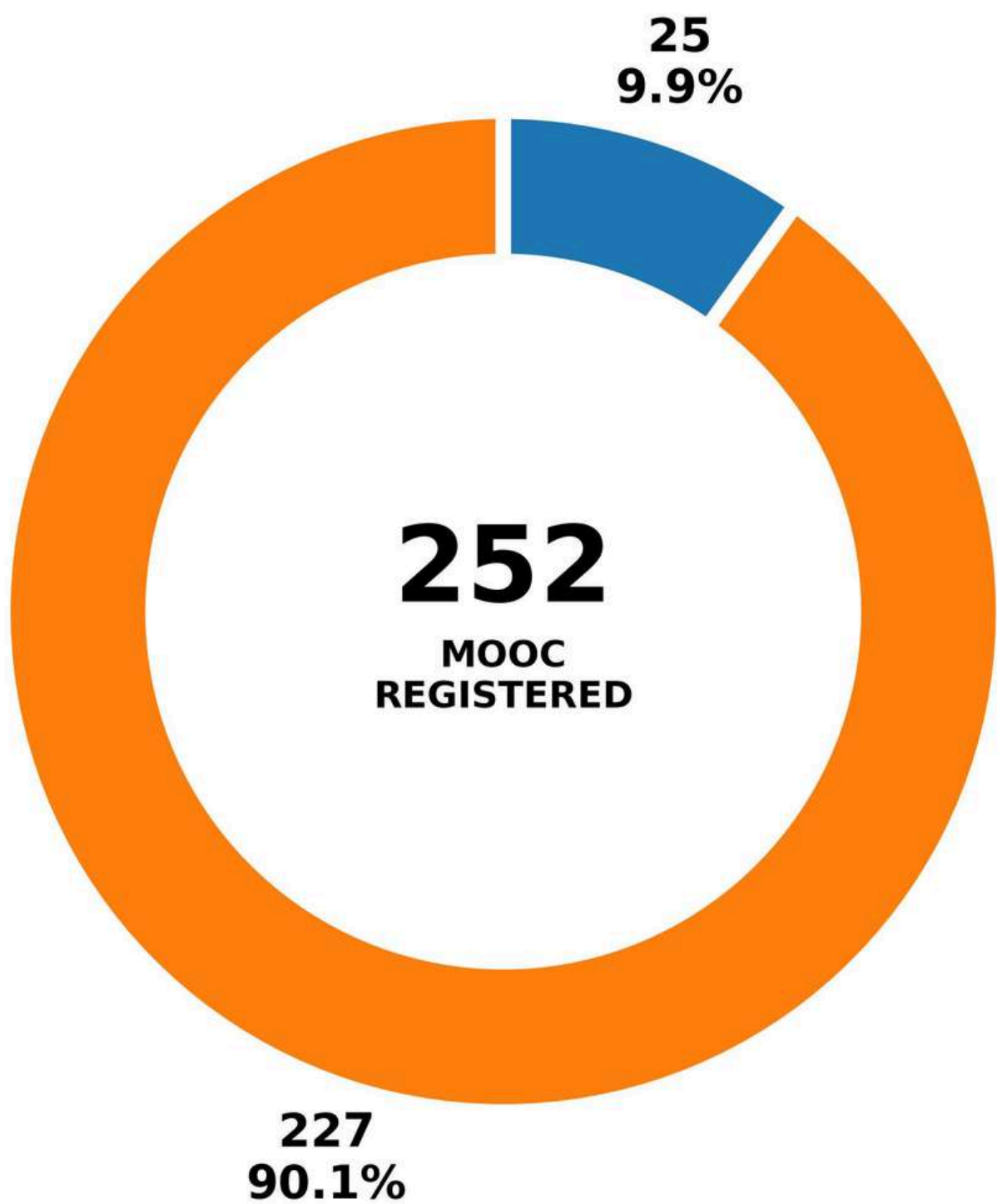
04

**Sports & Cultural
Achievements**

Students MOOC Details

MOOC STUDENT PARTICIPATION & COMPLETION

ECE Department | Academic Year 2025-26



TOTAL STUDENTS

259

Overall student strength

MOOC REGISTERED

252

97.3% of total students

NPTEL CERTIFIED

25

9.9% of MOOC registrations

OTHER PLATFORMS

227

90.1% of MOOC registrations

COMPLETION BREAKDOWN

25 students completed NPTEL certification • 227 students completed through Udemey / Spring Board / SWAYAM

Students Publication Details



RESEARCH PUBLICATIONS

STUDENT ACHIEVEMENTS

RESEARCH
TODAY
A BRIGHTER
TOMORROW

25

Student
Paper Publications

IDEAS | INNOVATION | IMPACT



22

Scopus Indexed
Publications

88% of the publications are
Scopus Indexed



EMPOWERING STUDENTS | ADVANCING KNOWLEDGE | BUILDING A BETTER TOMORROW

HIGHER STUDIES CLUB

OUTREACH SESSION FOR AIML STUDENTS

9TH MARCH 2026



Time: 10:20 AM- 11:20 AM

Venue: AIML Classroom

Target group:-3rd year B.E students

Chief Coordinator:-Dr.Sharmila K.P

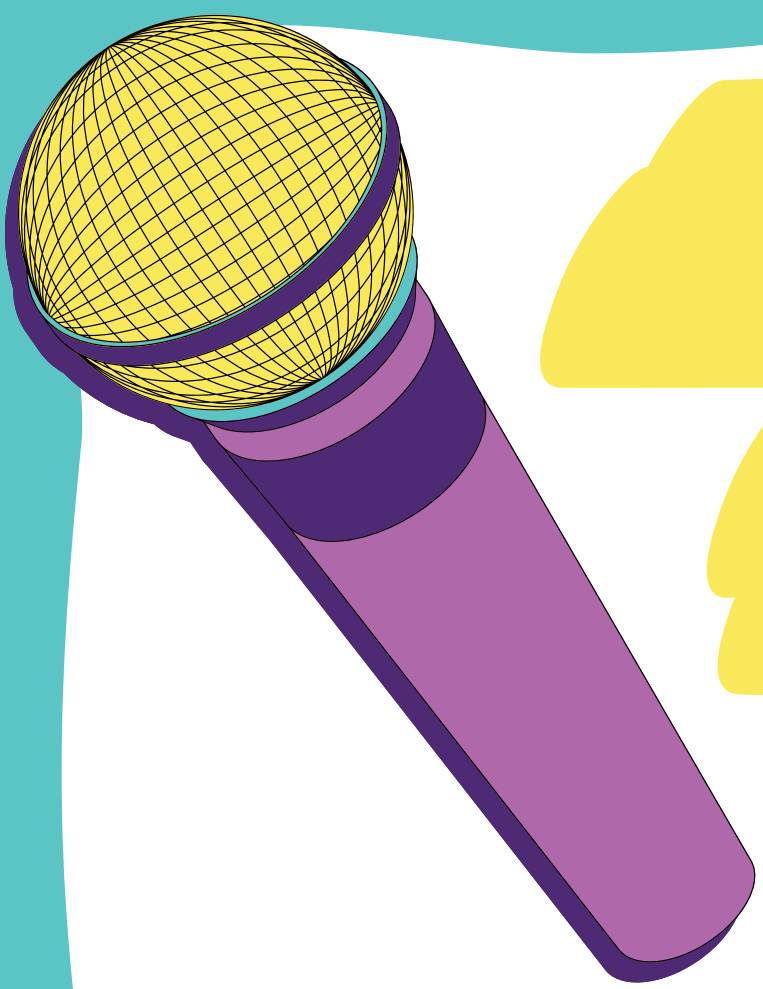


EVENT DESCRIPTION

On the 9th of March 2026, the EE&C Cell – The Higher Studies Club (HSC) of CMR Institute of Technology, Bengaluru, conducted an awareness session for students of the AIML department from 10:20AM to 11:20AM. The session was delivered by Dr.SharmilaK.P., Faculty Coordinator of the EE&C Cell, with the aim of introducing students to the Higher Studies Club (HSC) and creating awareness about opportunities related to higher education. During the session,

Dr. Sharmila visited different AIML classrooms and interacted with students, explaining the vision and objectives of the Higher Studies Club. She spoke about the various events,workshops, and guidance sessions conducted by the club that help students gain exposure to higher studies opportunities, academic growth, and career development.

The session also included a brief discussion on competitive examinations such as GATE and other entrance exams, where students were informed about their importance for pursuing postgraduate studies and research opportunities in reputed institutions. Dr. Sharmila encouraged students to start exploring these options early and actively participate in the initiatives organized by the club.



STUDY BRIDGE



Speaker

Ms. Tania Veronica Sebastian
Regional Head- Jayanagar, Santa Monica Study
Abroad Pvt. Ltd., Bengaluru

EE & C Cell
Presents

COUNSELLING

1: Higher Education in top universities in Germany and USA.
2: Aligning academics with global goals.

CMRIT
THE EEGC CELL PRESENTS
STUDY BRIDGE

- Guidance on higher studies in Germany, covering top universities, scholarships, and post-study opportunities.
- Insights on career readiness and aligning academics with global goals.
- Support for studying abroad in the USA, UK including university selection, visas, and scholarships.
- Free counselling for planning your global education journey.

Date: 24th March
Time: 10.20 - 11.20 AM
Venue: D Block, AV hall, 4th Floor

Student Coordinators:
Barath : 8778036377
Chaarvi : 7337846581

Faculty Coordinator :
Dr. Sharmila K P

Event date: - 24th March 2026
Time: 10:20 AM - 11:20 AM
Venue: D-block, 4th floor, AV hall
Target group: - 3rd year, 2nd year, 1st year B.E students
Registrations: 85

EVENT DESCRIPTION

On the 24th of March 2026, the EE&C Cell – Higher Studies Club (HSC) of CMR Institute of Technology, Bengaluru, successfully organized an informative and engaging session titled “STUDY BRIDGE – Study Abroad Roadmap.” The session was conducted at the AV Hall, D Block, 4th Floor, between 10:20 AM and 11:20 AM, and witnessed active participation from students across various departments who were eager to explore international higher education opportunities. The session was facilitated by Ms. Tania Veronica Sebastian, Regional Head at Santa Monica Study Abroad Pvt. Ltd., Bengaluru, who brought extensive expertise in global education consulting and provided a structured and comprehensive roadmap for students aspiring to pursue higher studies abroad.



BEYOND BORDERS

Event date: -15th April 2026

Topic: Beyond Borders: A Transparent Guide to International Admissions

Time: 10:20 AM -11:20 AM

Venue: D-block, 4th floor, AV hall

Target group: - 3rd year, 2nd year, 1st year B.E students

Registrations: 76

Speakers: Mr. Ajay Nair

Manager - Student Mobility KVTSDC

Chief Coordinator: - Dr. Sharmila K.P

The session “Beyond Borders: A Transparent Guide to International Admissions” was conducted on 15th April 2026 from 10:20 AM to 11:20 AM at the AV Hall, 4th Floor, D-Block. Organized for 1st, 2nd, and 3rd year B.E students, the event saw the participation of 76 registered students. The session was led by Mr. Ajay Nair, Manager – Student Mobility at KVTSDC, under the coordination of Dr. Sharmila K.P. The objective of the session was to provide students with a clear and realistic understanding of opportunities in international education and the processes involved in pursuing studies abroad. Mr. Ajay Nair introduced students to the role of KVTSDC



HIGHER STUDIES CLUB OUTREACH SESSION FOR 1ST YEAR STUDENTS

Event date:-24th April 2026

Time :9AM-10 AM

Venue :1st Year Classroom

Target group:-1st year B.E students

Chief Coordinator:- Dr.SharmilaK.P

On the 24th of April 2026, the EE&C Cell – The Higher Studies Club (HSC) of CMR Institute of Technology, Bengaluru, conducted an awareness session for 1st year B.E students from 9:00 AM to 10:00 AM. The session was delivered by Dr. Sharmila K. P., Chief Coordinator of the EE&C Cell, with the aim of introducing students to the Higher Studies Club (HSC) and creating awareness about opportunities related to higher education.

During the session, Dr. Sharmila visited the 1st year classroom and interacted with students, explaining the vision and objectives of the Higher Studies Club. She spoke about the various events, workshops, and guidance sessions conducted by the club that help students gain exposure to higher studies opportunities, academic growth, and career development.

The session also included a brief discussion on competitive examinations such as GATE and other entrance exams. Students were informed about their importance for pursuing postgraduate studies and research opportunities in reputed institutions. Dr. Sharmila encouraged students to begin exploring these options early and actively participate in the initiatives organized by the club. Students were also informed about the benefits of being part of the Higher Studies Club, including access to informative sessions, expert talks, and valuable resources that support them in planning their academic journey after graduation.

Overall, the session was informative and motivating, helping students gain a better understanding of higher studies opportunities and encouraging them to actively engage with the Higher Studies Club and its upcoming activities.



Students Placement Details

Faculty Coordinators: Dr. Sridhar N, Prof. Sophiya,
Prof. Rajesh K M and Prof. Ananth Kumar M S

USN	Name of the Student	Department	Offer-1	Salary Offered (LPA)
1CR23EC401	AKARSH PUJARI	ECE	Shindengen India Pvt Ltd	3.70 LPA
1CR22EC026	AVINASH	ECE	Shindengen India Pvt Ltd	3.70 LPA
1CR22EC051	CHIRANJEEVI S	ECE	Shindengen India Pvt Ltd	3.70 LPA
1CR22EC079	GURUPRASAD S	ECE	Shindengen India Pvt Ltd	3.70 LPA
1CR22EC084	HARISH KUMAR C K	ECE	Shindengen India Pvt Ltd	3.70 LPA
1CR22EC135	LIKITH S	ECE	Shindengen India Pvt Ltd	3.70 LPA
1CR22EC138	MANOJ HS	ECE	Shindengen India Pvt Ltd	3.70 LPA
1CR22EC161	PADMINI S	ECE	Shindengen India Pvt Ltd	3.70 LPA
1CR22EC237	VIBHA S PATIL	ECE	Shindengen India Pvt Ltd	3.70 LPA
1CR22EC249	YASHASWINI S	ECE	Shindengen India Pvt Ltd	3.70 LPA
1CR22EC177	RAHUL	ECE	A3i Systems	3 LPA
1CR22EC044	CHANDANA S	ECE	Bosch	4.5 LPA
1CR22EC076	GEETIKA SHANKAR	ECE	Enphase Energy	5.2 LPA
1CR22EC034	BHAVANA M	ECE	Shindengen India Pvt Ltd	3.27 LPA
1CR22EC190	ROHAN GOWDA B	ECE	Shindengen India Pvt Ltd	3.5 LPA
1CR22EC202	SHEKHAR ANNAPPA PATIL	ECE	Shindengen India Pvt Ltd	3.5 LPA
1CR22EC150	Navya Shree HS	ECE	Siemens Technology	5 LPA
1CR22EC080	H Maithira	ECE	Siemens Technology	5 LPA
1CR22IS177	VADDI KALYAN	ECE	Federal Bank	4.6 LPA
1CR22EC237	VIBHA S PATIL	ECE	Federal Bank	4.6 LPA
1CR22EC146	MONIKA D	ECE	Federal Bank	4.6 LPA
1CR22EC125	Kiruthika VS	ECE	Siemens Technology	5 LPA
1CR22EC018	ANJANEYA GUGGARI	ECE	Shindengen India Pvt Ltd	3.8 LPA
1CR22EC025	ASHWIN J	ECE	Shindengen India Pvt Ltd	3.7 LPA
1CR22EC056	DARSHAN S	ECE	Shindengen India Pvt Ltd	3.8 LPA
1CR22EC028	AYUSH V KAVISHETTI	ECE	Shindengen India Pvt Ltd	3.7 LPA
1CR22EC089	HEMA PIMPALE	ECE	Shindengen India Pvt Ltd	3.7 LPA
1CR22EC093	HRUTHIK KUMAR P	ECE	Shindengen India Pvt Ltd	3.7 LPA

