



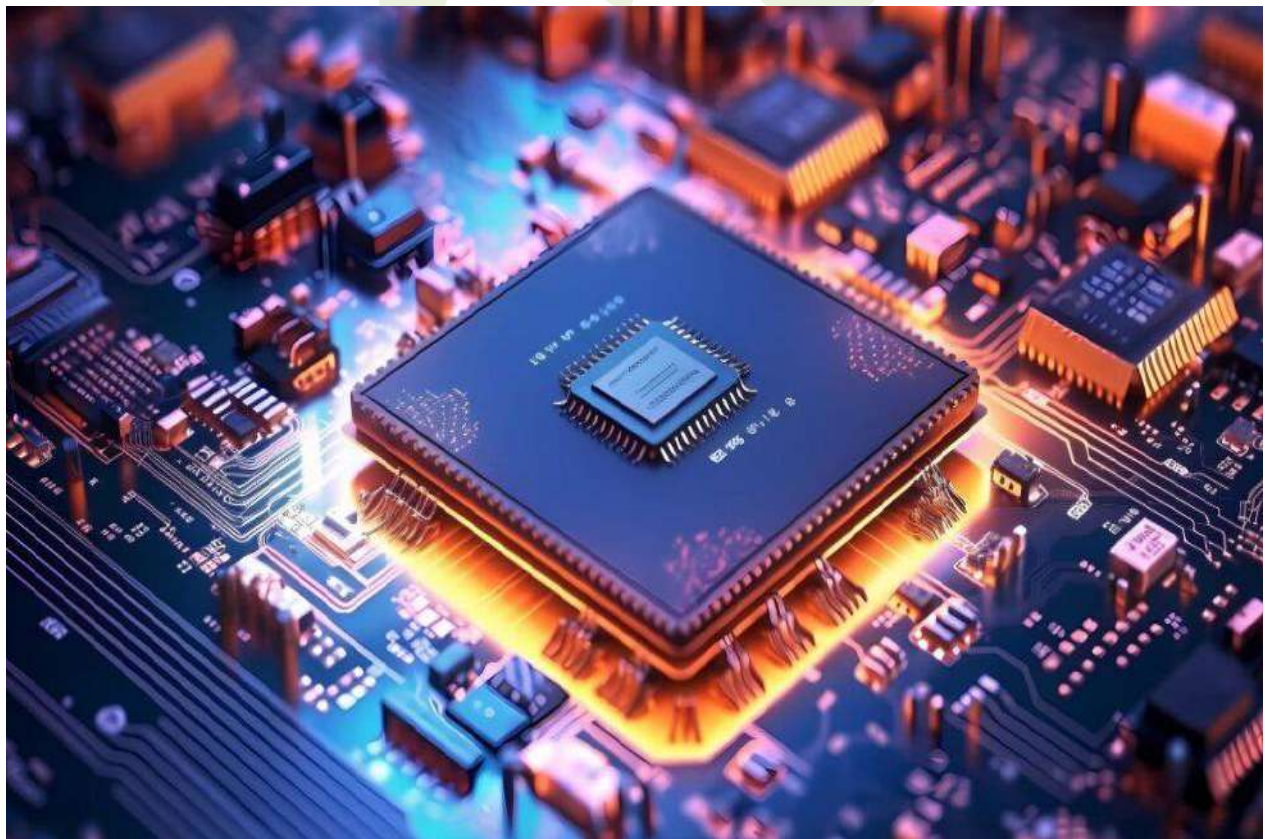
**KPR** Institute of Engineering  
and Technology

(Autonomous)

Avinashi Road, Arasur, Coimbatore - 641 407

**Department of Electronics and Communication Engineering**  
(Accredited by NBA)

**Volume No.11 - Issue 2**



## EDITORIAL BOARD

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## **Vision**

To be a center of excellence for education, research and development in the field of Electronics and Communication engineering to meet the growing needs of society.

