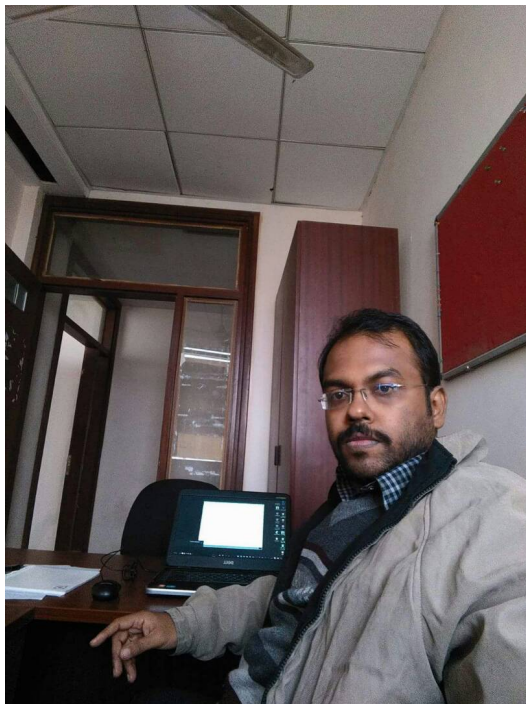# GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY

(Department of Electronics & Communication Engineering)

EC-NEWSLETTER 2016-17
Vol-3|April,17

Message from Dr. Lakshmanan M, Prof. and Head, ECE Dept.

"EC-Newsletter" is the yearly newsletter of 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 organised, student and faculties research publications, achievements, campus placement, industrial interactions, industrial visits, higher studies details etc

Chief Editor: Dr. Lakshmanan M
Editor: Ms. Nishtha Rani (Asst. Professor)
        Mr. Amanpreet Singh (Asst. Professor)
Students Editor: Suboor Jamal
                 Ankit Yadav

About ECE Department

The Department of ECE offers B.Tech and M.Tech course 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 progression.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.

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 Education Objectives:

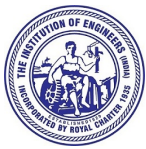PEOs of the B.Tech in Electronics and Communication Engineering are:
- **PEO1:** Graduates will excel in their career by acquiring knowledge in the field of Electronics and Communication Engineering with the usage of modern tools and emerging technologies.
- **PEO2:** Graduates will have the capability to analyze real life problems of the society and produce innovative solutions.

- **PEO3:** Graduates exhibit professionalism, ethical attitude, communication skills and team work in core engineering, academia and research organizations through professional development and lifelong learning.

Program Specific Outcomes:

By the completion of Electronics & Communication Engineering program the student will have following Program specific outcomes:
- **PSO1:** Design and develop models for analog &digital electronic circuits and systems.
- **PSO2:** Design, develop and test electronic and communication systems for applications with real time constraints.

The Institution of Engineers (India):

The Institution of Engineers (India) was registered under the Indian Companies Act, 1913 in the year 1920 and was formally inaugurated in 1921 by Lord Chelmsford, the then Viceroy and Governor General of India to promote and advance the science, practice and business of engineering in all its branches in India. Starting with this humble beginning, The Institution of Engineers (India) is now an unique professional body encompassing 15 engineering disciplines and with an overall membership of over 0.5 million. The life Institutional membership of Galgotias college of Engineering & Technology was started on 27th April 2017.

List of Faculty for odd semester

Faculty name	Designation	Qualification
Dr. Praydot kala	Professor, HOD	Ph.D.
Dr. R.L. Yadav	Professor	Ph.D.
Ms. Jaspreet Kaur	Associate Professor	ME/M.Tech
Mr. Atul Kumar	Associate Professor	ME/M.Tech
Mr. Shahid Eqbal	Associate Professor	ME/M.Tech
Mr. Saurabh Katiyar	Assistant Professor	ME/M.Tech
Mr. S.P. Singh	Assistant Professor	ME/M.Tech
Mr. Amanpreet Singh	Assistant Professor	ME/M.Tech
Mr. P.C. Joshi	Assistant Professor	ME/M.Tech
Mr. Madan Sharma	Assistant Professor	ME/M.Tech
Mr. Satya Prakash	Assistant Professor	ME/M.Tech
Mr. Deepak Gangwar	Assistant Professor	ME/M.Tech
Mr. Kuldeep Singh	Assistant Professor	ME/M.Tech
Ranjana Kumari	Assistant Professor	ME/M.Tech
Ms. Ruchi Agrawal	Assistant Professor	ME/M.Tech
Mr. Ankit Sharma	Assistant Professor	ME/M.Tech
Mr. Vinay Singh	Assistant Professor	ME/M.Tech
Mr. Gaurav Mehra	Assistant Professor	ME/M.Tech
Mr. Sachin Kumar	Assistant Professor	ME/M.Tech
Mr. Deependra Sinha	Assistant Professor	ME/M.Tech
Mr. Vipin Sharma	Assistant Professor	ME/M.Tech
Mr. Gaurav Saxena	Assistant Professor	ME/M.Tech
Mr. Sarvesh Kumar	Assistant Professor	ME/M.Tech
Dr. Shilpa Choudhary	Assistant Professor	ME/M.Tech
Mr. Mohd. Shibly	Assistant Professor	ME/M.Tech
Mrs. Nishtha Rani	Assistant Professor	ME/M.Tech
Mr Vipin Sharma	Assistant Professor	ME/M.Tech
Mr Rohit Kumar	Assistant Professor	ME/M.Tech

List of Faculty for even semester

Faculty name	Designation	Qualification
Dr. Lakshmanan M	Professor, HOD	Ph.D.
Dr. R.L. Yadav	Professor	Ph.D.
Ms. Jaspreet Kaur	Associate Professor	ME/M.Tech
Mr. Atul Kumar	Associate Professor	ME/M.Tech
Mr. Shahid Eqbal	Associate Professor	ME/M.Tech
Mr. Saurabh Katiyar	Assistant Professor	ME/M.Tech
Mr. S.P. Singh	Assistant Professor	ME/M.Tech
Mr. Amanpreet Singh	Assistant Professor	ME/M.Tech
Mr. P.C. Joshi	Assistant Professor	ME/M.Tech
Mr. Madan Sharma	Assistant Professor	ME/M.Tech
Mr. Satya Prakash	Assistant Professor	ME/M.Tech
Mr. Deepak Gangwar	Assistant Professor	ME/M.Tech
Mr. Kuldeep Singh	Assistant Professor	ME/M.Tech
Ranjana Kumari	Assistant Professor	ME/M.Tech
Ms. Ruchi Agrawal	Assistant Professor	ME/M.Tech
Mr. Ankit Sharma	Assistant Professor	ME/M.Tech
Mr. Vinay Singh	Assistant Professor	ME/M.Tech
Mr. Gaurav Mehra	Assistant Professor	ME/M.Tech
Mr. Deependra Sinha	Assistant Professor	ME/M.Tech
Mr. Vipin Sharma	Assistant Professor	ME/M.Tech
Mr. Gaurav Saxena	Assistant Professor	ME/M.Tech
Mr. Sarvesh Kumar	Assistant Professor	ME/M.Tech
Dr. Shilpa Choudhary	Assistant Professor	ME/M.Tech
Mr. Mohd. Shibly	Assistant Professor	ME/M.Tech
Mrs. Nishtha Rani	Assistant Professor	ME/M.Tech
Mr Vipin Sharma	Assistant Professor	ME/M.Tech
Mr Rohit Kumar	Assistant Professor	ME/M.Tech
Mr. Piyush Jain	Assistant Professor	ME/M.Tech

NEW FACULTY JOINED IN THIS ACADEMIC YEAR:

In Odd Semester:

Name   : **Nishtha Rani**
Designation   : **Assistant Professor**
Qualification   : **M.Tech, B.Tech**
Email : **nishtha.rani@galgotiacollege.edu**

Name   : **Rohit Kumar**
Designation   : **Assistant Professor**
Qualification   : **M.Tech, B.Tech**
Email : **rohit.kumardas@galgotiacollege.edu**

In Even Semester:

Name   : **Piyush Jain**
Designation   : **Assistant Professor**
Qualification   : **M.Tech, B.Tech**
Email : **piyush.jain@galgotiacollege.edu**

Name   : **Dr. Lakshmanan M**
Designation   : **Professor, HOD**
Qualification   : **P. hD, M.Tech, B.Tech**
Email: **lakshmanan.m@galgotiacollege.edu**

Faculty Publications:

Faculty Publications in Journals

S No.	Name of Author	Title of Paper	Name of Journal
1.	S. Pratap Singh, et al	A MGF Based Closed Form Expressions for Error Probability and Capacity Over EGK Fading for Interference Limited System	Wireless Personal Communications, Vol. 91
2.	S. Pratap Singh, et al	Closed form expressions for ABER and capacity over EGK fading channel in presence of CCI	International Journal of Electronics, Vol. 104
3.	Bhawna Ahuja, et al.	Optical parameters testing to redefine visibility for low cost transmissometer using channel modeling	Optik- Journal, Vol. 127, pg. 11326-11335
4.	Saurabh Katiyar, et al.	Stability Analysis of SIDR Model for Worm Propagation in Wireless Sensor Network	Indian Journal of Science and Technology, Vol. 9, No. 32, pg. 7-18
5.	Ramlal Yadava, et al.	A Quad Band Sierpinski Trapezoidal Fractal Patch Antenna for Wireless Applications	Journal of Microwaves, Optoelectronics & Electromagnetic Applications, Vol. 16, No. 1, pg. 25-37.
6.	Deepak Gangwar, R. L. Yadava, et al.	Gain Enhancement of Microstrip Patch Antenna Loaded with Split Ring Resonator Based Relative Permeability Near Zero as Superstrate	Wireless Personal Communications
7.	Satya P Singh, et al.	Accurate and Fast Computation of Exponent Fourier Moment	Arabian Journal of Science and Engineering
8.	S. Pratap Singh, Amit Kumar, et al.	Novel expressions for CEP/BEP under GGD noise for nano communication system	International Journal of Electronics Letters, pg. 112.
9.	Nishtha Rani, et al.	Single CCTA based high frequency floating and grounded type of incremental/decremental memristor emulator and its application	Microelectronics Journal, Vol. 16, pg. 119-125.
10.	Deependra Sinha, et al.	Thresholding based R- Peak Detection in ECG Signals	International Journal of Science Technology & Engineering, Vol. 3, No. 11, pg. 63-66
11.	Deependra Sinha, et al.	Face Recognition using DWT, 2D PCA and Neural Network	International Journal of Science Technology & Engineering, Vol. 3, No. 12, pg. 66-70

12.	Ramlal Yadava, et al.	Intelligent System for Two Wheelers	International Research Journal of Engineering and Technology , Vol. 4 No. 4. Pg. 1-6.
13.	Vinay Singh, et al.	A Comparative Analysis of Offline SVM and Neural Network Based Signature Verification Schemes	International Journal of Science Technology & Engineering (IJSTE), Vol. 3, No. 12, pg. 73-77

Faculty Publications in Conferences

S. No.	Name of Author	Title of Paper	Name of Conference
1.	Lakshmanan. M et al	Distance Based Uplink Resource Sharing for Device-to-Device Communication	International Conference on Electronics and Communication Syatem(ICECS)
2.	Lakshmanan M et al	A Power Allocation Scheme for MIMO Cognitive Radio Network	international Conference on innovations in information embedded and Communication Systems(ICIIECS), Volume–III
3.	Lakshmanan M et al	Optimized Allocation of Resources for D2D Communication	international Conference on innovations in information embedded and Communication Systems(ICIIECS), Volume –III
4.	S Pratap Singh, et al	Performance Analysis of differential dual hop relaying system over Alpha-mu Fading Channel	IEEE International Conference on Next Generation Computing Technologies
5.	S Pratap Singh et al	BER analysis of various modulation schemes over GG fading channel for differential dual hop relaying system	IEEE International Conference on Communication Control and Intelligent System
6.	S.Pratap Singh et al	A Novel POCA-TWDP Based Joint Fading Model for Indoor Wireless System	IEEE International Conference on Signal Processing & Integrated Networks,

7.	S.Pratap Singh and Vinay Singh et al	A Novel Rayleigh-TWDP Based Joint Fading Model for Indoor Wireless System	*IEEE* International Conference on Signal Processing & Integrated Networks
8.	**S Pratap Singh** et al	A Novel Expression for Probability of Error for Nano Communication System	*IEEE* International Conference on Computing for Sustainable Global Development
9.	**S Pratap Singh,** et al	BEP/SEP of Binary and M-ary Signals over k-μ Shadowed Fading Channel	*IEEE* International Conference on Signal Processing & Integrated Networks
10.	**S Pratap Singh** et al	New Expression of Error Rates for Nano Communication System	*IEEE* International Conference on Signal Processing & Integrated Networks
11.	Singh S. P. et al	Carbon Based Nanomaterial in Biomedical Applications	Nanofim-2016, Chemnitz, Germany
12.	Satya P Singh et al	Geometric Invariant Feature Extraction of Medical Images using Hu's Invariants	International Conference on "Computing for Sustainable Global Development
13.	Ankit Sharma. et al	Design of Cosine Modulated Filter Banks exploiting spline function for spectrum sensing in Cognitive Radio applications	Power Electronics, Intelligent Control and Energy Systems (ICPEICES), IEEE International Conference
14.	Deepak Gangwar et al	Miniaturized EBG hairpin resonators for dual band applications	Power Electronics, Intelligent Control and Energy Systems (ICPEICES), IEEE International Conference on. IEEE
15.	Nishtha Rani, et al	Programmable and Electronically Tunable Voltage Mode Universal Biquadratic Filter Based on Simple CMOS OTA	3rd international Conference on Devices, Circuits and Systems (ICDCS16),
16.	M.K. Sharma, et al	UWB-MIMO Diversity Antenna for Next Generation Wireless Applications	3rd international Conference on Computing for Sustainable Global Development

Students Publications:

Suboor Jamal, Syed Taha Kamal Ahmad, "Intelligent system for two wheelers", International Research Journal of Engineering and Technology, Vol. 4, No. 4, Apr 2017.

Departmental Events

Seminar/ Workshop/ Expert lectures:

Topic	Date	Expert Name/ Organization	Description
Lecture on IP Star Satellite Technology	21/04/17	Mr. Umesh Arya, Satellite Earth Station, BSNL, Sikandrabad, Bulandshar, U.P.	Satellite Communication System
Expert Lecture on Introduction to SOI Technology and Level Crossing Analog and Digital Converter	07/04/17	Dr. A.K. Gupta, Professor, Department of ECE, NIT, Kurukshetra	Analog & Digital Circuits Design
GIS for rural applications	30/03/17	Prof. (Dr.) Masood A. Siddiqui, Professor, JMI, Delhi	Microwave & Antennas for Remote Sensing Applications
Remote Sensing for	30/03/17	Dr. Manjit Singh,	Microwave &

agriculture applications		Professor, Department of ECE, Punjabi University, Patiala	Antennas for Remote Sensing Applications
Optical Communication for rural applications	30/03/17	Dr. Manish Dev Sharma, Professor, Panjab University, Chandigarh	Microwave & Antennas for Remote Sensing Applications
Sensor Networks in Remote Sensing Applications	30/03/17	Dr. S. A. Imam, Professor, Department of ECE, JMI, Delhi	Microwave & Antennas for Remote Sensing Applications
Microstrip Antenna for Laptop Applications	31/03/17	Dr. A.K. Gautam, Dean, School of Engineering, GBU, Greater Noida	Microwave & Antennas for Remote Sensing Applications
Big data analytics for communication Applications	31/03/17	Dr. J. Jeevanandam, Technical Head, Galgotias University, Greater Noida	Microwave & Antennas for Remote Sensing Applications
Lecture on Low Power VLSI Circuit design	31/03/17	Mr. Taranjeet Kulkal, Cadence, Noida	Microwave & Antennas for Remote Sensing Applications
Seminar on Scope in Medical Electronics	17/02/17	Mr. G.P.S. Sekhawat, Director, Horizon Meditech Pvt.	Medical Instrumentation
Expert Lecture on Recent Trend in Wireless Communication	10/10/16	Dr. Noor Mohammed V, Associate Professor, School of Engineering VIT University, Vellore	Wireless Communication
Seminar on PLC and Industry Automation	22/09/16	Mr. Harinath Sisodia, O&M Manager, Moserbear, Greater Noida	Control System
Expert Lecture on Recent technologies in Mobile Communication	15/09/16	Dr. M. Palanivelan Prof. & Head (ECE) Rjalakshmi Engineering College, Chennai	Mobile Communication

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

GNIX DEPARTMENTS:

Technical –

One machine can do the work of 50 ordinary men. No machine can do the work of extraordinary men. The technical department of GNIX gives you the platform, enthusiasm and support to create, develop and show your technical skills.

Marketing-

Our job is to connect to people to interact with them in a way that leave them better than we found them, more able to get where they would like to go.

Literary-

This department avails opportunity to students to be able to improve their english writing ability through anchoring,writing applications getting permissions and so on.

Creativity-

Creativity is a subset of intelligence .Intelligence is a subset of creativity. This department is a place where something new and somehow valuable is formed. All creations created here are intangible.

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.

MISENTRA- National Seminar:

Recently, the most veracious two days National Seminar was organised on Emerging Microwave Remote Sensing Technology for Rural application (MISENTRA 2017) during 30 & 31 March 2017 in Seminar Hall, which was sponsored by Department of Science and Technology, Ministry of Science and Technology, Govt of India at Galgotias College of Engineering & Technology.

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.

Workshop on Semiconductor Industory Trends:

Today's trend is that of shifting from personal computers to personal communication and computing, where system knowledge and expertise is now being encapsulated into single-chip solutions incorporating both hardware and software.

This revolution is enabled and fuelled by deep submicron CMOS technologies, enabling gigascale integration. Program which is planned to conduct introduces all the key areas of knowledge and skills required to command the System-on-Chip technology, namely hardware design,

embedded software design, analog circuit and ideas for project works was conducted by DKOP Labs Pvt. Ltd. on 26 August 2016.

Events & Contest Participated by Students:

Name of student	Event	Position
Vatsala Shukla	CANSAT satellite 'National Students Space Challenge' at IIT Kharagpur	1 Rank
Sanchit Goel	Dance events: at NLU	Winner
Sanchit Goel	Dance events: at NSIT	Winner
Shubham Bhambey	Group dance competition at PEARL UTSAV'14 at TALKATORA STADIUM, NEW DELHI.	2 Rank

Industrial Visit:

Students of 3rd year Electronics and Communication Engineering visited BSNL Satellite Earth Station, Sikandrabad (U.P.) on 23/3/2017 and 24/3/2017.

A leading telecom infrastructure and solutions company, HUAWEI Telecommunications, Gurugram (Haryana) is visited by students of 2nd year Electronics and Communication Engineering on 11/4/2017 and Moserbear, Greater Noida, Uttar Pradesh on 25/8/2016.

Placements:

Company Name	No. of Students placed
IDEA	5
Cognizant	15
Ericsson	14
VIVO Mobile Pvt.Ltd.	9
Relcom Infotech Pvt. Ltd..	3
HCL Tech	2
IBM	12
Infosys	17
Tech Mahindra	7
Wipro Technologies	16

Eminent Recruiters: