

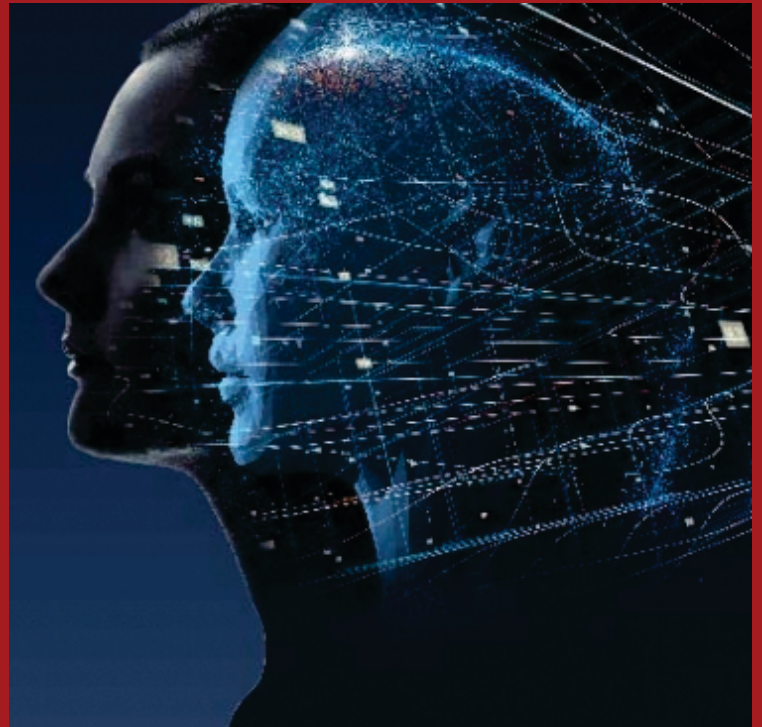


GALGOTIAS COLLEGE OF ENGINEERING & TECHNOLOGY

EC-NEWSLETTER 2019-20

Vol-6/April, 20

“EC-Newsletter” is the yearly 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

Chief Editor: Dr. Lakshmanan M (Prof. and Head, ECE Dept)

Faculty Editor: Mr. Hitesh Kumar (Asst. Professor)

Student Editor: Ashish Kumar Singh

Atyant Jain

Saksham Chaurasia

MESSAGE FROM HEAD OF THE DEPARTMENT (HOD)



Electronics and Communication Engineering Electronics & Communication Engineering deals with the electronic devices, circuits, communication equipments like transmitter, receiver, integrated circuits (IC). It also deals with basic electronics, analog and digital transmission & reception of data, voice and video (Example AM, FM, DTH), microprocessors, satellite communication, microwave engineering, antennae and wave progression. It aims to deepen the knowledge and skills of the students on the basic concepts and theories that will equip them in their professional work involving analysis, systems implementation, operation, production, and maintenance of the various applications in the field of Electronics and Communications Engineering. The department aims to impart high quality education in ECE and conduct top notch research in ECE related fields. The department provides state-of-art infrastructure and computing facilities to students and faculty. The faculty members are actively involved in different domains of research with special focus in four thrust areas: (i) Wireless Communication and Networks (ii) Microwave and Antennas, (iii) VLSI Design (iv) Communication Systems (v) Signal and Image Processing. The department has a regular hardware and software labs as well as the state-of-art research labs in microwave and antennas, where faculty and students are working on funding projects and offering consultancy services. Some of the available softwares in ECE department are MATLAB, HFSS, ns-2, ns-3, Riverbed Academic edition, OrCAD PSPICE, eSim, SCILAB, OR-Tools, Expeyes, etc. The Department follows a well proven pedagogy of sharing knowledge with the young and vibrant minds of the college. As we are affiliated to AKTU University, Lucknow, the curriculum and subjects are prescribed by AKTU University. In addition to instruction in core ECE subjects, we also teach elective subjects in advanced topics such as Voice over Internet Protocol, Filter Design, Digital Image Processing, Digital System Design using VHDL, Speech Processing, Advance Digital Design using Verilog, Microcontroller for Embedded Systems, etc. The department imparts world class training and research besides promoting active industry-institute collaboration by identifying current trends and taking part in sponsored research projects and consultancy services. The department also has a worldwide reach with its vibrant alumni network. Working shoulder with shoulder with the institution, it is constantly aiming towards reaching greater heights to serve the needs of the society and meet the aspirations of the student community.

About ECE Department

The Department of ECE offers B.Tech and M.Tech courses in Electronics and Communication Engineering from Dr. A.P.J. Abdul Kalam Technical University, (formerly Uttar Pradesh Technical University / Gautam Buddh Technical University) Lucknow. Electronics & Communication Engineering deals with the electronic devices, circuits, communication equipments like transmitter, receiver, integrated circuits (IC), microprocessors, satellite communication, microwave engineering, antenna and wave propagation. The department aims to impart high quality education in ECE and conduct top notch research in ECE related fields.

The department provides state-of-art infrastructure and computing facilities to students and faculty. The faculty members are actively involved in different domains of research with special focus in four thrust areas:

1. Wireless Communication and Networks
2. Microwave and Antennas,
3. VLSI Design
4. Communication Systems
5. Signal and Image Processing.

The department has a regular hardware and software labs as well as the state-of-art research labs in microwave and antennas, where faculty and students are working on funding projects and offering consultancy services. Some of the available softwares in ECE department are MATLAB, HFSS, ns-2, ns-3, Riverbed Academic edition, OrCAD PSPICE, eSim, SCILAB, OR-Tools, Expeyes, etc. The Department follows a well proven pedagogy of sharing knowledge with the young and vibrant minds of the college. As we are affiliated to AKTU University, Lucknow, the curriculum and subjects are prescribed by AKTU University. In addition to instruction in core ECE subjects, we also teach elective subjects in advanced topics such as Voice over Internet Protocol, Filter Design, Digital Image Processing, Digital System Design using VHDL, Speech Processing, Advance Digital Design using Verilog, Microcontroller for Embedded Systems, etc.

