PLACEMENT BROCHURE

Bharti School of Telecom Technology & Management

IIT DELHI
FROM THE HEAD’S DESK

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 specially 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.

OUR MISSION

To develop human potential to the fullest extent possible so that intellectually capable and imaginatively gifted leaders can emerge into a wide range of professions.
The new revised school curriculum provides the students opportunities to specialize in various topics through choice of streamed electives. Students benefit from courses in cognate departments (Computer Science, Electrical Engineering and Management).

### DEPARTMENT OF ELECTRICAL ENGINEERING
- Signal Theory
- Digital Communications
- Computer Networks
- Telecom Technologies
- Analog Integrated Circuits
- Synthesis of Digital Systems
- Embedded Systems
- Digital Signal Processing
- Computer Vision
- Mobile Computing
- Wireless Communications

### DEPARTMENT OF COMPUTER SCIENCE
- Operating Systems
- Data structures & Algorithms
- Computer Architecture
- Machine Learning
- Big Data Analytics
- Cloud Computing
- Internet Technologies
- Advanced Machine Learning
- Database Implementation
- Advanced Computer Networks
- Network and Systems Security

### DEPARTMENT OF MANAGEMENT STUDIES
- Telecom Systems
- Management
- Telecom System Analysis, Planning and Design
- International Telecom Management
- Marketing Management

### MAJOR LABORATORIES
- Telecom Software Lab
- Telecom Networks Lab
- Digital Systems Lab
- Wireless Research Lab
- Computer Networks Lab
- IOT Lab
- Pervasive Computing Lab
This Lab facilitates students in electronic systems development and enables them to learn and implement various programming languages and software development tools such as C, C++, OOP, Python, Linux, Shell Scripting, Cross Compilation, MQTT, Network programming, LaTeX, etc.

**Facilities:**

- OS: Linux - Ubuntu 18.04, Solaris, Windows 10
- Simulation: Ptolemy, NS, Opnet*, RSoft, Optiwave*
- VHDL: VHDL Studio (GreenMountain), Xilinx Vivado
- Embedded: Rabbit, Bochs/IA-32Emulator, IntelIXP4xx
- IDE: Anjuta, Eclipse, SN, Forte/Netbeans
- UML/SDL: Poseidon, Telelogic*, Rational
- Requirement Management: Telelogic/DOORS
TELECOM NETWORKS LABORATORY

This Lab facilitates students in the development, simulation and testing of networking problems using tools such as Verilog, LabVIEW, RTOS, Wireshark, ISDN Simulator, NS3, MATLAB etc.

Available Kits: Virtex-II Pro, Spartan, Raspberry Pi, Arduino, ZYBO-Zynq 7000, ESP32etc

Facilities:

- 100 Mips Microcontroller Development Kit
- ISDN Simulator
- GPS MODULE
- Flash Based FPGA KIT & Intel Processor
- Rabbit Kits – RCM 3000 Development Kit
- Tool Kit with Dynamic C-premier
- Altera Kit - UP-2 DLP-70 UP-2 Design lab pack
- Entrasy Network Switch SC 105 – 5 Slot
WIRELESS RESEARCH LABORATORY

This Lab helps students in understanding and implementing the practical scenarios of Wireless Communication and applications development based on a set of experiments like Path Loss Exponent and Fraunhofer distance, OFDM implementation using SDR, Implementation of Adaptive Modulation and Coding using SDR, Interference mitigation with Spread Spectrum techniques using SDR, MIMO beamforming implementation using SDR.

Available Kits: Amitec Software Defined Radio-LAB SDR04, Open BTS (2GBase Stations), DSOs, and all kinds of antennas, etc.,

INTERNET OF THINGS LABORATORY

With increase in machine-to-machine communications, IOT along with virtualization technology, aims to establish

- A heterogeneous network where any device can plug in and start using the services hosted by the cloud service provider
- Main research interest lies in implementing a generic protocol where any remote devices likesmartcars, smartphones, industrialinstruments likesensors, etc. can connect to cloud server and can be managed centrally
- Besides this, a smart building concept is in the development stage in which locations of the sensors and smart devices are utilized
Students at Bharti School have a rigorous curriculum that enables them to pursue projects in variety of domains. The ongoing projects of batch 2021-23 are:

**CURRENT PROJECTS**

**EMBEDDED SYSTEMS**
- Implementation of Low-Density Parity-Check (LDPC) Codes in FPGA
- Bent Function Synthesis using FPGA for Secure Encryption and Decryption
- FPGA-based Design of Stream Cipher Encryption and Decryption
- High Level Synthesis: L1 Offload
- Charge-pump Digital-to-Analog Driver Design

**SOFTWARE/NETWORKING**
- Blockchain for Security of IoT Networks
- Path Planning of Unmanned Aerial Vehicles (UAV)
- Privacy for Distributed Computation
- Compressed Sensing based Provenance Recovery in Wireless Networks
- Modeling and Analysis of P4 Switches
- QoS/QoE Provisioning for 5G Multimedia Broadcasting with Partial Feedback
- Remote and Rural Connectivity using High Altitude Platform Station (HAPS) and Unmanned Aerial Vehicles (UAV)
- Enhancement in RAN and Core Architecture for 5G NR-MBMS

**COMMUNICATION & SIGNALS**
- Cooperative Full Duplex Device-to-device Communication
- Energy Optimization in 5G Wireless Networks
- EEG Processing to Detect Alzheimer
- Cooperative NOMA and Energy Harvesting Techniques

**SOFTWARE/NETWORKING**
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**INFORMATION PROCESSING**
- Private Information Retrieval for Shared Database with Heterogeneous Privacy Requirements
- Erasure Codes for Distributed Storage
- Privacy for Distributed Computation.
- Digital Scene Matching Area Correlator

**SOFTWARE/NETWORKING**
- Blockchain for Security of IoT Networks
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**ANALYTICS**
- Synaptic Plasticity and Memory Consolidation
- Architectural Analysis of Neural Networks
- Video Synthesis using Deep Generative Models
- Brain Microstate Analysis with Signal Matched Filter Banks
- Classification of Infrared Images of Sinus Areas to Detect Covid and Other Influenza like Diseases
### 2018-2020 Batch Statistics

1. ANSHUMAN SINGH  
   INTEL  
2. CHANDAN PARDHI  
   INTEL  
3. DEVENDRA KHATRI  
   INTEL  
4. HITHESH REDDY  
   MAXLINEAR  
5. KARTIK GUPTA  
   SAMSUNG  
6. MANAS RANJAN PATRO  
   RELIANCE JIO  
7. PRIYANSHU AGGARWAL  
   INTEL  
8. RAHUL GIROTRA  
   MAVENIR  
9. SHIVAJI ROY  
   SAMSUNG  
10. SHIVAM GUPTA  
    AMD  

### 2019-2021 Batch Statistics

1. YAMINI SINGH  
   QUALCOMM  
2. VARUN GUPTA  
   QUALCOMM  
3. KRISHNA CHAITANYA  
   QUALCOMM  
4. SRINIVAS ANJAY KUMAR  
   INTEL  
5. SURAJ PARIHAR  
   INTEL  
6. PRIYANKA SINGH  
   INTEL  
7. SHILPI MISHRA  
   INTEL  
8. SATYAM SINGH  
   MICRON  
9. AASHI GUPTA  
   MICRON
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<td>SANTOSH SHARMA</td>
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<td>AYUSH GUPTA</td>
<td>HCL</td>
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<td>SRIJAN UPADHYAY</td>
<td>HCL</td>
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<td>KALA KANHU KARSI</td>
<td>RXLOGIX</td>
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<td>MANAS KANKANE</td>
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<td>DRDO</td>
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**2020-2022 BATCH STATISTICS**

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<td>1.</td>
<td>HRISHKESH SASTE</td>
<td>AMD</td>
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<tr>
<td>2.</td>
<td>SIDDHARTH SANKAR</td>
<td>MEDIATEK</td>
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SELECTIONS IN 2018-2020

- Hardware Design Engineer: 20%
- Software Engineer: 30%
- Hardware Engineer: 50%

SELECTIONS IN 2019-2021

- Telecom (Software) Engineer: 40.9%
- Embedded Software: 4.5%
- Communication (core): 13.7%
- Hardware Design Engineer: 31.8%

PLACEMENT STATISTICS

Average CTC in LPA

- **Highest CTC Accepted in LPA**: 29
- **Average CTC in LPA**: 17.35
- **Lowest CTC Accepted in LPA**: 8

PLACEMENTS 2019-2021
PAST RECRUITERS

CISCO, AMD, ORACLE, Texas Instruments, Intel, Qualcomm, MediaTek, NVIDIA, Enphase, Delta Electronics, Inc., airtel, SanDisk, Ericsson, Samsung, Infineon, Citicorp, Broadcom, Bloomreach, HP, C-DOT, ACCOLITE, Reliance, Reppify, One97, HT Media, IBM, Cognizant, TATA Consultancy Services, ONICRA, Infosys, MaxLinear, MANY MORE ...
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