Students Placement Details

Faculty Coordinators: Dr. Sridhar N, Prof. Sophiya,
Prof. Rajesh K M and Prof. Ananth Kumar M S

USN	Name of the Student	Department	Offer-1	Salary Offered (LPA)
1CR22EC099	JEEVAN S	ECE	Shindengen India Pvt Ltd	3.8 LPA
1CR22EC097	JAYANTH S	ECE	Shindengen India Pvt Ltd	3.8 LPA
1CR22EC131	LAVANYA S	ECE	Shindengen India Pvt Ltd	3.8 LPA
1CR22EC192	ROHIT SHEBINAKATTI	ECE	Shindengen India Pvt Ltd	3.8 LPA
1CR22EC220	SUPRITHA K G	ECE	Shindengen India Pvt Ltd	3.7 LPA
1CR22EC222	SWAMI T	ECE	Shindengen India Pvt Ltd	3.7 LPA
1CR22EC241	VINAYAK PATIL	ECE	Shindengen India Pvt Ltd	3.7 LPA
1CR23EC025	ARNIYA S	ECE	ODDR	9 LPA
1CR22EC217	SUJAN KUNDAR	ECE	Panacea Medical Technology	3.80 LPA
1CR22EC018	ANJANEYA GUGGARI	ECE	TCS	9.09 LPA
1CR22EC202	SHEKHAR ANNAPPA PATIL	ECE	SEG Automotive India Pvt Ltd	4 LPA
1CR23EC037	BHUVAN M NAYAKARU	ECE	Flexio	10K Stipend, 7.5 LPA
1CR23EC207	SOHAN P	ECE	Flexio	10K Stipend, 7.5 LPA

Students Awards and Achievements



CharanSreevasu J - 1CR23EC045
,CherukumudiSreeSatwik -
1CR23EC046 And Namrata B Kanavi
- 1CR24EC127.

CONGRATULATIONS TO ALL THE WINNERS OF
VTU STATE-LEVEL TAEKWONDO M&W
CHAMPIONSHIP HELD AT
SIT TUMKUR , AND SECURED A BRONZE MEDAL
IN UNDER 58KG, 87KG & 57KG - (April-2026)

Students Awards and Achievements



**SRIYA SANJANA -1CR22EC159 , SAI
TEJASWI P - 1CR23EC190 ,
TANISHKA GIRI – 1CR24EC219
&PRIYA CHOUDHRY- 1CR24EC158.**

Congratulations to "WOMENS FOOTBALL TEAM" of
CMRIT for participating in VTU state level
Tournament held @NIE College of Engineering Mysore
on 11th & 12th April 2026 and securing SECOND
RUNNER-UP.(April-2026)

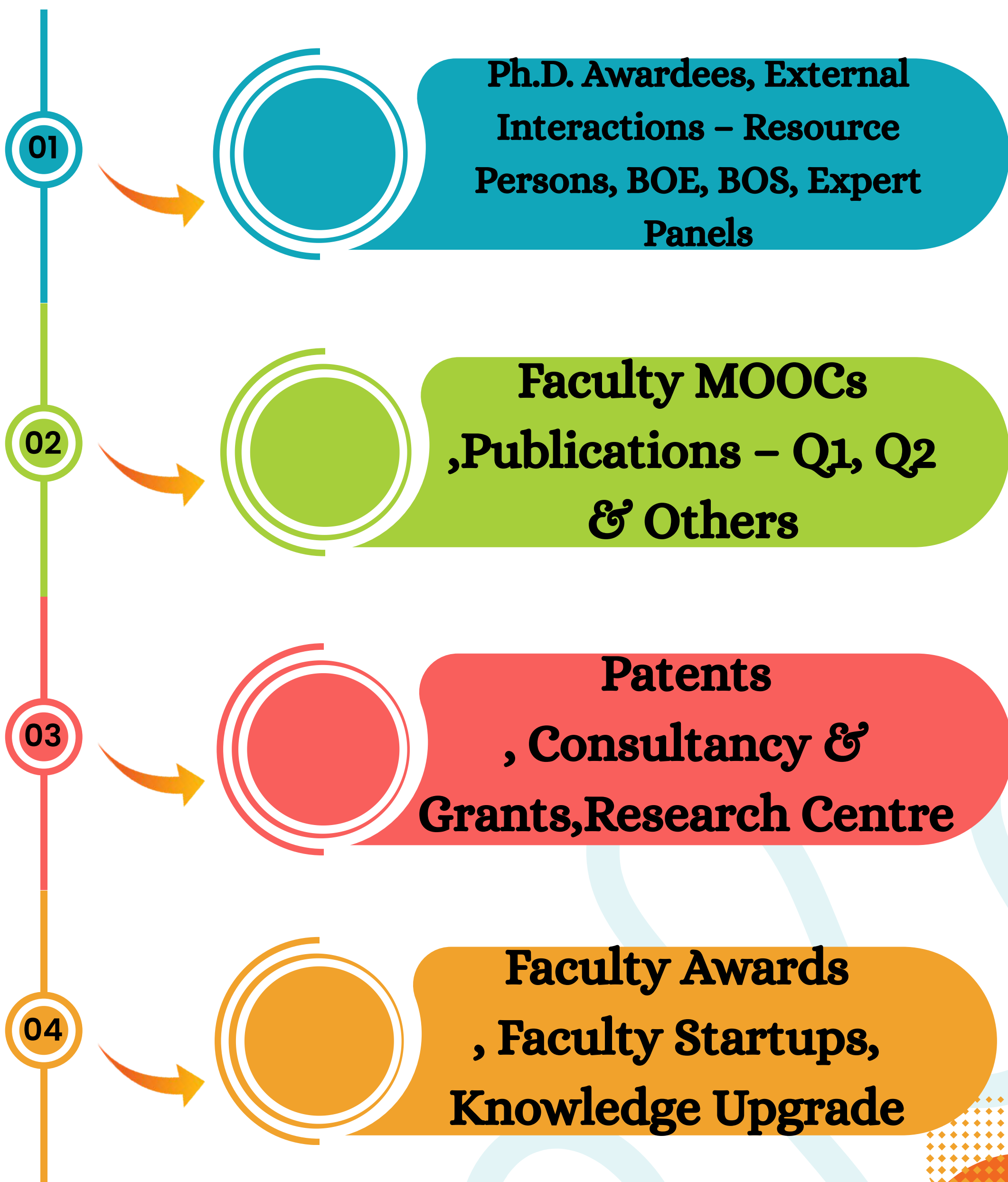
Students Awards and Achievements



**Shamanth R – 1CR23EC199 , Aditya
– 1CR24EC011 and MB CHINMAYA –
1CR25EC113.**

Congratulations to "MENS CRICKET TEAM" of CMRIT
for participating in VTU Bangalore Central Division
CricketTournament held @ East Point College of
Engineering from 11th
to 17th April 2026 and securing FIRST place , and fo
ralso getting qualified for the VTU State Cricket
tournament-(April-2026)

FACULTY, RESEARCH & INNOVATION



Journal/Conference papers Accepted/published

1 DR.SUSMITHA ALAMURU	Vigilant Eye:AI Infused Video surveillance for Continuous Crime Monitoring and Safety, 2025 Second International Conference for Women in Computing 2025.
2 PROF. KAVITHA N PILLAI	Simulation–Based Design of a Multimodal Vision–Guided Smart Wheelchair for Secure and Energy–Efficient Mobility. IEEE International Conference on Smart Futuristic Technology (ICSFT) 2026
3 DR.RICHA TENGSHI	Simulation and Embedded Implementation of GPS Spoofing Detection and Defense for UAV Cyber–Physical Systems. 2026 3rd International Conference on Emerging Trends in Engineering and Medical Sciences .
4 DR. SUTAPA SARKAR	Dravyon – Low–Cost Multi–Sensor Herbal Quality Monitoring System, ICAUC 2026.
5 PROF. MONIKA SINGH	LORA–POWERED SMART AGRO SPHERE, ICANCS –2025
6 PROF. KASHIF AHMED	An AI–Powered Intelligent Framework for Household Energy Optimization and Carbon Reduction. IEEE International Conference on Interdisciplinary Approaches (IATMSI–2026)
7 PROF. ABHISHEK JAVALI	Near–Field Correlation Analysis of MIMO Antennas at mmWave Frequencies Using FEKO. IEEE 4th International Conference on Power Electronics & IoT Application in Renewable Energy (PARC 2026)
8 DR. ABINASH PANDA	Tetrad–channel photonic crystal fiber–based SPR biosensor for simultaneous detection of multiple cancer cells. Microsystems Technologies
9 DR MEENAKSHI R PATIL, DR NAVEENKUMAR G N	MBDNet: A Hybrid Deep Learning Model for MRI–Based Neurological Disease Classification Using CNN, BiLSTM, and Vision Transformers. Inter. Journal of Computing and Digital Systems
10 DR MEENAKSHI R PATIL, DR PAPPA M	Smart Agriculture Using IOT AND AI With Machine Learning for Crop Yield Prediction. ICoECIT–2026
11 PROF. MANJUNATH V GUDUR	End–to–End Latency Prediction in 5G URLLC: Accuracy, Models, and Open Challenges”
12 PROF. SANITHA MICHAEL C	Optimal Islanding of Power Distribution Systems Using Prim’s Algorithm. ICAISS–2026.
13 PROF. SANITHA MICHAEL C	Stock Trend Prediction Using Explainable AI. ICAISS–2026

Journal/Conference papers Accepted/published

14 PROF. ABHISHEK JAVALI	Circuit Theoretic Modelling and Simulation Study of Near Field MIMO Arrays of Dipole Antennas. Journal– "Active and Passive Electronic Components"
15 PROF. KEKA MUKHOPADHYAYA	Human Presence Detection Using Logistic Regression on Wi-Fi RSSI Measurements. 1st International Electronics, Packaging, Design & Manufacturing Conference (EPDMC-2026)
16 DR. RANGEET MITRA	Convergence analysis of hyperparameter-free MCC-based channel estimation for mmWave MIMO systems. Frontiers in Signal Processing
17 DR. RANGEET MITRA	Hyperparameter-Free Maximum Versoria Criterion Based Channel-State Acquisition for mmWave Hybrid MIMO With Hardware Impairments. IET Communications.
18 DR. NAVEEN KUMAR G N	“Investigation of 1D Silicon Photonic Structure for Detection of Biomolecular Concentration”. Applied Research Journal (Wiely Publisher).
19 PROF. RANJITHA R , PROF. CHITHRA M	A clustering Algorithm to reduce cost function in wsn using SRF approach. 4th International Conference on MACHine inTElligence for Research & Innovations (MAiTRI2026)
20 PROF. CHITHRA M	A Hybrid Grey Wolf – Differential Evolution Algorithm for MPPT of PV Systems Using ZETA Converter. 5th IEEE International Conference of Power, Control and Computing Technologies ICPC2T 2026.
21 DR. ABINASH PANDA	Nanophotonic perfect absorber with ultra-broadband terahertz-to-infrared response via hybrid-material design for advanced optical sensing. PLOS One.
22 PROF. KRISHNA TEJA YADAV CH T	LHCAF Based Post Distortion for RIS aided Visible Light Communication system. International Journal of Information and Technology.
23 DR. RUMA DEBNATH	Title of the Book Chapter : Application of Remote Sensing and Artificial Intelligence for Environmental Monitoring. Publishers: CRC Press Taylor & Francis.
24 DR. RUMA DEBNATH	Title of the Book Chapter : Investigating the Role of Emerging Technologies in Shaping Sustainable Cities. Publishers: Nova, Science and Technology.
25 DR. RANGEET MITRA	Log-hyperbolic cosine based sparse channel estimation for hybrid MIMO millimeter wave communication under impulsive noise. Computers and Electrical, Engineering (Elsevier).
26 DR. VIJI K	Implement Blockchain in Autonomous Vehicle Networks: Ensuring Route Optimization & Vehicle-to-Vehicle Communication Through Smart Contracts. 2025 IEEE International Conference on Blockchain and Distributed Systems Security (ICBDS)

Journal/Conference papers Accepted/published

27 DR. ABINASH PANDA	Investigation of Parity–Time Photonic Crystal Sensor Based on Topological Edge–Defect Mode Hybridization for Oral Cancer Identification, International Journal of Modern Physics B
28 DR. RANGEET MITRA	Hyperparameter Free RKHS–Based Non–Linear Parameter Estimation for Radar Sensors, IEEE Access
29 DR. PARTHASARATHY P	Transfer matrix modelling of GdF3/MoS2 Enhanced SPR Sensor for Label–free Urine Glucose Detection: A Simulation–Based Study, Journal of Computational Electronics
30 DR. PARTHASARATHY P	Sensitivity–Enhanced Ag–Perovskite–HfSe2 Multilayer SPR Sensor for High–Performance Refractive Index Sensing Applications, Modern Physics Letters B
31 PROF. SANITHA MICHAEL C	Analysis of Power Flow in an Islanded Microgrid with Various Types of Loads, Electric Power Systems Research
32 DR. ABINASH PANDA	Precision Sensing at Selected Spectrum: A Double–Negative LowCost Metamaterial Sensor with Enhanced Directionality for Biomedical Applications, IEEE Sensors Journal
33 DR. ANJU DAS	Nutura One : A Multimodal IoT–AI sensor Fusion Framework for Proactive SIDS Risk Assessment and Infant well–Being Monitoring, IEEE conference– 3rd International Conference (ICETEMS)
34 DR. ABINASH PANDA	Terahertz multiband metamaterial biosensor for ultrasensitive detection of PC–12 adrenal gland carcinoma cells through microenvironmental analysis. Sensors and Actuators A: Physical
35 DR. ABINASH PANDA	Study of external and internal metal coating configurations in photonic crystal fiber plasmonic sensor for multi–cancer cells detection. The European Physical Journal Plus.
36 DR. SRIDHAR N	Virtual Path–Net: A Graph–Based Deep Learning Model for Multi–Organ Cancer Classification in Pathology Images. SN Computer Science, Springer Nature Journal.
37 DR.PAPPA M	MACHINE LEARNING–ENHANCED EKF FOR VEHICLE LOCALIZATION. International Conference on Advanced Computing Systems and Intelligent Communication Engineering (ICACSICE 2026)
38 DR. NAVEEN KUMAR G N	Detection of Water Content in Biological Tissues Using He–Ne Laser and 1D Photonic Waveguide. IEEE Computer Society Annual Symposium on VLSI ITC Sonar, Kolkata, India
39 DR. GEETANJALI	Graph Neural Network Approaches for Fault Prediction in Solar Bi–Hybrid Electric Vehicles: A Systematic Review. ICEMCSI 2026.

