



A Six-Day FDP on

**“Emerging Technologies in 5G
Communication and Beyond”**

4th to 9th December 2023

Sponsored by AICTE ATAL Academy



Organized by:

**Department of Electronics &
Telecommunication Engineering**

(NBA Accredited for 2019-2022 & 2022-25)

Progressive Education Society's

**MODERN COLLEGE OF
ENGINEERING,**

**Approved by AICTE New Delhi, Recognized
by Govt. of Maharashtra,**

Affiliated to Savitribai Phule Pune University

NAAC Accredited with ‘A++’ Grade,

Shivajinagar, Pune – 411 005.

www.moderncoe.edu.in

ABOUT THE INSTITUTE

P.E.S.'s Modern College of Engineering was established in June 1999, approved by AICTE New Delhi, recognized by Govt. of Maharashtra, DTE and is affiliated to Savitribai Phule Pune University.

Principal, Prof. Dr. Mrs. K. R. Joshi has a great vision and dynamic approach, which has enabled the institute to reach new heights in the field of education.

The Institute has eight UG, six PG programs and five recognized research centres affiliated to Savitribai Phule Pune University, Pune.

The institute has been awarded the ‘Best Professional College in Urban area’ by Savitribai Phule Pune University for 2010-11 and accredited by NAAC with ‘A++’ grade with CGPA 3.66 in the year 2022.

The UGC has conferred the autonomous status to the Institute for a period of 10 years from the academic year 2023-2024 to 2032-2033.

ABOUT THE DEPARTMENT

With the vision to impart holistic education in Electronics and Telecommunication Engineering to create engineers equipped to meet the challenges of a dynamic, global environment, the Department of E&TC was started in 1999.

The mission of the Department is to impart quality education in the field of Electronics, Communication and Signal Processing, by providing a comprehensive learning experience. The Department has highly qualified and experienced faculty members. The Department takes consistent efforts to develop competent Engineers, well-versed in multi-disciplinary fields. The E&TC Department is NBA accredited for 2019-2022 and 2022-2025.

ABOUT THE FDP

The objective of AICTE's Training and Learning (ATAL) is to impart quality training through Faculty

Development Programmes (FDPs) for Postgraduate students, Research scholars and Faculty members.

The Institute shares a vision similar to the ATAL Academy. The objectives of the FDP are - 1) To explain the key concepts of 5G, its implementations and emerging trends to Telecomm professionals and academicians. 2) To describe the benefits of performance parameters of 5G like higher data rates, low latency communications and enhanced digital experiences across a wide array of connected devices, from smart phones to enterprise laptops to AR/VR products to vertical IOT solutions. 3) To explain the fundamental blocks of wireless communication system for 5G applications using LabVIEW simulation.

DURATION OF FDP

6 Days from 4th to 9th December 2023

PARTICIPANTS

Faculty members of the AICTE approved institutions, Research scholars, PG Scholars, participants from Government, Industry Bureaucrats/Technicians/ Professionals/ School Teachers and faculties of host institutions nominated by the head of the institutions.

INSTRUCTIONS FOR PARTICIPANTS

- **No registration fees.**
- **The FDP will be conducted in OFFLINE mode only.**
- Permission letter issued by Principal/ authority as per format is to be submitted.
- Hard copy of identity proof of institute/organization is to be submitted.
- External Participants (traveling more than 20KM one side to attend the FDPs) who attend at least 90% of the sessions will be reimbursed with the cost of traveling, with a blanket amount of Rs. 2000/- at the end of the FDP.

- No accommodation. However, assistance for the stay arrangements can be provided on request.
- Attendance for all sessions is mandatory (80% minimum)
- Certificate will be issued to the participant who will score more than 70% in the assessment conducted by the host Institute.

RESOURCE PERSONS

- **Prof. Dr. Jayanta Mukherjee**
Professor,
Department of Electrical Engineering,
IIT Bombay, Powai, Mumbai, India
Topic - **Candidate technologies for 5G & Beyond**
- **Dr. P. H. Rao**
Director General,
Society for Applied Microwave Electronics
Engineering & Research (SAMEER),
Ministry of Electronics & IT, GOI,
Mumbai, Maharashtra, India
Topic - **6G: Challenges and India initiatives**
- **Dr. (Cdr) Arnab Das**
Director of the Maritime Research Centre (MRC),
Indian Navy Veteran,
Pune, Maharashtra, India
Topic - **Communication protocols in Marine Science**
- **Ms. Kumkum Datta**
Global Competency Head, Private 5G, Intelligent
Network, Tech Mahindra,
Bangalore, Karnataka, India
Topic – **Enabling Industry 4.0 with Private and Enterprise 5G**
- **Dr. Munir Sayyed**
Asst. Vice President,
Reliance Jio, Mumbai, Maharashtra, India
Topic - **Research areas in 5G and 6G**

- **Dr. Shravani A. Shahapure**
Associate Director,
Cryptography and Quantum,
Deloitte, India
Topic – **Quantum-Resilient Cryptography for 5G Networks: Navigating the Post-Quantum Era**

- **Prof. Dr. Rajashree Raut**
Associate Professor and Dean (SA),
Government College of Engineering,
Nagpur, Maharashtra, India
Topic - **Cognitive Radio & 5G Technology**

- **Sai Giridhar Prabhu**
Head, Packet Core, Ericsson Global Ltd,
Pune, Maharashtra, India
Topic - **Optimization and Resource allocation for 5G Communication**

- **Rohan Kanitkar**
Director,
Topographix Solutions Pvt Ltd.
Pune, Maharashtra, India
Hands-on sessions - Background of **LabVIEW**, basic building blocks in wireless communication system, Demonstration of LabVIEW for 5G models, etc.

ADVISORY BOARD

- **Prof. Dr. M. S. Sutaone**
Director, Indian Institute of Information Technology,
Allahabad, Uttar Pradesh, India

- **Prof. Dr. Avinash Joshi**
Chief Operating Officer at SATHI Foundation,
IIT Kharagpur,
West Bengal, India

- **Prof. Dr. S. B. Deosarkar**
Professor and Dean,
Dr. Babasaheb Ambedkar Technological University,
Lonere, Raigad, Maharashtra, India

CHIEF PATRON

Hon. Prof. Dr. G. R. Ekbote (M.S. M.N.A.M.S.)
Chairman, Business Council,
Progressive Education Society, Pune

PATRONS

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Secretary, Progressive Education Society, Pune

Prof. Dr. Mrs. J. G. Ekbote
Joint Secretary, Progressive Education Society, Pune

CONVENER

Prof. Dr. Mrs. Kalyani. R. Joshi
Principal, Progressive Education Society, Modern
College of Engineering, Pune

CO-CONVENER

Prof. Dr. Mrs. Rupali. S. Kamathe
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CO-COORDINATORS

Mrs. R. S. Chaudhari: 9923318484
Mrs. A. P. More: 9922437370
Assistant Professors, E&TC Department, PES MCOE

ORGANIZING COMMITTEE

All the faculty members of the E&TC Department,
PESMCOE