



NEWS Letter

**ECE
MARCH
2026**

SEMINAR ON FOSTERING INNOVATION IN DIGITAL SYSTEM DESIGN THROUGH SIMULATION-BASED LEARNING

INSTITUTION'S INNOVATION COUNCIL - IIC 8.0

IN ASSOCIATION WITH

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Resource Person

SEMINAR ON
FOSTERING INNOVATION IN DIGITAL SYSTEM DESIGN
THROUGH SIMULATION-BASED LEARNING

Dr. S. Usha
Associate Professor / EEE
SRM Institute of Science and Technology

MARCH 16, 2026 | **12.30 PM ONWARDS** | **LH 25**

JIT **JEPPIAAR INSTITUTE OF TECHNOLOGY**
(AN AUTONOMOUS INSTITUTION)

A+ NAAC | **NBA** | **TNEA COUNSELLING CODE 1140**

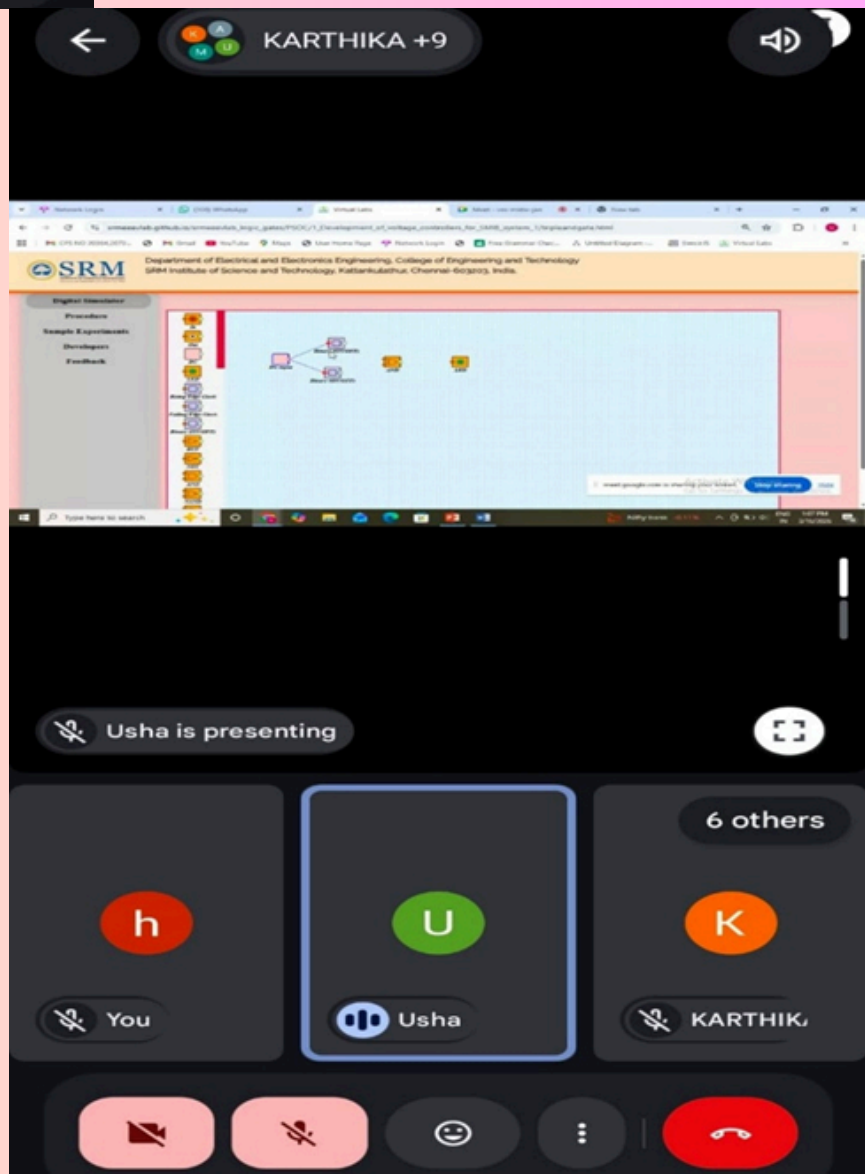
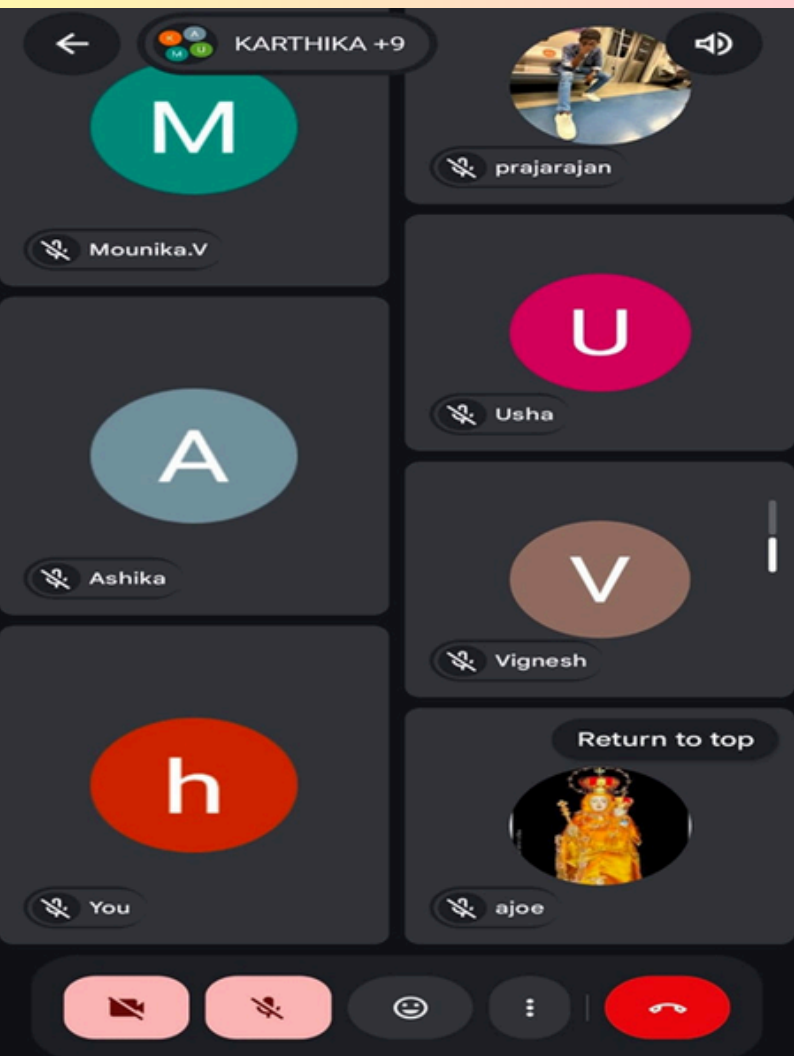
www.jeppiarinstitute.org

The Institution's Innovation Council (IIC 8.0), in association with the Department of Electronics and Communication Engineering, Jeppiaar Institute of Technology, successfully organized a seminar on "Fostering Innovation in Digital System Design through Simulation-Based Learning" on 16th March 2026 at 12:30 PM in LH 25. The session was delivered by Dr. S. Usha, Associate Professor, Department of Electrical and Electronics Engineering, SRM Institute of Science and Technology, who shared her expertise with students and faculty members.

The seminar focused on the growing importance of simulation-based learning in the field of digital system design. The resource person explained how simulation tools play a vital role in designing, testing, and verifying digital circuits before hardware implementation. She highlighted how such tools help in minimizing design errors, reducing development time, and improving overall system efficiency and accuracy. The session also provided insights into the design of combinational and sequential circuits using simulation platforms, making complex concepts easier to understand through practical visualization.

Furthermore, Dr. S. Usha discussed real-time applications of digital systems in modern electronics and emphasized the need for innovative thinking in solving engineering challenges. The interactive session encouraged students to actively participate and clarify their doubts, making the learning experience more engaging. Overall, the seminar was highly informative and beneficial, motivating students to adopt simulation-based approaches and enhance their skills in digital system design and innovation.





SOCIAL ACTIVITY

ROOTING FOR TOMORROW: ONE TREE, ONE FUTURE

The poster is green with a central image of hands holding a small plant. It contains the following text:

INSTITUTION'S INNOVATION COUNCIL (IIC 8.0)
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
ORGANISES
SOCIAL ACTIVITY
ROOTING FOR TOMORROW: ONE TREE, ONE FUTURE

CHIEF PATRON
DR. N. MARIE WILSON
CHAIRMAN

IQAC DIRECTOR
DR. S. SHENBAGA EZHIL

VENUE : JIT Campus

FACULTY CO ORDINATORS
Mrs. S. Revathy & Ms. M. Bharathi
Assistant Professor/ECE

PRINCIPAL
Dr. J. VENU GOPALAKRISHNAN

HEAD OF THE DEPARTMENT
Dr. T. SRIPRIYA
Associate Professor/ECE

DATE : 16.03.2026
TIME : 11 am

JIT JEPPIAAR INSTITUTE OF TECHNOLOGY (AN AUTONOMOUS INSTITUTION)

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TNEA COUNSELLING CODE 1140

The Institution's Innovation Council (IIC 8.0), in association with the Department of Electronics and Communication Engineering, Jeppiaar Institute of Technology, organized a meaningful social activity titled "Rooting for Tomorrow: One Tree, One Future" on 16th March 2026 at 11:00 AM at the JIT Campus. The primary objective of this initiative was to create awareness about environmental sustainability and to encourage students to actively participate in building a greener future through tree plantation.

The program was conducted under the esteemed guidance of the Chief Patron Dr. N. Marie Wilson, Chairman, and the Principal Dr. J. Venu Gopalakrishnan. The event also received valuable support from IQAC Director Dr. S. Shenbaga Ezhil and the Head of the Department, Dr. T. Sripriya. The activity was efficiently coordinated by Mrs. S. Revathy and Ms. M. Bharathi, Assistant Professors of the Department of ECE, who ensured enthusiastic participation from students and smooth execution of the program.

The event witnessed active involvement from students and faculty members, who came together to plant saplings across various locations on the campus. The initiative emphasized the critical role of trees in maintaining ecological balance, improving air quality, conserving biodiversity, and combating climate change. Participants were also made aware of the importance of nurturing and protecting

plants after plantation, highlighting that sustainability is a continuous responsibility rather than a one-time effort.

Furthermore, the activity served as a platform to instill environmental values and social responsibility among students. It encouraged them to adopt eco-friendly practices in their daily lives and to become proactive contributors to environmental conservation. The slogan “One Tree, One Future” reinforced the idea that every individual effort can collectively make a significant impact on the planet’s well-being.

Overall, the event was highly successful in spreading awareness about environmental protection and sustainability. It not only enhanced the green cover of the campus but also inspired participants to take meaningful steps toward a healthier and more sustainable environment for future generations.







WORKSHOP ON FROM CAMPUS TO CAREER: MAPPING THE ENGINEERING INDUSTRY LANDSCAPE

INSTITUTION'S INNOVATIONS COUNCIL-IIC8.0

IN ASSOCIATION-JIT ALUMINI CONNECT WITH DEPARTMENT OF
ELECTRONICS AND COMMUNICATION ENGINEERING

**WORKSHOP ON
FROM CAMPUS TO CAREER: MAPPING THE
ENGINEERING INDUSTRY LANDSCAPE**

5:00 PM TO 7:00 PM

MARCH 5

SUGUMAR. S
 ASSISTANT MANAGER-QUALITY
 OPTIMARE INDIA PRIVATE LIMITED, BENGALURU

JIT
 JEPPIAAR
 INSTITUTE OF
 TECHNOLOGY
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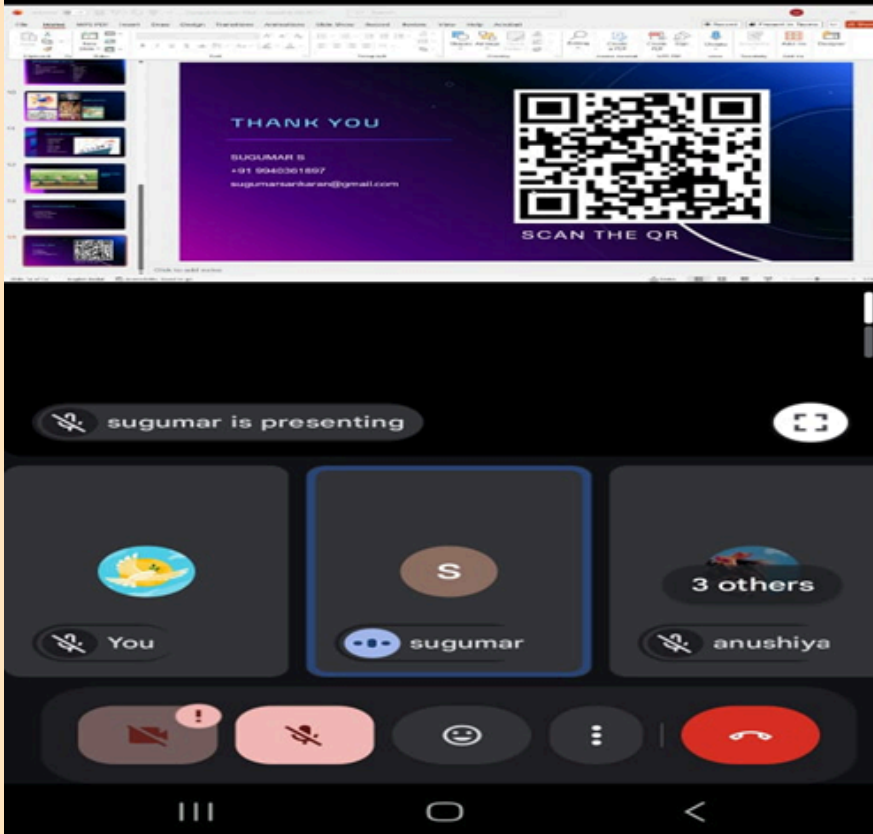
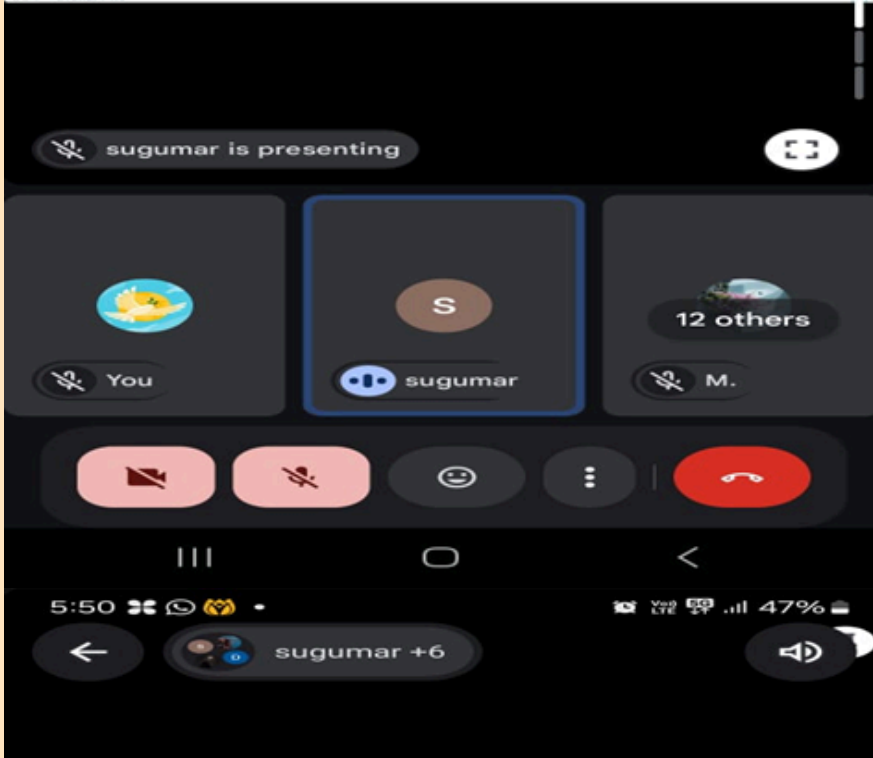
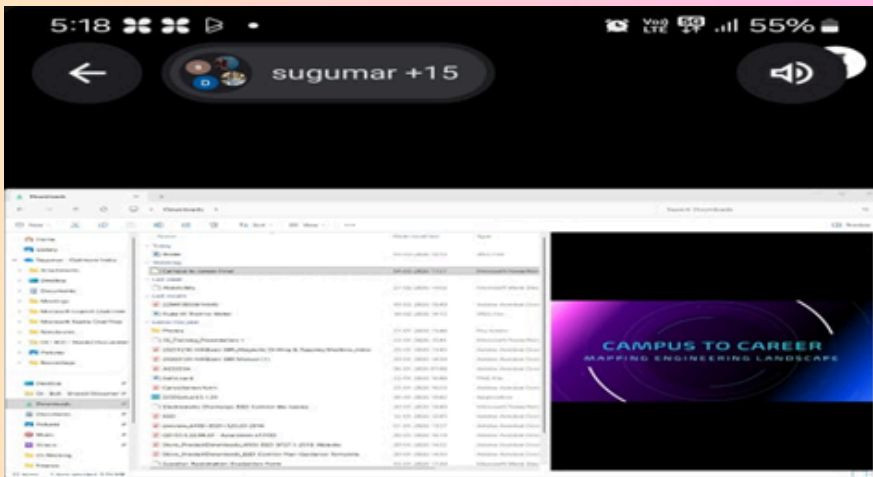
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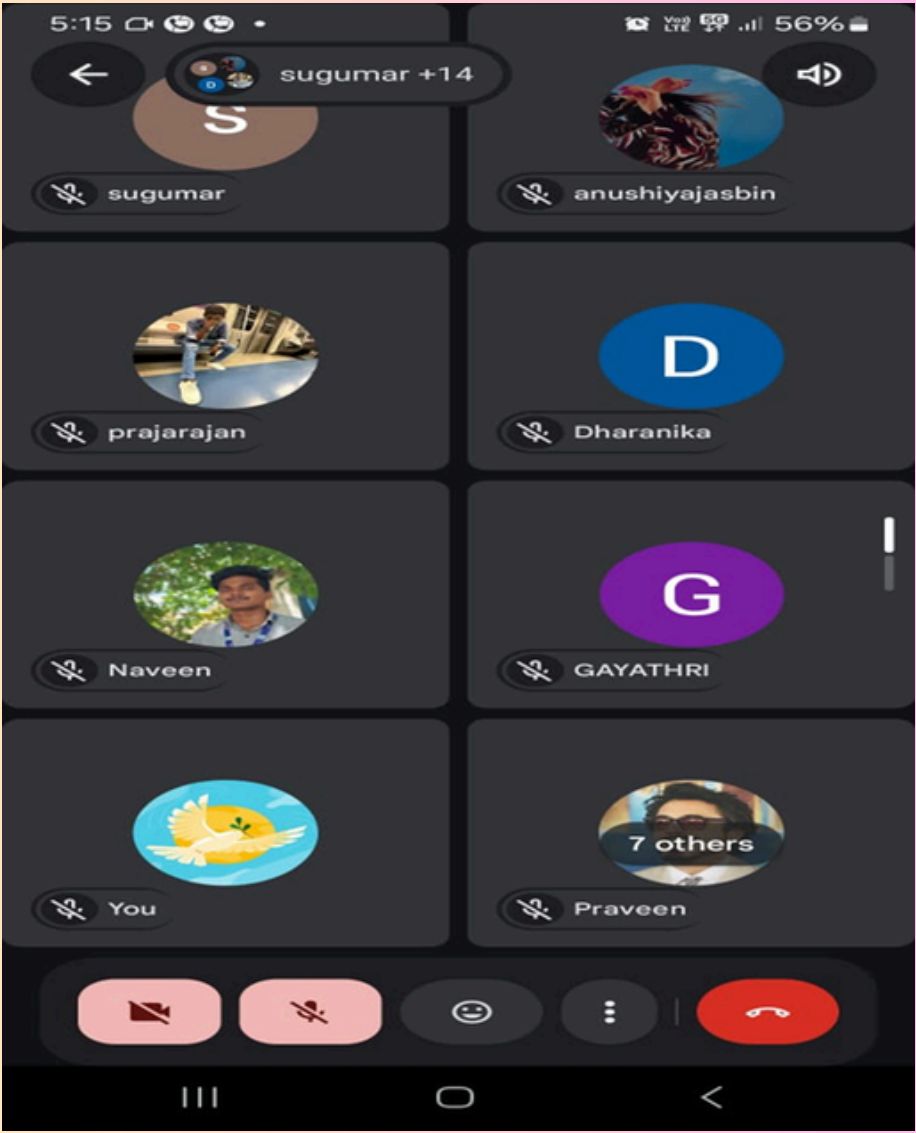
The Institution's Innovation Council (IIC 8.0), in association with JIT Alumni Connect and the Department of Electronics and Communication Engineering, Jeppiaar Institute of Technology, organized a workshop on "From Campus to Career: Mapping the Engineering Industry Landscape" on 5th March from 5:00 PM to 7:00 PM. The session was delivered by Mr. Sugumar S, Assistant Manager – Quality, Optimare India Private Limited, Bengaluru, who shared valuable industry insights with the participants.

The workshop aimed to bridge the gap between academic learning and industry expectations by providing students with a clear understanding of the engineering career landscape. The resource person highlighted the current trends in the engineering industry, essential technical and soft skills required for employability, and the importance of continuous learning and adaptability. He also emphasized the role of quality management, industry standards, and professional ethics in building a successful career.

During the session, students gained insights into various career opportunities available in the engineering domain and the steps needed to transition smoothly from campus to corporate life. Practical guidance was provided on resume building, interview preparation, and workplace expectations. The speaker also shared real-time experiences from the industry, helping students understand challenges and opportunities in a professional environment.

The interactive nature of the workshop encouraged students to actively participate, ask questions, and clarify their doubts regarding career planning and skill development. Overall, the session was highly informative and motivating, equipping students with the knowledge and confidence required to navigate their career paths effectively and succeed in the competitive engineering industry.





STUDENT ARTICLE

THE RISE OF 6G TECHNOLOGY: TRANSFORMING THE FUTURE OF COMMUNICATION



SRIRAM. V
II YEAR ECE

In recent years, the field of Electronics and Communication Engineering (ECE) has witnessed rapid advancements, with next-generation communication technologies leading the transformation. As the world is still adapting to 5G networks, researchers and industries have already started focusing on the development of 6G technology, which is expected to redefine the way we communicate and interact with digital systems.

6G technology aims to provide ultra-fast data transmission speeds, reaching up to 1 terabit per second, which is significantly higher than current 5G capabilities. This advancement will not only improve internet speed but also enable real-time communication with almost zero latency. Such features are essential for emerging applications like autonomous vehicles, smart cities, virtual reality, and advanced robotics.

One of the key aspects of 6G is the integration of artificial intelligence (AI) with communication systems. AI-driven networks will be capable of self-optimization, efficient data management, and improved security. This will ensure seamless connectivity even in highly congested environments. Additionally, 6G is expected to utilize terahertz frequency bands, which can support higher bandwidth and faster data transfer.

Another important impact of 6G technology is its role in the development of smart infrastructure. From healthcare to transportation, 6G will enable intelligent systems that can operate with high precision and reliability. For instance, remote surgeries using robotic systems will become more efficient, and real-time monitoring in healthcare will improve patient outcomes.

However, the implementation of 6G also comes with several challenges. High infrastructure costs, energy consumption, and the need for advanced hardware components are major concerns. Engineers and researchers are actively working to overcome these limitations by developing energy-efficient systems and innovative circuit designs.

In conclusion, 6G technology represents the future of communication and stands as a major area of focus in the ECE domain. As research progresses, it is expected to bring revolutionary changes across various industries, making connectivity faster, smarter, and more reliable than ever before.

TECH PULSE 2026: CURRENT TRENDS IN ELECTRONICS AND COMMUNICATION ENGINEERING.



MOHANA PRIYA.C
II YEAR ECE

Electronics and Communication Engineering (ECE) in 2026 stands at the forefront of technological innovation, driving advancements that are transforming industries and everyday life. One of the most prominent developments is the large-scale deployment of 5G networks, providing ultra-fast communication, low latency, and reliable connectivity, while researchers and industries are actively exploring 6G technology, which promises even higher speeds and revolutionary applications such as holographic communication and intelligent environments. At the same time, artificial intelligence has become deeply integrated into electronic systems, enabling smarter devices, automated decision-making, and efficient data processing. Edge computing is also gaining importance, allowing data to be processed closer to the source, thereby reducing delays and enhancing system performance.

The rapid growth of the Internet of Things (IoT) continues to connect billions of devices worldwide, playing a crucial role in smart homes, smart cities, healthcare monitoring, and industrial automation. In the semiconductor sector, significant progress is being made with advanced materials such as Gallium Nitride (GaN) and Silicon Carbide (SiC), which are replacing conventional silicon to create faster, smaller, and more energy-efficient electronic components. Additionally, sustainability has become a key focus area, with engineers developing green electronics that consume less power and reduce environmental impact. Space and satellite communication technologies are also expanding, ensuring global connectivity even in remote regions and supporting disaster management systems.

Moreover, quantum communication is emerging as a groundbreaking technology in 2026, offering highly secure data transmission methods that are resistant to cyber threats. The automotive industry is undergoing a major transformation with the rise of electric vehicles and autonomous driving systems, which depend heavily on advanced electronic control units, sensors, and communication networks. Wearable technologies, including smartwatches and health monitoring devices, continue to grow in popularity, focusing on user convenience, portability, and real-time health tracking. With these rapid advancements, the demand for skilled ECE professionals is increasing across sectors such as telecommunications, semiconductor industries, embedded systems, and AI-driven technologies. To succeed in this dynamic environment, aspiring engineers must develop expertise in programming, VLSI design, communication systems, and emerging technologies. Overall, the year 2026 highlights a promising and innovative future for Electronics and Communication Engineering, offering vast opportunities for growth, research, and technological development.