The department imparts world class training and research besides promoting active industry-institute collaboration by identifying current trends and taking part in sponsored research projects and consultancy services. The department also has a worldwide reach with its vibrant alumni network. Working shoulder with shoulder with the institution, it is constantly aiming towards reaching greater heights to serve the needs of the society and meet the aspirations of the student community.

Vision of Institute

To be a leading educational institution recognized for excellence in engineering education and research producing globally competent and socially responsible technocrats.

Mission of Institute

IM1: To provide state of the art infrastructural facilities that support achieving academic excellence.

IM2: To provide a work environment that is conducive for professional growth of faculty and staff.

IM3: To collaborate with industry for achieving excellence in research, consultancy and entrepreneurship development.

Vision of Department

To be recognized as a center of excellence in Electronics and Communication Engineering for the quality and global education, interdisciplinary research and innovation, to produce committed graduates who can apply knowledge and skills for the benefit of society.

Mission of Department

DM1: To provide quality education by providing state of the art facility and solutions for global challenges.

DM2: To provide a framework for promoting the industry-institution collaboration and empower the students in interdisciplinary research.

DM3: To transform students into socially responsible, ethical and technically proficient engineers with innovative skills and usage of modern tools.

DM4: To make the students corporate ready with spirit and necessary interpersonal skills.

Program Outcomes

- P01 Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- P02 Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- P03 Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- P04 Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- P05 Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- P06 The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- P07 Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- P08 Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- P09 Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- P010 Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- P011 Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- P012 Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcomes

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

- PS01:** Design and develop models for analog & digital electronic circuits and systems.
- PS02:** Design, develop and test electronic and communication systems for applications with real time constraints.

Program Educational Objectives




PEO 1	Graduates will excel in their career by acquiring knowledge in the field of Electronics and Communication Engineering with the usage of modern tools and emerging technologies.
PEO 2	Graduates will have the capability to analyze real life problems of the society and produce innovative solutions.
PEO 3	Graduates exhibit professionalism, ethical attitude, communication skills and team work in core engineering, academia and research organizations through professional development and life-long learning.

List of Faculty in The Department:

Sr. No	Name	Qualification	Area of Specialization	Designation
1	Dr. Lakshmanan. M	Ph. D	Wireless Communication	Professor & HOD
2	Dr. R.L. Yadava	Ph. D	Communication	Professor
3	Dr. Jaspreet Kour	Ph. D	Image Processing	Professor
4	Dr. S. Pratap Singh	Ph. D	Wireless Communication	Associate Professor
5	Mr. Atul Kumar	M. Tech	Electronics and Communication	Associate Professor
6	Mr. Shahid Eqbal	M. Tech	Digital Electronics and Systems	Associate Professor
7	Mr. Amanpreet Singh Saini	M. S	Wireless Communication	Assistant Professor
8	Mr. Saurabh Katiyar	M. Tech	Micro Electronics and Embedded Technology	Assistant Professor
9	Mr. P.C. Joshi	M. Tech	VLSI Design	Assistant Professor
11	Mr. Kuldeep Singh	M. Tech	Electronics and Communication	Assistant Professor
12	Mr. Gavendra Singh	M. Tech	Control and Instrumentation	Assistant Professor
13	Mr. Amit Gupta	M. Tech	VLSI Design	Assistant Professor
14	Ms. Ranjana Kumari	M. Tech	Electronics and Communication	Assistant Professor
15	Ms. Ruchi Agrawal	M. Tech	Communication Engineering	Assistant Professor

16	Mr. Ankit Sharma	M. Tech	Signal Processing	Assistant Professor
17	Mr. Deependra Sinha	M. Tech	Electronics and Communication	Assistant Professor
18	Mr. Madan Kumar Sharma	M. Tech	Electronics and Communication	Assistant Professor
19	Mr. Gaurav Mehra	M. Tech	VLSI Design	Assistant Professor
20	Mr. Vinay Singh	M. Tech	Digital Systems	Assistant Professor
21	Mr. Bishnu Deo Kumar	M. Tech	Mechatronics	Assistant Professor
22	Mr. Gaurav Saxena	M. Tech	Microwave Electronics	Assistant Professor
23	Mr. Mohd. Shibly	M. Tech	Nano Technology	Assistant Professor
24	Mr. Piyush Jain	M.E	Electronics	Assistant Professor
25	Mr. Hitesh Kumar	M. Tech	Instrumentation and Control	Assistant Professor
26	Ms. Shristi Priya	M.E	Wireless Communication	Assistant Professor
27	Ms. Ruchi Tripathi	M. Tech	Communication Engineering	Assistant Professor
28	Mr. Upendra kumar Acharya	M. Tech	Electronics and Communication	Assistant Professor
29	Ms. Rekha Rani	M.E	Electronics and Communication	Assistant Professor
30	Mr. Ausaf Hasan Tarique	M. Tech	Electronics and Communication	Assistant Professor
31	Mr. A. S. Mohammed Shariff	M.E	VLSI Design	Assistant Professor
32	Ms. S. Vaishnavi	M.E	Communication and Networking	Assistant Professor

New Faculty Joined In This Academic Year:

S. No	Name	Qualification	Area of Specialization	Designation	Photo
1	Mr. Bishnu Deo Kumar	M. Tech	Mechatronics	Assistant Professor	
2	Mr. Hitesh Kumar	M. Tech	Instrumentation and Control	Assistant Professor	
3	Mr. A. S. Mohammed Shariff	M.E	VLSI Design	Assistant Professor	
4	Ms. S. Vaishnavi	M.E	Communication and Networking	Assistant Professor	
5	Mr. Gavendra Singh	M. Tech	Control and Instrumentation	Assistant Professor	

Faculty Publications:

