

# IEEE STUDENT CHAPTER

ELECTRONICS AND COMMUNICATION  
ENGINEERING DEPARTMENT



UNIT STB62961

INSTITUTE OF ENGINEERING AND TECHNOLOGY ,  
LUCKNOW



## VISION

To produce manpower in the field of Electronics and Communication Engineering, capable to compete with that elsewhere and to make the department a center of excellence in the field of Signal Processing and Microelectronics.

## MISSION

- M1:** To develop the ability among students and understand concepts of core graduate electronics and communication engineering.
- M2:** To create center of Excellence to meet global research and development challenges
- M3:** To build student community with professional and ethical standards in thrust areas so as to meet industry requirements.

## PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

- PEO1:** Graduates of the programme will have an educational experience that inspires them to exhibit leadership and team building skills and have successful careers in their chosen technical or professional domain.
- PEO2:** Graduates of the programme will continue to learn and adapt in a constantly evolving society and contribute to the society in a professional and ethical manner.
- PEO3:** Graduates of the programme will inculcate good technical and professional knowledge according to requirements of industries and higher studies.
- PEO4:** To inculcate the spirit of innovation / creativity, independent thinking, risk taking ability, entrepreneurship and attitude to approach challenges with confidence.

## PROGRAM SPECIFIC OBJECTIVES (PSOs)

- PSO1:** An ability to understand the concepts of basic Electronics & Communication Engineering and to apply them to various areas like Signal processing, VLSI, Embedded systems, Communication Systems, Digital & Analog Devices, etc.
- PSO2:** An ability to solve complex Electronics and Communication Engineering problems, using latest hardware and software tools, along with analytical skills to arrive cost effective and appropriate solutions.
- PSO3:** **Wisdom** of social and environmental awareness along with ethical responsibility to have a successful career and to sustain passion and zeal for real-world applications using optimal resources as an Entrepreneur.

## **UNIT STB62961- INSTITUTE OF ENGINEERING AND TECHNOLOGY**

### **INTRODUCTION**

IEEE, an association dedicated to advancing innovation and technological excellence for the benefit of humanity, is the world's largest technical professional society. It is designed to serve professionals involved in all aspects of the electrical, electronic, and computing fields and related areas of science and technology that underlie modern civilization.

IEEE's roots go back to 1884 when electricity began to become a major influence in society. There was one major established electrical industry, the telegraph, which since the 1840s had come to connect the world with a data communications system faster than the speed of transportation. The telephone and electric power and light industries had just gotten underway.

IEEE stands for the Institute of Electrical and Electronics Engineers. The association is chartered under this name and it is the full legal name. In the spring of 1884, a small group of individuals in the electrical professions met in New York, USA. They formed a new organization to support professionals in their nascent field and to aid them in their efforts to apply innovation for the betterment of humanity—the American Institute of Electrical Engineers, or AIEE for short. That October, the AIEE held its first technical meeting in Philadelphia, PA, USA. Many early leaders, such as founding President Norvin Green of Western Union, came from telegraphy.

However, as the world's largest technical professional association, IEEE's membership has long been composed of engineers, scientists, and allied professionals. These include computer scientists, software developers, information technology professionals, physicists, medical doctors, and many others in addition to IEEE's electrical and electronics engineering core. For this reason the organization no longer goes by the full name, except on legal business documents, and is referred to simply as IEEE.

IEEE and its members inspire a global community to innovate for a better tomorrow through its more than 423,000 members in over 160 countries, and its highly cited publications, conferences, technology standards, and professional and educational

activities. IEEE is the trusted “voice” for engineering, computing, and technology information around the globe.

Over 100,000 Student and Graduate Student members worldwide make up 25% of the membership of IEEE and are essential to its continued growth and vitality. IEEE worldwide membership is geographically divided into ten Regions. These Regions are further divided into Sections that serve as the centers of activity for professional engineers at the local level.

Undergraduate and graduate student members the same benefits as professional members – Discounts on many technical resources – Reduced registration fees for conferences

– Student discounts

- Society memberships
- Publications

## **HISTORY**

IEEE student chapter was established on 4th September 2003 with the branch code 2562961. Member benefits include access to a multitude of research papers, journals and magazines related to various technical fields like computer science, electrical and electronics engineering, biotechnology, information technology, aerospace, etc. On 4th September 2003 a petition was forwarded to the IEEE for inauguration with Ms. Pallawi Gupta as the Chairperson and the branch was registered with the IEEE in January 2004 with the branch code 2562961. The primary goal of the students' chapter is to create awareness with regard to the latest trends in the field of technological innovation. The association with a global engineers' body like the IEEE shall open up new unexplored horizons to the budding engineers.

**Student Chapter for the year 2012 was called as golden chapter.**

### **IEEE Chapter Executive Committee (2011-12)**

| <b>Designation</b> | <b>Name</b>                      |
|--------------------|----------------------------------|
| Branch Consellor   | Dr. Neelam Srivastava [HoD, ECD] |
| Chairperson        | Mohd. Nomaan [EI Final Year]     |
| Vice Chairperson   | Abhas Bansal [EC Final Year]     |
| Treasurer          | Gaurav Dixit [EC Final Year]     |
| Secretary          | Yashi Jaiswal [EC Final Year]    |
| Joint Secretary    | Anjal Dubey [EC Final Year]      |

### **Student Executive Committee(2011-12)**

|  |                   |
|--|-------------------|
| Chandani Agrawal (EC 3 <sup>rd</sup> year)   | Chair-person      |
| Aakash Kumar Varma (EC 3 <sup>rd</sup> year) | Vice chair-person |
| Nitish Sharma (EE 3 <sup>rd</sup> year)      | Treasurer         |
| Sagar Pundir (EC 3 <sup>rd</sup> year)       | Branch Secretary  |
| Vikram Kumar Deo (EI 3 <sup>rd</sup> Year)   | Joint Secretary   |

## EVENTS IN 2010

- ▶ 4 hour workshop on “Matlab Basics” for 2nd year and 3rd year student by Sashin Kr. Sachan EI final year
- ▶ Short term Course on “Embedded Systems” for 2nd year students by Gaurav Dixit (EC 3rd Year)
- ▶ Workshop on “Introduction to Basic component of Electronics Lab” for EC and EI 1<sup>st</sup> Year by Abhas Bansal & Gaurav Dixit (both EC 3rd year)
- ▶ Lab on above Workshop topics for EC 1<sup>st</sup> Year by Gaurav Dixit, Abhas Bansal and Anoop Pandey (all EC 3rd yr).
- ▶ Workshop on MATLAB Basics for 1<sup>st</sup> year students by Abhas Bansal (EC 3<sup>rd</sup>yr).

**EVENTS IN 2011 IN ASSOCIATION WITH ENCORE 2011**- the annual technical festival of IET Lucknow.

- ▶ **ROBOGAMES**- In This event there will be a white line path on black arena. A robot will have to traverse the path smoothly in prelims round. In final round there will be some obstacles in side of path which must be detected by the bot.
- ▶ **EDAT**- This event is based on simple Analog & Digital circuits for particular problem statements.

Event consists of two parts- 1-Quiz  
2-Circuit Making

## INDEPENDENT EVENTS:

- ▶ Expert lecture by Prof. Kripa Shanker, Vice Chancellor, GBTU Lucknow.
- ▶ Workshop on “Android Mobile Applications” in Association with Paranormals, from IIT Roorkee.



ELECTRONICS AND COMMUNICATION ENGINEERING DEPARTMENT

**CURRENT MEMBERS OF IEEE STUDENT CHAPTER AT IET LUCKNOW**

| S.No. | NAME                 | DESIGNATION      | Member ID       |
|-------|----------------------|------------------|-----------------|
| 1.    | DR. R.C.S. CHAUHAN   | BRANCH COUNSELOR | 90660271        |
| 2.    | GAYATRI TIWARI       | CHAIRPERSON      | 96067404        |
| 3.    | ANUM KHAN            | TREASURER        | 96067640        |
| 4.    | VINAY                | MEMBER           | 94392749        |
| 5.    | JITENDRA SHUKLA      | MEMBER           | 93384195        |
| 6.    | SONMATI VERMA        | MEMBER           | 96070793        |
| 7.    | VIVEK MISHRA         | MEMBER           | 95756239        |
| 8.    | AMIT VERMA           | MEMBER           | 96067375        |
| 9.    | NIDHI SHRIVASTAVA    | MEMBER           | 96066138        |
| 10.   | SEMBA SWAMI          | MEMBER           | 96067336        |
| 11.   | RICHA                | MEMBER           | 96065186        |
| 12.   | SWETA TRIPATHI       | MEMBER           | 95600156        |
| 13.   | PRIYANKA BHARTI      | MEMBER           | 96067395        |
| 14.   | RAHUL SINGH          | MEMBER           | 96067477        |
| 15.   | JITESH SINGH CHAUHAN | MEMBER           | 96067515        |
| 16.   | VIVEK SAXENA         | MEMBER           | 96085505        |
| 17.   | PRITI TRIPATHI       | MEMBER           | 96076644        |
| 18.   | APARNA               | MEMBER           | 95384983        |
| 19.   | PRIYANKA PANDEY      | MEMBER           | 96065235        |
| 20.   | NEERAJ KUMAR         | MEMBER           | 96088067        |
| 21.   | SANA                 | MEMBER           | 96068429        |
| 22.   | INDRA SINGH          | MEMBER           | 96075615        |
| 23.   | PRAVEEN KUMAR        | MEMBER           | 96070994        |
| 24.   | RASHID JAMAL         | MEMBER           | 96067246        |
| 25.   | PRIYANKA SHAKYA      | MEMBER           | 96070853        |
| 26.   | SNIGDHA              | MEMBER           | 96073823        |
| 27.   | RICHA PATHAK         | MEMBER           | 96071173        |
| 28.   | ABHINAY CHOUDHARY    | MEMBER           | 96075585        |
| 29.   | ASHISH DWIVEDI       | MEMBER           | 96071121        |
| 30.   | LOKESH KUMAR         | MEMBER           | 96070922        |
| 31.   | SHIVANGI             | MEMBER           | 96108605        |
| 32.   | PRASHASTI            | MEMBER           | <b>96108647</b> |
| 33.   | ABHISHEK SHUKLA      | MEMBER           | 96075406        |
| 34.   | TOUSHIBA             | MEMBER           | 96078672        |

# ELECTRONICS AND COMMUNICATION ENGINEERING DEPARTMENT

## RECENT ACTIVITIES

### INTERNATIONAL CONFERENCE TECHNICALLY SUPPORTED BY IEEE

International Conference on Defense and Space Technologies, 2019 was organized as a 3 day affair from 23<sup>rd</sup> to 25<sup>th</sup> of August 2019 at Institute of Engineering and Technology, Lucknow. The inaugural session included lamp lighting by the Chief Guest, Honorable Vice Chancellor (AKTU) Prof. Vinay Kumar Pathak. Other guests of honor included Prof. Y. N Singh and Prof. S.N Singh from IIT Kanpur, Prof K.T.V Reddy from IETE, New Delhi and IET's Director Dr.H.K. Paliwal. After the felicitation of the guests and dignitaries by presenting a bouquet, the audience witnessed address from the invited speakers.

ICDST -2019 is supported by TEQIP-3 and technically co-sponsored by IEEE-UP Section. The convener of the conference was Dr.R.C.S. Chauhan of Electronics Department, IET Lucknow.

- Keynote speaker- Prof. T Srinivas  
After the keynote address, the conference witnessed lectures by Dr.NileshM Desai, Additional Director of Space Application Center, ISRO Ahmedabad and by Prof C.S.Upadhyay of Aerospace Engineering, IIT Kanpur.

Dr. S.B.Yadav, Scientist H(Retd.) DMSRDE, Kanpur (DRDO), Dr. Santosh Kr.Pandey from MEITY and Prof.K.V.Arya from IIITM-Gwalior also delivered their lectures. Tea and lunch breaks were provided and separate arrangements were made for the faculties and the participants.

The second day of the conference witnessed six invited lectures including one video conferencing lecture held by Prof. Jaideep Srivastava from University of Minnesota, Minneapolis, USA. The other speakers were Prof.R.Gunasundary of Pondicherry Engineering College, Puducherry, Dr.K.Jayathilakan, DFR Lab, DRDO Mysore, Prof. Ashish Dutta, Prof.K.S Venkatosh from IIT Kanpur and Prof. Krishna Raj of HBTU, Kanpur.

On the 2<sup>nd</sup> day of ICDST-2019, two separate parallel paper presentation sessions were organized; first on Defense and Space Research and the latter on Electronics and ICT. 8 papers were presented by authors from Defense and Space sector while 6 papers were presented in Electronics and ICT session. Awards for the 'Best paper of the track' were also given.

Day 3 will also witness the similar paper presentation sessions alongside with 5 invited lectures. The speakers will be Dr.Virendra Kumar Goswami, Ex-wing commander IAF, Prof.Ashutoshkumar Singh from NIT Kurukshetra, Ms.Poonam Tyagi and Ms.Leena Kohli Kapoor, both from SG, Space Application Center, ISRO Ahmedabad and the last but not the least, Mr.Asif Siddiqui, Head Ground-Station, ISRO Lucknow.





# ELECTRONICS AND COMMUNICATION ENGINEERING DEPARTMENT

## MEDIA GALLERY



IEEE STUDENT CHAPTER

**IEEE UP SECTION MEETING**

A meeting was organised by IET Lucknow for IEEE northzone on 23rd august 2019. Several notable members of IEEE UP section were present i the meeting.

Their details are as follows:

| S.NO. | NAME                   | DESIGNATION                                 | E-MAIL ID              | MOBILE NO. |
|-------|------------------------|---|------------------------|------------|
| 1.    | Prof. S. N. Singh      | Chairperson, India Council IEEE             | snsingh@iitk.ac.in     | 9455133600 |
| 2.    | Prof. Asheesh Kumar    | Chairperson                                 | asheesh@mnnit.ac.in    | 9455733600 |
| 3.    | Prof. Dilip Kr. Sharma | Vice- Chairperson                           | Dilip.sharma@gla.ac.in | 8700442662 |
| 4.    | Dr. PrabhakarTiwari    | Joint Secretary                             | Tiwarip6@gmail.com     | 8765783850 |
| 5.    | Dr. Nitin Singh        | Convener, Publication & Promotion committee | nitins@mnnit.ac.in     | 9935161234 |
| 6.    | Dr. VinayRishiwal      | Convener, Student Activities Committee      | Rishi4u100@gmail.com   | 9412149229 |
| 7.    | Dr. AseemChandel       | Convener, Professional activities committee | aseemchandel@ieee.org  | 9627367311 |
| 8.    | Dr. Rajat Kumar Singh  | Convener, Membership development committee  |                        | 9455484578 |
| 9.    | Dr. Danish Ather       | Convener, Web & Newsletter committee        | danishather@gmail.com  | 9760034342 |
| 10.   | Mr. AnkitYadav         | Student Member                              | ankity@iitk.ac.in      | 9415018627 |
| 11.   | Dr. AkhileshTiwari     |   |                        | 9450141862 |