



Sanmarg Shikshan Sanstha's

SMT. RADHIKATAI PANDAV COLLEGE OF ENGINEERING, NAGPUR.

Near Dighori Naka, Umred Road, Bahadura ,Nagpur-440034

AN AUTONOMOUS INSTITUTE

Affiliated to R.T.M.Nagpur University.

Application Number : 1775111634

**AICTE TRAINING AND LEARNING (ATAL)
ACADEMY SPONSORED
ONE WEEK FACULTY DEVELOPMENT
PROGRAM (FDP)**

on

"Next Generation Wireless Communication"

Date: 3rd to 8th August, 2026.

**Organized by
Department of Electronics and
Telecommunication
Engineering**

**Smt.Radhikatai Pandav College of
Engineering,
Nagpur.**



ABOUT THE INSTITUTE

Smt. Radhikatai Pandav College of Engineering was established in the year 1999. The Institute is Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University. It is spread in 25 acres and build up area is more than 22000 square meter. The Institute offers six undergraduate (B.Tech) Programs along with two postgraduate programs (MBA , MCA) catering to diverse fields of Engineering and Technology. It is supported by well developed central facilities including a spacious seminar hall, well stocked central library, modern auditorium and a fully equipped computer centre to enhance academic and research activities. The institute actively promotes Industry-Institution interaction, enabling students to gain practical exposure and industry relevant skills. To foster innovation and Technical excellence, the institute regularly organizes various development programs.

ABOUT THE DEPARTMENT

The Electronics and Telecommunication Engineering Department was established in 1999. The Department is well established and equipped with twelve laboratories, including five advanced computer laboratories with high speed internet connectivity. The Department is supported by a team of highly qualified and experienced faculty members dedicated to academic excellence , Research and Innovations. It also features a well maintained departmental library with a rich collection of technical resources and modern smart classrooms that facilitate effective teaching-learning process. The Department continuously strives to provide a strong foundation in emerging technologies and industry oriented skills to students and participants. The Department takes pride in its strong alumni network with graduates successfully placed in reputed organization.

ABOUT FDP

A Faculty Development Program (FDP) on "Next Generation Wireless Communication" is a program designed mainly for Faculty members, Researchers, and Postgraduate students to upgrade their knowledge in modern communication technologies like 5G, 6G, IoT, AI- ML based networks, Optical communication and RF Communication. It is an academic training initiative that focuses on emerging wireless technologies and their applications in teaching, research, and industry. The main goal is to bridge the gap between traditional curriculum and modern technological advancements in communication systems. An FDP on 'Next Generation Wireless Communication' is highly valuable for staying updated in a rapidly evolving field.

CHIEF PATRONS

Hon'ble Dr. Girishji Pandav
(President, SSS Nagpur)

Hon'ble Shri. Kiranji Pandav
(Secretary, SSS Nagpur)

Hon'ble Smt. Tanushree Thakre
(Director,SRPCE Nagpur)

PATRON

Dr. P. S. Lanjewar
(Principal, SRPCE Nagpur)

HEAD OF DEPARTMENT

Prof. V. W. Wankhede
(Department of
Electronics & Telecommunication)

COORDINATOR

Dr. S. V. Umale

CO-COORDINATORS

Prof. C. D. Raut

Prof. R. S. Ali

Advisory Committee

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Prof. N. M. Bajpai

Prof. Y. M. Warkari

Prof. R. A. Deokate

Prof. P. R. Yelekar

Prof. A. M. Patil

Prof. A. S. Shende

CONTENTS

- System Integration of Aerospace Vehicles : A system Engineering Approach in Next Generation Communication.
- Satellite & Aerial Communication.
- Advanced Fiber Optic Sensors – Case Studies.
- Wireless Communication in 6G.
- Privacy & Data Communication in Next Generation Communication.
- Fundamentals of RF Communication.
- Emerging Trends in Next Generation Wireless Communication system.
- IoT in Wireless Communication.
- AI and Machine Learning in Communication.
- Time & Stress Management.

Proposed Resource Speakers:

- - **Mr. Prabhakar More**, Sc 'H' & Outstanding Scientist Group Director, Research Centre, DRDO, Hyderabad.
- - **Dr. Tapan Kumar Jain**, Assistant Professor, IIIT Nagpur.
- - **Dr. Pramod Watekar**, Program Lead, National Quantum Mission (IIT Kgp, IITB, IITR, IITBbn), Dept of Electronics and Electrical Engg., IIT, Kharagpur.
- - **Dr. Prabhatkumar Sharma**, Assistant Professor, VNIT, Nagpur.
- - **Mr. Sachin Kawalkar**, Vice President, Global Head CISO, Head of Cyber Security, Data Privacy Head, Neeyamo Enterprise Solutions Pvt Ltd, Pune.
- - **Mr. Lochan Keote**, Assistant General Manager, BSNL Civil Lines, Nagpur.
- - **Dr. Amit Agarwal**, Assistant Professor, VNIT, Nagpur.
- - **Mr. Ritesh Jain**, Associate Principal Engineer, Giesecke & Devrient, Pune.
- - **Mr. Somil Deshmukh**, Senior Technical Specialist, Tata Consultancy Services, Nagpur.
- - **Dr. Asish Taywade**, Director, Right Turn Consultancy Services, Nagpur.

OBJECTIVES

Enhance Technical Knowledge



To update faculty with the latest developments in wireless communication technologies such as 5G, 6G, IoT, and advanced networking systems.

Bridge Academia–Industry Gap



To align academic teaching with current industry trends and requirements in modern communication systems.

Promote Research and Innovation



To encourage faculty members to engage in research activities in emerging areas like AI-ML based wireless networks, Smart communication, and future internet technologies.

Improve Teaching Methodologies



To introduce modern teaching techniques, tools, and simulation platforms for better understanding of complex communication concepts.

Provide Hands-on Exposure



To give practical experience using tools such as MATLAB and network simulators for designing and analyzing wireless systems.

Develop Interdisciplinary Skills



To integrate knowledge from fields like Artificial Intelligence, Machine Learning, and IoT into wireless communication

OUTCOME



The faculty members of the AICTE approved institutions, research scholars, PG students and Industry Professionals will increase their depth of knowledge.



Faculty would be able to revise and update their courses to incorporate the latest trends in wireless communication, ensuring that students are well-prepared for the evolving industry demands.



The program might include workshops with industry experts, providing faculty with valuable insights into how academic research and industry practices align. This could result in future collaborations with industry experts.



Post-program, faculty might initiate new research projects focusing on next-generation wireless technologies, with potential funding from government bodies or industry partners.



Participants would also be briefed about global efforts in standardization from bodies like 3GPP, ITU, and IEEE, ensuring they are up to date with industry best practices and compliance issues.



Sessions led by industry experts could offer deeper insights into specialized areas of wireless communication, like wireless network security, network slicing, or Micro Wave Technology

WHO CAN PARTICIPAT

The faculty members of the AICTE approved institutions, research scholars, PG students and Industry Professionals.

FDP Registration (MODE OF FDP : Offline)

Participants can sign up and register for free to the FDP in AICTE ATAL website links:

<https://www.aicte-india.org/atal>

<https://atalacademy.aicte-india.org/login>

For More Details Contact :

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