PLACEMENT BROCHURE

Bharti School of

Telecom Technology & Management

IIT DELHI
FROM THE DESK

FROM THE HEAD’S DESK

The M. Tech. program in Telecommunications Technology and Management is a unique program run by the Department of Electrical Engineering, Department of Computer Science and the Department 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
- Computers Networks Lab
- Internet Of Things (IOT) Lab
- Pervasive Computing Lab
- Samsung digital academy Innovation Lab
TELECOM SOFTWARE LABORATORY

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, Shell Scripting, Awk/Sed Scripting, Network programming, Lexical Analyser, YACC, Tcl/Tk, LaTeX, etc.

Facilities:

- OS: Linux - Ubuntu 18.04, Solaris, Windows 10
- Simulation: Ptolemy, NS, Opnet*, RSoft, Optiwave*
- VHDL: VHDL Studio (Green Mountain), Xilinx Vivado
- Embedded: Rabbit, Bochs/IA-32 Emulator, Intel IXP4xx
- 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 LabVIEW, RTOS, CommSim, Wireshark, ISDN Simulator, NS2, etc.

Available Kits: Virtex-II Pro, Spartan, Raspberry Pi, Arduino, ZYBO-Zynq 7000, ESP32 etc

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.

Available Kits: Software Defined Radio(s) (SDRs), Open BTS (2G Base Stations) and all kinds of antennas

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 like smart cars, smart phones, industrial instruments like sensors, 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 2018-20 are:

### Embedded Systems
- Computer Aided Diagnosis of Pulmonary Tuberculosis model for the Indian subcontinent
- Impulsive noise characterization in high speed DSL
- Design of ultra-smart Embedded Router
- E-monitoring of health of Data Centre

### Networking/Software
- Artificial Intelligence based mobile app for identifying maize diseases
- R&D of smart, secure, scalable, resilient and adaptive cyber physical power systems
- Bio-inspired algorithms for network congestion control
- Cognitive Radio Networks
- Open BTS Kit (2G) application

### Communication & Signals
- Building end to end 5G testbed and its development
- Object Classification pipeline
- Intelligent object abandonment detection system, video assessment
- Co-phasing in underlay Cognitive Radio

### Analytics
- Big data analytics using Apache Hadoop
- Predictive analytics using R language
- Alzheimer's Analysis using Machine Learning
**2017-2019 BATCH STATISTICS**

1. Shefali Gupta  
   Enphase Energy  
2. Ankit Dixit  
   Intel  
3. Ghanendra Singh  
   Intel  
4. Ankita Gupta  
   Infineon Technologies  
5. Mohit Varshney  
   Havells  
6. Bhawna Kamra  
   Mediatek  
7. Induru Sunil Reddy  
   Delta Electronics

**2016-2018 BATCH STATISTICS**

1. Karan Saxena  
   Texas Instruments  
2. Harshal Kumar  
   Qualcomm  
3. Mounika Kusunuri  
   Qualcomm  
4. Akarsh Agarwal  
   Intel  
5. Abhishek Mishra  
   Intel  
6. Tanya Bansal  
   Intel  
7. Jyotirmay Maity  
   Intel  
8. Nitin Garg  
   Intel  
9. Dheeraj Kumar  
   Accenture  
10. Madhav Bhatt  
    Marvel Semiconductors  
11. Anant Khandelwal  
    Telstra Corporation
PLACEMENT STATISTICS

SELECTIONS IN 2017-2019
- Hardware Engineer: 70%
- R&D Software: 15%
- Software Developer: 15%

SELECTIONS IN 2016-2018
- Embedded Software: 30%
- Deep Learning: 10%
- Analog Design: 10%
- Software Developer: 50%
PLACEMENT STATISTICS

AVERAGE CTC IN LPA

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PLACEMENTS 2017-2019

- Highest CTC accepted in LPA: 25
- Average CTC in LPA: 17
- Lowest CTC accepted in LPA: 12
TRAINING AND PLACEMENT CELL

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