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**DEPARTMENT OF
ELECTRONICS AND COMMUNICATION ENGINEERING**



ECHOES

Voice of **ECE**



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FROM THE DESK OF THE HOD - ECE

It gives me great pride and satisfaction to present this edition of the Department of Electronics and Communication Engineering Newsletter, which reflects the dynamic academic environment, research excellence, and holistic development nurtured within our department.

The achievements showcased in this issue highlight our department's strong commitment to quality education, advanced research, and global engagement. From international collaborations and MoUs, prestigious faculty recognitions, sponsored keynote lectures, and research scholar participation in global forums, to student accomplishments in technical, cultural, and professional domains, every milestone reinforces our pursuit of excellence.

Our state-of-the-art laboratories, active research groups, and student-driven initiatives such as PULSE and professional society chapters like IEEE MTT-S continue to bridge the gap between theory and practice. These platforms enable our students to innovate, lead, and grow into confident engineers capable of addressing real-world challenges.

I commend our faculty, students, and research scholars for their dedication, enthusiasm, and collaborative spirit.

Let us continue to uphold our vision of becoming a world-class department, fostering innovation, research-driven learning, and socially responsible engineering professionals who will shape the future of technology.



Dr. I. Govardhani

Professor & Head

Department of Electronics and
Communication Engineering

K L University



About department

The Department of Electronics & Communication Engineering (ECE), established in 1983, boasts 120 distinguished faculty members, including 101 with PhD degrees, while others are pursuing PhDs. Faculty with rich industry experience cater to both academic and industry needs. State-of-the-art laboratories, Centres of Excellence, and Research Centres support undergraduate, postgraduate, and PhD students, emphasising R&D activities and innovative exploration beyond the curriculum.

With Rs. 259 million in sponsored projects from DST, ISRO, and other organisations, the department showcases a strong research culture, having published over 3,300 peer-reviewed articles. The vibrant academic calendar includes advanced certificate courses, seminars, visiting foreign faculty, and student paper contests. Student development programs, industry alliances, and active associations further enhance the department's offerings.

Vision

To become a world-class department in the frontier regions of Electronics & Communication Engineering.

Mission

To bring forth graduates possessing professional excellence.

To conduct quality research with social & industrial applications.

To render technical assistance in converting the learners into entrepreneurs.

PULSE - WHERE IDEAS TRANSFORM INTO IMPACT

PULSE, the official student body of the Department of Electronics and Communication Engineering, is more than a club — it catalyses growth, leadership, and innovation among students. Rooted in collaboration and empowerment, PULSE transforms classroom learning into impactful, real-world experiences.

By bridging theory and practice, it nurtures essential skills such as teamwork, decision-making, and problem-solving. It's a space where young engineers not only build systems but also learn to lead them with vision and confidence.

Through a blend of cultural, technical, and recreational initiatives, PULSE encourages self-discovery, creativity, and collaboration — creating a vibrant environment that fosters both personal and professional excellence.

PULSE continues to stand as a symbol of ambition, teamwork, and innovation within the department. Every initiative, whether technical, cultural, or social, contributes to building a community of confident and capable engineers. By fostering creativity, collaboration, and leadership, PULSE empowers students to grow beyond academics and make a meaningful impact in their professional and personal journeys.

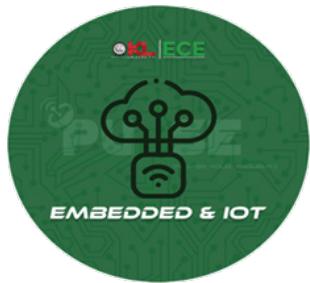
Clubs of PULSE - Fostering Innovation and Leadership

Embedded & IoT Club: Driving innovation through smart systems and real-world connected solutions.

Always VLSI Club: Empowering students to design the future of microchips and semiconductor technology.

Robotronics Club: Exploring the world of robotics and automation through creativity and teamwork.

Nanotron Club: Inspiring curiosity and research in nanotechnology and advanced materials.



Exploring RF & Electromagnetic Measurement Facilities

This laboratory is equipped with advanced instruments for analysing and evaluating high-frequency communication systems and materials. It supports testing of antennas, RF modules, filters, and wireless devices in controlled environments using RF analysers and anechoic enclosures. The lab also features specialised dielectric assessment systems for precise measurement of material properties such as permittivity and conductivity. These facilities play a crucial role in research, design validation, and performance optimisation of modern wireless and communication technologies.

Located: L Block 6th floor

Combinational Analyser:



The image shows a Combinational Analyser setup placed inside an anechoic or RF test enclosure. The background consists of pyramid-shaped RF absorbing foam panels, which are designed to minimise signal reflections, external electromagnetic interference, and noise during high-frequency measurements. At the centre is a portable combinational or spectrum/network analyser unit with a display screen, keypad, and control buttons. Coaxial cables are connected to the analyser, allowing it to interface with antennas, RF circuits, filters, or communication modules under test.

Applications:

- Antenna testing and characterisation.
- Wireless communication system evaluation.
- Filter, amplifier, and RF module testing.
- EMI/EMC measurement and compliance testing.
- Signal integrity and interference analysis.

SPEAG Dielectric Assessment Kit:



The image shows a SPEAG Dielectric Assessment Kit, a specialized measurement system used for evaluating the dielectric properties of materials. The kit is housed in a robust, portable protective case, ensuring safe storage and transportation of sensitive measurement components. SPEAG (Schmid & Partner Engineering AG) is a well-known manufacturer of precision RF and electromagnetic measurement equipment, widely used in research and compliance testing laboratories.

Applications:

- Measurement of dielectric constant and conductivity
- RF and microwave material characterization
- Antenna and RF device design validation
- Biomedical and tissue-equivalent material testing
- Wireless communication system research
- Electromagnetic simulation model validation
- Quality control in material manufacturing

FACULTY ACHIEVEMENTS



Academic Immersion on Teaching-Learning Innovation at the NUS

As per the formal invitation received from the Centre for Teaching, Learning and Technology (CTLT), National University of Singapore (NUS), Dr. Aravindhan Alagarsamy, Associate Professor (ECE) and Associate Dean (Academics) – Teaching–Learning Process (TLP) and Dr. V. Kasi Rao, Associate Dean (Academics) – Curriculum Development, from Koneru Lakshmaiah Education Foundation participated in structured academic engagement sessions held at NUS on 10th and 11th November 2025

Formation of International Research Collaboration: Key Outcomes of MERG's Visit to the University of Moratuwa

This is to formally report the successful completion of the academic and research visit by the Microelectronics Research Group (MERG) team of Koneru Lakshmaiah Education Foundation to the University of Moratuwa (UoM), Sri Lanka, during the period from 02 December 2025 to 06 December 2025. The visiting team consisted of Dr. Aravindhan Alagarsamy, Associate Professor & Head–MERG (ECE), Dr. Arunmetha Sundaramoorthy, Associate Professor & Associate Dean (R&D) (ELGE), and Dr. Vivekananthan Venkateswaran, Associate Professor & Head–CFE (IRDE). All three members successfully visited the University of Moratuwa as per the approved schedule.

As per the official invitation received from the Director – International Relations, UoM, Invitation Letter, the team visited multiple Multidisciplinary Research Centers on 03 and 05 December

2025 and engaged in structured faculty interactions, laboratory visits, and technical discussions. The interactions primarily focused on microelectronics research, signal processing applications, embedded systems, renewable energy systems, and collaborative research opportunities.

Key outcomes of the visit include the identification of potential joint research projects, student and faculty exchange possibilities, and preparation for joint international research proposal submissions. The visit significantly strengthened the academic relationship between the two institutions.



ANRF-SRG Sponsored Keynote Lecture on Functional Electronics

Dr. Vivekananthan Venkateswaran delivering a keynote talk on “From Nanoscale Innovations to Self-Sustaining Sensors: A Journey into Functional Electronics” in an extension activity guest lecture sponsored by ANRF SRG.



Dr. Venkata Kishore K Receives IEEE MTT-S Travel Grant at MAPCON 2025

Dr. Venkata Kishore K attended MAPCON 2025 conference in Kochi with IEEE MTT-S Travel Grant award



Dr. Pratap Kumar Dakua Chairs Technical Session at IEEE STPEC-25

Dr. Pratap Kumar Dakua got invited to Chair a Technical Session at the IEEE Conference STPEC-25 at NIT Goa



ECE Department Signs MoU with Georgia State University, USA

Dept of ECE, KLEF has formalized an MoU with Georgia State University (GSU), USA, under which a cosmic ray muon detector has been installed at our Space Technology and Atmospheric Science Laboratory and integrated into the global gLOWCOST network



ECE Research Scholar Participates in Beacon Satellite Symposium 2025, Italy

Mr. Siva Sai Kumar Rajana, doctoral student of Dr. Sampad Kumar Panda, attended "Beacon Satellite Symposium 2025 (BSS 2025)" from 10-11-2025 to 14-11-2025 preceded by the preconference workshop on "Use of GNSS Data for Ionospheric Monitoring and Modelling" scheduled from 03-11-2025 to 07-11-2025 at Rome, ITALY, fully funded by ICTP and INGV, ITALY



STUDENTS ACHIEVEMENTS



ECE Students Shine at University Youth Fest

Students of the Electronics and Communication Engineering (ECE) Department of actively participated in the University Youth Fest held on the campus. Students from the Pulse Student Body represented the department and took part in various cultural, literary, and technical events. The fest witnessed enthusiastic participation from students across departments and featured competitions in music, dance, drama, fashion shows, literary activities, and sports. ECE students contributed both as participants and volunteers, demonstrating strong organizational skills, teamwork, and professionalism.

University authorities and faculty coordinators appreciated the students for their active involvement and disciplined conduct. The event aimed to promote holistic student development and encourage participation beyond academics. The Youth Fest concluded successfully with a valedictory ceremony and prize distribution.

IEEE MTT-S Distinguished Microwave Lecturer Program at KLEF

The IEEE MTT-S Student Branch at KL Deemed to be University successfully convened a Distinguished Microwave Lecturer (DML) session titled "Millimeter-Wave Circuits and Systems for Radar Applications," presented by the esteemed Prof. Vadim Issakov of Braunschweig University of Technology, Germany. Held on December 31, 2025, this technical seminar offered an academic deep dive into high-frequency integrated circuits and radar system architecture, facilitating a high-level knowledge exchange between international expertise and the student community. Orchestrated by Faculty Advisor Dr. Y Usha Devi and the MTT-S leadership team, the event underscored a commitment to advancing microwave theory and techniques.



ALL INTERNATIONAL PLACEMENTS

International Placement Achievements

The Department of Electronics and Communication Engineering celebrates the exceptional international placement successes of its students, reflecting their academic excellence and preparedness for global career opportunities.

Four B.Tech ECE students of the Y23 batch secured international placements with reputed Japanese companies, each with an impressive CTC of ₹20 LPA:

- **Ms. Bettina Joshna (ID: 2300049006) – Autopia**
- **Mr. Tamanam Leeladhar – Autobacs**
- **Mr. V. Hari Veerendra Satya – Autobacs**
- **Mr. G. Lakshmi Charan – Autobacs**

Additionally, two B.Tech ECE students of the Y23 batch secured international placements with Keisei Jidousha Seibi Co. Ltd., Japan, with a CTC of ₹20 LPA (¥3,452,352):

- **Mr. Yempuluru Rajesh (Reg. No.: 2300049084)**
- **Mr. Tippu Sulthan Shaikh (Reg. No.: 2300040217)**

Furthermore, **Ms. Gutta Tejeswari Royal** (B.Tech, Electronics and Communication Engineering, Reg. No.: 2200040) has been successfully placed in **Brexa** Technology with a CTC of ₹20 LPA. The department congratulates her on this notable achievement and wishes her continued success in her professional career.

These achievements underscore the department's commitment to excellence and its focus on preparing students for global career opportunities. Several students are currently participating in ongoing interviews, and more international placement offers are anticipated.



India Semiconductor Workforce Development Program (ISWDP) – Cohort 5

Mr. Narisetty Veera Venkata Syam Kumar, a student of the Department of Electronics and Communication Engineering, was selected for the India Semiconductor Workforce Development Program (ISWDP) – Cohort 5, conducted by the Indian Institute of Science (IISc), Bengaluru, under the sponsorship of Synopsys and Samsung, through a highly competitive national-level selection process. The internship was held from June 11 to August 24, 2025.

The program comprised Level 1, Level 2 (Hands-on), and Advanced training in semiconductor devices and TCAD, covering device modeling, simulation workflows, advanced physical modeling, and 2D/3D device and process simulations. The training was further enriched by industry-oriented sessions, including Advanced Electronic Design for Reliable Operation by Rohde & Schwarz and Electrical Characterization of Materials and Devices by Tektronix.

In recognition of his performance and active participation, Mr. Narisetty Veera Venkata Syam Kumar was awarded the Samsung Fellowship (Grade II). This achievement highlights the department's emphasis on industry-relevant learning and excellence in the domain of VLSI and semiconductor engineering.



జై జవాన్... జై హింద్

సాయంకాలం..సమయం దాదాపు నాలుగున్నర ఐదు అవ్వోస్తోంది. తెల్లుచీర కట్టుకొని నుదుటన ఎర బోట్టు పెట్టుకొని వాలు జడలో సన్నజాజులు తురుముకోని తన నాలుగేళ్ళ కొడుకు చేతిని భద్రంగా పట్టుకొని పారుకు వైపు నడుచు కోస్తోంది సుభద్ర. మహారు ఇరవై ఐదు ఇరవై ఆరు ఎళ్ళ వయస్సుకు మించి ఉండవ సభద్రకి.

పారుకు అంత పెద్దది కాకపోయిన ప్రశాంతంగా ఉంది. అమ్మ అరచేతి నుండి తన చేయిని లాగేసుకొని పారుకు వైపు పరుగు పెదుతుంటే మెల్లగా నాన్నా... అని కంగారుగా నాన్న వారించడం, నాన్న చంక నుండి చటుక్కున కిందకు జారి పారుకు లోపలికి వడిగా అడుగులు వేనే పాపను పడిపోతవ్ తల్లి.. అని పరుగు పెట్టే మరొక తలంత్రి, తదితర దృశ్యాలు రోజు చూస్తున్నా ప్రతి రోజు అంతే అబగా చూసే తన కొడుకున్న పట్టుకొని పారుకులోనికి దారి తీస్తోంది సుభద్ర.

అమ్మ.. నాన్నేడి.. ఎప్పుడొస్తాడు అని తన చేతిని పట్టుకొని నడుస్తున్న తల్లిని అడిగాడు సభద్ర కొడుకు. ఎర్రామ్ లో సూరు శాతం గ్యారెంట్స్ గా వచ్చే ప్రెశ్చుకు తడముకోకుండా సమాధానం రాశే విద్యార్థిలా బదుచ్చింది సభద్ర తన కొడుకు వైపు చూస్తూ ఎప్పటిలాగే.. త్వరలో వస్తాడు నాన్నా..

ఈ రోజైనా అరగుండా ఉంటాడేమో అని అనుకుంటూనే ఉంటుంది సుభద్ర ఏ రోజుకారోజు. తల్లి సమాధానం విన్న కొడుకులో సినిమాలో తరువాత జరిగే సీన్ ముందే ఊహించిన ప్రేక్షకుడి ముఖుంలో కనిపించని ఫీలింగ్ కు ఏ మాత్రం తేడా లేదు అని గమనించింది సుభద్ర. జారుడు బల్ల పైనుంచి మెల్లగా కిందకు జరుపుతున్న తండ్రి నుండి క్రింద కు జారుతున్న ఒపిలాడిని కళ్ళార్పకుండా చూస్తూ కొడుకు, గత ఆలోచనా స్కూలులలో సుభద్ర మునిగి పోయారు.

కొన్ని రోజుల తర్వాత..

సాయంకాలం. సమయం దాదాపు నాలుగున్నర ఐదు అవ్వోస్తోంది. తెల్లుచీర కట్టుకొని తన నాలుగేళ్ళ కొడుకు చేతిని తన చేతితో భద్రంగా పట్టుకొని పారుకు లోనికి దారి తీస్తుంది సుభద్ర. నుదుటన ఎర బోట్టు, వాలు జడలో సన్న జాజులు లేవు. అమ్మ.. నాన్నేడి.. ఎప్పుడొస్తాడు అన్న కొడుకు వైపు చూస్తున్న సుభద్ర.

జై హింద్.. జై జవాన్ అన్న నినాదాలు పారుకు ప్రక్క నుండి వినిపిస్తున్నాయి.

నీతి:

దేశం కోసం ప్రాణాలు అరిగించిన జవాన్ తాయగాన్ని, వారి కుటుంబాల బాధను ఎప్పటికీ మరచిపోకూడదు.



డా. శివ గంగ ప్రసాద్

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nirf NATIONAL INSTITUTIONAL 2025 RANKING FRAMEWORK

(Ministry of Human Resource Development, Govt. of India)



Includes IIT's, IIM's, IIIT's, IISc, NIT, State & Central Govt. Institutions

nirf-Innovation
National Institutional Ranking Framework For Innovation
Ministry of Education, Government of India

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