## **Mission**

- Develop competencies in emerging technologies through skill-based education collaborating with industries of repute
- Provide conducive environment for research and innovation to cater to the needs of society
- Inculcate professionalism, ethical values and lifelong learning

## **Program Educational Objectives**

- PEO1: Apply principles of Electronics and Communication Engineering to provide solutions to the emerging problems in society.
- PEO2: Embrace technological challenges through skill upgradation or higher education or research.
- PEO3: Exhibit leadership qualities with professional and ethical values

## **EVENTS ORGANIZED**

### **Massive MIMO with Terahertz Bands for 6G Communication**

The Department of Electronics and Communication Engineering (ECE), KPR Institute of Engineering and Technology, organized a Guest Lecture on “Massive MIMO with Terahertz Bands for 6G Communication” on 30th October 2025 from 11:00 AM to 01:00 PM at D-106. This department-level program, aligned with SDG 4: Quality Education and SDG 9: Industry, Innovation and Infrastructure, was conducted for students and coordinated by Dr. Gurumoorthy K. B (EC111). A total of 44 internal students participated in the session.

The expert lecture was delivered by Dr. M. Vasim Babu, Assistant Professor, Madras Institute of Engineering, Anna University, Chennai. The session focused on the emerging advancements in 6G communication technologies, particularly the role of Massive MIMO systems and Terahertz frequency bands in enabling next-generation wireless communication networks. The resource person explained the architecture, operating principles, and advantages of Massive MIMO technology in achieving ultra-high data rates, enhanced spectrum efficiency, reduced latency, and intelligent connectivity for future communication systems. The lecture also highlighted the significance of terahertz communication in supporting futuristic applications such as autonomous systems, smart cities, holographic communication, and high-speed wireless networks. Participants gained insights into current research challenges, technological innovations, industrial trends, and future opportunities in 6G communication systems. The interactive session enhanced students’ understanding of advanced wireless technologies and motivated them to explore research and career opportunities in modern communication engineering.

Overall, the event was highly informative and successfully bridged theoretical concepts with practical and industrial perspectives in the field of next-generation communication technologies.



## **Enhancing Network Security Through Virtual Private Networks (VPN)**

The Department of ECE, KPR Institute of Engineering and Technology, organized a Guest Lecture on “Enhancing Network Security Through Virtual Private Networks (VPN)” on 31st October 2025 from 09:30 AM to 11:00 AM at D-210. Conducted as a department-level activity aligned with SDG 4: Quality Education, the session was coordinated by Dr. Gurumoorthy K.B. and attended by 57 students. The lecture was delivered by Dr. M. Vasim Babu, who shared insights into VPN technologies and network security.

The session provided an overview of VPN architecture, encrypted communication, tunneling protocols, authentication mechanisms, and secure data transmission. Students learned about remote access and site-to-site VPNs, their applications in corporate and cloud environments, and their role in ensuring privacy and cybersecurity. Real-world examples demonstrated how VPNs protect sensitive information, prevent unauthorized access, and support secure communication. The

interactive session enhanced students' understanding of modern network security practices and encouraged interest in advanced areas of cybersecurity and networking.



## **Demystifying Smartphone Diagnostics**

The Department of ECE, KPR Institute of Engineering and Technology organized a One Credit Course (OCC) on “Demystifying Smartphone Diagnostics” on 12th December 2025 from 09:00 AM to 04:15 PM at the MBC Lab. Conducted as a department-level activity aligned with SDG 4: Quality Education, the program was coordinated by Mr. Jakir Hussain G.K. and delivered by Dr. B. Krishnakumar.

The course focused on smartphone diagnostic tools and troubleshooting techniques used to identify hardware and software issues, including battery, display, charging, sensor, and motherboard faults. Students learned systematic fault detection, preventive maintenance, device optimization, and repair methodologies through practical demonstrations and interactive sessions. The program enhanced participants' understanding of mobile electronics and servicing practices, providing valuable industry-oriented skills in smartphone diagnostics and maintenance.



## **Electronic Design Automation Tools: CADENCE and Vivado**

The Department of ECE, KPR Institute of Engineering and Technology (KPRIET), organized a Two-Day National-Level Workshop on “Electronic Design Automation Tools: CADENCE and Vivado” on 18th and 19th December 2025 in hybrid mode. Aligned with SDG 4: Quality Education, the workshop aimed to provide students with industry-oriented knowledge and hands-on experience in VLSI and FPGA design. The event was coordinated by Dr. Indra J and Ms. Supriya M.

The workshop featured sessions by Ms. Yogeshwari, Dr. J. Muralidharan, and Dr. J. Prasad, who introduced participants to ASIC and FPGA design flows using Cadence and Xilinx Vivado tools. Topics covered included Verilog/VHDL programming, RTL design, synthesis, simulation, timing analysis, FPGA implementation, and verification methodologies.

A key highlight was the hands-on training, where students worked on real-time digital design examples, gaining practical experience in logic synthesis, waveform analysis, debugging, and hardware implementation. The workshop successfully bridged academic learning and industry practices, enhancing participants' understanding of semiconductor design technologies and motivating them to explore careers and research opportunities in VLSI and FPGA design.



## **FACULTY PUBLICATIONS**

- Sabarmathi, K.R., Kalamani, M. Scientific retrieval: an effective heuristic-aided multi-scale adaptive transformer network for information retrieval process from scientific publications. *Knowl Inf Syst* 67, 8377–8415 (2025). <https://doi.org/10.1007/s10115-025-02458-7>
- Sharmi Ganguly, Joydip Sengupta, and Chaudhery Mustansar Hussain published a paper on “Advances in Paper-Based Ammonia Sensors in Environment: Sustainable Materials, Nanotechnology Integration, and Smart Analytical Platforms” in *Earth: Environmental Sustainability* (October 2025). This review highlights recent breakthroughs in sustainable, low-cost paper-based ammonia sensors using natural dyes, nanomaterials, and conductive polymers across colorimetric, electrochemical, and chemiresistive analytical approaches to

monitor food quality and environmental safety.

<https://www.sciltp.com/journals/eesus/articles/2509001385>

- Nagarajan, Ramavenkateswaran, Dr K Kalirajan, and Peer Mohamed Appa. "Approximate Booth Multiplier for Error-Tolerant Computing." International Research Journal of Multidisciplinary Scope (IRJMS), 2025; 6(4):780-800
- Leelavathi, R., Kalamani, M. Medicinal plant leaf disease classification using optimal weighted features with dilated adaptive DenseNet and attention mechanism. Sci Rep 15, 36852 (2025). <https://doi.org/10.1038/s41598-025-20629-y>
- Mythili, S., and M. Kalamani. "Spectral Congestion Alleviation using RF Integrated Optical System with Optimization Based Dynamic Carrier Switching." Tehnički vjesnik 32, no. 6 (2025): 3004-3012.
- Abinaya, M., and M. Kalamani. "Pancreatic Tumor Detection in Computed Tomography Images Using Rotary Positional Siamese Vision Transformer." (2025).
- Manoharan, Singaram, Satheeshkumar Palanisamy, Jagadesh Thirugnanasambantham, Sathishkumar Nallusamy, Santhoshi Manivannan, Sghaier Guizani, and Habib Hamam. "Dual Band Frequency Selective Surface for EMI Shielding in 5G Communications." Mathematical Modelling of Engineering Problems 12, no. 10 (2025).
- A.Roopasree, Dr.A.Babiyola, N.Gopi, NikeshT Gadare, Dr.K.Murugan, published a book titled "Signals and Systems" at Global Aasan Publication, October 2025.
- Hakkem B, Roopasree A, Supriya M, K Packiyam, R.Dinesh kumar, published a book titled "A comprehensive and Integrated approach for Embedded Systems" at Global Aasan Publication, November 2025.
- P Pandiyan, R Senthil Kumar, S Saravanan, P Balakumar, published a book chapter titled "Economic Aspects and Life Cycle Assessment in Energy Storage Systems" on October 2025.

- P. Prasant, J. Dafni Rose , G. Pradeepkumar , T. Shanmugaraja and P. Janardhan Saikumar, published a book chapter titled “Machine learning algorithms for enhanced medical image analysis and diagnostics” on October 2025.
- Palanisamy, SatheeshKumar, Maha Abdelhaq, and N. Sathishkumar. "6G-enabled qubit-based concealed communication with AI-driven breach detection in autonomous fleets." Scientific Reports 15, no. 1 (2025): 43194.
- Aziz, F., Bhattacharya, R., De, A. et al. Deep Learning Based In-Silico Water Level Prediction and IoT Based Monitoring System. Water Resour Manage 40, 68 (2026). <https://doi.org/10.1007/s11269-025-04463-5>
- Jacqueline, S. Jeyam, D. Venugopal, and S. Joe Patrick Gnanaraj. "Experimental investigation, optimization and IoT-based monitoring for enhanced yield in single basin solar still systems." Desalination and Water Treatment (2025): 101424.
- Srinivasan, N. R., T. S. Anju, and Anish Antony. "Tree-based machine learning model to predict the performance of heavy metal removal by sulfate-reducing bacteria." Bioresource Technology Reports (2025): 102362.
- G.Sekar , keerthi, k.subakeerthana, M.Naveena, Nikitha, Nishandhinee, Prasad J, Sreeshika, Udhaya, published a patent titled “Waste water treatment using electro coagulation” on 13<sup>th</sup> November 2025. Application No:202541110595 A
- Dr. K. Murugan, published a patent titled “AI driven cyber security framework for automated threat detection and mitigation” on 23<sup>rd</sup> November 2025. Application No: 202531115780.
- Dr.B.Jai shankar, published a patent titled “A system and method for image super resolution using enhanced generative adversarial networks” on 11<sup>th</sup> November 2025. Application No: 202541109254.
- T.S.Anju, published a patent titled “Chebyshev Polynomial-Based Lightweight Batch Authentication And Blockchain-Enabled Key Agreement For Vanets” on 11<sup>th</sup> November 2025. Application No: 202541109254.
- Vivek Marotrao Korde,Mrs. Sangeetha Gopinath,Mrs. S. Kavitha,Dr. A. Mary Beula,Mr. M. Syed Abdul Salam,Dr. S. M. Ramesh,Dr. T. Vinod Kumar,Preetha Kamath B,Dr. M. Monisha,Prof. Dr. Trilok Kumar Jain, published a patent titled

“Low-Power Biomedical Signal Classifier Using Neuromorphic VLSI Circuits for Portable Diagnostic Devices” on 3rd November 2025. Application No: 202521106037A.

- Dr Rajesh Kumar Dhanaraj, Mr Balasamy K, Ms Suganyadevi S, Dr Umapriya, Mr Rohan J, published a Book titled “Generative AI for Personalized Learning” Taylor & Francis, on November 2025.

### **GRANTS RECEIVED**

- Automation of Lawn Sprinkler using IoT and Mobile App – Approved project funded by UBA-WRM with a grant of ₹1 Lakh, led by Dr. M. Kalamani and Dr. R. Jaikumar.
- Automated Pipeline Leakage Detection and Control System for Sustainable Rural Development and Enhanced Water Quality Management – Approved project funded by UBA with a grant of ₹1 Lakh, led by Dr. V. Seethalakshmi.
- Smart Grain Safe: Low-Cost Environmental Monitoring System for Reducing Post-Harvest Losses – Approved project funded by IEEE Humanitarian Technologies (IEEE HT) with a grant of USD 3,000, led by Mr. D. Ram Nivas and Dr. T. Venkatesh.
- Spark 2025 – Project funded by IEEE Humanitarian Technologies (IEEE HT) with a grant of USD 2,700, led by Dr. T. Venkatesh and Dr. Finney Daniel.
- One Week National-Level Workshop on “AI-Driven Antenna Design and Optimization by Integrating Machine Learning, Deep Learning, and Electromagnetic Intelligence for Future Wireless Systems” – Funded by ANRF with a grant of ₹2.5 Lakhs, coordinated by Dr. V. Seethalakshmi and Dr. Arijit De.
- Smart Grain Safe: Low-Cost Environmental Monitoring System for Reducing Post-Harvest Losses – Project funded by IEEE with a grant of USD 3,000 (USD 1,500 received initially), led by Mr. D. Ram Nivas and Dr. T. Venkatesh.
- IEEE ComSoc – Membership Retention and Engagements – Project funded by IEEE Communications Society (ComSoc) with a grant of USD 500, led by Dr.

S. Finney Daniel Shadrach and Dr. D. Venugopal, approved/received on 24 November 2025.

- Circuits, Robots & Drones: A Hands-On STEM Workshop for School Children – Project/workshop funded by IEEE Circuits and Systems Society (CASS) with a grant of USD 200, led by Dr. J. Indra received on 12 December 2025.

### **STUDENT PARTICIPATION**

<b>S.No</b>	<b>Event Name</b>	<b>No of students participated</b>
1	Online course (NPTEL, Azure, Oracle, etc.)	24
2	Workshop (Cadence, RTL Design, SoC, etc.)	2
3	Contest (Quiz, Hackathon, Coding, etc.)	29
4	Paper presentation	5
5	Internship / Virtual Internship	2
6	Project Presentation / Project Expo	2
7	NSS, YRC, Volunteering activities (IEEE Day)	1

### **STUDENT ACHIEVEMENT**

<b>S.NO</b>	<b>Name of the Student(s)</b>	<b>Achievements / Activities /Awards</b>	<b>Title of the Event</b>	<b>Organized by (Name of the college and club)</b>
1	Abishek M	Technical Event	8th EAI Intl. Conf.	KPRIET
2	Arjun V	Technical Event	8th EAI Intl. Conf.	KPRIET

3	Dhanishkumar E	Quiz Activity	TATA Crucible Quiz 2025	KPRIET
4	Gokul M	Hackathon	GCC-X-SHIFT 2025	KPRIET
5	Harish Kumar S	Volunteering	IEEE Day Volunteering	KPRIET
6	Indhumadhi V	Activity	Coordinator	KPRIET
7	Kanishka M	Technical Event	Monitoring & Evaluation	KPRIET
8	Muberekwa Fortune F	Hackathon	Hackorbital	IIST
9	Nehaa M R	Technical Event	CONSCIENTIA 25	IIST
10	Pravin P	Technical Event	conscientia 2025	IIST
11	Riswandh S S	Technical Event	CONSCIENTIA 2025	IIST
12	Riswandh S S	Technical Event	Techno Crib 2025	Rajagiri Business School
13	Rubika N	Activity	Socialis Impulsum 5.0	KPRIET
14	Sitnison E	Technical Event	Conscientia	IIST
15	Monithvikram S	Hackathon	HACKOVATION 2.0(graVITas 2025)	VIT Vellore
16	Nishanth L	Sports Activity	AU Athletic Zone	CIT (Coimbatore)

## STUDENT PARTICIPATION

<b>S.N O</b>	<b>Name of the Student(s)</b>	<b>Achievements / Activities /Awards</b>	<b>Title of the Event</b>	<b>Organized by (Name of the college and club)</b>
1	Abishek M	Participation	ASME TN- NOVATE 2.0	Sri Ramakrishna Institute
2	Akhilesh P	Participation	NeuraNest 2k25	KPRIET
3	Akhilesh P	Participation	BARNSTROMZ- 2K25	Hindustan College
4	Arun Prassath G K	Participation	EnigmaXplore 3.0	IJET Nagpur
5	Arun Prassath G K	Participation	Sensonics 2025	Kongu Eng.College
6	Ashwin Sanjay P	Participation	Tatva's HackWave 1.0	KPRIET
7	Aswath S	Participation	NEURANEXUS 2K25	KPRIET
8	Baskar M	Participation	ASME TN- NOVATE 2.0	Sri Ramakrishna Institute
9	Daslin Princy A	Participation	Innovate-a-thon	KPRIET
10	Dikshith L	Participation	NeuraNexus	KPRIET
11	Gokulan S	Participation	Infovs 25	KPRIET
12	Gowthama Chandran S	Participation	ENKA2K25	AU Regional Campus
13	Hari Prakash U	Participation	SENSONICS	Kongu Eng. College
14	Harish Kumar S	Participation	ASME TN- Novate 2.0	Sri Ramakrishna Institute
15	Ilakkiya V	Participation	IPM Nexus 25	KPRIET

16	Janani A	Participation	Tatva's HackWave 1.0	KPRIET
17	Jayasurya Dr	Participation	Barnstromz	Hindustan Institute
18	Kavin Soorya S	Participation	Barnstromz	Hindustan Institute
19	Nithya Shree C	Participation	EKNA'25	AU regional campus
20	Praveena P	Participation	Shristi 2k25	PSG College of Tech
21	Pravin P	Participation	srishthi 2025	PSG College of Tech
22	Ragavappran esh S	Participation	SHRISTI 25	PSG TECH
23	Shri Soumitra K S	Participation	SHRISTI 25	PSG TECH
24	Vishva S	Participation	Shristi 2k25	PSG College of Tech

## **IIPC ACTIVITIES**

### **Faculty Internship**

- Dr. J. Prasad, Assistant Professor, ECE, completed a two-week industry internship on Design and Implementation of Digital Logic Circuits Using Artix-7 FPGA at Embuzz Technologies Private Limited from 29 December 2025 to 12 January 2026, gaining expertise in FPGA design, digital prototyping, and hardware verification.
- Dr. S. Suganyadevi, Assistant Professor, ECE, completed a one-week industrial internship at Mechmet Engineers from 27 December 2025 to 2 January 2026, acquiring practical exposure to precision manufacturing and industrial process optimization.

- Dr. Sharmi Ganguly, Assistant Professor (III), ECE, visited the Centre for Nano Science and Engineering (CeNSE) on 14 November 2025, gaining insights into semiconductor fabrication, cleanroom technologies, and nanosensor research.
- Dr. T. Venkatesh, Assistant Professor, ECE, participated in the NASSCOM Technology Confluence 2025 on 11 November 2025, exploring emerging trends in digital transformation, cloud technologies, and industry collaboration.
- Dr. J. Indra, Professor, ECE, undertook a Semiconductor Research Facility and Industry–Academia Immersion Program across BITS Pilani, IIIT, and University of Hyderabad from 30 October 2025, gaining exposure to advanced semiconductor research, microfabrication, and collaborative R&D practices.

### Industry Visit

S. No	Date	Industry/College Name	Collaborator Location	Faculty Involved	Outcome
1	07/10/2025	Zenfet Technologies	Saravanampatti Coimbatore	Mr. T. Shanmugaraja	Discussion regarding guest lecture and consultancy projects.
2	14/10/2025	Real Tech Systems	Saravanampatti Coimbatore	Dr. T. Jagadesh	Organized a field visit for 60 students from IV year ECE for the WireleCommunication subject.
3	17/10/2025	Ammarun Foundries	S.F. No. 219 Eachanari Coimbatore	Dr. S. Finney Daniel	Discussion regarding student field visits and internships.
4	17/10/2025	CRI Pumps	Keeranatham / Thudiyalur Coimbatore	Dr. S. Finney Daniel	Discussion regarding student field visits and internships.
5	25/10/2025	Applied Automation Systems	Chinnavedampatti Coimbatore	Dr. T. Jagadesh	Discussion regarding student internships.

		Private Limited			
6	25/10/2025	Unilogic Technologies Private Limited	MJT Hall Road Coimbatore	Dr. T. Jagadesh	Discussion regarding student internships.
7	03/11/2025	APEX Info-Comm. Technologies	Ganapathy, Coimbatore	Dr. J. Prasad	Discussion regarding final year student internships.
8	03/11/2025	Universal Circuits	Universal Circuits	Dr. J. Prasad	Discussion regarding arrangements for a student internship.
9	07/11/2025	Zeekers Technology Private Limited	Peelamedu Coimbatore	Institutional MoU	Signed MoU to strengthen industry-academia collaborations.
10	10/11/2025	Magnetic and Controls	Thudiyalur Coimbatore	Dr. T. Jagadesh	Discussion regarding student internships
11	11/11/2025	Sri Lakshmi Fibres	SIDCO Industrial Estate, Perundurai	Dr. M. Kalamani, Dr. V. Seethalakshmi, Dr. Ashish Ranjan Shadangi, Dr. Arijit De, Dr. M. Singaram	Visit organized for consultancy projects.
12	12/11/2025	Pioneer Circuits	Peelamedu Coimbatore	Dr. K. B. Gurumoorthy	Discussion regarding student internships.
13	12/11/2025	Wireline Solutions India Private Limited	Gandhipuram Coimbatore	Dr. K. B. Gurumoorthy	Discussion regarding student internships.

14	12/11/2025	Embuzz Technologies Private Limited	Gandhipuram, Coimbatore	Mrs. S. Gunanandhini	Discussion regarding student internships
15	12/11/2025	Byval Technologies	Saravanampatti, Coimbatore	Mrs. S. Priyadharshini	Discussion regarding student internships.
16	12/11/2025	Multicoreware	Taramani, Chennai	Dr. R. Jaikumar	Discussion regarding student internships.
17	12/11/2025	Instrumentation Calibration and Test Centre	Peelamedu, Coimbatore	Mrs. S. Priyadharshini	Discussion regarding student internships.
18	12/11/2025	Enthu Technology Solutions	Goldwins, Coimbatore	Mrs. S. Gunanandhini	Discussion regarding student internships.
19	14/11/2025	Printrionics	Eachanari, Coimbatore	Dr. T. Jagadesh	Discussion regarding student internships and field visits.
20	16/11/2025	Crid India Private Limited	Bengaluru, Karnataka	Dr. Archita Hore	Discussion regarding faculty internships.
21	17/11/2025	MachDatum Private Limited	Hopes College, Coimbatore	Dr. J. Prasad	Discussion regarding arrangements for a student internship.
22	17/11/2025	Embuzz Technologies Private Limited	Gandhipuram, Coimbatore	Dr. J. Prasad	Discussion regarding arrangements for a student internship.
23	17/11/2025	Beetalogic Software	Ganapathy, Coimbatore	Dr. J. Prasad	Discussion regarding arrangements for a student internship.
24	17/11/2025	Beetalogic Software	Thudiyalur, Coimbatore	Dr. J. Prasad	Discussion regarding final year student internships.

25	17/11/2025	Indian Institute of Science (IISc)	Bengaluru, Karnataka	Dr. Archita Hore	Discussion regarding funding collaboration
26	18/11/2025	Polycab India Limited	RSVP Road / Chennai Corporate Office	Dr. J. Muralidharan, Mr. D. Ram Nivas	Discussion regarding student internships.
27	18/11/2025	Endeavourtronics	Civil Aerodrome Post, Coimbatore	Dr. J. Muralidharan, Mr. D. Ram Nivas	D. Ram Nivas Discussion regarding student internships.
28	18/11/2025	Triox Technology	Ganapathy, Coimbatore	Dr. J. Muralidharan, Mr. D. Ram Nivas	Discussion regarding student internships.
29	19/11/2025	Armour Power Controls	SIHS Colony, Coimbatore	Dr. Himangshu Deka	Discussion regarding projects and student internships.
30	19/11/2025	Xpert Automatix	Sidhapudur, Coimbatore	Dr. Himangshu Deka	Discussion regarding projects and student internships.
31	20/11/2025	LRT	Sulur Privu, Coimbatore	Dr. J. Indra, Dr. S. M. Ramesh, Dr. P. Pandiyan	Discussed for Consultancy work.
32	20/11/2025	Gokul Industry	Chinnavedampatti, Coimbatore	Dr. S. Finney Daniel	Organized a field visit for 52 students from I year ECE.
33	26/11/2025	Janatics Global Solutions Private Limited	Sulur / Trichy Road, Coimbatore	Dr. J. Muralidharan, Mr. D. Ram Nivas	Discussion regarding student internships.
34	26/11/2025	Zenfet Technologies	Saravanampatti, Coimbatore	Dr. J. Muralidharan, Mr. D. Ram Nivas	Discussion regarding student internships.

35	26/11/2025	Janatics Global Solutions Private Limited	Sulur / Trichy Road, Coimbatore	Dr. J. Muralidharan, Mr. D. Ram Nivas	Discussion regarding student internships
36	28/11/2025	Contro-Gen Electric Solution	Perundurai, Erode	Dr. Ashish Ranjan Shadangi	Organized a student field visit.
37	01/12/2025	Mindox Techno India Private Limited	Ramanathapuram, Coimbatore	Dr. J. Prasad	Discussion regarding final year student internships.
38	01/12/2025	Tessolve Semiconductor Pvt Ltd	Phase II, Electronic City, Bengaluru	Dr. J. Prasad	Discussion regarding final year student internships.
39	01/12/2025	Bixware Technologies Private Limited	Saravanampatti, Coimbatore	Dr. J. Prasad	Discussion regarding final year student internships.
40	16/12/2025	Nitroware Technologies Private Limited	Gandhipuram, Coimbatore	Dr. J. Prasad	Discussion regarding arrangements for a student internship.
41	16/12/2025	Sun Software Solutions	Town Hall, Coimbatore	Dr. J. Prasad	Discussion regarding arrangements for a student internship.
42	16/12/2025	S.J Technologies	Cross Cut Road, Coimbatore	Dr. J. Prasad	Discussion regarding arrangements for a student internship.
43	16/12/2025	Seyon Global Soft	Kalapatti, Coimbatore	Dr. J. Prasad	Discussion regarding arrangements for a student internship.
44	16/12/2025	Infonet Comm Enterprises	RS Puram, Coimbatore	Dr. J. Prasad	Discussion regarding arrangements for a student internship.

		Private Limited			
45	30/12/2025	Roots Industry Pvt. Ltd.	Ganapathy, Coimbatore	Dr. J. Indra, Dr. P. Pandiyan	Pandiyan Discussed for Consultancy work.







## Consultancy Details

S.No	Faculty involved	Event/Activity	Date	Amount ₹
1.	Dr. K.Kalirajan	Software defined networks design	12.12.2025	10,000
2.	Dr V Seethalaksmi	Antenna Design	25.08.2025-17.12.2025	1,20,740
3.	Dr S M Ramesh	Next-Generation Image Processing: Methods, Tools, and Applications	15.12.2025-19.12.2025	7268
4.	Ms.M.Supriya	Electronic design Automation tools: CADENCE and Vivado	18.12.25-19.12.2522.01.26-23.01.26	18,337
5.	Dr.B.Jaishankar	PCB consultancy	November 2025	20,000

## PLACEMENT ACTIVITY

S.No	Company Name	Sector (Core / IT)	No. of Students Placed
1	Accenture	IT	18
2	American Mega Trends	Core	4
3	Avasoft	IT	1
4	Capegemini	IT	19
5	Caterpillar	IT	1
6	Deloitte	IT	1
7	Infosys	IT	1
8	Johnson Electric	IT	1

9	Kaar	IT	2
10	Kovan Labs	IT	2
11	Lmw	CORE	2
12	Mallow Tech	IT	2
13	Qspider	IT	18
14	Rdx	IT	4
15	Rebar	IT	8
16	Smart DV	CORE	3
17	Sutherland	IT	24
18	Cognizant	IT	19
19	Texmo	CORE	7
20	Vvdn	CORE	5
21	Wizlabs	IT	1
22	Tes Nqt	IT	1
23	Jaro Education	BDE	2

## LATEST INNOVATIONS

### LATEST TRENDS IN SEMICONDUCTOR FIELDS

Prepared by: Mr Yukendran S– I-ME VLSI Design

- **AI Chips:** Development of GPUs, NPUs, and AI accelerators for machine learning and robotics.
- **Chiplet Technology:** Combining smaller chips to improve performance and reduce cost.
- **Advanced Packaging:** Use of 3D ICs and heterogeneous integration for compact and efficient systems.
- **2nm Technology:** Adoption of smaller fabrication nodes with GAA transistors and EUV lithography.



- **Power Semiconductors:** Growth of SiC and GaN devices for EVs and renewable energy applications.
- **Edge Computing & IoT:** Low-power processors for smart devices and real-time processing.
- **Quantum Computing:** Research on quantum chips and advanced semiconductor materials.
- **Silicon Photonics:** High-speed data transfer using light-based communication.
- **Future Scope:** Expanding opportunities in AI, 6G, healthcare, defense, and smart technologies.