



GALGOTIAS COLLEGE OF ENGINEERING & TECHNOLOGY

EC-NEWSLETTER 2017-18

Vol-4/April, 18

“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: Sristi Sharma
Prakhar Shukla

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:

S. 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.P. 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
10	Mr. Kuldeep Singh	M. Tech	Electronics and Communication	Assistant Professor
11	Mr. Amit Gupta	M. Tech	VLSI Design	Assistant Professor
12	Ms. Ranjana Kumari	M. Tech	Electronics and Communication	Assistant Professor
13	Ms. Ruchi Agrawal	M. Tech	Communication Engineering	Assistant Professor
14	Mr. Ankit Sharma	M. Tech	Signal Processing	Assistant Professor
15	Mr. Deependra Sinha	M. Tech	Electronics and Communication	Assistant Professor
16	Mr. Madan Kumar Sharma	M. Tech	Electronics and Communication	Assistant Professor

17	Mr. Gaurav Mehra	M. Tech	VLSI Design	Assistant Professor
18	Mr. Vinay Singh	M. Tech	Digital Systems	Assistant Professor
19	Mr. Gaurav Saxena	M. Tech	Microwave Electronics	Assistant Professor
20	Mr. Mohd. Shibly	M. Tech	Nanotechnology	Assistant Professor
21	Mr. Piyush Jain	M. Tech	Electronics	Assistant Professor
22	Ms. Shristi Priya	M. Tech	Wireless Communication	Assistant Professor
23	Ms. Ruchi Tripathi	M. Tech	Communication Engineering	Assistant Professor
24	Mr. Upendra kumar Acharya	M. Tech	Electronics and Communication	Assistant Professor
25	Ms. Rekha Rani	M. Tech	Electronics and Communication	Assistant Professor
26	Mr. Ausaf Hasan Tarique	M. Tech	Electronics and Communication	Assistant Professor
27	Mr. Vikram Singh Kardam	M. Tech	Signal Processing and Digital Design	Assistant Professor
28	Ms. Nishtha	M. Tech	Electronics and Communication	Assistant Professor
29	Mr. Vipin Sharma	M. Tech	Microwave and Optical Communication	Assistant Professor
30	Mr. Sarvesh Kumar Sharma	M.E	Communication Engineering	Assistant Professor
31	Ms. Nisha	M. Tech	Microwave and Optical Communication	Assistant Professor
32	Dr. Satya Prakash Singh	Ph. D	Electronics and Communication	Assistant Professor
33	Dr. Shilpa Choudhary	Ph. D	Wireless Communication	Assistant Professor

New Faculty Joined In This Academic Year:

S. No	Name	Qualification	Area of Specialization	Designation	Photo
1	Ms. Shristi Priya	M. Tech	Wireless Communication	Assistant Professor	
2	Ms. Ruchi Tripathi	M. Tech	Communication Engineering	Assistant Professor	
3	Mr. Upendra kumar Acharya	M. Tech	Electronics and Communication	Assistant Professor	
4	Mr. Ausaf Hasan Tarique	M. Tech	Electronics and Communication	Assistant Professor	
5	Mr. Vikram Singh Kardam	M. Tech	Signal Processing and Digital Design	Assistant Professor	
6	Ms. Nisha	M. Tech	Microwave and Optical Communication	Assistant Professor	

Faculty Publications:**Faculty Publications in Journals**

S. No.	Name of Author	Title of Paper	Category	Name of Journal	Publication Date/ Year
1	Ramlal Yadava, et al.	Design of inclined coupling slot loaded CPW-fed circularly polarized slot antenna for wireless applications	International	Electromagnetic Applications, Vol. 38, No. 4, pg. 226-235	Mar-18
2	Ramlal Yadava, et al.	Frequency Selective Surface as Superstrate on wideband Dielectric Resonator Antenna for Circular Polarization and Gain Enhancement	International	Wireless Personal Communications, Vol. 97, No. 2, pp 3149-3163	Jul-17
3	Ramlal Yadava, et al.	Design of Dual Band Dual Sense Circularly Polarized Wide Slot Antenna with C-Shaped Radiator for Wireless Applications	International	Frequenz, Vol. 72, No. 7-8, pp. 343-351	Jul-17
4	S. Pratap Singh, et al.	Model Based on Matern Process for ICI Mitigation in Multi Cell Cooperation	International	Radio Electronics and Communication Systems, Vol. 60, No. 8, pg. 451-459	Jun-17
5	Shahid Eqbal	Wavelet Based Medical Image Feature Extraction by segmentation Using FCM and SVM	International	International Advanced Research Journal In Science, Engineering and Technology, Vol. 4, No. 9, pp. 252-257	Sep-17
6	Shahid Eqbal	Medical Image Feature Extraction Using Wavelet Transform	International	International Journal of Engineering Science Invention Research & Development, Vol. 4, No. 4, pp. 146-151	Oct-17
7	Ruchi Tripathi, Shristi Priya, et al.	Localization in Wireless Sensor Network using Manifold Learning	International	International Journal of Electronics & Communication Technology, Vol. 8, No. 4, pp. 46-52	Dec-17

Faculty Publications in Conferences

S. No.	Name of Author	Title of Paper	Category	Name of Conference	Publication Date/ Year
1	Ramlal Yadava, et al.	A Meander Line-DSRR Double Superstrate Loaded High Gain Circular Patch Antenna	International	Applied Electromagnetics Conference, AEMC 2017	Dec-17
2	S. Pratap Singh, et al.	Compaision of MDPSK and DQPSK bit error rates for k - μ / Gamma Shadowed Fading Channel	International	International Conference on "Computing for Sustainable Global Development" ISSN 0973-7529.	Mar-18
3	S. Pratap Singh, et al.	The k - μ / Inverse Gamma Shadowed Distribution for Arbitrary Fading Parameter	International	IEEE International Conference on "Signal Processing & Integrated Networks"	Feb-18
4	Shrishti Priya, Ruchi Tripathi, et al..	Slotted Elliptical Dual Band Antenna for WiMAX/UMTS Applications	International	International Conference on "Computing for Sustainable Global Development" ISSN 0973-7529.	Mar-18
5	Vikram Singh Kardam, et al.	Non Hackable, Low Cost and Real Time Iris Recognition	International	International Conference on "Computing for Sustainable Global Development" ISSN 0973-7529.	Mar-18

Departmental Events

FDP/Seminar/ Workshop / Conference/Short Term Course

S. No	Name of the Event	Date	Resource Person with designation	Organizer/Coordinator	Remarks
1	Faculty Development Programme on "Advances in Communication and Networking"	17-21, July 2017	-	Dr. Deepak Gangwar	Sponsored by AKTU
2	Workshop on "Internet of Things"	24, Aug 2017	Mr. Amir Khan, APTRON Solutions Pvt. Ltd.		Supported by GNIX Society
3	Workshop on "PCB designing"	25, Aug 2017	Mr. Anthony Selvamuthu, APTRON Solutions Pvt. Ltd.		Supported by GNIX Society
4	Workshop on "Internet of Things using Node MCU"	06, September 2017	Er. Kriti Karan, DKOP Labs Pvt. Ltd., Noida		Supported by GNIX Society
5	Workshop on "Fundamentals of Wireless Mobile Communications"	12-13, October 2017	-	Mr. Amanpreet Singh Saini & Ms. Shrishti Priya	Huawei Network Academy and IndoVision Services
6	One day Seminar on "Potential of Impedance Spectroscopy for Measurement and Sensor Solutions"	15, November 2017	-	Dr. Satyaprakash Singh & Ms. Shrishti Priya	GCET
7	Workshop on "LED and Sensor Devices"	24, November 2017	Mr. Vivek Kumar Singh, CEO (Director), VS Energy and Automation Pvt. Ltd.		Supported by GNIX Society
8	Short Term Course on "Optical Fibers: Potential and Applications"	18-22, December 2017	-	Dr. R.L. Yadava	NITTR, CHandigarh

9	Short-Term Course On "MATLAB and LABVIEW with its Hardware Interface"	January 29- February 2, 2018	-	Ms. Shristi Priya	NITTR, Chandigarh
10	Two days' Workshop on "VLSI using Verilog & Implementation on FPGA"	06 & 07, February 2018	Mr. Saurabh Gupta, Mr. Tarun Kalra, Mr. Abhinav Kumar, FutureWiz		Supported by GNIX Society
11	Workshop on "MATLAB"	27 & 28, February 2018	Mr. P. Vikram Kumar, Founder, PADAYI		Supported by GNIX Society
12	Workshop on "Introduction to Python Programming"	07, March 2018	Mr. Aman Chaudhary, Aptron Solutions Private Ltd.		Supported by GNIX Society
13	One day Seminar on "RTL Design and Functional Verification"	16, March 2018	Mr. P.R. Sivakumar, Founder and CEO, Maven Silicon, Bengaluru		Supported by GNIX Society
14	Workshop on "Introduction to Python Programming"	07, March 2018	Mr. Aman Chaudhary, Aptron Solutions Private Ltd.		Supported by GNIX Society
15	One day Seminar on "RTL Design and Functional Verification"	16, March 2018	Mr. P.R. Sivakumar, Founder and CEO, Maven Silicon, Bengaluru		Supported by GNIX Society

Expert lectures:

S. No.	Topic	Date	Expert Name / Organization	Academic/Industry	Organizer
1	Expert Lecture on “Energy Efficient Communication Methods for Wireless Sensor Networks”	23/02/2018	Dr. Syed Akhtar Imam, Dept. of ECE, Jamia Millia Islamia, New Delhi.	Academic	GNIX
2	Expert Lecture on “Signal and System”	02/02/2018	Mr. Ankit Goel, Author Arihant Publications	Industry	GNIX
3	Expert Lecture on “Industrial Automation”	24/11/2017	Mr.H.S.Sisodia, Maintenance Manager, M/S Moser Baer India Ltd., Greater Noida	Industry	GNIX
4	Expert Lecture on “Introduction to VLSI Design Technology”	24/11/2017	Dr. R.S. Saxena, Scientist FSSPL Lab, DRDO, New Delhi	Academic	GNIX

Internship:

S. No	Session	Roll Number	Name of the Student	Name of the Company/University	Duration
1	2017 - 2018	1409731106	Srishti Sharma	Cognizant, Chennai	08/03/2018 to 08/06/2018
2	2017 - 2018	1409731072	Prakhar Shukla	Cognizant, Noida	08/03/2018 to 20/08/2018

Industrial Visit:

S. No	Name of the Industry	Duration/Date
1	Huawei, Sector 39, Gurgaon	10.04.2017
2	DRDO, New Delhi	09.03.2018
3	Associated Electronics Research Foundation, Noida	13.03.2018
4	Doordarshan, New Delhi	19.03.2018

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.

Eminent Recruiters:

			
			
			
			