Faculty Publications in Journals

S. No.	Name of Author	Title of Paper	Category	Name of Journal	Publication Month/ Year
1	Ankit Sharma, et al.	Design of a wideband polarisation conversion metasurface and its application for RCS reduction and gain enhancement of a circularly polarised antenna	International	IET Microwaves, Antennas and Propagation, Vol. 13, No. 9, pp: 1427-1437	Jul-19
2	Ramlal Yadava, et al.	Design & simulation of microstrip patch antenna for Uwb applications	International	International Journal of Recent Technology and Engineering, Vol. 8, No. 2, Special Issue 3, pp. 1311-1315	Jul-19
3	Ramlal Yadava, et al.	Analysis and design of DGS by inserting of a active element PIN diode in slot patch	International	International Journal of Innovative Technology and Exploring Engineering, Vol. 8, No. 9, Special Issue, pp. 661-663	Jul-19
4	Lakshmanan. M, et al.	Nipple Segmentation and Localization Using Modified U-Net on Breast Ultrasound Images	International	Journal of Medical Imaging and Health Informatics,, Vol. 9, No. 9, pp: 1827 – 1837	Jul-19
5	Ankit Sharma, et al.	Characterization and Performance Measurement of Low RCS Wideband Circularly Polarized MIMO Antenna for Microwave Sensing Applications	International	IEEE Transactions on Instrumentation and Measurement, Vol. 69, No. 6, 8809099, pp: 3847-3854	Jun-20
6	Lakshmanan. M, et al.	A Multimodal Authentication for Biometric Recognition System using Intelligent Hybrid Fusion Techniques	International	Journal of Medical Systems, Vol - 43, No: 8, Article: 249, pp: 1 – 9	Aug-19
7	Lakshmanan. M, et al.	Uplink Resource Sharing and Power Management Scheme for an Underlay D2D Communication	International	Wirless Personal Communications, Vol. 110, No. 2, pp: 637-650	Jan-20
8	Lakshmanan. M, et al.	Development of an Enhanced Secured Authentication and Key Agreement Procedure for UMTS Network	International	Wirless Personal Communications, Vol. 110, No. 1, pp: 467-483	Jan-20

9	Gaurav Saxena, et al.	High Diversity Gain Super-Wideband Single Band-Notch MIMO Antenna for Multiple Wireless Applications	International	IET Microwaves, Antennas and Propagation, Vol. 13, No. 9, pp: 1427-1437	Oct-19
10	S. Pratap Singh, Lakshmanan. M, et al.	A Novel Analytical Model for Interference Estimation in CR Enabled Femtocell	International	International Journal of Communication Systems, Vol - 33, No: 4, Article Number: e4221	Mar-20
11	Lakshmanan. M, et al.	WARP Implementation of Sliding Taxicab Norm Transform Technique for PAPR Reduction in OFDM Systems	International	Telecommunications and Radio Engineering, Vol - 78, No: 13, pp: 1143-1165	Oct-19
12	Gaurav Saxena, et al.	High Diversity Gain MIMO-Antenna for UWB Application with WLAN Notch Band Characteristic Including Human Interface Devices	International	Wireless Personal Communications, Vol - 112, No: 1, pp: 105-121	Jan-20
13	S. Pratap Singh, et al.	Radiation Absorption Noise for Molecular Information Transfer	International	IEEE Access, Vol. 8, 8948022, pp: 6379 - 6387	Jan-20
14	Lakshmanan. M, et al.	Energy Efficient Resource Allocation for Device-to-Device Communication through Non-Cooperative Game Theory	International	International Journal of Communication Systems, Vol - 33, No: 6, Article Number: e4279	Apr-20
15	Lakshmanan. M, et al.	Efficient CFO Estimation and Compensation Approach in OFDMA for Uplink Mobile WiMax	International	Radioelectronics and Communications Systems, Vol - 62, No: 12, pp: 649 - 659	Dec-19
16	Ramlal Yadava, et al.	Compact multiband CPW fed sub 6 GHz frequency reconfigurable antenna for 5G and specific UWB applications	International	Journal of Communications, Vol. 15, No. 4, pp. 345-349	Apr-20
17	S. Pratap Singh, et al.	Phase-Jitter based SER of MPSK Scheme over Generalised Mixture Gamma Fading	International	International Journal of Electronics, Vol. 107, No. 6, pp. 915-929	Jun-20
18	Ankit Sharma, et al.	Wideband high-gain circularly-polarized low RCS dipole antenna with a frequency selective surface	International	IEEE Access, Vol. 7, 8876601, pp: 156592-156602	Oct-19
19	Madan Kumar	Computationally Optimized MIMO Antenna with	International	Arabian Journal for Science and	Jan-20

	Sharma, et al.	Improved Isolation and Extended Bandwidth for UWB Applications		Engineering, Vol. 45, No. 3, pp: 1333-1343	
20	Kuldeep Singh, et al.	Design and performance analysis of all-optical 1:4 and 1:8 high speed demultiplexer using InGaAsP-InP optical microring resonator in Z-domain	International	Optical and Quantum Electronics, Vol. 51, No. 8, Article number: 252	Aug-19
21	Atul Kumar, et al.	SIR Epidemic Model derived from Spatial Correlation for Worm Propagation in Event-driven Wireless Sensor Network	International	International Journal of Innovative Technology and Exploring Engineering, Vol. 9, No. 3, pp. 1091-1097	Jan-20
22	Shahid Eqbal, et al.	FCM and SVM Based Medical Image Feature Extraction using Wavelet Transform	International	Tathapi journal, Vol. 19, No. 23	Jun-20
24	Hitesh Kumar, et al.	Vehicle Accident Detection using IoT & Live Tracking using Geo-Coordinates	International	International Journal for Scientific Research & Development, Vol. 8, No 1, pp: 677-681	Jan-20
25	Amit Gupta, et al.	Power Optimization in 8-Bit Binary Divider	International	International Journal of Emerging Technology and Innovative Engineering, Vol. 6, No. 6, pp: 352-357	Jun-20
26	Ramlal Yadava, et al.	Mutual Coupling Reduction in MIMO Antenna using Neutralization Line	International	Sustainable Humansphere, Vol. 16, No. 1, pp: 2128-2132	Mar-20
27	Deependra Sinha, et al.	Non-Invasive Alcohol Detection for Drunk Driving Prevention	International	International Journal of Research in Engineering, Science and Management, Vol. 3, No. 6, pp: 488-492	Jun-20
28	Madan Kumar Sharma, et al.	Experimental Investigation of the Breast Phantom for Tumor Detection Using Ultra-Wide Band-MIMO Antenna Sensor (UMAS) Probe	International	IEEE Sensors Journal, Vol. 20 , No. 12, pp: 6745 - 6752	Jun-20

Faculty Publications in Conferences

S. No.	Name of Author	Title of Paper	Category	Name of Conference	Publication Date/ Year
1	S. Pratap Singh, Lakshmanan. M, et al.	Capacity Enhancement of Femtocell	International	4th IEEE International Conference on "Information Systems and Computer Networks", (ISCON 2019)	21 - 22, Nov 2019
2	Amanpreet Singh Saini, et al.	Implementation of IEEE802.11p in Fixed V2V communication system using NS3 simulator	International	4th International Conference on "Communication and Electronics Systems", (ICCES2019)	17 - 19, July 2019
3	S. Pratap Singh, Lakshmanan. M, et al.	ICA of DMC under Spherical Biological System	International	7th International Conference on "Signal Processing and Integrated Networks", (SPIN 2020)	27 - 28, Feb 2020
4	Gaurav Saxena, Madan Kumar Sharma, et al.	Super Wide Band Mickey Shaped Mimo Antenna for Wireless Communication	International	7th International Conference on "Signal Processing and Integrated Networks", (SPIN 2020)	27 - 28, Feb 2020
5	Gaurav Saxena, R. L. Yadava, et al.	Tripple Band Polarization Insensitive Ultra Thin Metamaterial Absorber for EMC and RCS Reduction in X-Band Applications	International	7th International Conference on "Signal Processing and Integrated Networks", (SPIN 2020)	27 - 28, Feb 2020
6	Gaurav Saxena, Madan Kumar Sharma, et al.	4-Element MIMO Antenna with CSRR and Mendered Line Loaded for Multiband Applications	International	5th International Conference on "Inventive Computation Technologies", (ICICT 2020)	26 - 28, Feb 2020
7	Ankit Sharma, et al.	Design of a Multi-Band Microstrip Slot Antenna with Bi Directional Radiation Pattern	International	5th International Conference on "Inventive Computation Technologies", (ICICT 2020)	26 - 28, Feb 2020
8	Shahid Eqbal, et al.	Feature Extraction of Medical Image by GLRLM	International	8th International Conference on	02 - 03, Aug 2019

				"Innovations in Electronics & Communication Engineering", (ICIECE-2019)	
9	Kuldeep Singh, et al.	Modeling and Performance Analysis of Parallel Cascaded Double Ring Resonator	International	5th International Conference on "Communication and Electronics Systems", (ICCES 2020)	10 - 12, June 2020
10	Gaurav Mehra, et al.	0.9 V Body-Biased LNA with Input Matching for Enhanced Gain & Low Power Applications	International	International Conference on "Trends in Electronics and Informatics", (ICOEI 2020)	15 - 17, June 2020
11	S. Pratap Singh, Lakshmanan. M, et al.	VLSI Implementation of Hamming Code for Molecular Communication	International	Lecture Notes in Electrical Engineering, Volume 1164, 2021, pp. 607-615 International Conference on "Smart Communication and Imaging Systems", (MEDCOM - 2020)	26 - 27, June 2020
12	S. Pratap Singh, Lakshmanan. M, et al.	Implementation of Cyclic Reed Muller Code for Molecular Communication	International	Lecture Notes in Electrical Engineering, Volume 1164, 2021, pp. 607-615 International Conference on "Smart Communication and Imaging Systems", (MEDCOM - 2020)	26 - 27, June 2020
13	Saurabh Katiyar, S. Pratap Singh, Lakshmanan. M, et al.	Closed Form Expressions of BER and Capacity for Co-Operative NOMA	International	Lecture Notes in Electrical Engineering, Volume 1164, 2021, pp. 607-615 International Conference on "Smart Communication and Imaging Systems", (MEDCOM - 2020)	26 - 27, June 2020

14	S. Pratap Singh, Lakshmanan. M, et al.	BER analysis of FRFT-OFDM system over Alpha-Mu fading channel under CFO	International	Lecture Notes in Electrical Engineering, Volume 1164, 2021, pp. 607-615 International Conference on "Smart Communication and Imaging Systems", (MEDCOM - 2020)	26 - 27, June 2020
15	Lakshmanan. M, Saurabh Katiyar, Piyush Jain, et al.	Performance Analysis of Free Space Optical Communication System Over Double Generalized Gamma Distribution with Polarization Shift Keying Modulation	International	Lecture Notes in Electrical Engineering, Volume 1164, 2021, pp. 607-615 International Conference on "Smart Communication and Imaging Systems", (MEDCOM - 2020)	26 - 27, June 2020
16	Amanpreet Singh Saini, et al.	Implementation of Secured Wired and WLAN Network using eNSP	International	Lecture Notes in Electrical Engineering, Volume 1164, 2021, pp. 607-615 International Conference on "Smart Communication and Imaging Systems", (MEDCOM - 2020)	26 - 27, June 2020
17	Amanpreet Singh Saini, et al.	Performance Analysis of Stationary and Moving V2V Communications using NS3	International	Lecture Notes in Electrical Engineering, Volume 1164, 2021, pp. 607-615 International Conference on "Smart Communication and Imaging Systems", (MEDCOM - 2020)	26 - 27, June 2020
18	Ruchi Agarwal, et al.	Leaky Wave Antenna for wide angle beam scanning and high Directivity	International	Lecture Notes in Electrical Engineering, Volume 1164, 2021, pp. 607-615 International Conference on "Smart Communication and	26 - 27, June 2020

				Imaging Systems", (MEDCOM - 2020)	
19	Ranjana Kumari. et al	Design and Analysis of Reconfigurable MIMO Antenna for Wireless Applications	International	Lecture Notes in Electrical Engineering, Volume 1164, 2021, pp. 607-615 International Conference on "Smart Communication and Imaging Systems", (MEDCOM - 2020)	26 - 27, June 2020
20	Ranjana Kumari. et al	Design and analysis of Pattern Reconfigurable MIMO antenna using PIFA Structure	International	Lecture Notes in Electrical Engineering, Volume 1164, 2021, pp. 607-615 International Conference on "Smart Communication and Imaging Systems", (MEDCOM - 2020)	26 - 27, June 2020
21	Rekha Rani, et al.	Bit Error Rate Analysis for Indoor Optical Wireless Communication System	International	Lecture Notes in Electrical Engineering, Volume 1164, 2021, pp. 607-615 International Conference on "Smart Communication and Imaging Systems", (MEDCOM - 2020)	26 - 27, June 2020
22	Madan Kumar Sharma, et al.	Design and Analysis of UWB-Multiband Notch Antenna Loaded with CSRR and U-shaped slot for Wireless Applications	International	Lecture Notes in Electrical Engineering, Volume 1164, 2021, pp. 607-615 International Conference on "Smart Communication and Imaging Systems", (MEDCOM - 2020)	26 - 27, June 2020

23	Madan Kumar Sharma, Ankit Sharma, et al.	Design and Performance Analysis of the Ghost-shaped Antenna for Extremely High Frequency Applications	International	Lecture Notes in Electrical Engineering, Volume 1164, 2021, pp. 607-615 International Conference on "Smart Communication and Imaging Systems", (MEDCOM - 2020)	26 - 27, June 2020
24	Vinay Singh, et al.	Performance Analysis of Indoor Visible Light Communication System Using NRZ-OOK Modulation Technique	International	Lecture Notes in Electrical Engineering, Volume 1164, 2021, pp. 607-615 International Conference on "Smart Communication and Imaging Systems", (MEDCOM - 2020)	26 - 27, June 2020
25	Amit Gupta, et al.	Speed Optimization of Multipliers	International	Lecture Notes in Electrical Engineering, Volume 1164, 2021, pp. 607-615 International Conference on "Smart Communication and Imaging Systems", (MEDCOM - 2020)	26 - 27, June 2020
26	P. C. Joshi, et al.	Power Analyses in AMBA AHB Protocol and Synthesis Over Xilinx ISE	International	Lecture Notes in Electrical Engineering, Volume 1164, 2021, pp. 607-615 International Conference on "Smart Communication and Imaging Systems", (MEDCOM - 2020)	26 - 27, June 2020
27	Praveen Kumar, et al.	Integration of Terrestrial Motion on a Quad-copter using RF technology on same channel	International	5th International Conference on "Communication and Electronics Systems", (ICCES 2020)	10 - 12, June 2020
28	Shahid Eqbal, et al.	Comparative analysis of different Image	International	International Conference on	05 - 06, Mar 2020

		Classifiers in Machine Learning		"Emerging Trends and Advances in Electrical Engineering and Renewable Energy", (ETAERE-2020)	
29	Jaspreet Kour, et al.		International	International Conference on "Computing Technologies for Transforming the Automated World", (ICCTAW 2020)	22 - 23, April 2020
30	Jaspreet Kour, et al.	Performance Evaluation of a Fingerprint Matching System based on Brief Descriptor	International	Asian Society for Academic Research (ASAR) International Conference	14, June 2020
31	Upendra Kumar Acharya, et al.	Image Enhancement Using Exposure and Standard Deviation-Based Sub-image Histogram Equalization for Night-time Images	International	Advances in Intelligent Systems and Computing, Volume 1164, 2021, pp. 607-615 International Conference on "Artificial Intelligence and Applications", (ICAIA 2020)	06 - 07, Feb 2020
32	Jaspreet Kour, et al.		International	International conference on "Machine learning Big data management Cloud and Computing", (ICMBDC 2020)	21, June 2020

Students Publications:

S. No	Name of the Students	Name of the Faculty Mentor	Title of the Paper	Conference/Journal	Date, Month & Year
1	Ashish Kumar Singh	Mr. Ankit Sharma Dr. Lakshmanan. M	A Compact Circularly Polarized Multiband Microstrip Patch Antenna with Defective Ground Structure	International Journal of Electronics and Telecommunications, Vol. 65, No. 2, pp. 195-201	April 2019

2	Atyant Jain Saksham Chaurasia	Dr. Lakshmanan. M	Nipple Segmentation and Localization Using Modified U-Net on Breast Ultrasound Images	Journal of Medical Imaging and Health Informatics,, Vol. 9, No. 9, pp: 1827 – 1837	July 2019
3	Sarthak Agarwal Snehal Agarwal Srishti Agarwal	Mr, Amanpreet Singh Saini	Implementation of IEEE802.11p in Fixed V2V communication system using NS3 simulator	4th International Conference on Communication and Electronics Systems, (ICCES2019)	17 - 19, July 2019
4	Priyanshu Kumar Verma Vaibhav Kishan	Dr. S. Pratap Singh Dr. Lakshmanan. M	Capacity Enhancement of Femtocell	4th IEEE International Conference on Information Systems and Computer Networks, (ISCON 2019)	21 - 22, Nov 2019
5	Shekhar Singh	Dr. S. Pratap Singh	Radiation Absorption Noise for Molecular Information Transfer	IEEE Access, Vol. 8, pp: 6379 - 6387	Jan 2020
6	Shivam Singh Pranav Prakash	Dr. S. Pratap Singh Dr. Lakshmanan. M	ICA of DMC under Spherical Biological System	7th International Conference on "Signal Processing and Integrated Networks", (SPIN 2020)	27 - 28, Feb 2020
7	Vinay Gupta Varshank Prajapati Sanjeev Kumar	Mr. Gaurav Saxena Mr. Madan Sharma	Super Wide Band Mickey Shaped Mimo Antenna for Wireless Communication	7th International Conference on "Signal Processing and Integrated Networks", (SPIN 2020)	27 - 28, Feb 2020
8	Vaishnavi Johri Vaibhav Ranjan Varshank Prajapati	Mr. Gaurav Saxena Mr. Madan Sharma	4-Element MIMO Antenna with CSRR and Mendered Line Loaded for Multiband Applications	5th International Conference on "Inventive Computation Technologies", (ICICT 2020)	26 - 28, Feb 2020
9	Jayati Monga Akanksha	Ankit Sharma	Design of a Multi-Band Microstrip Slot Antenna with Bi Directional Radiation Pattern	5th International Conference on "Inventive Computation Technologies", (ICICT 2020)	26 - 28, Feb 2020
10	Partyush Kumar Pandey Sandeep Pandey Pranjal Sharma	Kuldeep Singh	Modeling and Performance Analysis of Parallel Cascaded Double Ring Resonator	5th International Conference on "Communication and Electronics Systems", (ICCES 2020)	10 - 12, June 2020
11	Ankur Pal Garvita Singh Sarthak	Gaurav Mehra	0.9 V Body-Biased LNA with Input Matching for Enhanced Gain & Low Power Applications	International Conference on "Trends in Electronics and Informatics", (ICOEI 2020)	15 - 17, June 2020
12	Simran Sethi Soumil Tripathi Shreya Srivastava	Saurabh Katiyar S. Pratap Singh Lakshmanan. M	Closed Form Expressions of BER and Capacity for Co- Operative NOMA	Lecture Notes in Electrical Engineering, Volume 1164, 2021, pp. 607-615 International Conference on "Smart Communication and	26 - 27, June 2020

				Imaging Systems", (MEDCOM - 2020)	
13	Ashish Mishra Anushka Singh Aditi Verma	S. Pratap Singh Lakshmanan. M	BER analysis of FRFT-OFDM system over Alpha-Mu fading channel under CFO	Lecture Notes in Electrical Engineering, Volume 1164, 2021, pp. 607-615 International Conference on "Smart Communication and Imaging Systems", (MEDCOM - 2020)	26 - 27, June 2020
14	Tanmay Singh Sandhya Rupali Srivastava Sunil Yadav	Lakshmanan. M Saurabh Katiyar Piyush Jain	Performance Analysis of Free Space Optical Communication System Over Double Generalized Gamma Distribution with Polarization Shift Keying Modulation	Lecture Notes in Electrical Engineering, Volume 1164, 2021, pp. 607-615 International Conference on "Smart Communication and Imaging Systems", (MEDCOM - 2020)	26 - 27, June 2020
15	Pallavi Gupta Harshita Gupta	Amanpreet Singh Saini	Implementation of Secured Wired and WLAN Network using eNSP	Lecture Notes in Electrical Engineering, Volume 1164, 2021, pp. 607-615 International Conference on "Smart Communication and Imaging Systems", (MEDCOM - 2020)	26 - 27, June 2020
16	Divyanshu Gupta Aditi Uppal Ayushi Walani Devanshi Singh	Amanpreet Singh Saini	Performance Analysis of Stationary and Moving V2V Communications using NS3	Lecture Notes in Electrical Engineering, Volume 1164, 2021, pp. 607-615 International Conference on "Smart Communication and Imaging Systems", (MEDCOM - 2020)	26 - 27, June 2020
17	Prakhar Pratap Singh Suresh Kumar Umang Singh Vipul Agarwal	Ruchi Agarwal	Leaky Wave Antenna for wide angle beam scanning and high Directivity	Lecture Notes in Electrical Engineering, Volume 1164, 2021, pp. 607-615 International Conference on "Smart Communication and Imaging Systems", (MEDCOM - 2020)	26 - 27, June 2020
18	Chirag Agarwal, kshay Pratap Singh Bisma Ashraf	Ranjana Kumari	Design and Analysis of Reconfigurable MIMO Antenna for Wireless Applications	Lecture Notes in Electrical Engineering, Volume 1164, 2021, pp. 607-615 International Conference on "Smart Communication and Imaging Systems", (MEDCOM - 2020)	26 - 27, June 2020

19	Archit Kumar Jha Anuj Sachan Aryan Kishan Milkey Jain	Ranjana Kumari	Design and analysis of Pattern Reconfigurable MIMO antenna using PIFA Structure	Lecture Notes in Electrical Engineering, Volume 1164, 2021, pp. 607-615 International Conference on "Smart Communication and Imaging Systems", (MEDCOM - 2020)	26 - 27, June 2020
20	Mansi Gupta Gagan Agarwal Namrata Kumari	Rekha Rani	Bit Error Rate Analysis for Indoor Optical Wireless Communication System	Lecture Notes in Electrical Engineering, Volume 1164, 2021, pp. 607-615 International Conference on "Smart Communication and Imaging Systems", (MEDCOM - 2020)	26 - 27, June 2020
21	Suryadeep Singh Tanishq Thakur Syed Md. Moazzam Sajjad Razi Shubham Tiwari	Madan Kumar Sharma	Design and Analysis of UWB-Multiband Notch Antenna Loaded with CSRR and U-shaped slot for Wireless Applications	Lecture Notes in Electrical Engineering, Volume 1164, 2021, pp. 607-615 International Conference on "Smart Communication and Imaging Systems", (MEDCOM - 2020)	26 - 27, June 2020
22	Nitin Kumar Gautam Gagan Walia Nikhil Sachan Deepak Kumar	Madan Kumar Sharma Ankit Sharma	Design and Performance Analysis of the Ghost-shaped Antenna for Extremely High Frequency Applications	Lecture Notes in Electrical Engineering, Volume 1164, 2021, pp. 607-615 International Conference on "Smart Communication and Imaging Systems", (MEDCOM - 2020)	26 - 27, June 2020
23	Mohd. Faheem Indra Kumar Verma Prakhar Nag Shivam Goswami	Vinay Singh	Performance Analysis of Indoor Visible Light Communication System Using NRZ-OOK Modulation Technique	Lecture Notes in Electrical Engineering, Volume 1164, 2021, pp. 607-615 International Conference on "Smart Communication and Imaging Systems", (MEDCOM - 2020)	26 - 27, June 2020
24	Priya Singh Satyam Dubey Saurabh Sharma Waris Quarishi	Amit Gupta	Speed Optimization of Multipliers	Lecture Notes in Electrical Engineering, Volume 1164, 2021, pp. 607-615 International Conference on "Smart Communication and Imaging Systems", (MEDCOM - 2020)	26 - 27, June 2020
25	Abhishek Deshwal Aman Singh Ashutosh Gupta	P. C. Joshi	Power Analyses in AMBA AHB Protocol and Synthesis Over Xilinx ISE	Lecture Notes in Electrical Engineering, Volume 1164, 2021, pp. 607-615 International Conference on "Smart Communication and Imaging Systems", (MEDCOM - 2020)	26 - 27, June 2020

26	Shivang Kumar Agrahari Prakhar Singh Seema Singh	Praveen Kumar	Integration of Terrestrial Motion on a Quad-copter using RF technology on same channel	5th International Conference on "Communication and Electronics Systems", (ICCES 2020)	10 - 12, June 2020
27	Ritik Pratap Singh Saloni Singh Ragini Nandan Shakya	Shahid Eqbal	Comparative analysis of different Image Classifiers in Machine Learning	International Conference on "Emerging Trends and Advances in Electrical Engineering and Renewable Energy", (ETAEEER-2020)	05 - 06, Mar 2020
28		Jaspreet Kour		International Conference on "Computing Technologies for Transforming the Automated World", (ICCTAW 2020)	22 - 23, April 2020
29	Shivam Yadav Shweta Kushwaha Siddhartha Chaudhary Surya Ratan Pratap Shahi	Jaspreet Kour	Performance Evaluation of a Fingerprint Matching System based on Brief Descriptor	Asian Society for Academic Research (ASAR) International Conference	14, June 2020
30		Jaspreet Kour		International conference on "Machine learning Big data management Cloud and Computing", (ICMBDC 2020)	21, June 2020
31	Vivek Solanki Sachin Gandhi, Sankalp Gupta Sourav Kumar Panwar	Hitesh Kumar	Vehicle Accident Detection using IoT & Live Tracking using Geo-Coordinates	International Journal for Scientific Research & Development, Vol. 8, No 1, pp: 677-681	Jan-20
32	Yatendra Kumar Shivaji Shukla Rachit Yadav	Amit Gupta	Power Optimization in 8-Bit Binary Divider	International Journal of Emerging Technology and Innovative Engineering, Vol. 6, No. 6, pp: 352-357	Jun-20
33	Dhruv Verma Karthik Tyagi Akshat Kumar	Ramlal Yadava	Mutual Coupling Reduction in MIMO Antenna using Neutralization Line	Sustainable Humanosphere, Vol. 16, No. 1, pp: 2128-2132	Mar-20
34	Rinkesh Kumar Dubey Rahul Yadav Taimoor Alam Nirbhay Kumar Singh	Ramlal Yadava	A modified Miniaturized UWB Bi-Planar Yagi-Like MIMO Antenna System	11th International Conference on "Computing, Communication and Networking Technologies", (ICCCNT - 2020)	01 - 03, July 2020
35	Jayati Monga Jayaditya Upadhyaya Abhendra Pal Singh Gurjar Akanksha	Ankit Sharma	Design and Analysis of AMC based Metasurface Loaded Slot Antenna for Low Radar Cross Section	11th International Conference on "Computing, Communication and Networking Technologies", (ICCCNT - 2020)	01 - 03, July 2020

36	Prerit Sinha Rahul Shukla Vikas Tiwari	Jaspreet Kour	Automatic Cataract Detection Using Haar- Cascade Classifier	International Conference on "Data Intelligence and Cognitive Informatics" (ICDICI-2020)	08 - 09, July 2020
37	Akshit Chaurasia Mayank Sharma Akansha Abhinav Garg	Rekha Rani	Statistical Analysis of SNR and Optical Power Distribution In An Indoor VLC System	First International Conference on "Advances in Physical Sciences and Materials", (ICAPSM - 2020)	13 - 14, Aug, 2020
38	Mohammed Shoaib Mohd. Mohsin Imbeshat Khalid Ansari Harshat Maddhesiya	Upendra Kumar Acharya	Single image haze removal using variable fog-weight	First International Conference on "Advances in Physical Sciences and Materials", (ICAPSM - 2020)	13 - 14, Aug, 2020
39	Devendra Pratap Yadav Harshit Singh Aditya Keshri Kaustubh Prakash	Vinay Singh	Performance analysis of AGSM adaptive unipolar MIMO-OFDM for visible light communication	First International Conference on "Advances in Physical Sciences and Materials", (ICAPSM - 2020)	13 - 14, Aug, 2020
40	Sourav Kumar Panwar Vivek Solanki Sachin Gandhi Sankalp Gupta	Hitesh Kumar	Vehicle Accident Detection using IoT & Live Tracking using Geo-Coordinates	First International Conference on "Advances in Physical Sciences and Materials", (ICAPSM - 2020)	13 - 14, Aug, 2020
41	Kunal Goel Parth Rishi Faisal Abrar Manvendra Pratap Singh	Praveen Kumar	Intelligent car system to protect damage to car using sensors, actuators and ABS	2nd International Conference on "Advances in Computing, Communication Control and Networking", (ICAC3N-20)	18-19, Dec 2020
42	Suyash Trivedi Tanushree Singh	Piyush Jain Lakshmanan. M	Bit Error Rate Analysis of K-PSK Modulation with OFDM RoFSO System over Double Generalized Gamma Turbulence Channel	2nd International Conference on "Advances in Computing, Communication Control and Networking", (ICAC3N-20)	18-19, Dec 2020
43	Tapas Gupta Shraddha Verma Sweety Verma Vijaylaxmi	Deependra Sinha	Heart Rate Monitoring System	2nd International Conference on "Advances in Computing, Communication Control and Networking", (ICAC3N-20)	18-19, Dec 2020
44	Priyansh Singh Rupal Singh Sameer Arif Shikhar Shreshtha	Deependra Sinha	Non-Invasive Alcohol Detection for Drunk Driving Prevention	2nd International Conference on "Advances in Computing, Communication Control and Networking", (ICAC3N-20)	18-19, Dec 2020

45	Shachi Tripathi Sparsh Srivastava Vaishnavi Kaushik Tarang Agarwal	P. C. Joshi	Power Optimization in 32-bit MIPS based RISC processor	2nd International Conference on "Advances in Computing, Communication Control and Networking", (ICAC3N-20)	18-19, Dec 2020
46	Akash Vishwakarma Aman Trivedi	Hitesh Kumar	Liver and Liver Tumor Segmentation using 2D Convolution and Modified U-net	2nd International Conference on "Advances in Computing, Communication Control and Networking", (ICAC3N-20)	18-19, Dec 2020

Departmental Events

FDP/Seminar/ Workshop/ Conference/Short Term Course

S. No	Name of the Event	Date	Resource Person with designation	Organizer/Coordinator	Remarks
1	Workshop on "Foundation of Industry 4.0"	19 - 21, August 2019	Mr. Shariq Ahmed Khan, The IoT Academy, Noida	Mr. Saurabh Katiyar	Supported by GNIX Society
2	Workshop on "VLSI Awareness and Opportunities in Industry"	28, August 2019	Mr. Sandeep Gupta, Director, Mr. Deepak Kumar & Mr. Abhishek Kumar Design and Verification Engineer 3ST Technologies, Noida	Mr. Amanpreet Singh Saini	Supported by IETE and GNIX Society
3	Workshop on "Machine Learning"	03, September 2019	Mr. Rahul Pathak, Cetpa Infotech Pvt. Ltd	Ms. Rekha Rani and Ms. Ruchi Agarwal	Supported by IETE and Department of EIE
4	Seminar on "Preparation Strategy & Cracking ESE, GATE, PSUs and Civil Service Exam"	11, September 2019	Mr. Arun Singh, Made Easy	Ms. Rekha Rani and Ms. Ruchi Agarwal	Supported by IETE and Department of EIE & EE
5	Seminar on "Preparation Strategy & Career in Civil Service Exam"	18, September 2019	Mr. Alok Kumar (IAS Coach & Trainer, GS Score) and Ms. Ilma Afroz (AIR 217 CSE 2017, IPS)	Ms. Rekha Rani and Mr. Gavendra	Supported by IETE and Department of EIE & EE
6	Seminar on "Introduction to Free Space Optical Communication System"	11, October 2019	Dr. Prabhu. K Assistant Professor, NIT, Surathkal	Mr. Piyush Jain	Supported by IETE and GNIX Society

7	Faculty Development Programme on "Recent Developments in Optical Communication and Antenna Technology"	14 - 18, October 2019	-	Dr. R.L. Yadava	Sponsored by AKTU
8	Workshop on "Modern Tools for Optical Communication System"	15 & 16, October 2019	Dr. Palanivelan. M, Professor, Rajalakshmi Engineering College, Chennai Dr. Senthil Kumar. K, Associate Professor, Rajalakshmi Engineering College, Chennai Dr. Ilavarasan. T, Assistant Professor, VIT University, Vellore	Mr. Piyush Jain	Supported by IETE and GNIX Society
9	Workshop on "Machine Learning and its Applications"	24, February 2020	Mr. Shubham Jaiswal CTO and Co-founder, Learnogether, Noida	Mr. Amanpreet Singh Saini	Supported by IETE and GNIX Society
10	Webinar on "Gear-up on Artificial Intelligence"	18, June 2020	Mr. Raghav Goel, Senior AI Consultant, Mr. Satya Mishra, Head of Sales & Marketing, Cognitel, Gurugram	Mr. Amanpreet Singh Saini, Ms. Shristi Priya	Supported by IETE and GNIX Society
11	Webinar on "AWS Cloud"	20, July 2020	Mr. Gaurav Dwivedi Network Engineer, TALENT Software Services Gurgaon	Ms. Shristi Priya, Mr. Amanpreet Singh Saini	Supported by Appwars Technologies, IETE and GNIX Society
12	Webinar on "Optical Fibre Sensors & Their Applications"	21, July 2020	Dr. Rahul Kumar, The University of Sheffield, Broomhall, Sheffield, United Kingdom	Dr. R. L. Yadava	Supported by Appwars Technologies, IETE and GNIX Society

Expert lectures:

S. No.	Name of the event	Date	Resource Person with designation	Academic/Industry	Organizer
1	Lecture on "Career Opportunities for Fresher in Semiconductor Industry"	20/02/2020	Mr. Vaibhav Mishra Founder and Director, PinE Training Academy, Noida	Industry	IETE and GNIX Society
2	Lecture on "Disruption Drives Destiny"	22/10/2019	Mr. Manoj Jain Ex-Flight lieutenant at IAF (Telecom Industry Expert of 22 Years)	Industry	IETE and GNIX Society

Internship:

S. No	Session	Roll Number	Name of the Student	Name of the Company/University	Duration
1	2019-2020	1709731902	Devendra Pratap Yadav	Evalueserve	27/1/2020 to 30/6/2020
2	2019-2020	1609731119	Vijaylaxmi	Class 21A Technologies Private Limited	6 months
3	2019-2020	1609731106	Suresh Kumar Patel	Class 21A Technologies Private Limited	6 months

Industrial Visit:

S. No	Name of the Industry	Duration/Date
1	Doordarshan, New Delhi	05.04.2019
2	Satellite Earth Station, BSNL, Sikandrabad, Bulandshar	16.04.2019
3	VS Energy and Automation Pvt. Ltd., Greater Noida	18.04.2019
4	Telecom Network Solutions Pvt. Ltd., Noida	24.09.2019

GNIX (An official club of Department of ECE, GCET)

G-care

Caring by our seniors is the greatest responsibility they have. Those who walked before us have given so much and made possible the life we all enjoy. Without a sense of caring, there can be no sense of community.

ZEST - A Technical & Cultural Event:

GNIX student forum organized a two days technical fest ZEST- 2017, which includes various fascinating events (like code cracker, Spot the bug, Circuit debugging, Poster presentation, Treasure Hunt, Wire loop, Debate, Rangoli, X-factor, General Quiz, Math Quiz, Digital Quiz etc) during 15th and 16th February 2017 in association with MADE EASY.

IETE Students' Chapter

IETE STUDENTS' CHAPTER was started in October 2018. This society is chaired by Dr. M. Lakshmanan and Dr. S.P Singh and co-chair by Ms. Shristi Priya. Students from first year to final year are members of this society and till now there are 106 students. Apart from student members there are faculty members also.

Students have actively participated and awarded with certificates in the different events organised by IETE like

- 66th IETE Foundation Day on theme "Role of Artificial Intelligence and Machine learning in the Development of society" in IETE, Lodi Road, New Delhi on 2nd November 2019.
- Science and Technology E-Quiz 2020, National Level E-Quiz Contest on June 7th 2020 organised by IETE-SFIT Student Chapter.

Eminent Recruiters: