

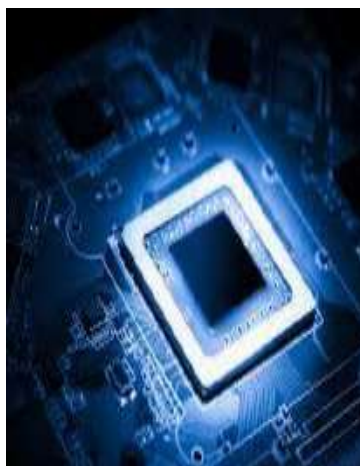
NEWSLETTER

2014-15

Vol-1/April, 2015

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING (ECE)

Message from Dr. Pradyot Kala, Prof. and
Head, ECE Dept.



The ECE Dept. newsletter is a platform for sharing educational information, activities and events related to the department. Introducing the very first issue, I hope that this newsletter will provide the useful and relevant information. This is a platform to share information and you can participate by sharing your thoughts on the departmental activities or by contributing information on the events that you have organized.

Chief Editor: Dr. Pradyot Kala (HOD, ECE)

Editor: Mr. Saurabh Katiyar (Asst. Professor, ECE)

Mr. Amanpreet Singh (Asst. Professor, ECE)

Students Editor: Saurabh Rastogi

Mratyunjay Saran Shrivastava

ABOUT THE DEPARTMENT

The Department of ECE offers B.Tech and M.Tech course in Electronics and Communication Engineering Dr. A.P.J. Abdul Kalam Technical University, (formerly Uttar Pradesh Technical University / Gautam Buddh Technical University) Lucknow. The primary objective of the department has been to impart quality education, training and research at the undergraduate, postgraduate levels in various areas of Electronics and Communication Engineering. The major areas of faculty expertise of the department include Communication Systems, Control Systems, Digital Signal Processing, Image Processing, Multimedia Security, RF and Microwaves, Antennas, Speech Signal Processing, VLSI design and Wireless communication under the aegis of the department's R&D cell known as Bose Research Cell (BRC). The Department is headed by Prof. (Dr.) Pradyot Kala who has a huge experience in the area of Communication Engineering. The Department has well qualified and motivated faculty. The faculty is working with great enthusiasm for teaching and research. In the last one year, faculty and students together wrote more than 50 research papers in various journals and conferences of national and international repute. Out of that 24 papers are from the students only under the guidance of faculty members. The department is equipped with state of the art labs with R & D facilities and uninterrupted power supply. A two days National level conference on "Recent Advances in Metamaterial Antennas for Biomedical, Optical and Sensing Applications" sponsored by DST was also held on 13-14th February 2015. The students are motivated to undertake real-time projects and actively participate in the technical seminars, conferences and workshops and present their work in them. The department has state of the art fully equipped lab focused towards nurturing the students in practical aspects besides theoretical back ground like Electronics Lab, PCB & Electronics Workshop Lab, Digital Electronics Lab, Microwave Lab, Communication Lab, Digital Logic Design Lab, Computer Aided Design (Cad) Lab.

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.

List of Faculty

Faculty name	Designation	Qualification
Dr. Praydot kala	Professor, HOD	Ph.D.
Dr. R.L. Yadav	Professor	Ph.D.
Mr. Shahid Eqbal	Associate Professor	ME/M.Tech
Dr. Jaspreet Kaur	Associate Professor	Ph.D.
Mr Atul Kumar	Associate Professor	ME/M.Tech
Dr. Arti Vaish	Assistant Professor	Ph.D.
Mr. Saurabh Katiyar	Assistant Professor	ME/M.Tech
Ms. Sonam Thakur	Assistant Professor	ME/M.Tech
Mr. Arjun Katiyar	Assistant Professor	ME/M.Tech
Mr. Ajay Sharma	Assistant Professor	ME/M.Tech
Mr. Amanpreet Singh	Assistant Professor	ME/M.Tech
Mr. P.C. Joshi	Assistant Professor	ME/M.Tech
Ms. Bhawna Ahuja	Assistant Professor	ME/M.Tech
Mr. Amit Kumar	Assistant Professor	ME/M.Tech
Mr. Aditya Kumar	Assistant Professor	ME/M.Tech
Mr. Anand Kumar	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
Mrs. Ranjana Kumari	Assistant Professor	ME/M.Tech
Mr. Ashwani Kumar Mishra	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 pal	Assistant Professor	ME/M.Tech
Mr. Sachin Kumar	Assistant Professor	ME/M.Tech
Mr. Deependra Sinha	Assistant Professor	ME/M.Tech
Mr. Navneet Sharma	Assistant Professor	ME/M.Tech
Mr. Manish Kumar	Assistant Professor	ME/M.Tech

Faculty Research Papers/ Books:

List of Publications in Journals:

S. No.	Name of Author	Title of Paper	Name of Journal
1.	Bhawna Ahuja, et al	Adaptive Double Threshold based Spectrum Sensing for Cognitive Radio Networks	International Journal of Energy, Information and Communications, vol. 5
2.	Satya P. Singh et al	Localized Radon Polar Harmonic Transform (LRPHT) Based Rotation Invariant Analysis of Textured Images	International Journal of System Dynamics Applications, vol. 4, issue 2
3.	Satya P. Singh et al	Wavelets: Biomedical Applications	International Journal Biomedical Engineering and Technology, vol. 19
4.	Satya P. Singh et al	Combined Rotation- and Scale-Invariant Texture Analysis Using Radon- Based Polar Complex Exponential Transform	Research Article - Computer Engineering and Computer Science

5.	Eqbal, Shahid et al	Medical Image Feature Extraction for Computer Aided Diagnosis of Lung Cancer	International Journal of Advanced Research in Computer Science and Software Engineering
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List of Publications in Conferences:

S. No.	Name of Author	Title of Paper	Name of Conference
1.	S.P. Singh et al	A Review on Decade of Multi-rate Filters	IEEE Sponsored 2 nd Conference on Electronics and Communication System (ICECS)
2.	S.P. Singh et al	Simulation of Various Adaptive Techniques in Wireless: A Comprehensive View	IEEE Sponsored 2 nd Conference on Electronics and Communication System (ICECS)
3.	S. P. Singh et al	Novel Closed form Expression for Multi Cell Cooperation using MHCP to Reduce Interference	18th International Symposium on Wireless Personal Multimedia Communications
4.	Satya P. Singh et al	Wavelet Packets Based Spectral Estimation of Textured Images	IEEE International Conference on Computational Intelligence & Communication Technology (CICT)
5.	Madan Kumar Sharma, et al	UWB-MIMO Antenna with enhanced Isolation for Breast cancer Detection	IEEE 2nd International Conference on Computing for Sustainable Global Development (INDIACom)
6.	Deepak Gangwar, R.L. Yadava et al	Miniaturized Inverted Multiband Stacked Triangular Fractal Patch Antenna for Wireless Communication	international Conference on Signal Processing and Integrated Networks (SPIN)
7.	Satya P. Singh, et al	Rotation Invariant Texture Analysis Using Radon and Polar Complex Exponential Transform	3rd International Conference on Frontiers of the Intelligent Computing: Theory and Applications (FICTA), vol. 1
8.	S. P. Singh, et al	Mathematical Analysis of Blackmann Window function in Fractional Fourier	International Conference of Medical Imaging, m-Health and Emerging

		Transform Domain	Communication Systems (MedCom)
9.	S.P. Singh et al	A Closed Form Expression for BER over “Alpha-Mu” Fading Based on Novel MGF	3 rd IEEE International Conference of Reliability, Infocom Technologies and Optimization (ICRITO) (Trends and Future Directions)
10.	S. P. Singh et al	A Novel MGF Based Capacity over “Alpha-Mu” Fading Distribution	International Conference of Medical Imaging, m-Health and Emerging Communication System (MedCom)
11.	S.P. Singh et al	MGF Based Solution for Channel Capacity Over Generalized G- Fading Under MRC Diversity Combining	International Conference of Computational Intelligence and Communication Networks (CICN)
12.	S.P. Singh et al	MGF Based Solution for Channel Capacity Over Generalized G- Fading Under EGC Diversity Combining	International Conference of Medical Imaging, m-Health and Emerging Communication System (MedCom)

Departmental Activities



Seminar/ Workshop conducted:

SNo.	Topic	Date	Expert Name/ Organization
1.	Seminar on Design Techniques using Verilog & Xilinx	02/04/15	Mr. Devendra Khari Director, DKOP Lab, Noida
2.	Seminar on ATMEL Microcontroller	02/04/15	Dr. M.A. Khan, My Research Labs Ltd., Noida
3.	Workshop on Introduction to MATLAB	01/04/15	Mr. Rahul Kumar, 3ST Technologies Pvt. Limited,

			Noida
4.	Workshop on PCB designing using PSpice Simulation	01/04/15	Mr. Rahul Kumar, 3ST Technologies Pvt. Limited, Noida
5.	Two days Seminar on Recent Advances in Metamaterial Antennas for Biomedical, Optical and Sensing Applications	13/02/15 & 14/02/15	Dr. Sushil Kumar, NPL, New Delhi
6.	Workshop on Introduction to MATLAB programming and Simulink	19/09/14	Mr. Sandeep Gupta, Director 3ST Technologies Pvt. Ltd., Noida

Conferences Organized:



Two days national level conference on **Recent Advances in Metamaterial Antennas for Biomedical, Optical and Sensing Applications** was sponsored by DST was held on 13-14th February 2015.

Expert Lectures:

Topic	Date	Expert Name	Description
Lecture on Data / Computer Networking (CCNA)	01/04/2015	Mr. Lokender Bhatia, DuCAT, Noida	Hardware description language (Verilog)
Lecture on VLSI Design	19/11/14	Mr. Prashant Dubey, ST Micro Electronics, Greater Noida	Electronics
Lecture on Semiconductor Industry Trends	13/11/14	Mr. Devendra Khari Director, DKOP Lab, Noida	Antenna Design tools

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



Galgotias College of Engineering & Technology
GNIX TEAM



S.NO.	ROLL NO.	STUDENT NAME	GNIX DEPARTMENT
1	1209731099	SAURABH RASTOGI	GEN. SEC.
2	1209731020	ANKUR RAJ SINGH	JOINT SEC.
3	1209731097	SATYENDRA KUMAR PATEL	Technical
4	1209731018	ANKIT PANDEY	Technical
5	1209731012	AMIT KUMAR VERMA	Creative
6	1209731095	SANCHIT GOEL	Creative
7	1209731096	SANTOSH KUMAR	Creative
8	1309731911	POOJA SINGH	Marketing
9	1209731107	SUMIT MISHRA	Marketing
10	1209731100	SAURABH VIKRAM SINGH	Marketing
11	1209731010	AKSHI BHARDWAJ	Literary
12	1209731030	BHUMIKA GUPTA	Literary
13	1209731036	Deepanshu Bajaj	Office
14	1209731046	IRINA UPADHYAY	Office
15	1209731011	AMIT KUMAR	G-Care
16	1209731055	KRIKA VERMA	G-Care

Students extra curriculum activities:

Name of Student	Event	Position
Sanchit Goel	Dance events at GQuasar	Winner
Palak Singh	Nukkad natak at GCET	Participated
Ankur Raj Singh	CHIEF POST in NRC at BIC	Participated
Ankur Raj Singh	In JK tyre racing at BIC	Work as a INTERVENTION OFFICER
Ankur Raj Singh	ADB MEET at INDIAN EXPO MART	Volunteer
Shubham Bhambey	Group Dance competition at ANTARANI'14, IIT Kanpur. 2014	Participated
Shubham Bhambey	Group dance competition at MOSAIC'14 at IILM, Gr. Noida	1 Rank

ZEST - A Technical & Cultural Event:



GNIX student forum organized a two days technical fest ZEST- 2015, 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 12th and 13th February 2015.

Industrial Visit:

1. Around 40 students from UG visited Advance Technology Limited, Chandigarh on 22/8/2014.
2. On 30/10/2014 Students of 3rd year Electronics and Communication Engineering visited Aryabhata Research Institute of Observational Sciences, Nainital, Uttarakhand.

Placements:

Company Name	No. of Students placed
Broadcom	1
Cognizant	8
Ericsson	6
Dive-in Technologies	1
E & Y	2
Mindtree	1
JKT	4
HCL Tech	3
IBM	1
Infosys	11
TCS	4
Samsung R &D	1

Rawelcom Group.	14
Tech Mahindra	11
Wipro Technologies	13

Eminent Recruiters:



