

ABOUT DEPARTMENT

The Department of Electronics and Communication Engineering has an approved annual intake of 180 students for its NBA-accredited B.Tech. (ECE) program. The department has highly trained and qualified faculty members who are committed to imparting high-quality education. The laboratories, developed by the faculty themselves, are well equipped, adaptive to the needs of ambitious students, and foster an environment conducive to research and practical knowledge acquisition. To encourage extracurricular activities among students, the department has various professional chapters and cells. The activities and competitions organized by these communities allow students to showcase their technical and fundamental electronics skills. A considerable number of our talented students have been recruited by prestigious government and private sector organizations. Thus, we believe that our students will be assets not only to our department and institution, but also to the nation at large.

DEPARTMENT VISION

The department aspires to be an advanced center of learning by synergizing teaching, learning and research to produce competent engineers capable of serving the society.

DEPARTMENT MISSION

DM1: To prepare graduates with sound technical knowledge and motivate them to explore emerging areas of research.
DM2: To create environment for the development of research and innovation activities.
DM3: To build strong relationships with industry through collaborative partnerships, student internships and research towards product development.
DM4: To instill ethical and professional values among graduates with awareness towards societal and environmental concerns.

ABOUT INSTITUTION

Bharati Vidyapeeth's College of Engineering (BVCOE), New Delhi, since its establishment in 1999, has strived to provide the best engineering education to its students through well-qualified and dedicated faculty and well-equipped modern laboratories. The college is affiliated with Guru Gobind Singh Indraprastha University, New Delhi, and is approved by the All India Council for Technical Education (AICTE), Ministry of HRD, Govt. of India. BVCOE is steadily striding forward in its quest to establish itself among the top engineering colleges in North India.

INSTITUTE VISION

To be an institute of excellence that provides quality technical education and research to create competent graduates for serving industry and society.

INSTITUTE MISSION

M1: To impart quality technical education through dynamic teaching-learning environment.
M2: To promote research and innovation activities which gives opportunities for life-long learning in context of academic and industry.
M3: To build up links with industry-institute through partnerships and collaborative developmental works.
M4: To inculcate work ethics and commitment in graduates for their future endeavors to serve the society.



Offline Faculty
Development Program
On



**5G Mobile Networks : Technologies,
Applications
& Research Perspectives**

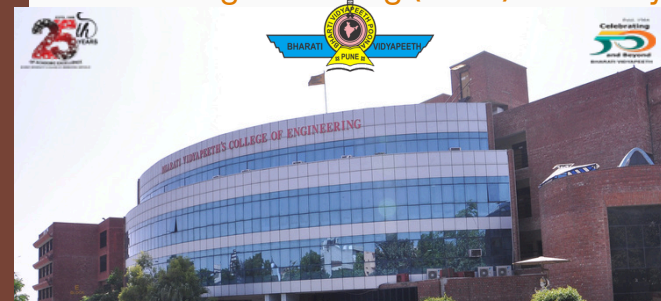
From

27th July to 1st August 2026

Application No.1776072022

Sponsored by

AICTE Training & Learning (ATAL) Academy



Organised by :

Department of Electronics & Communication
Engineering
Bharati Vidyapeeth's College of Engineering,
New Delhi

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HoD, Dept. of ECE, New Delhi

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Student Volunteer

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ABOUT ATAL FDP

The Faculty Development Program (FDP) aims to provide in-depth knowledge of modern wireless communication technologies with a focus on 5G systems. It is designed to familiarize participants with the evolution from 1G to 5G, 5G architecture, spectrum usage, advanced RF components, Massive MIMO, beamforming, network slicing, SDN, and IoT integration. The program also emphasizes practical exposure through industrial visits and emerging trends like beyond 5G technologies, enabling faculty members to enhance their teaching effectiveness and research capabilities in cutting-edge communication domains.

Objective:

The Faculty Development Program (FDP) aims to provide comprehensive knowledge of modern wireless communication technologies with a strong emphasis on 5G systems and their evolution from 1G to advanced networks. It is designed to equip participants with an understanding of 5G architecture, spectrum and frequency bands, advanced RF components, Massive MIMO, beamforming, network slicing, SDN, and IoT integration. The program also focuses on emerging technologies such as beyond 5G systems and includes practical exposure through industrial visits to enhance real-world understanding. Overall, the FDP intends to strengthen the teaching, research, and technical capabilities of faculty members in the domain of advanced communication systems.

Outcome:

After successful completion of the FDP, participants will be able to effectively understand, analyze, and explain key 5G technologies and related concepts. They will gain hands-on insights into advanced RF design, network architectures, security aspects, and real-world 5G use cases. Participants will be able to integrate these concepts into classroom teaching, guide student projects, and undertake research in emerging communication technologies. Additionally, they will be better equipped to update curriculum content and contribute to industry-oriented education and innovation.

INFO FOR PARTICIPANTS

RESOURCE PERSONS:

Resource persons are from various reputed Institutions, IIT's, NIT's, State & Central Universities and Industries.

ELIGIBILITY:

This AICTE sponsored FDP is open to the faculty members of AICTE approved Institutions, Research scholars, participants from Government, Industry (Bureaucrats / Technicians/Participants from Industry etc.) and staff of the host institutions.

REGISTRATION:

Registration is mandatory for attending the FDP. The participants are requested to register in the ATAL portal. **No Registration Fee**
<https://atalacademy.aicte-india.org/login>

GUIDELINES:

The FDP will be conducted in offline mode. There will be 10 sessions & one Industrial Visit in six days. As per AICTE Training and Learning (ATAL) Academy guidelines No registration fee will be charged from the participants. Attendance is mandatory. On completion of the course an objective/quiz-based assessment of all participants will be done. Participants who have attendance of minimum 80% and more than 60% score in the test will be issued a digital certificate by AICTE Training and Learning (ATAL) Academy.



AICTE Training and Learning - (ATAL) Academy

SPONSORED
**6 DAYS OFFLINE FACULTY
DEVELOPMENT PROGRAM**

On

**5G Mobile Networks:
Technologies, Applications
& Research Perspectives
Mode: Offline**

Application No: 1776072022

REGISTRATION FORM

Name:.....
Department:.....
Designation:.....
Institution /Industry:.....
Email ID:.....
Mobile:.....
Dr/Mr/Ms/Mrs.....

Schedule of ATAL BASIC OFFLINE FDP

FDP Application Number: 1776072022

Title of the FDP: 5G Mobile Networks: Technologies, Applications and Research Perspectives

FDP Start Date: 27/07/2026

FDP End Date: 01/08/2026

Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
9:00 – 9:30 Inauguration					
9:30 – 12:00 Session 1	9:30 – 12:00 Session 3	9:30 – 12:00 Session 5	9:30 – 12:00 Session 7	9:30 – 12:00 Session 9	9:30 – 12:00 Session 1
1. Name of the Expert : <i>Dr. Sam Darshi</i> 2. Designation : <i>Associate Professor</i> 3. Organization: <i>IIT Ropar</i> 4. Experience in Years: <i>10 Years</i> 5. Topic to be taught: <i>From ARQ to Intelligent Retransmissions in 5G and Beyond</i>	1. Name of the Expert : <i>Dr. Ankit Garg</i> 2. Designation : <i>Assistant Professor</i> 3. Organization: <i>NSUT</i> 4. Experience in Years: <i>08 Years</i> 5. Topic to be taught: <i>From Quantized Feedback Based Precoding for 5G and Beyond</i>	1. Name of the Expert : <i>Dr. Mukesh Kumar Khandelwal</i> 2. Designation : <i>Associate Professor</i> 3. Organization: <i>Delhi University Dept. of Electronics Sci.</i> 4. Experience in Years: <i>11 Years</i> 5. Topic to be taught: <i>From Advanced RF Components: Design, Fabrication and Testing</i>	1. Name of the Expert : <i>Dr. Brijesh Kumbhani</i> 2. Designation : <i>Assistant professor</i> 3. Organization: <i>IIT Ropar</i> 4. Experience in Years: <i>11 Years</i> 5. Topic to be taught: <i>From MIMO wireless communication, cloud radio access networks (CRAN) with mm-wave microwave integration for vehicular communications</i>	1. Name of the Organization: <i>Delhi Technological University</i> 2. Complete address with pincode : <i>Main Bawana Road, Shahbad Daulatpur, Rohini, New Delhi-110042</i> 3. Industry Type: <i>Technical Institute</i> 4. Area of specification : <i>5G</i>	1. Name of the Expert : <i>Dr. Kirti Gupta</i> 2. Designation : <i>Professor</i> 3. Organization: <i>BVCOE Delhi</i> 4. Experience in Years: <i>24 Years</i> 5. Topic to be taught: <i>Research Methodology</i>
12:00 – 1:00 Article Discussion	12:00 – 1:00 Article Discussion	12:00 – 1:00 Article Discussion	12:00 – 1:00 Article Discussion		
1. Title of the Research Paper : <i>Performance Analysis of Uplink Rate-Splitting Multiple Access With Hybrid ARQ</i> 2. Name of the journal: <i>IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS</i> 3. Year of Publication: <i>2024</i>	1. Title of the Research Paper : <i>Clustering Based Diversity Improving Transmit Laser Selection Schemes Using Quantized Feedback for FSO System</i> 2. Name of the journal: <i>IEEE TRANSACTIONS ON Vehicular Technology</i> 3. Year of Publication: <i>2021</i>	1. Title of the Research Paper : <i>A Miniature Two-/Four-Port UWB Antenna With MIMO Characterization Having Three Stopbands and Pattern Diversity Useful for 5G/6G/WiFi-6E IoT Mobile Devices</i> 2. Name of the journal: <i>International Journal of Communication Systems</i> 3. Year of Publication: <i>2026</i>	1. Title of the Research Paper : <i>THz Hybridization in CRAN-Based Vehicular Networks: Performance and Handoff Implications</i> 2. Name of the journal: <i>IEEE Communications Letters</i> 3. Year of Publication: <i>2025</i>		12:00 – 1:00 Article Summary
1:00 – 2:00 Lunch	1:00 – 2:00 Lunch	1:00 – 2:00 Lunch	1:00 – 2:00 Lunch	1:00 – 2:00 Lunch	1:00 – 2:00 Lunch
2:00 – 4:30 Session 2	2:00 – 4:30 Session 2	2:00 – 4:30 Session 2	2:00 – 4:30 Session 2	2:00 – 4:30 Session 2	2:00 – 4:30 Session 2
1. Name of the Expert : <i>Dr. DEEPAK SALUJA</i> 2. Designation : <i>Team Lead</i> 3. Organization: <i>GreyB Research Pvt. Ltd.</i> 4. Experience in Years: <i>15 Years</i> 5. Topic to be taught: <i>5G: From Research to Real-World Impact</i>	1. Name of the Expert : <i>Bhuvnesh Kaushik</i> 2. Designation : <i>Chief Architect</i> 3. Organization: <i>TechPhosis Private Limited</i> 4. Experience in Years: <i>19 Years</i> 5. Topic to be taught: <i>MAC/RLC/PDCP/SDAP</i>	1. Name of the Expert : <i>Jai Prakash Gupta</i> 2. Designation : <i>Scientist E</i> 3. Organization: <i>Scientific Analysis Group, DRDO.</i> 4. Experience in Years: <i>20 Years</i> 5. Topic to be taught: <i>Quantum Key distribution</i>	1. Name of the Expert : <i>Mr. Vivek Krishna Verma</i> 2. Designation : <i>Assistant Director General</i> 3. Organization: <i>Department Of Telecommunications.</i> 4. Experience in Years: <i>18 Years</i> 5. Topic to be taught: <i>Roll of Research, telecom governance, and leadership in India's 5G growth.</i>	1. Name of the Expert : <i>Mr. Amandeep Singh</i> 2. Designation : <i>Product Manager</i> 3. Organization: <i>HR Universal Systems (Deemed OEM of Optiwave)</i> 4. Experience in Years: <i>15 Years</i> 5. Topic to be taught: <i>Design and Performance Analysis of DWDM-Based 5G Optical Network Using OptiSystem</i>	12:00 – 4:00 MCQ & Reflection Journal
4:30 – 5:30 Hands on Case Studies	4:30 – 5:30 Hands on Case Studies	4:30 – 5:30 Hands on OptiSystem	4:30 – 5:30 Hands on Case Studies	4:30 – 5:30 Hands on OptiSystem	4:00 – 5:00 Valedictory Session