Recruitment Brochure

Bharti School of Telecommunication Technology and Management
IIT Delhi



2025 - 26

bharti

About IIT Delhi

Indian Institute of Technology Delhi is one of the 23 IITs created to be Centres of Excellence for training, research and development in India's science, engineering and technology.

Established as the College of Engineering in 1961, the Institute was later declared an Institution of National Importance under the “Institutes of Technology (Amendment) Act, 1963” and was renamed “Indian Institute of Technology Delhi”. It was then accorded the status of a Deemed University with powers to decide its academic policy, conduct its own examinations, and award its degrees.

Since its inception, over 48000 have graduated from IIT Delhi in various disciplines, including Design, Engineering, Physical Sciences, Management and Humanities & Social Sciences. Of these, nearly 5070 received PhD degrees. The number of students who graduated with a B.Tech. degree is over 15738. The rest obtained Master’s Degrees in Engineering, Sciences and Business Administration.

These alumni today work as scientists, technologists, business managers and entrepreneurs. Several alumni have moved away from their original disciplines and have taken to administrative services, active politics or are with NGOs. In doing so, they have contributed significantly to building of this nation.



BSTTM, IIT DELHI



Bharti School of Telecommunication Technology and Management (BSTTM) is a part of IIT Delhi, established in partnership with Bharti Enterprises. It focuses on cutting-edge education and research in telecommunications and its management. The school offers programs like M.Tech in Telecom Technology and Management, MBA in Telecom Systems Management (in collaboration with DMS, IIT Delhi), MS (Research), and PhD. BSTTM emphasizes interdisciplinary learning by combining electrical engineering, computer science, and management. It is also involved in major national projects like the indigenous 5G testbed and collaborates closely with industry through the IIT Delhi Centre of Excellence in Telecommunications.



PROF.Manav Bhatnagar
HEAD BSTTM, IIT DELHI

Prof. Manav Bhatnagar

Head of Department, Bharti School of Telecommunication Technology and Management,IIT Delhi

The M.Tech. program in Telecommunications Technology and Management is a unique program run by the Dept. of **Electrical Engineering**, Dept. of **Computer Science** and the Dept. of **Management Studies**. The curriculum is especially designed to make the students well prepared for industry while ensuring a strong background in telecommunications. Besides telecom technology, rigorous training is provided to the student to make them capable to adapt to the prevalent industry demands. The state-of-the art labs and the research environment provided by the Bharti School makes this a very popular choice for the students aspiring to join IIT Delhi.

Our Vision

To contribute to the nation as well as the world by developing Telecom Leaders of tomorrow through excellence in Education and Research.

Meet Our Faculty



Prof. Manav Bhatnagar

Head of Department
Research Area: Quantum Communication , 5G/6G communication, Signal Processing for MIMO Communication Systems



Prof. Gokulnath Thandavarayan

Assistant Professor
Research Area: V2X Communications 5G/6G Wireless,Intelligent Transportation Systems (ITS), Smart Mobility ,LTE-V2X



Prof. Abhishek Dixit

Assitant Professor
Research Area: Optical communications and networking,radio over fiber, visible light communications, optical access networks



Prof. Gourab Ghatak

Assistant Professor
Research Area: Stochastic geometry, mm-wave communications, 5G/6G Network planning, ML for wireless networks



Prof. Sandeep Kumar

Assistant Professor
Research Area: Signal processing, machine learning and graph methods in data analytics, communication.



Prof. Swades De

Professor
Research Area: Comm Net. performance modeling and analysis, cross-layer optimization studies



Prof. Monika Aggarwal

Professor
Research Area: Signal Processing and Communications



Prof. Brejesh Lall

Professor
Research Area: Multiscale Modeling of Stochastic Processing



Prof. Saif K Mohammed

Professor
Research Area: Wireless Communication (Large MIMO Systems/Massive MIMO Systems)



Prof. Seshan Srirangarajan

Assistant Professor
Research Area: Signal Processing, Wireless sensor networks, Optimisation, ML



Prof. Arpan Chattopadhyay

Assitant Professor
Research Area: IoT, Cyber-physical systems, Next-gen wireless comm and networking, ML, Reinforcement Learning



Prof. Neel Kanth Kundu

Assitant Professor
Research Area: Quantum Communications, Quantum Sensing,Quantum Key Distribution, Wireless Communications,Machine Learning,,Deep Learning for 6G Networks



Prof. Smruti Ranjan Sarangi

Professor
Research Area: Hardware Security, Computer Architecture, Embedded Systems, PCB Security, Large Language Models



Prof. Vireshwar Kumar

Assistant Professor
Research Area: Applied Cryptography, Adversarial Machine Learning



Prof. Arpan kar

Professor
Research Area: Artificial Intelligence, Digital Platforms, Internet Ecosystems, Technology Adoption, Technology Appropriation, User Experience



Prof. Santanu Mana

Assitant Professor
Research Area: Molecular Beam Epitaxy, III-V Semiconductors, Quantum Dots, Entangled Photon Emitters, Quantum Communication, Quantum Key Distribution



Prof. Mahim Sagar

Professor
Research Area: Brand Management, Ethical Brand Positioning and Consumer Based Business Strategy



Prof. S. Dharmraja

Professor
Research Area: Queueing theory, stochastic modeling, performance and analysis of computer and communication systems and financial mathematics



Prof. Harshan Jagadeesh

Associate Professor
Research Area: Wireless networks, Coding theory, Distributed Storage Networks, Wireless Security, Cyber-Physical Systems

And many more...

Bharti School of Telecommunication

Bharti School of Telecommunication was set up in year 2000 through a joint initiative of IIT Delhi and Bharti Enterprises to fulfill emerging technological as well as managerial aspects of telecom, with a vision " To develop Telecom Leaders through excellence in education and research". Research at Bharti School covers cutting-edge areas like 5G/6G communications, IoT, wireless networks, signal processing, AI in telecom, and cybersecurity. The school regularly collaborates with leading global universities, communication and IT industries and is also involved in several national-level R&D initiatives and government-sponsored telecom missions.

Recent Projects

- **COMMUNICATION & SIGNAL PROCESSING**
  - Implementing Error Correcting Code (LDPC Encoder and Decoder) over 5G Standard
  - Zak-OTFS for next generation systems
  - Enabling Haptic Applications Beyond 5G Systems
  - Sustainable Value Chain in Telecomm Technology
  - Multi-edge computing using 5G test beds.
- **MACHINE LEARNING**
  - Graph-ML based optimization and algorithms
  - Human intent estimation using visuo-tactile feedback for teleoperation.
  - Multimodal attention conditioning for virtual try-on.
  - LLMs for Wireless Communications
  - Graph Neural Network for Wireless Communication
- **NETWORKS**
  - Development of a QKD Network Simulator
  - Authentication and Encrypted Image Transmission using Diffie-Hellman Key
  - Packet Routing enhanced using Multi-Agent Reinforcement Learning.
  - SDR based cellular network traffic scheduling analysis
- **EMBEDDED SYSTEMS AND HARDWARE**
  - Building a fast pico-router with in-memory content addressed memory
  - Development of an embedded AI core with API for telecom applications
  - Accelerator Trace integration on a Full system (x86) simulator Sniper
  - Design of ultra-smart Embedded Router

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Courses we study

- Wireless Communication
- Signal Theory
- Digital Communications
- Advanced Digital Signal Processing
- Architecture for Data Science and Signal Processing Systems
- Low-Power CMOS Integrated Circuit Design
- Semiconductor Memory Design
- CMOS RF IC Design
- Digital CMOS VLSI Design
- Analog Circuit Design
- Machine Learning for Wireless Communication
- Computer Communication Networks
- Detection and Estimation Theory
- Introduction to Machine learning
- Reinforcement Learning
- Data Visualization and Cloud Computing
- Network Security
- Telecom System Management
- Computer Vision
- Mobile Computing

Labs we have

- Communication and Signal Processing Lab
- Wireless Networks Lab
- AI and Machine learning Lab
- Digital Systems Lab
- 5G & Beyond Wireless Communication Lab
- 6G & Beyond Wireless Communication Lab
- Quantum and AI Innovation Lab

Batch Profile

M.Tech in Telecom Technology Management

The current M.Tech batch in Telecom Technology Management is a diverse cohort of 24 students from backgrounds in electronics & communication (ECE), computer science (CS), and electrical engineering(EE).
United by a passion for cutting-edge telecom innovations, the batch brings together a unique blend of technical expertise and management acumen. Their core interests span across:

- Wireless Communication
- Signal Processing
- Artificial Intelligence & Machine Learning
- Embedded Systems
- VLSI
- Software Engineering
- Quantum Communication

2025-27 Batch Internships

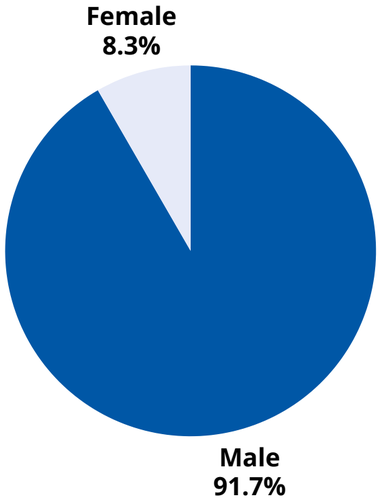
Bharti Airtel : - Aditya S Chandra, Rupak Jana

Teleforce :- Krish Savaj, Harsh Agarwal, Samarth Agrawal

Hughes Systique :- Suryansh

Makers Hive :- Saptarsi Chakrabarty

VSD Squadron :- Deepanshu , Pratyush Gupta, Hrishabh Sahu



Gender ratio

Past Recruiters

bharti

Qualcomm

intel

BROADCOM

Texas Instruments

MEDIATEK

SAMSUNG

verizon

tsmc

ERICSSON

LeapFrog Semiconductor

NVIDIA

HFCL

AMD

hp

Micron

airtel

HCL

सी-डॉट C-DOT

MAT SUN LABS

DRDO Defence R&D Organisation Ministry of Defence

LG

elucidata

indusinsights

MORABU HANSHIN Industry Co.,Ltd.

EATON Powering Business Worldwide

For Further Information please visit :
https://ocs.iitd.ac.in/ocs/recruiter.php?id=past

Year Wise Placements

2024-26 Batch Students

ISHAN KUMAR	QUALCOMM
SAURABH CHAUHAN	HCL TECH
SUBHAM THAKUR	TIMBLE TECHNOLOGIES
NISHANT AGNIHOTRI	EATON TECHNOLOGY
PIYUSH ARORA	INDUS INSIGHTS AND ANALYTICAL SERVICES
PRIYANKA R	ELUCIDATA
KIRANJEET KAUR	VELANKANI

2023-25 Batch Student

ANIL GURJAR	QUALCOMM

2022-24 Batch Students

SHIKHAR VARSHNEY	ANALOG DEVICES
ARYAN CHOUDHARY	QUALCOMM
S. SIDDHARTH S. ROUT	LG SOFT INDIA PVT. LTD.
RAJAT MISHRA	LG SOFT INDIA PVT.LTD.
PARAS SHARMA	SAMSUNG E&A
ABHILASH	HCL TECHNOLOGIES
B NAVEEN CHAITANYA	MORABUHANSHIN PVT LTD
PRADYOT YADAV	MORABU HANSHIN PVT LTD

2021-23 Batch Students

ADNAN ASLAM	QUALCOMM
VIKAS GUPTA	TSMC
RAHUL SAHA	LEAPFROG SEMICONDUCTORS
THALLAM PAVAN MADHU	LEAPFROG SEMICONDUCTORS
SHIVANGI GUPTA	LEAPFROG SEMICONDUCTORS
SARATH MOHAN	HFCL
SANKARADITYA VIKAS KAMARSU	HCL

2020-22 Batch Students

HRISHKESH SASTE	AMD
SIDDHARTH SANKAR	MEDIATEK

2019-21 Batch Students

YAMINI SINGH	QUALCOMM
VARUN GUPTA	QUALCOMM
KRISHNA CHAITANYA CH	QUALCOMM
SATYAM SINGH	MICRON
AASHI GUPTA	MICRON
MANAS KANKANE	MATDUN LABS
KALA KANHU KARSI	RXLOGIX
S GAUTAM	TEXAS INSTRUMENTS
SRINIVAS ANJAY KUMAR	INTEL
PRIYANKA SINGH	INTEL
SHILPI MISHRA	INTEL
SANTOSH SHARMA	HCL
AYUSH GUPTA	HCL
NIMISH HCL EKTA SINGH	MICRON
ROHIT KUMAR UPADHYAY	DRDO

Department Facilities

Communication and Signal Processing Lab

This Eco-friendly Lab provides about 45 personal dedicated workstations. This secured access monitored lab is open for student access on 24/7/365 basis . The lab houses equipment for advanced experimentation in Signal Processing and embedded Systems for use in modern communication systems. The other equipment/ facilities include Arduino, Raspberry Pi Boards, SDR (USRP) Boards, DSP and FPGA Boards, tool chains for FPGA, DSOs with CAN/LIN triggering, Digital Multi-meters, EFI workstation etc.

Wireless Networks Lab

It's engaged in research and education in the broad area of wireless communications, Wireless Channel Measurement, Space Time Codes, MIMO Systems, Sensor Networks, Broadband Antenna Design. It also houses the Virtual Wireless Lab projects, sponsored by MMRD, which is likely to impart the engineering student community nation wide for remote experimentation and research.

Digital Systems Lab

This lab houses some of the high-end electrical characterization equipment meant for wafer and chip level characterization of electronic devices and circuits down to cryogenic temperatures as well as mm-wave frequencies up to 67 GHz. The lab also has facility to perform low frequency noise measurements, DC measurements, and a solar simulator.

Quantum and AI Innovation Lab

Established in collaboration with QInsight Labs, this lab advances education, innovation, and hands-on research in Quantum Technologies and Artificial Intelligence. It offers interactive platforms like Visual QKD, Visual Quantum Lab, Visual ML Lab Pro, and Visual DL Lab also supporting student learning and research. It has conducted workshops on Quantum Communication, the lab is expanding into AI/ML training programs. A QKD Test bed is currently under development, with a limited-qubit Quantum Computing platform planned for academic and advanced research use.

5G & Beyond Wireless Communication Lab

The lab is designed to house the core equipment of the proposed communication systems test and R&D bench at IIT Delhi as an Academia-Industry Collaborative R&D exercise towards faculty research translation, industry-grade systems/product development, and technology incubation.

6G & Beyond Wireless Communication Lab

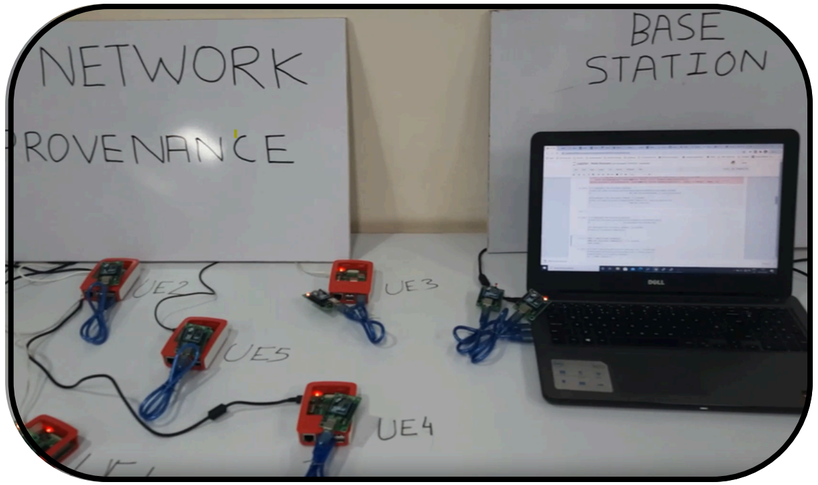
The “6G and Beyond Wireless Communication lab” is focused on developing wireless communication technologies for 6G (e.g., modulation waveforms for 6G high mobility scenarios, joint communication and radar sensing). Emphasis will be on development of algorithms for 6G technologies. Government and industry funding will be sought to setup an experimental facility for verification of 6G algorithms and technologies.

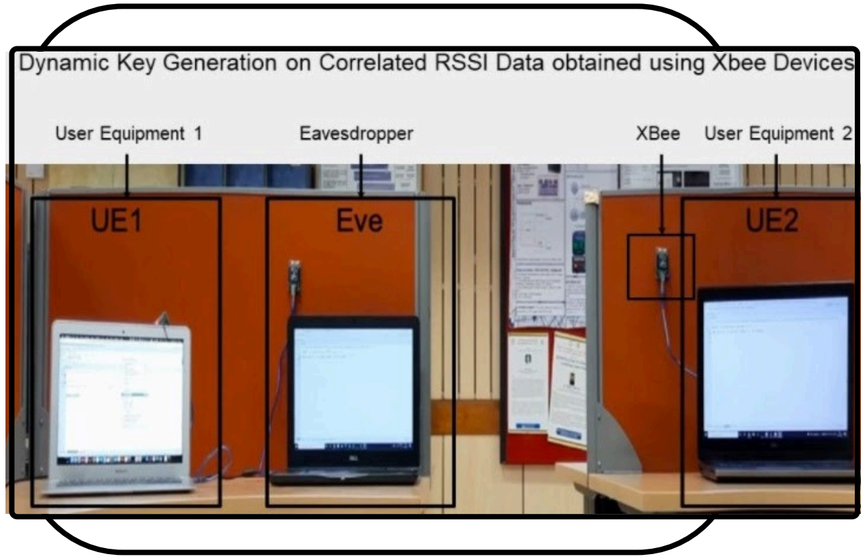
Research Domain

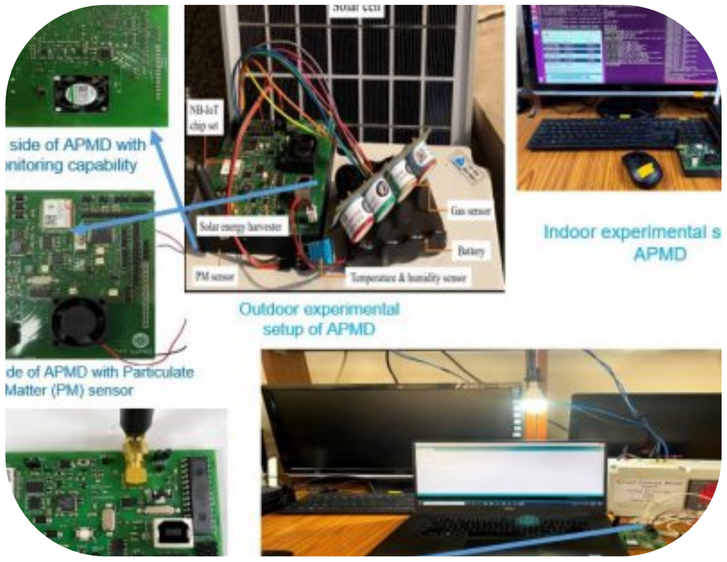
- Reconfigurable Intelligent Surfaces (RIS) and Smart Environments
- Next-Generation Modulation and Waveforms
- Massive MIMO Systems
- Quantum Communication
- Vehicular Communication V2X
- Adaptive Filtering and Estimation
- Machine Learning in Signal & Communication
- Biomedical Signal Processing











Communication and Signal Processing

Quantum and AI Innovation

Machine learning



Recruitment Process

1

IIT Delhi sends an invite

Once you show interest, an email is sent by the placement office along with relevant details and a registration link.

2

Companies fill the JNF/TNF

JNF-Job Notification Form and TNF-Training Notification Form needs to be filled by the recruiter. Once it is frozen, the opening is listed in the IITD Recruitment Portal.

3

Shortlist, Interview & Recruit

Interested students apply through the portal. Resume(s) and Portfolios
are sent via mail. Recruiters shortlist, interview and hire the students.



Contact us

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