Journal/Conference papers Accepted/published

40 DR.PARTHASARATHY, DR.KAVITHA.D,	Ultra-Low-Power Hybrid FinFET-MIM NVS RAM for Portable Systems. International Conference on Emerging Technologies in Engineering Applications.
41 DR. SUSHMA T V	Performance evaluation of neutrosophic similarity score driven segmentation of fetal ventricular chambers using b mode ultrasound images. Results in Engineering.
42 PROF.SOPHIYA SUSAN S	Arduino-based alcohol detection using GPS & GSM. 2026 CCIC
43 DR. NAVEEN KUMAR G N	“High-Density Star LAN with VLAN Segmentation, DHCP, Congestion Control and Network Analysis Using Cisco Packet Tracer”. CE2CT,2026
44 DR. PARTHASARATHY P DR. VENKATESH M	Plasmon-Coupled Au – Ag Alloy/Silicon Nanowire SERS Platform for Multiplexed Detection of CA-125 and MUC1 Biomarkers. IEEE Sensors Journal
45 DR. PARTHASARATHY P DR. VENKATESH M	Dielectric-Modulated Biomolecule Detection Using TiO ₂ /AlN-Stacked Graphene Nanoribbon BioFET with Improved Electrical Characteristics. IEEE Transactions on Dielectrics
46 DR. PARTHASARATHY P	Surface Plasmon Resonance Analysis of Cancer-Related Refractive Index Variations Using a MoTe ₂ – Black Phosphorus – Cu Multilayer Structure. Surface and Interface Analysis
47 DR. ANJU DAS	Deep Reinforcement Learning for EnergyOptimization in IoT-Based Smart Grids. International Conference on Advanced Technologies and Innovations (ICATI 2026)
48 PROF.PAVITHRA P	Integrated Sensing and Communication (ISAC) for Real-Time Data Acquisition in 6G Smart Hospital Networks. IEEE International Conference on Intelligent Technologies(CONIT 2026)
49 PROF.ABHISHEK JAVALI	Design of Decoupling and Matching Network in Near-Field Wireless MIMO using Dipole Antennas for Millimeter-wave Applications.
50 DR. NAVEEN KUMAR G N	High-Density Star LAN with VLAN Segmentation, DHCP, Congestion Control and Network Analysis Using Cisco Packet Tracer. Conference “CE2CT-2026”
51 DR. DEEPTHI MARIAM JOHN	Deep Learning Model for Human Age and Gender Prediction from Facial Images for Audience Profiling. International Conference on Next Generation Communication & Information Processing (INCIP 2026)
52 DR.ABINASH PANDA	Manipulating THz signal with optical waveguide for identification of breast tumour cells. Journal of Russian Laser Research.

Journal/Conference papers Accepted/published

53 DR. ABINASH PANDA	Multi-material Bragg gratings for high-performance light-emitting diodes. Journal of Optics.
54 DR. ABINASH PANDA	Optimised quasi-periodic phononic crystal architectures for high-sensitivity magneto-acoustic field detection. Materials Technology.
55 DR. ABINASH PANDA	Terahertz Nanophotonic Hybrid-Metal Biosensor for Ultrasensitive, Noninvasive Cancer Detection Via Exosome Biomarkers. Journal of Electronic Materials
56 DR. ABINASH PANDA	High-sensitivity magnetic field sensor based on defect-induced resonance in quasi-periodic Fibonacci phononic crystals. International Communications in Heat and Mass Transfer
57 PROF. SOPHIYA SUSAN S	“Time-interleaved IR-UWB transmitter architecture with OOK modulation for energy-efficient Wireless Sensor Networks” Gongcheng Kexue Xuebao /Chinese Journal of Engineering.
58 DR. VIJI K	Intelligent Task Scheduling for Humanoids with Novel Heuristic Prediction Control. 2025 IEEE 1st International Conference on Recent Trends in Computing and Smart Mobility (RCSM)
59 PROF. NANDINI RAO G	Digital twin of ornithopter. IEEE CONNECT 2026
60 DR. SRIDHAR N	A Fractional Crocodile Ambush Optimized XGB- Fractional Attention Network for Generative Adversarial Networks -Based 3D Masked Face Recognition. IEEE Conference ICSSIT 2026
61 DR. PARTHASARATHY P DR. VENKATESH M	Electrostatic Modelling and Performance Optimization of Transconductance Efficiency and Leakage Control in TMGAA Silicon Nanowire TFETs. ECS Journal of Solid State Science.
62 DR. PARTHASARATHY P	Multilayer WS2/Graphene/Black Phosphorus Terahertz Metasurface Biosensor for Label-Free Pregnancy Detection with Machine Learning-Assisted Response Prediction. Sensing and Imaging.
63 DR. MAHESH KUMAR JHA	An AI-Powered Integrated Platform for Job Interview Coaching. 10th International Conference on Inventive Systems and Control (ICISC 2026)
64 DR. MAHESH KUMAR JHA	A Machine Learning – Integrated Approach for Low-Power Routing and Intelligent Sampling in Cellular Detector Systems. IEEE 6th CONIT 2026.
65 PROF. MARGARET MERCY V I	DS-BAViT: Dual-Scale Boundary-Aware Vision Transformer for Federated Echocardiographic Segmentation in Myocardial Infarction Diagnosis. TEMSCON-ASPAC 2026

Journal/Conference papers Accepted/published

66 DR. P. SUSHEELKUMAR S.	An Energy Balancing Fuzzy based Routing Algorithm for Energy–Efficient IoT Networks. 4th IEEE International Conference on Knowledge Engineering and Communication Systems (ICKECS2026)
67 DR. P. SUSHEELKUMAR S.	AyurGenixAI: Integrating Generative AI with Ayurvedic Knowledge: A Data–Driven Personalized Healthcare System. International Journal of Drug Delivery Technology (Scopus Indexed)
68 DR. P. SUSHEELKUMAR S.	A Unified and Interpretable Benchmarking Framework for Brain Tumor Classification Using Classical and Deep Learning Models.International Journal of Drug Delivery Technology
69 DR. P. SUSHEELKUMAR S.	ML based Self Driving Car. International Conference on Advances in Computing Systems Communication and Networking (ACSCON) 2026.
70 DR. P. SUSHEELKUMAR S.	Analysis Of Spatial Correlation Based Multi–Hop Routing Scheme With Varying Nodal Energy Routing Agents For Wsns . International Journal of Drug Delivery Technology
71 DR. SHARMILA K.P	AQUATWIN: A Digital Twin Framework for Early Detection of Water Contamination . International Conference on Recent Advancement in Electrical, Computer and Communication Technologies(IECCT 2026)
72 DR. SHARMILA K.P	Dual–Domain Speech Enhancement Using Adaptive Variational Mode Decomposition and MaskNet . International Conference on Data Engineering and Communication technology (ICDECT)–Springer
73 PROF. RAJESH K M	Melanoma Identification Using Deep Learning and Ayurvedic Recommendation System. ICT4SD Conference, 11th International Conference on ICT for Sustainable Development.
74 DR ABINASH PANDA	Experimentally validated dual–band GHz metamaterial perfect absorber biosensor with negative–index response and AI–assisted electromagnetic analysis for breast cancer dielectric discrimination. Biosensors Jr.
75 PROF. MADHU G.C	Energy Efficient Cryptographic Implementation using Probabilistic Switching in Low Power Adders. 2026 International Conference (IITCEE)
76 PROF. MADHU G.C	Aerophonic and Hydrophonic Systems using IoT. Book Chapter – Bentham science , IoT based Technologies for precision farming and smart agriculture.
77 PROF. SACHIN ARALIKATTI	Real–time Updates Intelligent Emergency Management System with Bluetooth and GSM Safety Device. Proceedings of the International Conference (ICAUC–2026)
78 PROF. SACHIN ARALIKATTI	IoT Based Crop Cultivation and Monitoring IoT for Enhanced Hydroponics Plant Growth. 2026– IEEE International Conference on Technology and Management For Sustainable Development (ICTMSD–26)

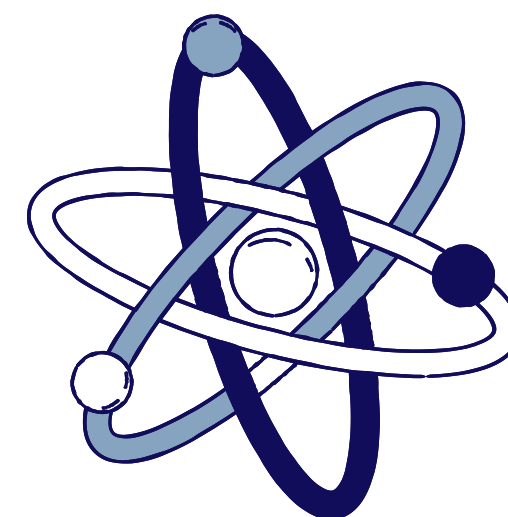
Journal/Conference papers Accepted/published

79 PROF. SACHIN ARALIKATTI	Low Power Automation Using Bluetooth and Wearable Device Security Safety Device. 2026 9th International Conference on Electronics, Materials Engineering & Nano-Technology (IEMENTech)
80 PROF. SUNIL KUMAR K H	Predictive Deep Reinforcement Learning-Based Energy-Efficient Smart Waste Collection Framework Using IoT and Federated Edge Intelligence . ICITEEB2026 – 3rd International Conference on Innovative Trends.
81 DR. PARTHASARATHY P & DR. SUSHEELKUMAR S	Enhanced Label-Free SARS-CoV-2 Biomarker Detection Using a Gold-Functionalized Ag – ZnO – Fe ₂ O ₃ Multilayer Surface Plasmon Resonance Biosensor. Optik.
82 DR. PARTHASARATHY P & DR. SUSHEELKUMAR S	Machine Learning-Assisted Graphene – Carbon Nanotube Enhanced Surface Plasmon Resonance Biosensor for High-Sensitivity Peptide Biomarker Detection. Physica B: Condensed Matter
83 DR. RANGEET MITRA	Stochastic gradient based concurrent criterion learning and parameter-estimation. Franklin Open
84 DR. VIJI K	A Predict-Interpret-Audit Framework by integrating Isolation Forest and ANN for Energy Optimization in Urban lighting. ICECCC-2026
85 DR MEENAKSHI R PATIL, DR NAVEENKUMAR G N	MBDNet: A Hybrid Deep Learning Model for MRI-Based Neurological Disease Classification Using CNN, BiLSTM, and Vision Transformers. International Journal of Computing and Digital Systems
86 DR.ABINASH PANDA	Terahertz metamaterial-based perfect absorber biosensor with AI integration and multiband double-negative response for early non-melanoma skin cancer detection. Results in Optics
87 DR. ABINASH PANDA, DR. SUSHEEL KUMAR	Ultra-sensitive CO2 gas detection based on graphene-assisted defect resonance in a 1D photonic crystal. Current Applied Physics
88 DR.ABINASH PANDA	High-performance one-dimensional defective photonic crystal biosensor featuring semiconductor defect layer and machine learning classification for early cancer diagnosis. Materials Technology
89 DR.ABINASH PANDA	An AI-Enhanced Multiband Terahertz Metamaterial Biosensor for Intelligent Leukaemia Detection. IET Wireless Sensor Systems
90 PROF. ASHUTOSH SRIVASTAVA	Early Mental Health Risk Detection via Multimodal Behavioral Drift Modeling with Cross-Modal Dissonance and Phase-Aware Predictive Calibrations. ICECCC-2026
91 PROF. ASHUTOSH SRIVASTAVA	Miniaturized Hexagonal Novel Slot Antenna Using Substrate Integrated Waveguide Technology for 5 GHz Applications. InC4 2026

92 DR. SUTAPA SARKAR	Performance Analysis of Active RIS Assisted NOMA with Noise Uncertainty. ICESc2026.
93 DR.RANGEET MITRA,DR. K.VENKATESWARAN	Adaptive Nonlinear State Estimators Based on RKHS for Future Applications in Integrated Sensing and Communication. Springer Nature Book chapter
94 DR.RANGEET MITRA,DR. K.VENKATESWARAN	Enhanced Label-Free SARS-CoV-2 Biomarker Detection Using a Gold-Functionalized Ag-ZnO-Fe ₂ O ₃ Multilayer Surface Plasmon Resonance Biosensor. Optik.
95 DR.RANGEET MITRA,DR. K.VENKATESWARAN	Impact of Practical Impairments on Adaptive cascaded channel estimation for IRS-Aided mmWave Hybrid MIMO System. IEEE-CICT Conference
96 DR.RANGEET MITRA, DR.K.VENKATESWARAN	A Proximal Descent Approach for Low Complexity Detection in Uplink OSTM. IEEE-CICT Conference
97 DR.KAVITHA.D	Design and Implementation of an IoT-Enabled Semi-Autonomous Floating Device For Plastic and Algae Collection in Small Water Bodies. ICESc2026
98 DR. PARTHASARATHY P	Hybrid Au-Ag-MXene-black phosphorus terahertz metasurface biosensor with XGBoost-assisted modeling for high-sensitivity protein refractive index sensing. Microsystem Technologies
99 PROF.PAVITHRA P	Integrated Sensing and Communication (ISAC) for Real-Time Data Acquisition in 6G Smart Hospital Networks. IEEE- CONIT 2026
100 DR.ANANTH KUMAR M.S.	Dynamic Source Routing Protocol for Energy Efficient and Reliable Data Transmission in 5G-Enabled Wireless Sensor Networks. International Conference on Advances in Photonics Science

PATENTS

FILED BY FACULTY MEMBERS



Dr. Abinash Panda, Dr. Meenakshi R Patil, Dr.S, Seetha, Mr.Abhijith

System and Method for Converting Atmospheric, Patent Application
202631025763

Prof. Raveesh Hegde

SMART ANALOG TO DIGITAL CONVERTER WITH ADAPTIVE
RESOLUTION. Patent Application No-202641033676

Prof. Sandeep K

TRIANGULAR PRISM MODULAR SPEAKER SYSTEM, Application
Number: 202641065868

Prof. Pavithra P

SMART STUDY DESK INTEGRATED WITH USER ACTIVITY AND
CIRCADIAN COLOR SYNCHRONIZATION, Application Number:
202641075311.

Prof. Rajesh K M

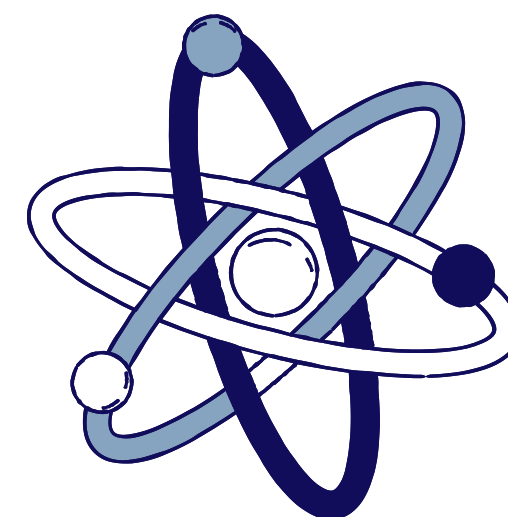
Hybrid Transparent Energy-Harvesting Film for Portable Electronic
Devices. Application Number: 202641014452

Dr. Anju Das, Dr. Sanjay Jain, Dr. Viji.K, Mr.Sumit Mohanty

Blackboard Cleaning Robot (Boardbot), Granted, Patent Application
Number: 202141043322

PATENTS

FILED BY FACULTY MEMBERS



Prof. Ashutosh Srivastava

SYSTEM AND METHOD FOR AUTONOMOUS LUNAR SURFACE
EXPLORATION AND REGOLITH COLLECTION. Application Number:
202641097823

Dr. Naveen Kumar GN, Dr. Abinash Panda

Self-calibrating Mum-Sensor Fusion Node for Predictive Equipment
Maintenance. Application Number: 202631090446

Dr. Naveen Kumar GN, Dr. Viji K, Dr. Abinash Panda

Mesh-Based Localized Edge Inference System for Anomaly Detection in
IoT Sensor Clusters.
Application Number: 202631092344

Prof. Deepika C

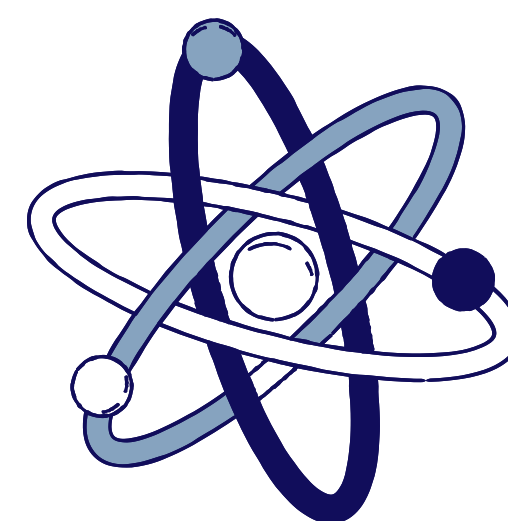
AI-Based Smart Ceiling Fan with Multi-Sensor Dust Detection,
Autonomous Self-Cleaning and Sealed Dust Collection System.
Application Number: 202641096689

Dr. Ananth Kumar M.S.

Intelligent Distributed Machine Learning System for Adaptive Real-Time
Prediction.
Application Number: 202641100444

PATENTS

FILED BY FACULTY MEMBERS



Prof. Pavithra P

Multi-Mode Smart Reset Fuse System for Autonomous, Remote, and Touch-Controlled Circuit Protection. Application Number: 202641102517

Prof. Ranjitha R

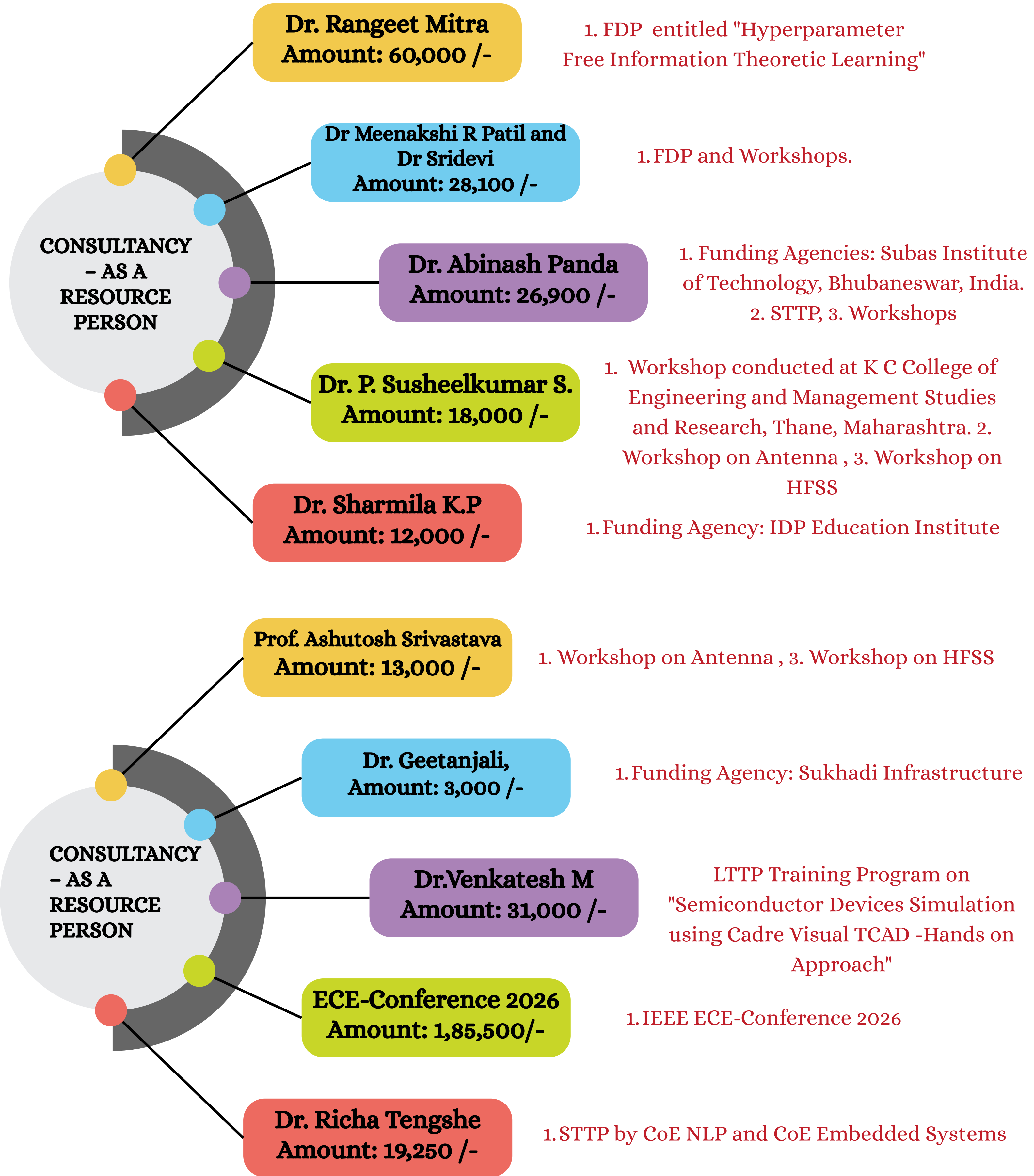
PORTABLE MULTI-PARAMETER FRUIT CHEMICAL DETECTION DEVICE
AND METHOD.

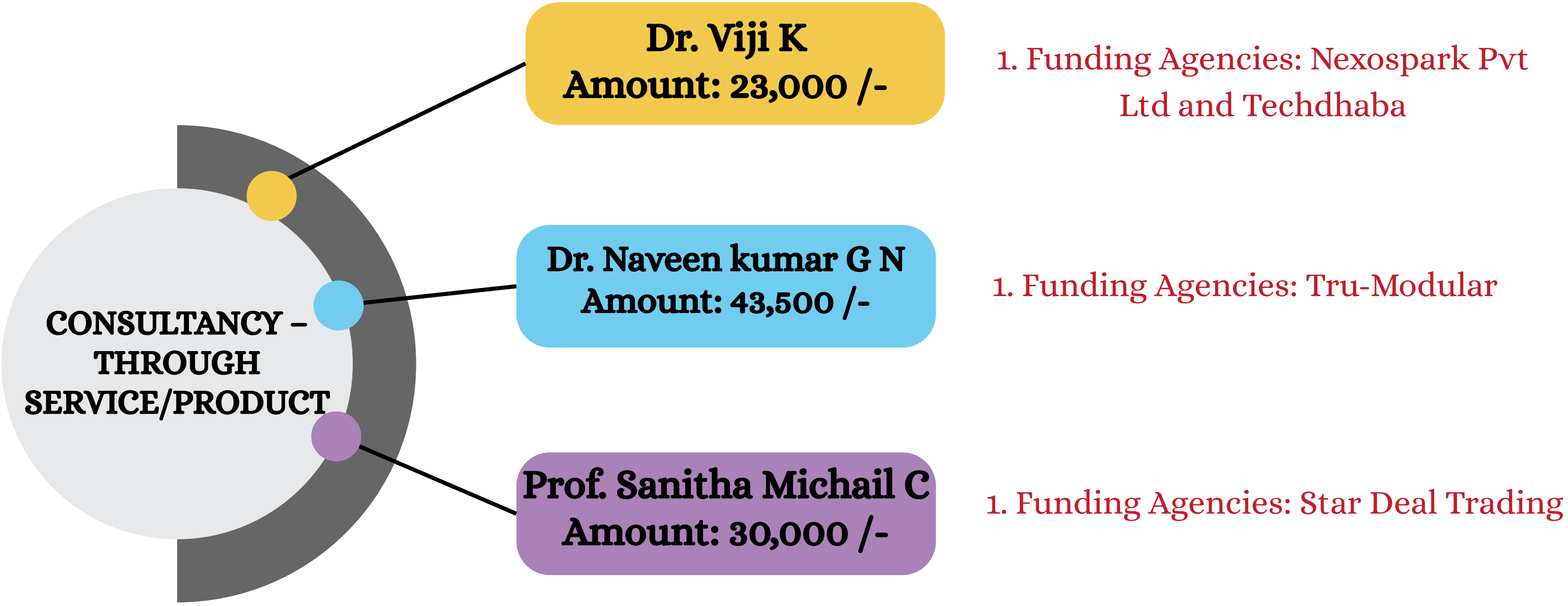
Application Number: 202641101992

CONSULTANCY FUNDS GENERATED BY FACULTIES

Total income from March 2026 to Aug 2026:

Rs. 4,93,250 /-





FACULTY TECHNICAL TALK

ELECTRONICS

Technology is best when it brings people together." – Matt Mullenweg

FACULTY

TOPIC

CONDUCTED

Dr. Parthasarathy P	Funded Research Mastery: Grant Planning and Execution	<u>25-03-2026</u>
Prof. Sophiya Susan S	Smart Biomedical Signal Processing: Leveraging IoT, Edge Computing, and ML	13/05/2026
Prof.Kavitha N Pillai	AI-Driven Radar: Cognitive Architectures and Real- Time Adaptation	~~23/7/2025~~
Dr. Anju Das	AI Transparency, Ethics & Accountability in Educational Institutions	15/01/2026
Dr.Kavitha.D	Disease diagnosis and classification using AI models	21/1/26
Dr. Susmitha Alamuru	AI IN MEDICAL IMAGING ,CURRENT TRENDS AND CHALLENGES	25-03-2026
Prof. DEEPIKA C	Generative AI applications in robotics	07-05-2026 #

FACULTY TECHNICAL TALK ELECTRONICS

Technology is best when it brings people together." – Matt Mullenweg

FACULTY

TOPIC

CONDUCTED

Dr.Mahesh
Kumar Jha

Energy Profiling and
Optimization for Edge
Sysytems

11-06-2026
≡

Dr.Sushma T V

AI in Medical Image
processing

11-06-2026
/

Dr Ruma Debnath

Electro-Optic Crystals

26/03/2026
9

Mr Sandeep K

Wavelets and Image
Processing

27/03/2026
^

Mr Rajesh K M

3D Image Processing

26/03/2026

Dr.Venkatesh.M

Emerging Trends of
Design in
Nanotechnology

13/05/2026
C

Prof. Pavithra P

Integrated Sensing and
Communication (ISAC)

19/06/2026
#



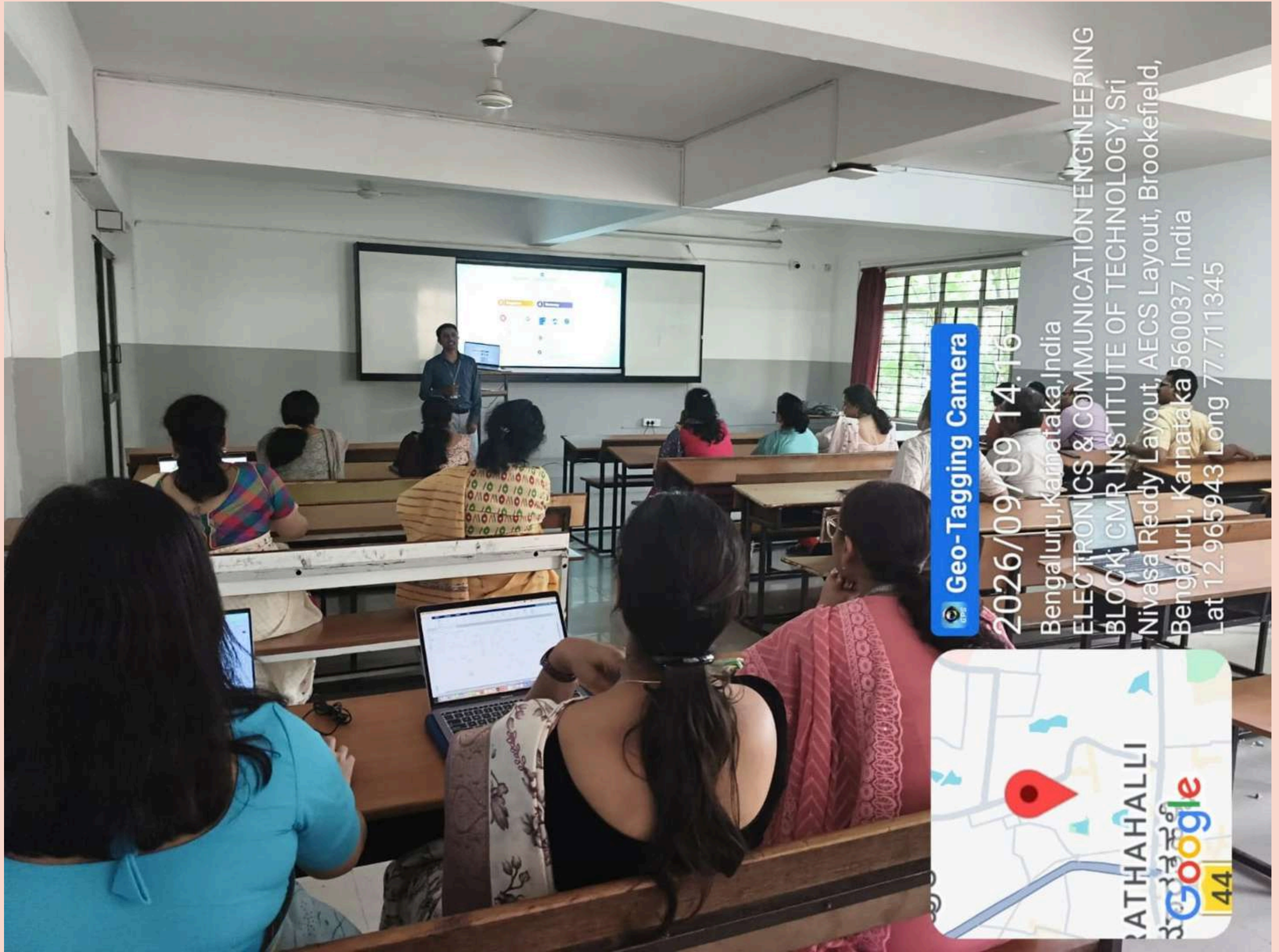


FACULTY	TOPIC	CONDUCTED
Prof. Margaret Mercy V I	Image Semantic Segmentation in Autonomous Vehicles.	<u>19/06/2026</u>
Dr Sharmila	Edge AI with 5G & Next-Gen IoT	30/06/2026
Dr Pappa	Antennas for 6G	~~30/06/2026~~
Dr. Geetanjali	Graph Neural network	<u>20/08/2026</u>
Prof.Raveesh Hegde	Theory of Convex Optimization and Its Applications in Wireless Communication	27/08/2026

TECH TALK CONDUCTION PHOTO'S



TECH TALK CONDUCTION PHOTO'S



FACULTY MOOC AY 26-27

Dr Ruma Debnath	Robotics
Prof. Abhishek Javali	Passive Microwave Circuits, Devices and Measurements
Prof. Suganya J	Electromagnetic Theory
Prof. Chithra M	Electric Vehicle: Its Components, Charging Infrastructure and Grid Integration Solution
Dr Nija K S	System design through verilog
Dr. Deepthi Mariam John	Principles of Modern CDMA/ MIMO/ OFDM Wireless Communications
Prof. Raveesh Hegde	Principles of Modern CDMA/ MIMO/ OFDM Wireless Communications
Dr. Sutapa Sarkar	5G Wireless Standard Design
Prof. Keka Mukhopadhyaya	Electronic system design: Hands on circuits and PCB Design with CAD Tool

“Anyone who stops learning is old, whether at twenty or eighty. Anyone who keeps learning stays young”

FACULTY MOOC DETAILS

AY 26-27

Dr.Anju Das	Electronic Systems Design: Hands-on Circuits and PCB Design with CAD software
Prof. Pavithra P	System Design through Verilog
Prof. Margaret Mercy VI	Hardware Modeling using Verilog
Prof. Sanitha Michail C	System Design through Verilog
Prof. Ranjitha R	Metallurgy e waste
Dr. Geetanjali	System design through verilog
Dr. Abinash Panda	Metallurgical and Electronic Waste Recycling
Dr Meenakshi R Patil	Ethical Hacking
Dr.Susmitha Alamuru	Modern Digital Communication Techniques

Education is not preparation for life; education is life itself." - John Dewey

FACULTY MOOC AY 26-27

Dr.Kavitha.D	System design using verilog
Dr. Eisha Akanksha	Cyber Security and Privacy
Prof. Sandeep K	Applied Linear Algebra for Signal Processing
Dr. Naveen Kumar	System Design Through Verilog
Prof. Sophiya Susan	System design through Verilog
Dr.K.Venkateswaran	Principles and Techniques of Modern Radar Systems
Prof. Ashutosh Srivastava	Introduction to Application of Artificial Intelligence to Robotics
Dr. Sridhar N	Ethical Hacking
Prof. Sunil Kumar K H	VLSI Design Flow: RTL to GDS
Prof. Kavitha N Pillai	Metallurgical and Electronic Waste Recycling

“A reader lives a thousand lives before he dies. The man who never reads lives only one.” — George R. R. Martin

FACULTY MOOC AY 26-27 DETAILS

Dr. Richa Tengshe

Fundamentals of Generative AI and Large Language Models:
Theory and Practice

Prof.Nandini Rao

Wireless and cellular communication

“Knowledge is power. Information is liberating.” — Kofi
Annan

MOOC'S - CERTIFICATE (FACULTY)



Elite

NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

This certificate is awarded to
MEENAKSHI RAVINDRA PATIL
for successfully completing the course

Cryptography and Network Security

with a consolidated score of **91** %

Online Assignments	24.69/25	Proctored Exam	66/75
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Total number of candidates certified in this course: **3794**

Jan-Apr 2026
(12 week course)



Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL26CS57S1350205962

To verify the certificate



No. of credits recommended: 4



Elite

NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

This certificate is awarded to
PANCHIKATTIL SUSHEELKUMAR SREEDHARAN
for successfully completing the course

Edge Computing

with a consolidated score of **83** %

Online Assignments	24.58/25	Proctored Exam	58.5/75
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Total number of candidates certified in this course: **2261**

Jan-Mar 2026
(8 week course)



Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL26CS30S552205333

To verify the certificate



No. of credits recommended: 3

MOOC'S - CERTIFICATE (FACULTY)



Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



Skill India
कौशल भारत - कुशल भारत

This certificate is awarded to

MADHU G C

for successfully completing the course



Wireless Ad Hoc and Sensor Networks

with a consolidated score of **88** %

Online Assignments	23.75/25	Proctored Exam	64.5/75
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Total number of candidates certified in this course: **471**

Jan-Mar 2026

(8 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL26CS51S570300225

To verify the certificate



No. of credits recommended: 3



Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



Skill India
कौशल भारत - कुशल भारत

This certificate is awarded to

SUSHMA TV

for successfully completing the course



Embedded System Design with ARM

with a consolidated score of **78** %

Online Assignments	23.75/25	Proctored Exam	54/75
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Total number of candidates certified in this course: **595**

Jan-Mar 2026

(8 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL26CS40S652205575

To verify the certificate



No. of credits recommended: 3

MOOC'S - CERTIFICATE (FACULTY)



Elite

NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

This certificate is awarded to
SUTAPA SARKAR
for successfully completing the course
Advanced Computer Architecture
with a consolidated score of **79** %

Online Assignments	25/25	Proctored Exam	54/75
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Total number of candidates certified in this course: **945**


Prof. Andrew Thangaraj
Chair
Centre for Outreach and Digital Education, IITM

Jan-Apr 2026
(12 week course)


Prof. Vignesh Muthuvijayan
NPTEL Coordinator
IIT Madras

 Indian Institute of Technology Madras



Roll No: NPTEL26CS23S350204622 To verify the certificate  No. of credits recommended: 4



Elite

NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

This certificate is awarded to
SRIDHAR N
for successfully completing the course
Embedded System Design with ARM
with a consolidated score of **83** %

Online Assignments	24.79/25	Proctored Exam	57.75/75
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Total number of candidates certified in this course: **595**

Jan-Mar 2026
(8 week course)


Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur

 Indian Institute of Technology Kharagpur



Roll No: NPTEL26CS40S652203566 To verify the certificate  No. of credits recommended: 3

MOOC'S - CERTIFICATE (FACULTY)



Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



This certificate is awarded to

SUSMITHA ALAMURU

for successfully completing the course

Embedded System Design with ARM

with a consolidated score of **85** %

Online Assignments	24.58/25	Proctored Exam	60/75
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Total number of candidates certified in this course: **595**



Jan-Mar 2026

(8 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL26CS40S652205645

To verify the certificate



No. of credits recommended: 3



Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



This certificate is awarded to

GEETANJALI PAWANEKAR

for successfully completing the course

Digital Design with Verilog

with a consolidated score of **77** %

Online Assignments	24.38/25	Proctored Exam	52.66/75
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Total number of candidates certified in this course: **1824**



Jan-Apr 2026

(12 week course)

Dr. Salil Kashyap
Coordinator, Centre for Educational Technology,
IIT Guwahati



Indian Institute of Technology Guwahati



Roll No: NPTEL26CS24S1650206395

To verify the certificate



No. of credits recommended: 4

MOOC'S - CERTIFICATE (FACULTY)



Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



Skill India
कौशल भारत - कुशल भारत



This certificate is awarded to

SUSMITHA ALAMURU

for successfully completing the course



Embedded System Design with ARM

with a consolidated score of **85** %

Online Assignments	24.58/25	Proctored Exam	60/75
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Total number of candidates certified in this course: **595**



Jan-Mar 2026

(8 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL26CS40S652205645

To verify the certificate



No. of credits recommended: 3

Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



Skill India
कौशल भारत - कुशल भारत



This certificate is awarded to

ANJU DAS

for successfully completing the course



Plastic Waste Management

with a consolidated score of **76** %

Online Assignments	24.17/25	Proctored Exam	51.38/75
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Total number of candidates certified in this course: **2294**

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL26CE51S652201503

To verify the certificate



No. of credits recommended: 3

MOOC'S - CERTIFICATE (FACULTY)



Elite NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



This certificate is awarded to

SANDEEP

for successfully completing the course

Principles of Communication Systems - I

with a consolidated score of **76** %

Online Assignments	25/25	Proctored Exam	51/75
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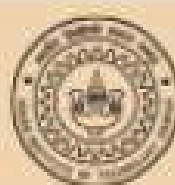
Total number of candidates certified in this course: **765**

Prof. B. V. Ratish Kumar
Chairman, Centre for Continuing Education
IIT Kanpur

Jan-Apr 2026

(12 week course)

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur

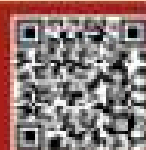


Indian Institute of Technology Kanpur



Roll No: NPTEL26EE36S1550204641

To verify the certificate



No. of credits recommended: 4



NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



This certificate is awarded to

VEDA S

for successfully completing the course

**Integrated Circuits, Mosfets, OP-Amps and
their Applications**

with a consolidated score of **51** %

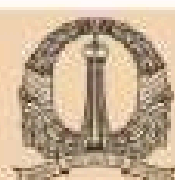
Online Assignments	20.91/25	Proctored Exam	30/75
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Total number of candidates certified in this course: **219**

Jan-Apr 2026

(12 week course)

Prof. L. Umanand
NPTEL Coordinator & Chair, Centre for Continuing
Education, IISc Bangalore



Indian Institute of Science Bangalore



Roll No: NPTEL26EE12S350203838

To verify the certificate



No. of credits recommended: 4

RESEARCH SCHOLARS PURSUING IN RESEARCH CENTER

**AY 26-
27**

S.no	Name of the Research Scholar	Name of the Guide	Year	Status
1	Mr. Sunilkumar K H	Dr. Indumathi G	2014	Ongoing
2	Ms. Aritri Debnath Ghosh	Dr. Y V S Lakshmi & Dr. Navinkumar	2014	Ongoing
3	Ms. Dharini S	Dr. Sanjay Jain	2014	Open Seminar Completed
4	Mr. Krishna Teja Yadav	Dr. Venkateswaran K	2021	Open Seminar 1 Completed
5	Mr. Manjunath V Gudur	Dr. Meenakshi Patil	2021	Course Work in Progress
6	Mr. Rahul Tiwari	Dr. Venkateswaran K	2021	Course Work Completed (Inactive)
7	Mr. Raveesh Hegde	Dr. Binish Fatimah	2021	Course Work Completed
8	Mr. Sachin Aralikatti	Dr. Sridhar N	2021	Comprehensive Viva Completed
9	Ms. Suganya J	Dr. Sridhar N	2021	Comprehensive Viva Completed
10	Mr. Onkarappa Naduvinamani	Dr. Sridhar N	2023	Course Work in Progress
11	Ms. Eisha Akansha	Dr. Meenakshi Patil	2023	Course Work Completed
12	Ms. Pratima Ahot	Dr. Meenakshi Patil	2023	Comprehensive Viva Completed
13	Mr. Ashutosh Srivastava	Dr. Venkateswaran K	2023	Course Work Completed

CMR Institute of Technology, Department of ECE, Research Guides and Supervisors Summary 2026–27

Category	Name	Role	University	Guiding	Awarded
Internal	Dr. Meenakshi Patil	Guide	CMRIT	3	6
Internal	Dr. Venkateswaran	Guide	CMRIT	3	--
Internal	Dr. Sharmila K P	Guide	CMRIT	--	--
Internal	Dr. P. S. Sreedharan	Guide	CMRIT	--	--
Internal	Dr. Sridhar N	Guide	CMRIT	3	--
External	Dr. Navinkumar	Guide	External	1	2
External	Dr. Binish Fatimah	Guide	External	1	--
Co-Guide	Dr. Pappa M	Co-Guide	Manipal University	--	--
Co-Guide	Dr. Rangeet Mitra	Co-Guide	IIIT Jabalpur and VTU	3	--

Details of VTU Approved Research Guides in Research Center Academic Year 2026–27

S.no	Name of the Research Guides	S.no	Name of Research Guides
1	Dr. Meenakshi Patil	10	Dr. Pappa M
2	Dr. Venkateswaran	11	Dr. Sridevi S
3	Dr. Sharmila K P	12	Dr. Richa Tengshe
4	Dr. Pranchikattil Susheelkumar	13	Dr. Ananth Kumar M S
	Sreedharan	14	Dr. Kavitha D
5	Dr. Sridhar N	15	Dr. Sushma T V
6	Dr. Naveenkumar G N	16	Dr. Mahesh Kumar Jha
7	Dr. Abinash Panda	17	Dr. Rangeet Mitra
8	Dr. Venkatesh M	18	Dr. Alamuru Susmitha
9	Dr. Parthasarathy		

ECE Department Events

Alumni Expert Talk

Event Description: Alumni Expert Talk on “Designing Your Life: How to Build your Career before you Graduate” Mr. Jayajevaa N, Cloud Analyst at Oracle, Bangalore.

Alumni Faculty Co-ordinators : Dr. Sridevi S, Prof Kavitha N Pillai

Date: 11th March 2026

Total Strength : 55



An expert talk was conducted by by Mr. Jayajevaa N, Cloud Analyst at Oracle to guide students on career development and personal growth. During the talk, Jayajevaa emphasized the importance of having a clear direction in one's career and encouraged students to explore opportunities that help them identify their strengths and interests. He highlighted the significance of developing essential skills such as communication, leadership, adaptability, quick learning, and self-expression, which are important for professional success.

Mr. Jayajevaa also shared the “Sharpen the Axe” story to illustrate the need for continuously improving one's skills and knowledge. He encouraged students to step out of their comfort zones, try new things, and take risks, especially during the early stages of their careers.

The speaker reassured students that failure is a part of the learning process and that it provides valuable lessons for personal and professional growth. He concluded by motivating students to pursue work that they enjoy, as happiness in one's profession leads to a fulfilling life.

The session was insightful and inspiring for the students, providing valuable guidance on career planning and self-development.

ECE Department Events

Industrial Visit to Airport Authority of India (AAI), IEEE CMRIT Student Branch – Signal Processing Society (SPS), Dept. of ECE. Date & Time: 12 March 2026, 2:30 PM – 4:00 PM

The industrial visit was organized to provide students with practical exposure to real-world communication systems used in the aviation industry. The visit aimed to help participants understand how various communication technologies are implemented in airport operations for air traffic control, navigation, and safety management. The session also focused on bridging the gap between theoretical concepts learned in classrooms and their practical applications in the aviation sector. Through this visit, students gained insights into the communication infrastructure and operational procedures followed by the Airport Authority of India.

Event Structure:

The visit was conducted as an educational industrial exposure session at the Airport Authority of India.

- Venue: Airport Authority of India
- Date & Time: 12 March 2026, 2:30 PM – 4:00 PM
- Participants: IEEE SPS members and interested students



ECE Department Events

Hardware hustle by IEEE EDS

Title: Tunnel Field Effect Transistor: A viable option for Ultra-Sensitive Biosensing application. 05.06.2026 1pm to 2 pm

Speaker: Dr. Manoj Saxena, Professor, Department of Electronics, Deen Dayal Upadhyaya College, University of Delhi, India



The IEEE Distinguished Lecturer (DL) Talk on Tunnel Field Effect Transistor: A viable option for Ultra-Sensitive Biosensing application provided valuable insights into the emerging role of semiconductor devices in biomedical diagnostics. The session highlighted the fundamental working principles of FET-based biosensors, emphasizing their high sensitivity, rapid response, and capability for label-free detection. The speaker elaborated on how variations in surface potential, caused by biomolecular interactions, modulate the electrical characteristics of the transistor, enabling precise detection of biological analytes such as proteins, DNA, and pathogens. The talk also explored different types of FET biosensors, including MOSFETs, ISFETs, and nanomaterial-based FETs, discussing their design considerations, advantages, and limitations. Special attention was given to the integration of nanotechnology, such as graphene and silicon nanowires, which significantly enhance sensor performance. Furthermore, the lecture addressed real-world applications in medical diagnostics, environmental monitoring, and point-of-care testing, highlighting their potential for early disease detection and personalized healthcare. Challenges such as stability, selectivity, and large-scale fabrication were also discussed. Overall, the session organized under IEEE provided a comprehensive understanding of FET-based biosensing technologies and inspired further research in this rapidly evolving interdisciplinary field.

ECE Department Events

Decode to Discover – Tech-Based Treasure Hunt, IEEE CMRIT Student Branch – Signal Processing Society (SPS), Dept. of ECE. Venue: L 301, Date & Time: 2 April 2026, 1

Objective: PM to 2 PM

The objective of the event “Decode to Discover – Tech-Based Treasure Hunt” was to provide students with an engaging and interactive platform that combines technology with problem-solving skills. The event aimed to enhance participants’ logical thinking, analytical abilities, and teamwork through a location-based challenge where each clue was unlocked using scanning techniques. It also sought to introduce students to practical applications of technology in a fun and competitive environment, while encouraging active participation in IEEE and SPS initiatives. Overall, the event was designed to foster curiosity, improve decision-making skills, and create enthusiasm for technical and collaborative learning.

Event Structure:

Participants were given a quiz which was evaluated based on the correct answers submitted and the time taken to answer. A tech-based treasure hunt followed the quiz to evaluate the quickness and problem-solving skills. Venue: L 301, Date & Time: 2 April 2026



ECE Department Events

From Idea to Prototype: An Innovation & Entrepreneurship Workshop for ECE Students by I&E. 11th April 2026, 1 pm to 2 pm.

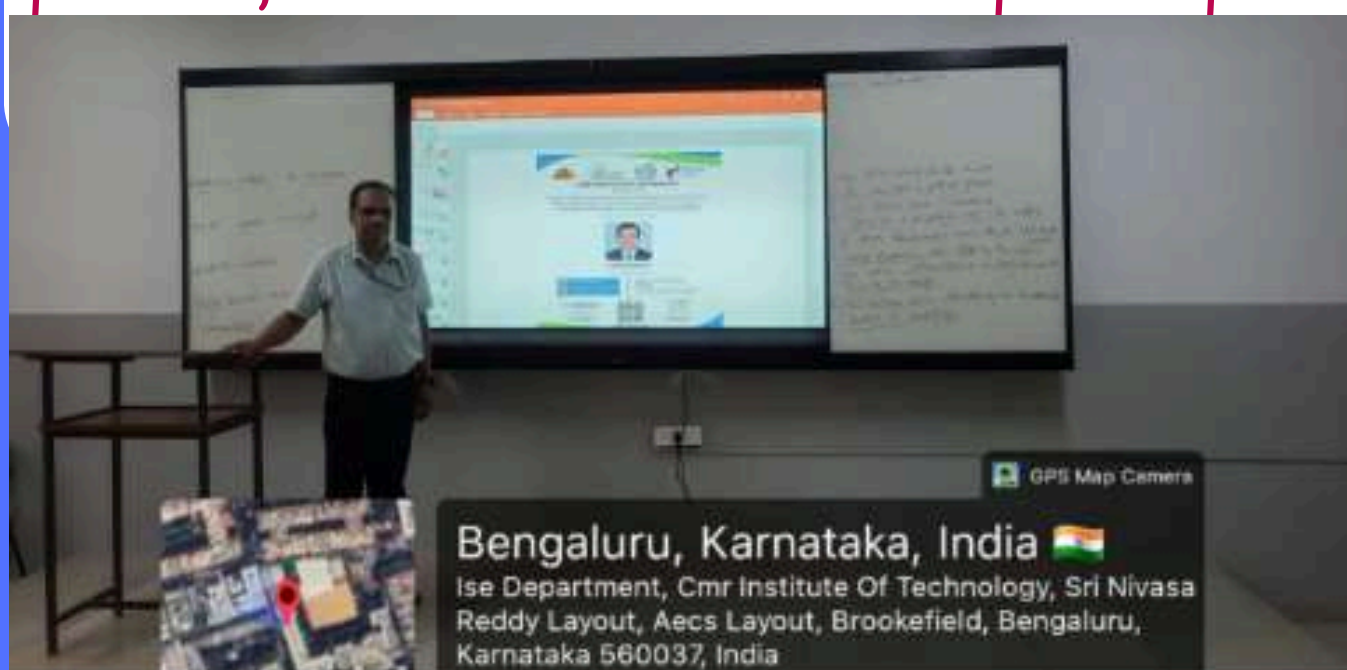
The workshop aimed to cultivate an innovation and entrepreneurial mindset among students by guiding them through the Idea-to-Prototype journey in the context of industrial process design. The objective was to empower participants to identify real-world problems, develop innovative solutions, and transform ideas into viable prototypes and business opportunities. The session also focused on equipping students with essential tools such as design thinking, business model development, and value creation strategies for entrepreneurial success.

Summary of the Event:

An engaging and application-oriented workshop titled "From Idea to Prototype: An Innovation & Entrepreneurship Workshop for ECE Students" was successfully conducted on 11th April 2026 by the I&E Cell, Department of ECE. The event witnessed active participation from 49 students, reflecting strong interest in innovation-driven learning.

This was followed by an in-depth session on the Idea-to-Prototype framework, where participants were guided through the structured stages of transforming ideas into tangible solutions. The session effectively bridged creativity, engineering design, and entrepreneurial execution, enabling students to understand how innovative concepts can evolve into market-ready products.oup presented their prototype ideas and business models, demonstrating creativity, problem-solving ability, and entrepreneurial thinking.

The event concluded with a Vote of Thanks by Dr. P. Susheelakumar S., who appreciated the efforts of the resource person, faculty coordinators Dr. Abinash panda , and the enthusiastic participation of students.



ECE Department

Events

INDUSTRY CONNECT ACTIVITY REPORT

Guest Lecture on “Electronic Circuit Controlling Devices and Actuators”

Date of the Event: 29-04-2026

Conduction: Offline Classroom-LH304

Target Audience: IV Semester ECE Students

Resource Person: G. Sivraj

Qualification: Diploma In Electrical Engg , P.S.G. College of Technology, Coimbatore.

Designation: Senior Consultant – Electronic Circuit Design

Organization: Consultant – Bangalore Hydro Engineers and Consultants Pvt. Ltd., 219,
First “A” Main Road, 407 SFS, Yelahanka New Town, BANGALORE

The Department of Electronics and Communication Engineering, CMR Institute of Technology, Bengaluru, organized an Industry Connect Guest Lecture on “Electronic Circuit Controlling Devices and Actuators” for IV Semester ECE students on 29th April 2026. The session was conducted to provide students with practical knowledge of electronic control systems and their applications in modern automation and embedded technologies.

The lecture was delivered by Mr. G. Sivraj, who shared valuable insights into the working principles of controlling devices and actuators used in various industrial and domestic applications. He explained how electronic circuits play a major role in sensing, processing, and controlling different devices such as motors, relays, solenoids, LEDs, buzzers, valves, and robotic actuators.

The session began with an introduction to control systems and the importance of interfacing electronic circuits with real-world devices. The speaker explained the classification of actuators into electrical, hydraulic, pneumatic, and thermal actuators, along with their practical applications in industries such as manufacturing, robotics, home automation, automotive systems, and smart appliances.

Mr. G. Sivraj elaborated on commonly used controlling devices such as transistors, relays, opto-isolators, SCRs, TRIACs, MOSFETs, and microcontroller-based driver circuits. He explained how low-power signals from microcontrollers can be used to control high-power devices safely using interface circuits and protection mechanisms.



ECE Department Events

LOST IN TRANSMISSION by IEEE ComSoc Student branch CMRIT in association with Institute Innovation Council (IIC). Date: 23/04/26. Time from 02:00 PM to 04:00 PM

OBJECTIVE:

The objective of “Lost in Transmission” is to demonstrate how information gets distorted as it passes through multiple layers of communication. It highlights the importance of clarity, accuracy, and interpretation in both technical and everyday contexts. Participants develop teamwork, quick thinking, and creative expression under constraints. The event also simulates real-world scenarios like signal loss, miscommunication in networks, and human error. Ultimately, it aims to combine learning with entertainment by showing how easily messages can change and how effectively teams can adapt to recover meaning.

SUMMARY:

The IEEE CMRIT ComSoc Student Branch, in association with the Institution’s Innovation Council (IIC) - CMRIT and the Department of ECE, successfully organized “Lost in Transmission” on 23/04/26. The event was conducted from 02:00 PM to 04:00 PM, bringing together participants for an engaging and interactive experience focused on communication and teamwork.

This year’s event received an enthusiastic response, with around 28 participants actively taking part. The competition consisted of multiple rounds designed to test participants’ ability to interpret, modify, and convey information under various constraints. From distorted message passing to restricted communication challenges such as gestures, drawing, and limited speech, each round encouraged creativity, quick thinking, and collaboration. The event effectively highlighted real-world communication challenges while maintaining a fun and competitive atmosphere throughout.



ECE Department Events

Signal Processing Workshop with Python by IEEE CMRIT Student Branch – Signal Processing Society (SPS), Dept. of ECE

Objective:

The objective of the Signal Processing Workshop with Python was to help students build real-world signal processing skills using Python. The workshop aimed to provide practical knowledge through hands-on learning and interactive sessions. It also encouraged participants to enhance their technical skills, explore real-world applications of signal processing, and engage in competitions to test their understanding. The event was designed to promote innovation, problem-solving ability, and active participation among students.

Event Structure: The workshop focussed on providing Hands on experience using Python for Signal processing. Basics of Python and libraries used were discussed. Signal processing concepts were discussed and its implementation using Python was demonstrated. Fundamental concepts of signal processing like filtering to real time practical application like processing ECG signals was demonstrated.

Venue: L-302

Date: 25 April 2026

Time: 09:00 AM to 03:00 PM

Participants: Open to students



ECE Department Events

"Rang Sanskriti: Indo-Nepal Cultural Showcase". Date: 30/04/2026, 1 pm to 2 PM

The EBSB Club of CMR Institute of Technology organized a cultural program titled "Rang Sanskriti: Indo-Nepal Cultural Showcase" on 30/04/2026. The event was conducted with the objective of celebrating the rich cultural heritage, traditions, art forms, and values shared between India and Nepal. Students enthusiastically participated in various cultural activities, including traditional music, dance performances, presentations, and interactive sessions highlighting the customs and lifestyles of both nations.



Events

National Technology Day -11th May 2026

Venue:

CMR Institute of Technology, Bengaluru

Objective:

The event was organized to commemorate National Technology Day and to create awareness among students about the significance of technological advancements, innovation, research, and entrepreneurship in nation building. The session aimed to inspire students to explore emerging technologies, develop innovative solutions for real-world challenges, and understand the role of engineers in shaping a technologically empowered society. The event also encouraged students to cultivate creativity, problem-solving ability, and an entrepreneurial mindset.

Benefits / Key Takeaways:

- ▣ Improved awareness about the importance of National Technology Day
- ▣ Understanding of emerging technologies and innovation trends
- ▣ Motivation to participate in research, innovation, and startup activities
- ▣ Exposure to entrepreneurial opportunities in the technology sector
- ▣ Enhanced knowledge about Industry 4.0 and smart technologies
- ▣ Encouragement to develop problem-solving and creative thinking abilities
- ▣ Inspiration to contribute toward technological and societal development



ECE Department Events

EQUAL OPPORTUNITY CELL - Soft skills session

Faculty Co-ordinators : Dr. Sridevi S

Date: 20 May 2026

Total Strength : 47

“Understanding Employability Skills through HR Hiring was the moto behind this session

The objective of this activity was to help students understand the qualities and skills expected by recruiters during hiring. Through a team-selection exercise, students experienced how Human Resources (HR) evaluate candidates based on professional and personal qualities rather than marks alone. The activity aimed to create awareness about employability skills and encourage students to develop them.

A classroom activity was organized in which students were shown profile cards of different candidates, each highlighting various qualities such as communication, teamwork, responsibility, technical knowledge, adaptability, leadership, creativity, and problem-solving. Students were asked to imagine themselves as HR recruiters and select 5 members/teams based on the qualities listed in the profiles. They discussed among themselves, compared candidates, and justified their choices.

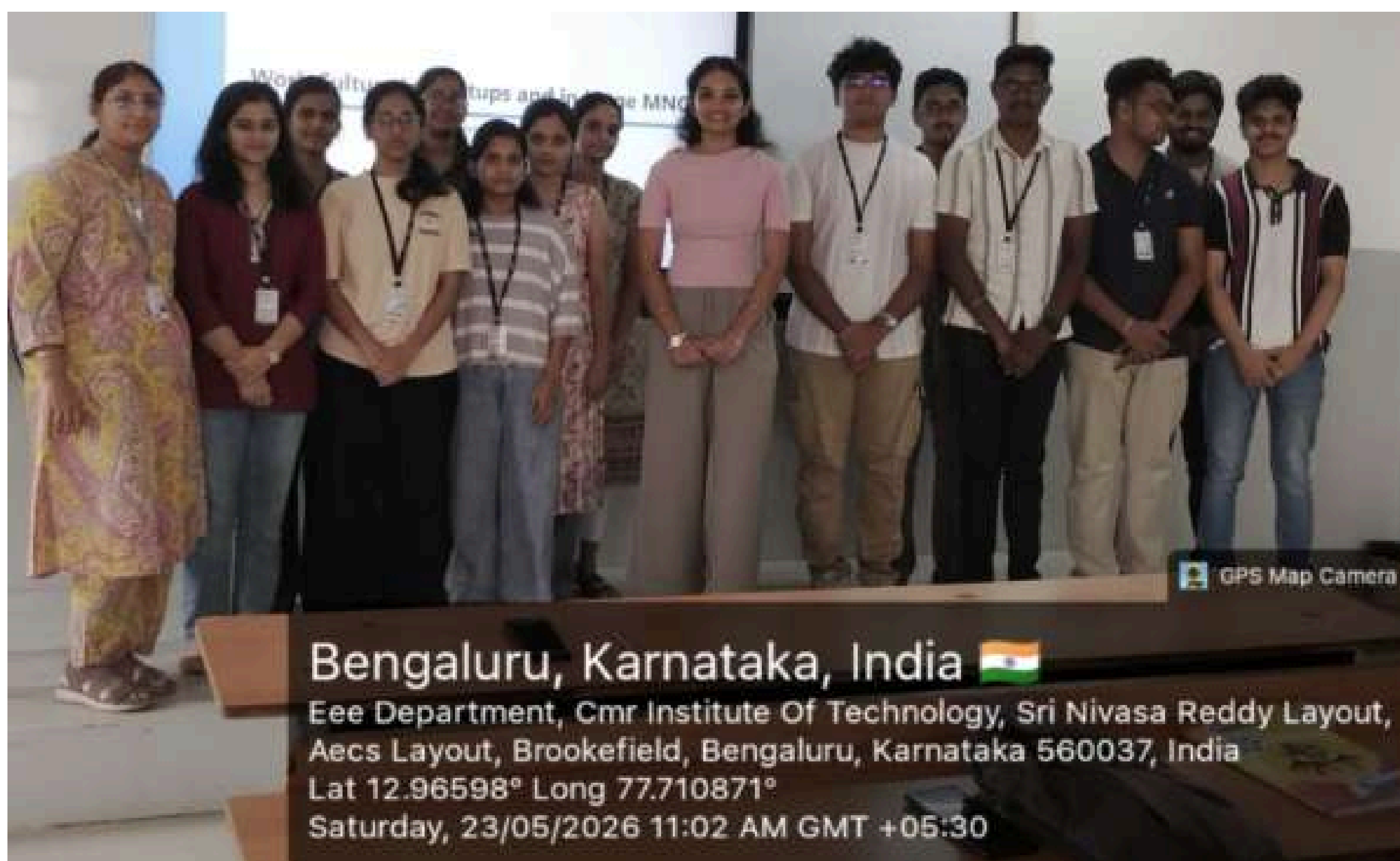


ECE Department Events

Name of the Event: Guest Lecture on “Work Culture in Startups and Large MNCs “ **Date of the Event:** 23-05-2026, **Conduction:** Offline _ Classroom-LH301, **Target Audience:** IV Semester ECE Students

Resource Person: Jhanvi P C

Qualification: BE (Electrical and Electronics Engineering), CMR Institute of Technology, Bengaluru, **Designation:** API Integrations | Client Web Services | Partner App Integrations ,**Organization:** SAP Concur, Bengaluru



The Department of Electronics and Communication Engineering, CMR Institute of Technology, Bengaluru, organized an Industry Connect Guest Lecture on “Work Culture in Startups and Large MNCs” for IV Semester students on 23rd May 2026. The session was conducted to provide students with insights into corporate work environments, career growth opportunities, and industry expectations in both startup companies and multinational corporations (MNCs).

The lecture was delivered by Ms. Jhanvi P C, who shared her professional experiences and discussed the differences between startup ecosystems and large enterprise organizations. The session focused on helping students understand workplace culture, technical exposure, team collaboration, and professional growth in different organizational environments.

The speaker began with an overview of the IT and engineering industry, explaining various domains such as product-based companies, hardware industries, IT services, and enterprise technologies. She discussed how career paths evolve from internships and startup experiences to large-scale MNC environments. Students were introduced to the importance of adaptability, continuous learning, and professional communication in the software and engineering sectors.

INTERNATIONAL YOGA DAY CELEBRATIONS

by CMRIT, BENGALURU

Events

EVENT NAME: INTERNATIONAL YOGA DAY CELEBRATIONS

DATE: 19 JUNE 2026

VENUE: FOOTBALL GROUND, CMRIT

NUMBER OF PARTICIPANTS: 138

COLLABORATION: WELL BEING CLUB, CMRIT

The National Service Scheme (NSS) of CMR Institute of Technology (CMRIT), in collaboration with the Well Being Club, CMRIT, organized the International Yoga Day Celebrations on 19 June 2026 at the Football Ground, CMRIT. The session was conducted with the aim of promoting physical fitness and creating awareness about the vital role holistic health plays in leading a balanced life. The event provided an opportunity for students, faculty, and staff members to learn valuable wellness techniques and support the overall health needs of the community.

The celebration received an enthusiastic response from the college community, drawing a total of 138 participants, and was conducted under the guidance of Yogacharya Dr. Jabeen Taj, who brings 19 years of experience, to ensure a structured and expert-led practice. Along with facilitating the yoga session, the initiative also featured an insightful address by a distinguished alumnus who spoke about addiction and its impact, blending physical recovery with mental and social awareness. The event reflected the spirit of health consciousness, social responsibility, and holistic values upheld by NSS, encouraging participants to actively engage in habits that contribute to the welfare of society.



Mastering GATE – Tips, Strategies, and Career Opportunities

Events

Speakers: Mr. Venkatesh V – SRF, Department of Management Studies, IISc

Ms. Divyanjaly C K – JRF, Sustainability Research Lab, Department of Management Studies, IISc

The session titled “Mastering GATE – Tips, Strategies, and Career Opportunities” was successfully conducted on 12th August 2026 from 10:15 AM to 11:15 AM at the 4th Floor AV Hall, CMR Institute of Technology, Bengaluru. The event was organized by the Higher Studies Club – The EE&C Cell for 7th Semester students, with the objective of providing students with valuable guidance on GATE preparation, higher studies, and research opportunities.

The session featured Mr. Venkatesh V, SRF, Department of Management Studies, IISc, who holds a B.E. in Mechanical Engineering and M.E. in Industrial Engineering, and Ms. Divyanjaly C K, JRF, Sustainability Research Lab, Department of Management Studies, IISc, who holds a B.Tech in Computer Science and Engineering and M.Tech in Industrial Engineering.

The primary objective of the session was to help students understand how the GATE examination can act as a bridge to higher studies, research, and diverse career opportunities. The speakers shared their academic and research journeys and provided students with practical insights into planning their careers after graduation.

The session covered important aspects of GATE preparation, effective strategies, specialization selection, and opportunities available through GATE at premier institutions such as IITs and IISc. Students were also introduced to various pathways including M.Tech, PhD, JRF, SRF, and research-oriented careers.



World Entrepreneurs Day

**Organized by: Institution's Innovation Council (IIC) – CMRIT
Department of Electronics and Communication Engineering (ECE)**

CMR Institute of Technology

Events

The event was organized to commemorate World Entrepreneurs Day and to create awareness among students about the spirit of entrepreneurship, innovation, and self-reliance. The session aimed to inspire students to think beyond conventional career paths, understand the entrepreneurial journey, and appreciate the role of entrepreneurs in driving economic growth and societal change. The event also encouraged students to cultivate an innovative mindset, risk-taking ability, and problem-solving skills essential for building successful ventures.

Benefits / Key Takeaways:

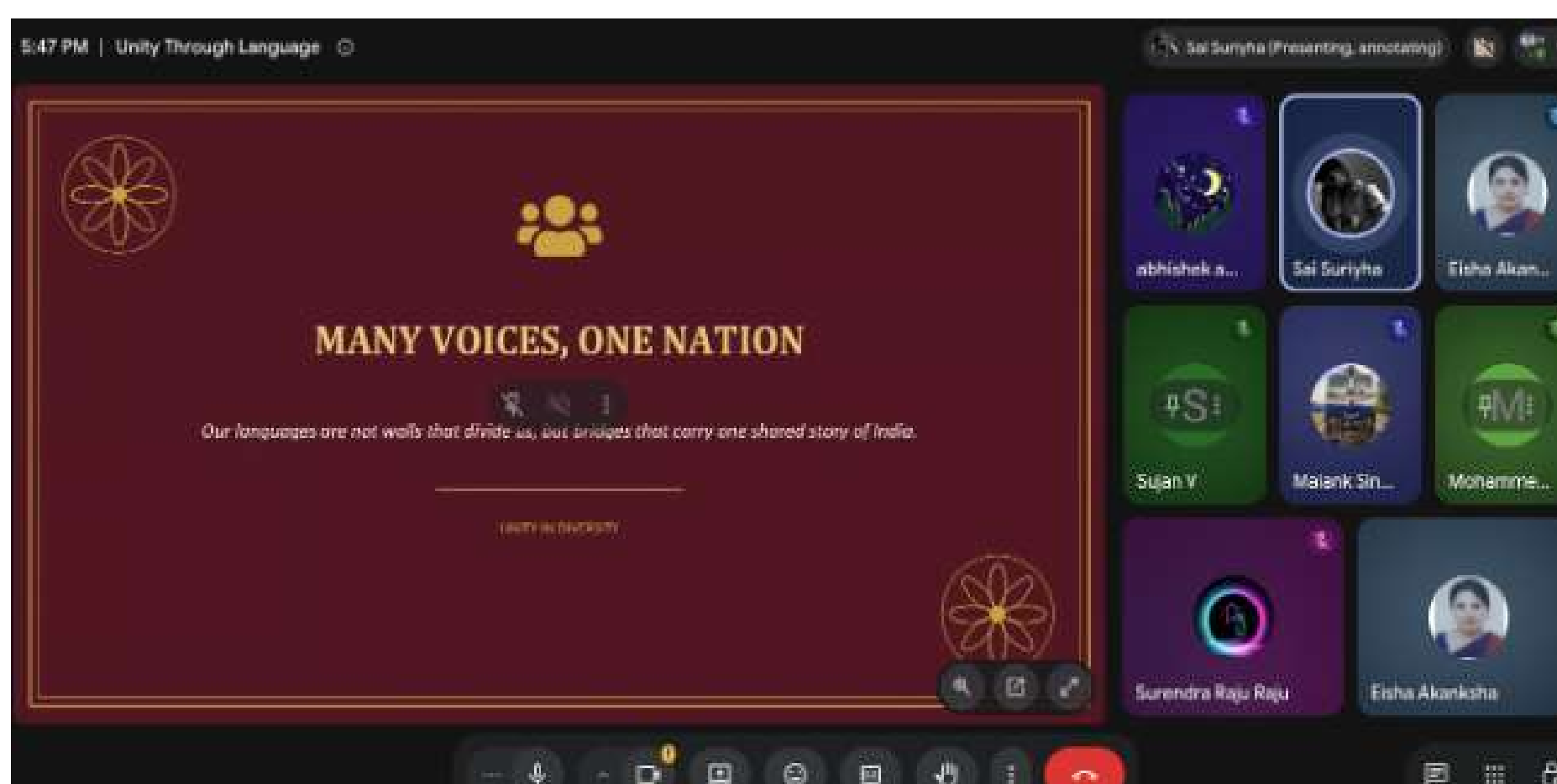
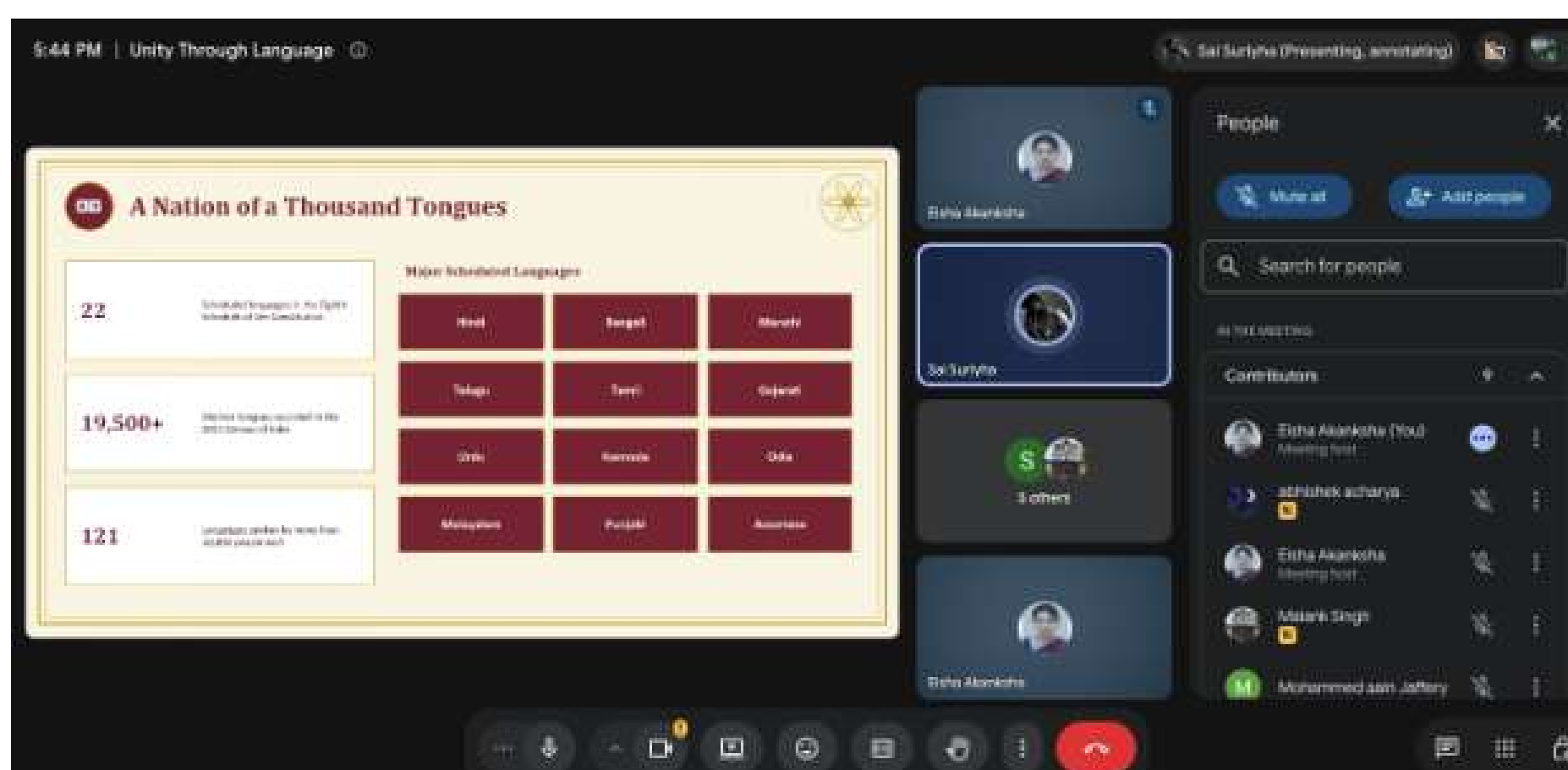
- Improved awareness about the importance of World Entrepreneurs Day
- Understanding of the entrepreneurial mindset and journey
- Motivation to explore start-up and entrepreneurial opportunities
- Exposure to incubation, mentorship, and funding avenues
- Enhanced knowledge about the innovation and start-up ecosystem
- Encouragement to develop problem-solving and risk-taking abilities
- Inspiration to contribute toward entrepreneurial and economic development



Unity Through Language Conducted on 27/08/2026 by EBSB

Events

The EBSB Club of CMR Institute of Technology organized a cultural program titled “Rang Sanskriti: Indo-Nepal Cultural Showcase” on 30/04/2026. The event was conducted with the objective of celebrating the rich cultural heritage, traditions, art forms, and values shared between India and Nepal. Students enthusiastically participated in various cultural activities, including traditional music, dance performances, presentations, and interactive sessions highlighting the customs and lifestyles of both nations.



External Interaction Data

Events

S.No	Name	Event Name	Date	Venue	Attended as (Conf. chair, speaker..etc.)
1	Dr. K Chitra	1. 4th BOS Meeting at Shree Venkateswara Hitech Engineering College, Tamilnadu 2. 5th BOS Meeting at Shree Venkateswara Hitech Engineering College, Tamilnadu 3. 6th BOS Meeting at Shree Venkateswara Hitech Engineering College, Tamilnadu	1. 11th July 2025 2. 24th Dec 2025 3. 13th June 2026	Shree Venkateswara Hitech Engineering College, Tamilnadu	BOS Member - Subject Expert
2	Dr. Pappa M	1. UBA Project Implementation - Governmen Primary School, Kuruuru 2. Leading with Heart Woorkshop - CMR University	1. 31.10.2025 2.12th and 13th December	1. UBA Project Implementation - Governmen Primary School, Kuruuru 2. Leading with Heart Woorkshop - CMR University	1. Principal Investigator of the Project 2. Participant
3	Dr. Sharmila K P	1) As speaker to deliver seminar on Building an Impressive Profile for Studying Abroad to IDP Education India Pvt. Ltd 2)As resource person to conduct training on “Enhancing Your Profile: A Guide to Higher Studies for Engineering Students” to Edwise overseas Education 3) Leading with Heart Woorkshop -	1) 2/4/2026 2) 28/9/2025 &29/9/2025 3)16/1/2026 & 17/1/2026 4)Apl 17-20,2026	1. IDP Education, Whitefield 2. Edwise overseas,Dickenson road 3. CMR University 4. CMR University	1) speaker 2) Resource person 3)participant 4)participant
4	Dr.Meenakshi Patil	1) Entrepreneurship and Innovation for Sustainable Development Goals 2) Workshop on promoting Innovation in HEI	1) 25/08/2025 2) 11/11/2025	1) MITS DEEMED TO BE UNIVERSITY, MADANPALLE 2) Dr JJMCOE JAYSINGPUR	Speaker
5	Dr. K Venkateswaran	1)External Interction-M/S Technilab Instruments 2)External Interaction-Invited Lecture	1) 07/03/2026 2)08/05/2026	1) Technilab Instruments, Bengaluru - 560033 2)Online-Invited Lecture	1) Technical Demonstration - Academy Industry Interaction 2)Invited Speaker
6	Dr Eisha Akanksha	1. Visit to AIML labs regarding project requirements and exeution disussion (For consultancy services) 2. Visit to AIML labs regarding project Deliverables discussion (For consultancy services) 3. Visit to Meltronics Systech- Discussion on the project Video Test Generator (for stuents)	16-12-2025 16th April, 2026. 16-6-2026	AIML Labs Bangalore, Marathalli, Bangalore AIML Labs Bangalore, Marathalli, Bangalore Meltronics Systech, AECS Layout, Brookfields, Bangalore	Resource person Resource person Attendee
7	Dr. Naveen Kumar G N	1. RESOURE PERSON : CONDUCTED WORK SHOP ON IDT 2. Design and Development of Flat Panel Phased Array Antennas for Wireless and Satellite Communication Applications’. 3.Design Thinking Exposure Program for PWD Assisitive Innovations”	1). 08-10-2025 2).19 December, 2025 3).28-02-2026	1.RR INSTITUTE OF TECHNOLOGY BENGALURU 2. Organizer: IEEE IISc MTT/AP-S Student Branch Chapter BENGALURU 3.“Samarthunum Trust for PWD HSR Bengaluru”	RESOURCE PERSON : SPEAKER
8	Dr Sridhar N	CBSE Regional Science Exhibition 2025-26	1) 25/11/2025 - 26/11/2025 2) 07/03/2026 3) 07/05/2026	1) Sri Sri Ravishankar Vidya Mandir, Bangalore East 2) Technilab Instruments, Bengaluru - 560033 3) Nagarjuna College of Engineering & Technology, Bengaluru - 562164	1) Judge 2) Technical Demonstration - Academy Industry Interaction 3) Jury Member in IKYA-2026, AI ATRO Event.
9	Dr. Susheel	1. Attended IEEE Int. Conference on Knowledge Engineering and Communication Systems, Chikaballapur hosted by SJCIT, Chikaballapur 2. National Space Day 2025 3. Expert Session on	24th April 2026 20th Aug 2025	1. SJCIT, Chikaballapura 2. Liquid propulsion system centre,ISRO, Bangalore 3. K C College of Engineering and Management Studies and Research, Thane, Maharashtra	1. Paper Presenter 2. Representing CMRIT at Open House Program by ISRO 3. Guest Speaker
10	Dr.Viji K	1. “ISRO Academia Day 2025” 2. Doctoral Committee Meeting 3. “Leading with Heart” workshop	1. 16/12/2025 2. 17/12/2025 3. 16th and 17th Jan 2026	1. ISRO Head Quarters, Bangalore 2.The Oxford College of Engineering, Bommanahalli. 3. CMR University.	1. Participant 2.Domain Expert 3. Participant
11	Dr. Mahesh Kumar Jha	1. Track Chair - IEEE CONECCT 2025 - Bangalore Section 2. IEEE Future Network World Forum (FNWF)- 3. One Day Workshop for VTU Internship Implementation Coordinator's at BMSCE 4. Internship Coordinators meeting at VTU regional office	1. 13 July 2025 2. 12 Nov. 2025 3. 28 Jan. 2026 4. 18 Jul. 2025	1. Sterling's Mac Hotel, Bengaluru 2. Sheraton Grand Hotel, Bengaluru 3. BMSCE Bengaluru 4. VTU Regional Office, Nagarbhavi, Bengaluru	1. Track Chair 2. Organiser of PhD EDITS/FNWF 2025 3. Participant 4. Participant

External Interaction Data

Events

12	Dr. Sridevi.S	1.QP setting -Dayananand Sagar 2. Resource person in FDP/STTP - 5-days Faculty Development/ Short Term Training Program on Empowering Educators and Researchers: Navigating Patents, Copyrights, and Trademarks in AI-Enhanced Learning Environments"	1.29/11/2025 2.Dec 30,2025 & Dec 31st 2025	1. Online 2. Online(FDP national level with 57external participants 3. Seminar on Basics of IPR at Genius Global School,Bangalore	1. QP setter 2.Resource person 3.Resource Person
14	Dr.Sutapa Sarkar	1. Visit to AAI Gagan Facility, Bengaluru 2. VTU Valuation 3. Practical Examination	1. 11th February, 2026 2. 24th and 25th February, 2026 3. 18th June, 2026	1. AAI Gagan Facility Bengaluru 2. Cambridge College 3. East Point College	1. Interaction with External Resource for possible internship Opportunities 2. VTU Valuator 3. Practical Examiner
15	Prof.Suganya Jeyaprakash	1. Visit to AAI Gagan Facility, Bengaluru 2. VTU Valuation	1.11th February, 2026 2. 1st July to 2nd July 2025 3. 29th Jan 2026	1. AAI Gagan Facility Bengaluru 2. Cambridge Institute of Technology 3. Cambridge Institute of Technology	1. Interaction with External Resource for possible internship Opportunities 2. VTU Valuator 3. VTU Valuator
16	Prof.Monika Singh	1. ISAC:3GPP persepective and the use cases in 6G 2. Valuator 3. Practical examier	1. 21st March	1. Reliance JIO Infocom, Outer ring Road. 2.Cambridge Institute of Technology, Bengaluru. 3. Gopalan College of Engineering, Bengaluru1.	1.Valuator 2. Practical examier 3. 1-day Workshop
17	Prof.Krishna Teja Yadav C H T	1. National Space Day'2025 2. Certification program for 5G/6G wireless communication simulations	20-Aug-2025 01/09/25 to 26/09/25	1.open house exhibition at Liquid propulsion system centre,ISRO 2. Online	1. Invitation to faculty on National Space Day 2. Attendee
20	Prof.Abhishek Javali	1. Valuation of Technological Innovation & Management and Entrepreneurship (BEC501) answer scripts 2. External examiner for the lab communication lab (BECL404) at SEA College of Engineering, Bengaluru	5/1/2025 to 8/1/2025 (3-days) 12/1/2025 (1-day)	Ramaiah University of Applied Sciences, Bengaluru Cambridge Institute of Technology, Bengaluru. SEA College of Engineering, Bengaluru	1. External examiner for project exhibition in Ramaiah University 2. Valuator 3. Practical examier
21	Prof.Ashutosh Srivastava	1. Attending Quantum India Bengaluru (QIB) international conference 2. Drone expo Bengaluru	1. 07/08/2025 2. 17/04/2026	1.U Rao auditorium Jawaharlal Nehru Planetarium bangalore 2. BIEC,10th Mile, Tumkur Road, Madavara Post, Bangalore - 562 123, Karnataka	1.Invitation for faculty for Curtain Raiser 2.Attended as D&R COE Head, CMRIT
21	Prof.Sophiya S Susan	1. Research Conclave -2025 at DSCE offline 2. Valuation of VLSI Design and Testing (BEC602) answer scripts 3. IEEE SSCS Distinguished Lecture on"Acceleration of Encryption Algorithms, Elliptic Curve, Pairing, Post-Quantum Cryptalgorithm (PQC), and FullyHomomorphic Encryption (FHE)"	9-07-2025 to 10-07-2025	1.Research Conclave -2025 at DSCE 2. Cambridge Institute of Technology, Bengaluru. 3. IEEE-IISc VLSI Chapter Online	1. Attende 2. Valuator 3. Attende
22	Dr.Ananth Kumar M S	1) Valuation of Consumer Electronics (BEC654B) answer scripts, 2) College Promotion at Palace grounds for Asianet edu expo on 20-12-2025.	1) 18-07-2025 to 19-07-2025, 2) 20-12-2025	1) Cambridge Institute of Technology, Bengaluru. 2) Palace Grounds, Bangalore.	1) Valuator, 2) Admission Promotion.
23	Dr. Susmitha Alamuru	1) Technical Demonstration of our COE PROJECT Cancer grading tool to a DOCTOR. 2) Industrial Visit to Airport Authority of India 3) FDP 4) Faculty enablement program and Certification by Infosys Spring board	1. 3-3-2026 2. 12-3-2026 3. September 8-12, 2025 4.6-1-2026	1.Sai Mukunda Clinic,3rd main ,BEML lay out 2. Airport Authority Of India ,Gagan Complex 3.New Horizon College of Engineering,(Online)	1. Speaker 2. Faculty coordinator 3. Participant 4.Participant
26	Dr.Parthasarathy	1. Resource Person: Two-Day Seminar on Microbial Culture Techniques and Related Practices, held on 27th & 28th October 2025, organized by EEB Design and Consultancy Services Pvt. Ltd., Chennai 2. Session Chair - Sustainable Energy and Environmental Solution Conference, King Khalid University, KSA 3. Guest Speaker - International Lecture Series in KKU, KSA	1. Oct 27-28, 2025 2. Dec 9-10, 2025 3. March 25-26, 2026	1. EEB Design and Consultancy Services Pvt. Ltd., Chennai 2. KKU, KSA (Online) 3. KKU, KSA (Online)	1. Guest Speaker 2. Session Chair 3. Guest Speaker
28	Dr.D.Kavitha	1. IEEE International Conference on Women in Innovation, Technology and Entrepreneurship, 2025 2. VTU Valuation Proof 3. King Khalid University - Guest speaker for online Lecture series	1. 26th and 27th September , 2025 2. 24/06/25-25/06/25 3. 25/03/2026	1. B.G.S College of Engineering, Bangalore 2. Cambridge Institute of Technology, Bangalore 3. King Khalid University (online)	1. Session chair 2. VTU Evaluator 3. Guest Speaker

Students induction program- 7th Sem

Events



VOICES, MEDIA & SPECIAL HIGHLIGHTS

01

**Student Testimonial
, Faculty Technical
Article**

02

**News Gallery / Media
Coverage**

03

**Special Occasions &
Informal Activities**

04

**Other Notable
Highlights, Closing /
Department Address**

Student Testimonial



My journey at CMR Institute of Technology has been an enriching experience filled with learning, exploration, and personal growth. As a fourth-year Electronics and Communication Engineering student, I am grateful for the opportunities CMRIT provided beyond the classroom through hackathons, workshops, industrial visits, technical activities, clubs, and competitions.

I am especially thankful to my faculty members for their constant guidance and encouragement, with special gratitude to Dr. Pappa, whose support motivated me to explore opportunities beyond academics. My involvement in IEEE activities, theatre, clubs, and event organisation strengthened my communication, teamwork, leadership, and adaptability.

One of my most memorable milestones was being selected as an Integration Engineer Intern at ODDR. This achievement marked an exciting transition from campus life to the professional world.

I will always cherish my CMRIT journey and carry forward the knowledge, confidence, friendships, and experiences gained here. I encourage every student to embrace opportunities, step beyond their comfort zone, learn from failures, and make every moment count.



Ms. Arniya S

Final Year Student

05.09.2026

Photonic Sensors: Advancing Precision Through Light-Based Technologies



Photonic sensors represent a cutting-edge class of sensing technologies that utilize light as the primary medium for detecting and measuring a wide range of physical, chemical, and biological parameters with extraordinary accuracy and reliability. Unlike traditional electronic sensors that rely on electrical signals and are often susceptible to electromagnetic interference, photonic sensors operate by analyzing variations in optical properties such as wavelength, intensity, phase, polarization, and refractive index resulting from light-matter interactions. These characteristics make them exceptionally suitable for high-precision, high-speed, and remote sensing applications in complex or harsh environments. One of the most widely implemented photonic sensing techniques is the optical fiber sensors, which offers an exceptional sensitivity, immunity to electromagnetic interference, capability for long-distance remote monitoring, and suitability for real-time structural, environmental, and biomedical sensing applications. Similarly, Surface Plasmon Resonance (SPR) sensor's function is based on the excitation of surface plasmons at metal-dielectric interfaces and are highly sensitive to minute refractive index variations, making them powerful tools for label-free biochemical detection, environmental monitoring, and medical diagnostics. Recent advancements in integrated photonics have further miniaturized these sensing platforms into compact lab-on-chip systems, combining optical waveguides, microfluidic channels, and nanostructured materials to achieve portable and cost-effective diagnostic solutions.

The incorporation of emerging two-dimensional materials such as graphene, MoS_2 , WS_2 , and MoSe_2 into plasmonic and photonic architectures has significantly enhanced light confinement, absorption efficiency, and sensor sensitivity, thereby improving detection limits and overall performance. Moreover, the integration of artificial intelligence and machine learning algorithms with photonic sensing platforms has enabled intelligent signal processing, pattern recognition, and predictive analytics, reducing noise and increasing measurement reliability in real-world scenarios. At our institution, research efforts led by Dr. Abinash Panda focus on the design and theoretical investigation of optical fiber sensors and hybrid SPR-based biosensors incorporating advanced 2D materials for label-free detection of biomolecules, including hemoglobin and sucrose concentration analysis, aiming to develop cost-effective, high-performance sensing platforms suitable for real-world deployment.

yours,

Dr. Abinash Panda

Associate Professor, Dept Of ECE, CMRIT

OTHER NOTABLE OCASSIONS



**TEAM LUNCH AT SPICE STUDIO
AECS LAYOUT ON 17 JUNE 2026.**

ECE DEPARTMENT





DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

**HALF-YEARLY NEWSLETTER
MARCH 2026 – AUGUST 2026**

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