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
RESOURCES

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 Analyzer, YACC, Tcl/Tk, 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 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(2GBase 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 likesmartcars, smartphones, industrial instruments 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 2018-20 are:

**Embedded Systems**
- Development of healthcare systems and analytics
- Impulsive noise characterization in high speed DSL
- Design of ultra-smart Embedded Router
- E-monitoring of health of Data Centre

**Networking/Software**
- Network virtualization in cloud (BAADAL)
- Security and Authorization frameworks in cloud (BAADAL)
- Cross-site scripting and SQL Injection attacks
- Bio-inspired algorithms for network congestion control
- Cognitive Radio Networks
- Open BTS Kit (2G) applications

**Communication & Signals**
- Path Selection Scheme in Powerline Communications
- 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
# Placement Statistics

## 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 GIROT A, MAVENIR
9. SHIVAJI ROY, SAMSUNG
10. SHIVAM GUPTA, AMD

## 2019-2021 Batch Statistics

1. YAMINI SINGH, QUALCOMM
2. VARUN GUPTA, QUALCOMM
3. K C CHENNAMANEMI, 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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<th>Name</th>
<th>Company</th>
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<td>12.</td>
<td>AYUSH GUPTA</td>
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<td>RXLOGIX</td>
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SELECTIONS IN 2018-2020

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

SELECTIONS IN 2019-2021

- Software Engineer: 9.1%
- Embedded Software: 4.5%
- Communication (core): 13.7%
- Telecom (Software) Engineer: 40.9%
- Hardware Design Engineer: 31.8%
PLACEMENT STATISTICS

Average CTC in LPA

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<th>Year</th>
<th>CTC Accepted in LPA</th>
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<td>Average</td>
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<td>Lowest</td>
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PLACEMENTS 2019-2021
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