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, 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
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 & amp; 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
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

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**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, smartphones, 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:

**CURRENT PROJECTS**

**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
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 RA  MAVENIR
9. SHIVAJI ROY  SAMSUNG
10. SHIVAM GUPTA  AMD

2017-2019 BATCH STATISTICS

1. SHEFALI GUPTA  ENPHASE ENERGY
2. ANKIT DIXIT  INTEL
3. GHANENDRA SINGH  INTEL
4. ANKITA GUPTA  INFINEON
5. MOHIT VARSHNEY  HAVELLS
6. BHAWNA KAMRA  MEDIATEK
7. INDURU SUNIL REDDY  DELTA ELECTRONICS
PLACEMENT STATISTICS

SELECTIONS IN 2018-2020

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

SELECTIONS IN 2017-2019

- Hardware Engineer: 70%
- Software Developer: 15%
- R&D Software: 15%
24.1 HIGHEST CTC ACCEPTED IN LPA
19.2 AVERAGE CTC IN LPA
7 LOWEST CTC ACCEPTED IN LPA

PLACEMENTS 2018-2020
PAST RECRUITERS
OFFICE OF CAREER SERVICES

Ms. ANISHYA MADAN

Head of Department
Office of Career Services
placement@admin.iitd.ac.in
hodocs@admin.iitd.ac.in

Website: http://tnp.iitd.ac.in
Phone: 011-26591731/32

Bharti School of Telecom Technology & Management

Prof. Swades De
HEAD
swadesd@ee.iitd.ac.in
Phone: 011-26591042

Prof. Seshan Srirangarajan
TNP COORDINATOR
seshan@ee.iitd.ac.in
Phone: 011-26591107

BHARTIOFFICE

Ms. Savita Sharma
Room No.: 102, II-A Bharti Building, IIT Delhi
bhartischooloffice@gmail.com
Phone: 011-26596200

Yamini Singh
STUDENT COORDINATOR
yamini23295@gmail.com
Phone: +91-6394737900

Bharti Website: http://bhartischool.iitd.ac.in/