

### About this FDP:

This FDP aims at enhancing the academic, technological, and intellectual capacities of faculty members and research scholars by providing enough resources and inputs by the learned academician & industry experts.

It will strengthen the professional development of the faculty members and professionals who deal directly with students. It would enable faculty members to update their research and pedagogical skills too.

This FDP will provide a platform for learning recent advances in communication and computational technologies with their application in various domains. The program also caters to the United Nations Sustainable Development Goals (SDG) 4 and 9.

### Resource Persons:

- Dr. Anurag Upadhyay, Rajkiya Engineering College, Azamgarh.
- Dr. Ajay Gangwar, IMS Engineering College, Ghaziabad.
- Dr. Divya Sharma, IET Lucknow.
- Dr. Indrasen, S R University, Warangal.
- Dr. Vivek Rajpoot, Aditya Engineering College, Andhra Pradesh, India.
- Dr. Manmohan Singh, Meerut Institute of Engineering and Technology, Uttar Pradesh, India.
- Dr Vikrant Varshney, MIET Meerut.
- Ms. Suchandana Mishra, TOCE, Bangaluru.
- Mr. Sushant Khare, Consultant, Data Strategy and Analytics, Protiviti B. V., Amsterdam.
- Mr. Siddharth Srivastava, IET, Lucknow.
- Mr. Shanawaz Sheikh, Institute of Ireland.

### Eligibility:

Faculty members/ Engineering Professional of the Institutions/ Universities/ Industries can apply for the programme. However, Research Scholars/M.Tech./B.Tech. students with an ambition to explore these fascinating areas are also welcome.

### Major Course Contents (80 Hours):

- **Optical fiber:** Photonics crystal fiber, Plasmonic communication, Terahertz communication
- **Optical Bragg Sensors:** Applications in railways.
- **Antennas:** Biomedical Antennas, Patch Antenna, multiband antenna, Antenna for different applications.
- **Non-Linear optical Communication:** PCF nonlinear Devices,
- **5G/6G Advancement:** Non-orthogonal multiple access (NOMA), visible light communication (VLC) networks, Power Domain Non-Orthogonal Multiple Acces.
- **Cognitive Communication:**
- **Recent Advancement in III-V heterostructure**
- **Low Voltage high speed double tail dynamics comparators**
- **Cloud Computing:** Blockchain Technology, IoT

### Activity:

**Contact Hours:** Online Lectures (Video-Conferencing), Discussion & Hands on Practices (72 hours).

**Online Activity:** Online Quiz/Assignment (08 Hours).

### Certification:

An E- Certificate will be provided to every participant on successful completion of FDP ie. after at least 80% attendance and securing > 60% marks in online quiz/assignment.

### Registration Link:

- Registration Link:
- <https://forms.gle/xkX5c3g3iTMb9mbS7>
- No Registration Fee.
- Online google meet/Zoom link will be provided through WhatsApp/E-mail.

### Important Dates:

- Last date (online Registration): 10.09.2022
- Selected Participants will be notified through by:11.09.2022



## Two-Week Equivalent Blended Faculty Development Programme

### On “Recent Trends in Communication and Computational Technologies”

Sep 12 -Oct 10, 2022

**Organized by:**  
**Department of Electronics and  
Communication Engineering,  
Integral University, Lucknow  
Kursi Road, Lucknow, Uttar Pradesh  
226026**  
<https://iul.ac.in>



## About Integral University

Integral University, a seat of educational excellence, is a premier university in Lucknow, the capital city of the state of Uttar Pradesh, India. The State Government established it under Act Number 9 of 2004. The University Grants Commission (UGC) under sections 2 (f) and 12B of the UGC Act approve the University, 1956, Medical Council of India, Pharmacy Council of India, Indian Nursing Council, Council of Architecture, Bar Council of India, Indian Association of Physiotherapists, National Council for Teacher Education, UP State Medical Faculty and Distance Education Bureau. Integral University is accredited by NA AC, SIRO by the Department of Scientific & Industrial Research, Ministry of Science & Technology, and Government of India. University has marvelous ambience and academically, lively and vibrant environment, highly conducive to higher and dedicated academic pursuits. The university is committed to generating, disseminating, and preserving knowledge.

## About Lucknow

Lucknow is the capital and the largest city of the Indian state of Uttar Pradesh. It has been known as the city of tehzeeb, culture, art, music, poetry, literature, food and embroidery to technology, finance and pharmaceuticals. All this has ensured its prominence as a center of business and industry, education and research as well as tourism. Lucknow's period charm, together with lingering traces of its famed courtly etiquette, sets it apart from other cities in India. Lucknow, today, is an amalgam of the ancient and the modern, both existing side by side to give special flavor to the city.



## About the Department of Electronics and Communication Engineering (ECE)

The Department of Electronics and Communication Engineering is one of the oldest departments of this University, Established in 1998. The department secured NBA accreditation in 2007. The department has distinguished itself with its alumni spread all over the world. Equipped with the most advanced labs, this department nurtures young minds & provides them the appropriate launch pads to grow and excel in the technical world. The department offers Bachelor of Technology, Master of Technology and Doctoral Degree.

## Vision of the Department

To envision the escalation of students in the sphere of Electronics & Communication Engineering, through an effective teaching learning process and quality research, to hone their competence on an international rostrum with sound technical, interpersonal, analytical, managerial skills and professional ethics.

## Mission of the Department

- To inculcate a scientific temper in the students towards research in Electronics & Communication Engineering.
- To provide the students an environment of academic freedom that will insure an exchange of ideas and dissemination of knowledge in the domain of Electronics and Communication Engineering through effective teaching.
- To advance and spread the knowledge in the areas of electronics, communication, signal processing, instrumentation, and very large-scale integration leading to creation of wealth and welfare of humanity.
- The department offers state-of-the-art infrastructure for effective teaching-learning process and for achieving excellence in research.
- To create awareness & arouse an insatiable thirst for life-long learning through interaction with the external world regarding contemporary issues, technological trends and entrepreneurship.

## CHIEF PATRON

Prof. S.W. Akhtar, Founder & Chancellor, IU, Lucknow

## PATRON

Dr. S.Nadeem Akhtar, Pro-Chancellor, IU, Lucknow

Prof. Javed Musarrat, VC, IU, Lucknow

## CO-PATRON

Prof. Mohd. Haris Siddiqui, Registrar, IU, Lucknow

Prof. T Usmani, Dean Engineering, IU, Lucknow

Prof. S. H. Saeed, HoD, IU, Lucknow

Prof. N. R. Kidwai, Deptt. of ECE, IU, Lucknow

## CONVENORS

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## ORGANIZING COMMITTEE

- Dr. Mohd.Y.Yasin
- Dr. S. Kumar
- Dr. I. U. Khan
- Dr. Tarana A. Chandel
- Dr. Saima Beg
- Dr. Ayan M. Khan
- Dr. Mohd.Suhaib Kidwai
- Ms. Nupur Mittal
- Mr. Mohd.Amir Ansari
- Mr. Zohaib H.Khan
- Mr. Qazi Saeed Ahmad