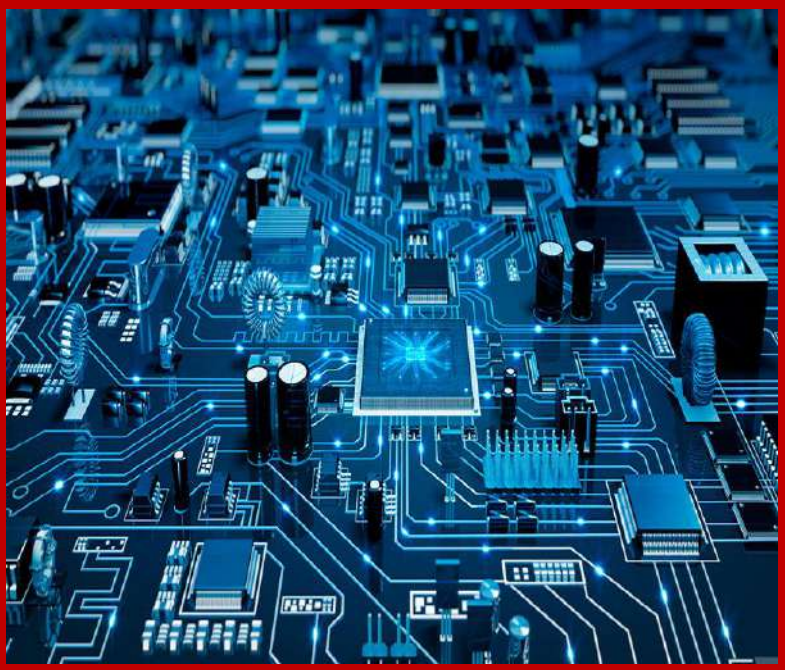
GALGOTIAS COLLEGE OF ENGINEERING & TECHNOLOGY

EC-NEWSLETTER 2025-26

"EC-Newsletter" is the Bi-annual newsletter of the Department of ECE, Galgotias College of Engineering and Technology, Greater Noida highlighting the accomplishments of our students, faculty and staff. It mainly focuses on the major events organized, student and faculties research publications, achievements, campus placement, industrial interactions, industrial visits, higher studies details etc.



Department of Electronics & Communication Engineering

Chief Editor	Faculty Editor	Student Editor
Dr. Amrita Rai	Dr. Ankur Utsav	Ayush Patel

MESSAGE FROM HEAD OF THE DEPARTMENT

The Department of Electronics and Communication Engineering is dedicated to nurturing technically competent, innovative, and socially responsible engineers. Our mission is to provide high-quality education, promote cutting-edge research, and create an environment that encourages creativity, critical thinking, and lifelong learning. With a strong team of committed faculty members and enthusiastic students, the department continuously strives to achieve excellence in academics, research, and technological innovation.

We emphasize practical learning, industry collaboration, and emerging technologies to prepare our students for the rapidly evolving global technological landscape. The achievements and activities highlighted here reflect our collective efforts toward academic excellence, professional growth, and meaningful contributions to society. We remain committed to shaping future engineers who will lead advancements in electronics and communication for a better tomorrow.

Best Wishes,

Dr. Amrita Rai

About ECE Department

Electronics and Communication Engineering is headed by Dr. Amrita Rai and has 51 faculty members who have received their higher education from top-notch universities. The faculty members of this department are consistently doing well in teaching and research. The department offers B.Tech (Electronics and Communication Engineering) with 180 intake and 60 intake in B.Tech (VLSI) and 60 in B.tech (ACT).

Presently, the B.Tech ECE program has been accredited by the National Board of Accreditation.

The B.Tech program attracts the brightest students in the state every year. The placement record of the department has always been impressive. Almost 100% of the students get jobs from the campus placement and many of them are getting it in core companies every year. We encourage the students to do design and research- based projects during their B.Tech degrees.

The department has state-of-the-art laboratories in almost all the areas of Electronics and Communication that has the latest simulation tools to cater to various specializations and are equipped with facilities for measurement, characterization, and synthesis of experimental as well as theoretical results. The department is actively involved in R&D activities and regularly publishes its research in reputed Journals and Conferences. The research areas include Wireless Communication and Networks, Microwave Engineering, Antenna design, VLSI Design, Signal and Image Processing, Communication Engineering, and Embedded Systems.

The Department holds MoU's with distinguished Organizations and Industries, mentioning a few include Huawei - ICT Academy, 3ST Technologies Pvt. Ltd., Noida, Maven Silicon, Bengaluru, Department of Electronics - Pattern Recognition and Machine Intelligence Group, Shantou University, China. It prides in having students placed in reputed companies with smart package and also focuses on developing and escalating the skill of analysis, designing and problem solving, amongst students required to extend their career growth.

A Center of Excellence (CoE) in IoT typically aims to establish a specialized and highly proficient team or facility focused on the effective and efficient use of IoT for various engineering and scientific applications. The primary objectives of a IoT Center of Excellence may include:

- Facilitate collaboration with other CoEs, departments, and external entities.
- Host knowledge-sharing sessions, workshops, and seminars on IoT-related topics
- Provide training programs and resources to enhance the IoT skills of team members.
- Encourage innovation in IoT applications for solving complex engineering challenges.

COE-RF Circuits and Antenna Simulation aim to provide students with practical experience and understanding in the design, analysis, and simulation of high frequency circuits. The learning objectives are as follows:

Gain knowledge about the key components used in RF circuits, such as antenna, amplifiers, filters, mixers, and oscillators.

Use simulation tools to model and analyze the performance of antennas in different scenarios. This may include optimizing antenna parameters for specific applications.

Understand the fundamental principles of antennas, including types, radiation patterns, and impedance matching. Explore the design and analysis of basic antenna structures.

Drone Technology and Ham Radio

To encourage the students to gain the knowledge and work for the application in aerial photography, agriculture, plant protection, micro selfie, express transportation, disaster rescue, wildlife observation, monitoring infectious diseases, mapping, news reporting, power inspection. Surveillance in areas and terrains where troops are unable to safely go.

Amateur radio, also known as ham radio, is the use of the radio frequency spectrum for purposes of non-commercial exchange of messages, learning and practicing ham radio skills can be intellectually stimulating. It involves understanding radio equipment, antennas, propagation, and communication protocols. Ham radio provides fast and reliable communication during emergencies

INSTITUTE VISION & MISSION

Vision

To be a globally recognized institution distinguished by excellence in education, research, innovation, and entrepreneurship, producing competent & socially responsible technocrats for sustainable growth.

Mission

IM1: To cultivate a student-centric ecosystem that fosters experiential learning, ethical problem-solving, and sustainability.

IM2: To provide a conducive environment for the professional growth of faculty and staff through research and global collaboration, which contributes to the nation's overall development.

IM3: To nurture a culture of active citizenship through excellence in education, entrepreneurship, and innovation, producing socially responsible and competent technocrats.

DEPARTMENT VISION & MISSION

Vision

To cultivate a culture of academic rigor, technological leadership, and entrepreneurial spirit, producing competent professionals to contribute to the advancement of society, while upholding the highest standards of ethical practice.

Mission

DM1: To deliver a rigorous and contemporary education that fosters critical thinking, innovation, and prepares students for lifelong learning.

DM2: To empower students with cutting-edge technical skills, interdisciplinary knowledge, and an entrepreneurial mindset through hands-on projects, industry interaction, and collaborative research.

DM3: To instil strong ethical values and environmental consciousness in graduates, ensuring their contributions are sustainable, inclusive, and aligned with global standards of professional integrity.

PROGRAM OUTCOMES

PO1 Engineering knowledge: Apply knowledge of mathematics, natural science, computing, engineering fundamentals and an engineering specialization as specified in WKI to WK4 respectively to develop to the solution of complex engineering problems.

PO2 Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions with consideration for sustainable development. (WK1 to WK4).

PO3 Design/development of solutions: Design creative solutions for complex engineering problems and design/develop systems/components/processes to meet identified needs with consideration for the public health and safety, whole-life cost, net zero carbon, culture, society and environment as required. (WK5)

PO4 Conduct investigations of complex problems: Conduct investigations of complex engineering problems using research-based knowledge including design of experiments, modelling, analysis and interpretation of data to provide valid conclusions. (WK8)

PO5 Engineering tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering & IT tools, including prediction and modelling recognizing their limitations to solve complex engineering problems. (WK2 and WK6)

PO6 The Engineer and The World: Analyze and evaluate societal and environmental aspects while solving complex engineering problems for its impact on sustainability with reference to economy, health, safety, legal framework, culture and environment. (WK1, WK5, and WK7).

PO7 Ethics: Apply ethical principles and commit to professional ethics, human values, diversity and inclusion; adhere to national & international laws. (WK9)

PO8 Individual and Collaborative Team work: Function effectively as an individual, and as a member or leader in diverse/multi-disciplinary teams.

PO9 Communication: Communicate effectively and inclusively within the engineering community and society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations considering cultural, language, and learning differences.

PO10 Project Management and Finance: Apply knowledge and understanding of engineering management principles and economic decision-making and apply these to one's own work, as a member and leader in a team, and to manage projects and in multidisciplinary environments.

PO11 Life-Long Learning: Recognize the need for, and have the preparation and ability for i) independent and life-long learning ii) adaptability to new and emerging technologies and iii) critical thinking in the broadest context of technological change. (WK8)

PROGRAM SPECIFIC OUTCOMES

By the completion of Electronics & Communication Engineering program the student will be able to:

PSO1: Graduates will be able to design , analyze and implement electronic circuits and use techniques relevant to Electronics and Communication Engineering.

PSO2: Graduates will demonstrate the ability to apply communication engineering principles in developing innovative and sustainable solutions in areas such as wireless communication systems and antenna design.

PROGRAM EDUCATIONAL OBJECTIVES

PEO 1	Apply strong foundational knowledge and analytical skills in electronics and communication engineering to pursue successful careers in industry, academia, and research.
PEO 2	Lead and contribute to the development of innovative solutions in the field of electronics and communication by leveraging emerging technologies and entrepreneurial thinking.
PEO 3	Use engineering knowledge and skills responsibly to address real-world challenges, promoting sustainable development and improving quality of life..

ATAL FDP Conducted
Tittle- Antenna Engineering for Next-Gen Healthcare Technologies

The Department of Electronics and Communication Engineering at Galgotias College of Engineering and Technology (GCET), Greater Noida, successfully organized a six-day Faculty Development Program (FDP) on "Antenna Engineering for Next-Gen Healthcare Technologies" from **30 June to 5 July 2025**, sponsored by the AICTE Training and Learning (ATAL) Academy. The program aimed to enhance the knowledge of faculty members and researchers in the emerging area of antenna design and its applications in modern healthcare systems**. Dr. Sachin kumar** was the Co-ordinator and **Dr. Ankur Utsav** was the Co-cordinator for the FDP.

The FDP witnessed enthusiastic participation from more than 40 faculty members and researchers from various institutions across the Delhi-NCR region. The program featured expert lectures by distinguished academicians and industry professionals from reputed organizations such as IIT Roorkee, IIT Delhi, University of Delhi, NPL Delhi, CDAC, TCS, and ST Microelectronics.

The sessions covered topics including biomedical antenna design, wearable and flexible antennas, wireless technologies for healthcare, and emerging trends in telemedicine. The FDP also included hands-on training using HFSS simulation tools, research article discussions, and an industrial visit to the Solid State Physics Laboratory (SSPL), DRDO, Delhi.

The program concluded with a valedictory session where participants shared positive feedback and highlighted the FDP as an enriching platform for learning, collaboration, and research in healthcare-oriented antenna technologies.

Workshops Organized

1. A workshop on "**Full Custom IC Design using Cadence Virtuoso**" was organized **on 29 August 2025** at Venue **B-010 from 10:00 AM to 4:30 PM**.

The session was delivered by **Mr. Anish Kumar Sharma, Senior Application Engineer at Entuple Technologies**. The workshop aimed to introduce students to the fundamentals of integrated circuit (IC) design and the practical workflow used in the semiconductor industry.

During the session, the speaker explained how full custom **IC design** allows engineers to design circuits at the transistor level for maximum performance, power efficiency, and area optimization.

Students were also introduced to the **Cadence Virtuoso design environment**, which is widely used for **analog and mixed-signal IC design**.

The workshop included explanations of schematic design, transistor-level circuit implementation, simulation, and layout concepts. It helped students understand how theoretical electronics concepts are converted into actual chip designs used in modern electronic systems. The event was coordinated by **Mr. Amit Gupta,** who managed the organization and smooth execution of the workshop.

2. On date 11-12 Sept. 2025, The Department of Electronics and Communication Engineering organized an insightful workshop on "**ANSYS Electronics Suite and HFSS**", conducted by Mr. Shubhendra Mishra, Application Engineer, ARK Infosolutions Pvt. Ltd. Mr. Mishra discussed the all the relevant points during the session. The objective of the workshop on ANSYS Electronics Suite and HFSS is to provide students and faculty member with comprehensive exposure to advanced electromagnetic simulation tools used in RF and antenna engineering. The workshop aims to familiarize

learners with the features of ANSYS Electronics Suite and develop practical skills in HFSS for the 3D modeling, simulation, and analysis of antennas, RF circuits, and microwave components. By bridging theoretical concepts with hands-on design and simulation, the workshop helps participants understand antenna behavior, analyze S-parameters, and optimize device performance for real-world applications such as 5G, IoT, radar, and satellite communication. It further seeks to enhance research capabilities, improve employability, and encourage innovation by enabling participants to design and validate custom RF and antenna structures using professional-grade simulation platforms.

3. PCB Design workshop was conducted on **19 and 22 September 2025** in venues **B-206 and B-207**.

The workshop was conducted by **Mr. A. Ajay Kumar** to provide students with practical knowledge about Printed Circuit Board (PCB) design and its importance in electronic system development. During the workshop, students were introduced to the basic concepts of PCB layout, circuit schematic design, and component placement. The instructor explained how electronic circuits designed theoretically are converted into physical circuit boards used in real electronic devices. Students also learned about design rules, routing techniques, multilayer boards, and common PCB software tools used in the industry.Practical demonstrations helped students understand the step-by-step process of creating a PCB, from schematic capture to final board layout. The workshop enhanced students' understanding of electronics hardware development and real-world circuit implementation.

GUEST LECTURE

1. On Nov. 12, The Department of Electronics and Communication Engineering, in association with the GNIX Society, organized the guest lecture on " First Impression Count." With an audience of students and faculty members, at the **D-Block Auditorium** from **10:00 AM to 11:00 PM**.

The session was delivered by **Dr.Shikhaa Singh**, a renowned expert in the Softskills and professional communications, who shared insights into:

- The current state of Softskills in academia and industry.
- Importance of communication in professtionalism
- The importance of aligning academic curricula with industry needs.

- Career prospects and skill development opportunities by effective communication.

The lecture included interactive Q&A sessions, where students engaged actively with the speaker, gaining clarity on various technical and professional aspects of professtionalism.
It's help to the student to eveolve their point of view in the holistic development of technical and softskill in the professtionalism.

2. On Nov 14, 2025, **Dr. Vikash Mittal, Associate Professor ,ECE, NIT Krukshetra** gave his guest leacture on Career Planning and Pre-Placement Talk on "Multi Rate Signal Processing using FIR Filters." This session attracted 114 students and 4 faculty members. The seminar was organized by the Department of Electronics and Communication Engineering in association with the GNIX Society at Galgotias College of Engineering and Technology. It was conducted in **Seminnar Hall Block-A** from **10:00 AM to 12:00 PM**.

The session was led by **Dr. Vikash Mittal, Associate Professor ,ECE,NIT Krukshetra**, who shared her valuable experience and expertise on career-building strategies. Key topics covered in the seminar included:

- Developing a structured career plan.
- Understanding the expectations of the corporate world.
- Strategies for excelling in pre-placement tests and interviews.
- Importance of industry oriented study learning in career advancement.

Conference I3CSET-2025

Department of ECE at Galgotias College Hosts International Conference on on Computing, Communication, and Sustainable Energy Technologies (I3CSET 2025)

Greater Noida, 28-29 November 2025 – The **Department of Electronics and Communication Engineering (ECE)** at **Galgotias College of Engineering and Technology** successfully organized the **International Conference on on Computing, Communication, and Sustainable Energy Technologies (I3CSET-2025)** and was conducted in a **hybrid format** to ensure maximum engagement. The conference served as a global platform for engineers, academicians, researchers, and industry professionals to discuss recent advancements and emerging research directions in computing, communication systems, intelligent technologies, and sustainable energy solutions.

I3CSET-2025 is a non-profit international conference aimed at promoting knowledge sharing, interdisciplinary collaboration, and innovation among experts from diverse domains. The conference proceedings titled "Computing, Communication, and Sustainable Energy Technologies – Communication Techniques & Intelligent Systems" are technically associated with CRC Press, Taylor & Francis and are intended for Scopus indexing.

The inauguration ceremony was held on 28 November 2025 at D-Block, GCET. The event was graced by Dr. Mohammad Rihan, Director General, National Institute of Solar Energy (NISE), Government of India, as the Chief Guest. Prof. Vikram Bali, Director, GCET, warmly welcomed the dignitaries and participants. The Conference Chair, Dr. Ram Lal Yadava, highlighted that the conference received more than 750 research paper submissions from over ten countries, out of which over 190 high-quality papers were accepted after a rigorous double blind peer-review process.

During the conference, distinguished speakers delivered insightful lectures on emerging topics such as Artificial Intelligence, Intelligent Computing, Communication Systems, and Sustainable Energy Technologies, encouraging participants to pursue innovative research. The conference hosted 24 technical sessions, where more than 190 research papers were presented, facilitating productive discussions and academic exchange.

Dr. R. L. Yadava presented the conference report, acknowledging the overwhelming response and expressing gratitude to the **organizing committee, volunteers, and sponsors**.

Industrial Visit

1. On **6 February 2026**, a group of **41 students** along with **two faculty members, Dr. Sachin Kumar and Dr. Shilpee Patil**, visited the **Solid State Physics Laboratory (SSPL), DRDO**, located in **Timarpur, Delhi**.

The visit lasted approximately **6 hours** and aimed to provide students with practical exposure to advanced semiconductor and defense-related technologies. During the visit, scientists and engineers introduced the role of SSPL in developing **semiconductor devices, optoelectronic components, sensors, and materials for strategic defense applications**. Students were shown presentations and demonstrations about **microelectronics fabrication, crystal growth, and chip-related technologies** used in defense systems.

The experts explained how research in **solid-state physics and semiconductor engineering** contributes to communication systems, surveillance devices, and missile technology. The visit helped students connect theoretical concepts from electronics and communication engineering .

2. On 20 February 2026, a group of students visited an electronic component manufacturing plant located at **DEKI Electronics Sector-58**, Noida as part of an Industrial exposure program. The objective of the visit was to understand the practical manufacturing process of electronic components and observe how theoretical electronics concepts are applied in real industrial environments. During the visit, industry experts explained the complete production workflow, starting from raw material preparation, PCB fabrication, component assembly, soldering processes, testing, and quality control. Students were introduced to various automated machines and production lines used for assembling electronic components with high precision.The engineers also discussed the importance of quality assurance, reliability testing, and safety standards followed in electronics manufacturing. The visit provided valuable insights into large-scale production techniques and industrial practices used in the electronics sector, helping students better understand how electronic devices and components are manufactured and tested before reaching the market.

- Understanding **soldering techniques and automated manufacturing systems**
- Demonstration of **testing and quality control procedures**
- Discussion on **industrial safety and manufacturing standards**
- Interaction with **engineers and technical staff**
- Practical understanding of **electronics manufacturing and production workflow**


GPS Map Camera
Greater Noida,Uttar Pradesh,India
India Expo Plaza, Knowledge Park 2, Greater Noida, Uttar Pradesh 201306, India
Lat 28.457179, Long 77.498593
Friday, 20/02/2026 10:57 AM GMT+05:30
Note : Captured by GPS Map Camera


GPS Map Camera
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GPS Map Camera
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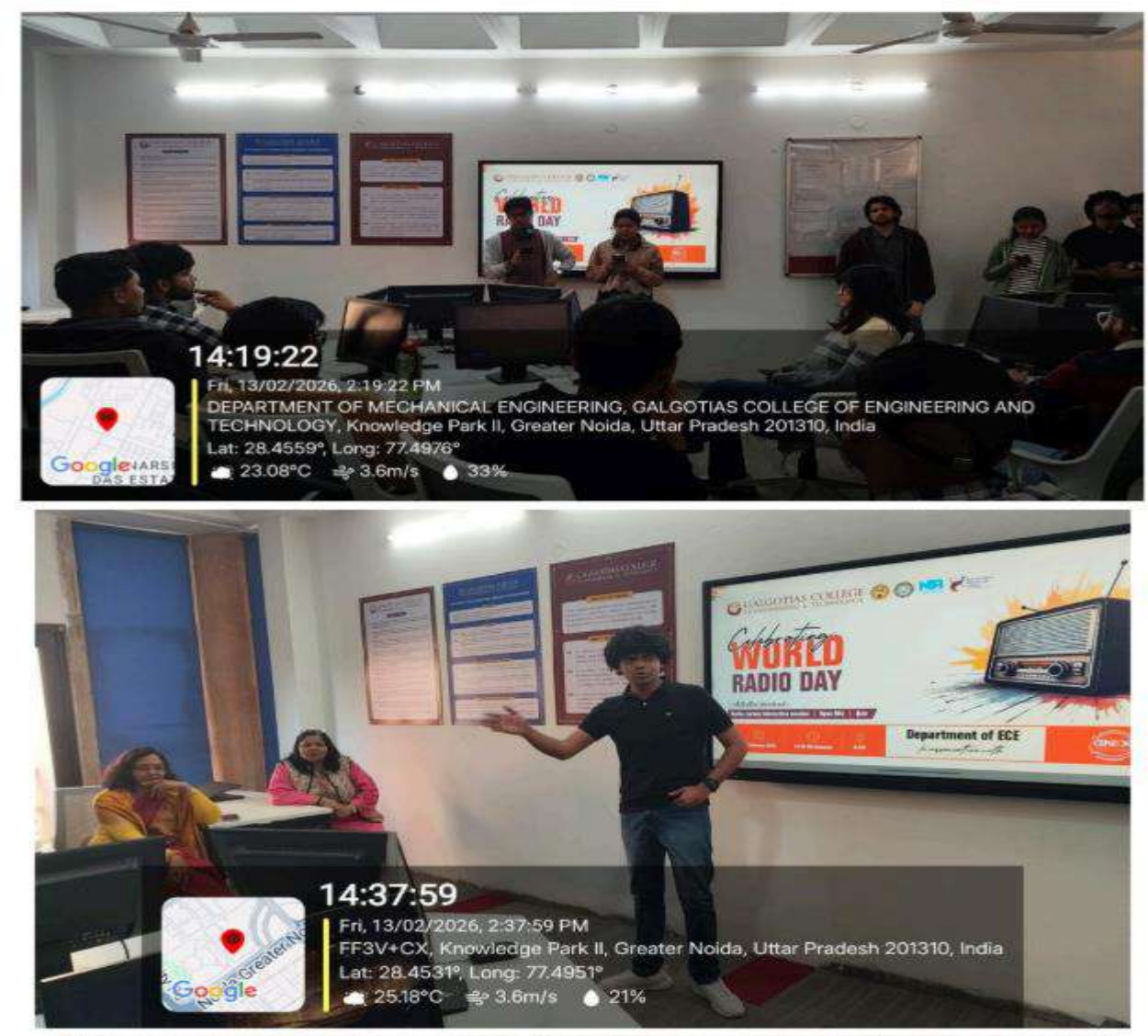
WORLD RADIO DAY CELEBRATION

On, 13 Feb. 2026, The Electronics and Communication Engineering Department, in association with GNIX Society, celebrated World Radio Day to emphasize the importance of radio as a reliable and influential communication medium. The objective of the event was to create awareness about the importance of radio in communication.The event features a Radio Jockey interactive session, an open mic, and a quiz, offering students an engaging and informative experience. It provides a platform for interaction, creativity, and learning while connecting theoretical knowledge with real-world communication practices. Students gained a clear understanding of radio communication and improved public speaking and audience interaction skills.



FACULTY PUBLICATIONS

S.No.	Type (Journal/ Conference / Book Chapter)	Paper Title	GCET Authors	Journal/ Conference Name	ISSN/ISBN	DOI	Indexing (SCIE/Scopus/ ESCI)
1	Journal	A Self-Decoupled MIMO Patch Antenna System for V2X Communications	Dr. Sachin Kumar	IEEE Access	2169-3536	10.1109/ACCESS.2025.3554151	WoS
2	Journal	A Self-Octaplexing Millimeter-Wave Antenna Array for 5G FR2 Spectrum	Dr. Sachin Kumar	Scientific Reports	2045-2322	10.1038/s41598-025-94786-5	WoS
3	Journal	An Improved Gain Antenna Array for Telehealth Monitoring on the Internet of Things Platform	Dr. Sachin Kumar	IEEE Internet of Things Journal	2327-4662	10.1109/JIOT.2024.3476686	WoS
4	Journal	Compact 16-Port MIMO Antenna for Sub-6 GHz Communications	Dr. Sachin Kumar	IEEE Access	2169-3536	10.1109/ACCESS.2025.3541738	WoS
5	Journal	Design and Analysis of Wideband Single-Layer Reflectarray Antenna for Remote Sensing and Environmental Monitoring	Dr. Sachin Kumar	Sensors	1424-8220	10.3390/s25030954	WoS
6	Journal	Design and Implementation of High Isolation Textile MIMO Antenna for Wearable Applications	Dr. Sachin Kumar	International Journal of Communication Systems	1099-1131	10.1002/dac.70010	WoS
7	Journal	High-Gain 16-Port mm-Wave MIMO Antenna With Spiral-Shaped Electromagnetic Band Gap for 5G Applications	Dr. Sachin Kumar	International Journal of Communication Systems	1099-1131	10.1002/dac.70074	WoS
8	Journal	Investigation of a Rectangular Dielectric Resonator Antenna Working in Higher Order Modes	Dr. Sachin Kumar	International Journal of Antennas and Propagation	1687-5877	10.1155/ijap/5582517	WoS

		Using Perturbation Theory					
9	Journal	Low-Profile Conformal Single-Sided Miniaturized Frequency Selective Surface for Wideband Shielding	Dr. Sachin Kumar	Scientific Reports	2045-2322	10.1038/s41598-025-92421-x	WoS
10	Journal	Modern RFID Reader Antennas: A Review of the Design, State-of-the-Art, and Research Challenges	Dr. Sachin Kumar	IEEE Access	2169-3536	10.1109/ACCESS.2024.3524387	WoS
11	Journal	Optimal Satellite Selection Using Quantum Convolutional Autoencoder for Low-Cost GNSS Receiver Applications	Dr. Sachin Kumar	Scientific Reports	2045-2322	10.1038/s41598-025-91959-0	WoS
12	Journal	Reconfigurable Ultra-Miniaturized MIMO Antenna for Tissue-Independent Communication in Injectable Medical Implants	Dr. Sachin Kumar	IEEE Access	2169-3536	10.1109/ACCESS.2025.3535780	WoS
13	Journal	Fast and Robust Mixed Gas Identification and Recognition Using Tree-Based Machine Learning and Sensor Array Response	Dr. Sachin Kumar	Scientific Reports	2045-2322	10.1038/s41598-025-19063-x	WoS
14	Journal	Triple-Band Notched and Highly Decoupled MIMO Antenna Using Characteristic Mode Analysis	Dr. Sachin Kumar	IEEE Access	2169-3536	10.1109/ACCESS.2025.3611809	WoS
15	Journal	A Common Grounded Ultra-Wideband Diversity/MIMO Antenna with High Inter-Element Isolation	Dr. Sachin Kumar	Scientific Reports	2045-2322	10.1038/s41598-025-10635-5	WoS
16	Journal	Active Multifunctional Frequency Selective Surfaces: An Insight into Design,	Dr. Sachin Kumar	IEEE Access	2169-3536	10.1109/ACCESS.2025.3586046	WoS

		Behavior Analysis, and Applications					
17	Journal	Design and Analysis of Sub-1 GHz Antenna for Non-Standalone Vehicular Communication	Dr. Sachin Kumar	Scientific Reports	2045-2322	10.1038/s41598-025-07188-y	WoS
18	Journal	3D-Printed Reflect-Transmit-Array Antenna With Modified Transmitarray Mode for RCS Reduction	Dr. Sachin Kumar	IEEE Access	2169-3536	10.1109/ACCESS.2025.3574052	WoS
19	Journal	A Highly Decoupled and Compact Co-circularly Polarized MIMO Filtering Antenna Array System for Vehicular Communications	Dr. Sachin Kumar	Scientific Reports	2045-2322	10.1038/s41598-025-28992-6	WoS
20	Journal	Eight Port Millimeter Wave HMSIW MIMO Antenna Array for V2V Communication	Dr. Sachin Kumar	Scientific Reports	2045-2322	10.1038/s41598-025-24710-4	WoS
21	Journal	Low-Profile Compact Integrated 16-Port MIMO Antenna Covering Sub-6 GHz and Millimeter-Wave 5G Bands	Dr. Sachin Kumar	IEEE Access	2169-3536	10.1109/ACCESS.2025.3629113	WoS
22	Conference	Eight-Port MIMO Antenna with Improved Isolation for 5G Devices	Dr. Sachin Kumar	2025 International Conference on Intelligent and Cloud Computing, Bhubaneswar		10.1109/ICoICC64033.2025.11052081	SCOPUS
23	Conference	Low-Profile Multiband Circularly Polarized Antenna for Indoor/Outdoor Tracking and Sensing Applications	Dr. Sachin Kumar	2025 IEEE 14th International Conference on Communication Systems and Network Technologie		10.1109/CSNT64827.2025.10967737	SCOPUS

				s (CSNT), Bhopal			
24	Journal	A compact four-element electromagnetic band gap and slots-inspired ultra-wideband multiple-input-multiple-output antenna with quad-band rejection characteristics	Dr. Ranjana Kumari	Advanced Electromagnetics	2119-0275	10.7716/aem.v14i2.2470	WoS
25	Journal	Metamaterial-Inspired Multi-port Tunable THz Antenna with Self-Multiplexing and MIMO Capability for 6G Wireless and Sensing Applications	Dr. Ranjana Kumari	Brazilian Journal of Physics	1678-4448	10.1007/s13538-025-01717-w	WoS
26	Conference	Design of a Radiation Pattern Reconfigurable Leaky Wave Antenna	Dr. Ranjana Kumari	International Conference on Innovations in Intelligent Systems: Advancements in Computing, Communication, and Cybersecurity (ISAC3)		10.1109/ISAC364032.2025.11156526	SCOPUS
27	Conference	Performance Analysis of Hexagonal slots inspired Frequency reconfigurable MIMO antenna for 5G-Sub 6 GHz Applications	Dr. Ranjana Kumari	International Conference on Innovations in Intelligent Systems: Advancements in Computing, Communication, and Cybersecurity (ISAC3)		10.1109/ISAC364032.2025.11156422	SCOPUS
28	Journal	High-Isolation Multilayered SIW-Based MIMO Antenna for Next-Generation Terahertz Applications	Dr. Ranjana Kumari	Brazilian Journal of Physics	1678-4448	10.1007/s13538-025-01911-w	WoS

29	Journal	Numerical Comparative Analysis of 10T-SRAM Cells with 6T, 7T, 8T, and 9T Using Vertical Nanowire Tunnel FETs	Dr. Ashish Gupta	Semiconductors	1090-6479	10.1134/S1063782625600299	WoS
30	Journal	Temperature Induced Analog Performance Modulation of High-Vertical Nanowire Tunnel FET	Dr. Ashish Gupta	Semiconductors	1090-6479	10.1134/S1063782625600020	WoS
31	Journal	An Adaptive Fractional Order MPPT Control for Maximum Power Extraction From Solar Photovoltaic System	Dr. Himanshu Chhabra	International Journal of Adaptive Control and Signal Processing	1099-1115	10.1002/acs.3988	WoS
32	Other	Machine learning assisted EEG signal classification for automated diagnosis of mental stress	Dr. Himanshu Chhabra	Book Chapter: Artificial Intelligence in Biomedical and Modern Healthcare Informatics		10.1016/B978-0-443-21870-5.00042-X	SCOPUS
33	Journal	Compact reconfigurable dual-polarized half-mode SIW-based CRLH leaky-wave antenna for satellite communication	Dr. Ruchi Agarwal	Electromagnetics	1532-527X	10.1080/02726343.2025.2494078	WoS
34	Conference	Design of a Radiation Pattern Reconfigurable Leaky Wave Antenna	Dr. Ruchi Agarwal	2025 International Conference on Innovations in Intelligent Systems: Advancements in Computing, Communication, and Cybersecurity (ISAC3)		10.1109/ISAC364032.2025.11156526	SCOPUS
35	Conference	A blind assistant system utilizing object detection for	Dr. Shahid Eqbal	Book Chapter:		9.781E+12	SCOPUS

		improved spatial awareness		Taylor and Francis			
36	Other	Brain tumor detection and classification by leveraging deep neural network	Dr. Shahid Eqbal	Book Chapter: Taylor and Francis		9.781E+12	SCOPUS
37	Other	Secure and intelligent data-driven technique with IPv6 in Internet of Things applications	Dr. Arun Kumar	Book Chapter: Taylor and Francis		9.781E+12	SCOPUS
38	Journal	Wireless body area network: Architecture and security mechanism for healthcare using internet of things	Dr. Arun Kumar	International Journal of Engineering Business Management	1847-9790	10.1177/1847979025131 5317	WoS
39	Journal	Optimized deep learning framework for pomegranate disease detection using nature-inspired algorithms	Dr. Arun Kumar	Plant method	1746-4811	10.1186/s130 07-025-01447-9	WoS
40	Journal	Entropy-driven deep learning framework for epilepsy detection using electro encephalogram signals	Dr. Arun Kumar	Neuroscienc e	1873-7544	10.1016/j.ne uroscience.2 025.05.003	WoS
41	Journal	A Cloud-Enabled IoT Framework for Liver Disease Detection Using ML and Embedded Electronics	Dr. Brajesh Kumar Singh	Communica tions on Applied Nonlinear Analysis	1074-133X	10.52783/can a.v32.2947	SCOPUS
42	Journal	Zero Trust Management over Consumer Technology based IoT Edge Node for SDN Communication and Control of Cyber-Physical Systems	Dr. Brajesh Kumar Singh	IEEE Transactions of Consumer Electronics	1558-4127	10.1109/TCE .2025.3563408	WoS
43	Journal	Digital Forensic Authentication and Key Agreement Protocol for Biometric-based Consumer Electronics Devices	Dr. Brajesh Kumar Singh	IEEE Transactions on Consumer Electronics	0098-3063	10.1109/tce. 2025.3587082	WoS

44	Journal	A hybrid PKI and spiking neural network approach for enhancing security and energy efficiency in IoMT-based healthcare 5.0	Dr. Brajesh Kumar Singh	SLAS Technology	2472-6311	10.1016/j.slast.2025.100284	WoS
45	Journal	A Novel Parallel Mechanism-Based Dynamic Wearable Assistive Device for Neck Rehabilitation	Dr. Brajesh Kumar Singh	International Journal of Information Technology & Decision Making	1793-6845	10.1142/S0219622025500166	WoS
46	Journal	Deep learningâ€‘based steganography frameworkÂ toÂ enhance adâ€‘hoc cloud security	Dr. Brajesh Kumar Singh	International Journal of Information Technology	2511-2112	10.1007/s41870-025-02648-0	SCOPUS
47	Journal	Deep Learning-Enabled MANET Architecture for Real-Time Traffic Sign Detection	Dr. Brajesh Kumar Singh	International Journal of Environmental Sciences	1735-2630	10.64252/f15brz44	WoS
48	Other	Finger Knuckle Print of an Emerging Person Recognition Trait for Online Applications (Book Chapter no 11)	Dr. Brajesh Kumar Singh	Book Chapter: Apple Academic Press, CRC Press, Taylor and Francis		9.78178E+12	SCOPUS
49	Journal	Parameter Variation Analysis of Perovskite ($KGeCl_3$) Based Solar Cell Using SCAPS-1D Simulations	Dr. Parveen Kumar	Optoelectronics and Advanced Materials, Rapid Communications	2065-3824		WoS
50	Conference	IoT Enabled Smart Mess with Nutrition Benefits and Waste Management	Dr. Ankur Utsav	4th International Conference on Advancement in Electronics & Communication Engineering (AECE)		10.1109/AECE62803.2024.10911472	SCOPUS

51	Journal	CRNN-KHO: hybrid deep learning optimization framework for enhancing energy efficiency in IoT-enabled wireless networks	Dr. Kuldeep Singh	International Journal of Information Technology	2511-2112	10.1007/s41870-025-02792-7	SCOPUS
52	Journal	Distributed Fuzzy Logic Algorithm for Cyberattack Detection and Energy Efficiency in Wireless Sensor Networks	Dr.Monika Bhatnagar	International Journal of Interactive Mobile Technologies (iJIM)	1865-7923	10.3991/ijim.v19i15.54871	SCOPUS
53	Other	Localization and Synchronization Techniques for Enhanced RFID and RF Sensing Applications	Dr.Monika Bhatnagar	Book Chapter: Apple Academic Press, CRC Press, Taylor and Francis		9.78177E+12	SCOPUS
54	Conference	Analysis and design of capsule antenna for biomedical applications	Dr. Shilpee Patil	2nd International Conference on Optimization Techniques in Engineering and Technology Â (ICOTET Â 2024)		10.1063/5.0286360	SCOPUS
55	Conference	Design and analysis of circular patch wearable antenna for WBAN applications	Mr. Anil Kumar Pandey	2nd International Conference on Optimization Techniques in Engineering and Technology Â (ICOTET Â 2024)		10.1063/5.0293612	SCOPUS

FACULTY PATENT DETALS

Sl. No.	Patent Application No.	Status of Patent (Published / Granted)	Inventor/s Name	Title of the Patent
1	202411057145	Published	Neeta Singh, A.M. Zaidi, **Sachin Kumar**, B.K. Kanaujia, Deepak Gangwar	A Metamaterial-Based Antenna Array System for Object Detection in Dusty Atmospheres Using Millimeter-Wave Frequencies
2	202441000316	Published	Malathi Kanagasabai, Lavanya Viswanathan, M.G.N. Alsath, K.H. Priya, P.S. Kumar, S.K. Das, **Sachin Kumar**, R.R. Thipparaju	Multiband Complementary Frequency Selective Surface: A Method and Device Thereof
3	202411070030	Granted	Shailesh, Garima Srivastava, **Sachin Kumar**, Rashmi Gupta	A Wearable Sixteen-Port Flexible Multiple-Input-Multiple-Output (MIMO) Antenna Device
4	202411045363	Granted	Chandni Bajaj, D.K. Upadhyay, **Sachin Kumar**, B.K. Kanaujia	A 3-D RFID Reader Antenna System With Cubic Metasurface Backing
5	202541072562	Published	Dr. P. Ganesh Kumar, Dr. **Ankur Utsav**, Dr. Amit Abhishek, Dr. Prashanth M.V, P. Showmiya, Dr. D. Karthickeshwaran	ONTOLOGY-BASED AI FRAMEWORK FOR CONSUMER-CENTRIC BUSINESS PROCESS CUSTOMIZATION
6	403541-001	Granted	**Dr. Monika Bhatnagar**	IOT ENABLED RESPIRATORY SENSING DEVICE

FACULTY ACHIEVEMENTS

Name of the Faculty	Achievements	Year	Pics
1.Dr. Sachin Gupta	1. Recognized in the list of "world's Top 2% Scientists" released by the Stanford University USA, (2025). 2. Research Excellence Award by GCET	2025	 

2. Dr. Arun Rana	Recognized in the list of "world's Top 2% Scientists" released by the Stanford University USA, (2025).	2025	
3. Dr. Shilpee Patil	Achieved Silver Medal (Elite Certification) in the NPTEL Online Certification course Entrepreneurship and IP Strategy offered by Indian Institute of Technology Kharagpur.	2025	

STUDENT ACHIEVEMENTS

Name of the Student	Achievements	Year	Pics
1. Mr. Ayush Patel	Third year ECE student project "Stealthera: Ultra-Thin AI Medical Wearable for Proactive Senior Safety, Connectivity, and Continuous Health Monitoring." shortlisted for the YUKTI Innovation Repository and the Productisation Fellow Program by the Ministry of Education (MoE) and AICTE.	2025	
2. Mr. Vasu Pandey	Third year ECE student developed a mobile app named "Viruj Health" which is DPIIT registered and an AI-powered digital healthcare platform that enables individuals to securely manage medical records, connect with healthcare providers, and access intelligent health insights. The startup is incubated in **STARTINUP** incubation centre.	2025	

Placement Highlights 2025: A Stellar Year of Success

Department of ECE Achieves Remarkable Placement Success

The **Department of Electronics and Communication Engineering (ECE)** at **Galgotias College of Engineering and Technology** continues to excel in **placements**, with students securing opportunities in **top companies across diverse industries**. The **placement drive for 2024-25** witnessed an impressive number of students being recruited by **leading organizations** such as **LT Technology Services, Vivo India, Bosch Ltd, Infosys, Rockwell Automation, UNO MINDA, Coding Ninjas, Univo Education Pvt. Ltd. and many more**.

A total of **95 students** from the ECE department successfully secured placements, with several students receiving **multiple job offers**. Companies spanning various domains, including **telecommunications, automation, semiconductor design, software development, and aerospace**, actively recruited talented students, reinforcing the **college's strong industry-academic collaborations**.

Among the top recruiters were:

✅ **LT Technology Services**
✅ **Vivo India**
✅ **Bosch Ltd**
✅ **Unominda**
✅ **Infosys**
✅ **Rockwell Automation**
✅ **Raamtel Solutions Pvt. Ltd**

The department takes pride in its students' **outstanding achievements** and remains committed to **nurturing technical expertise, fostering innovation, and preparing students for dynamic industry roles**. Congratulations to all the placed students for their **hard work and dedication**!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ILJIN Electronics (I) Pvt. Ltd.
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DREAM
JOBS
Anjali Singh
B.Tech (ECE)
Nishant Kr. Rai
B.Tech (ECE)
Tanya Srivastava
B.Tech (ECE)


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Congratulations!
Package offered
6.25
Lakh Per Annum
Batch-2026
for being selected at
UNO MINDA
Medhavi Pandey
B.Tech-ECE


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Kumari Harshita
B.Tech-ECE


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Shivam Sharma
B.Tech-ECE

Eminent Recruiters: