

The revolutionary changes sweeping through the telecommunications industry have a direct impact on almost every business decision made today. Every major corporate in India, be it domestic or multinational, is viewing the telecom sector as a potential profit earner in the future. The rapidly changing nature of telecom technology calls for highly competent and up-to-date trainers — a most challenging task.

The first and the second semesters of MScTT aim at preparing a graduate to acquire the fundamental knowledge of telecom, networking and IT. Students will be exposed to the latest trends in programming languages and RDBMS.

The third and fourth semesters of MScTT are focused on the core telecommunication subjects, which will help learners to excel in telecom field.

Objectives:

- To develop strong technical competence in modern IT practices in telecom field.
- To impart programming and database handling skills and provide exposure to the latest trends in programming.
- Learn the characteristics of human speech and the generation of electrical signals in modern telephone.

Eligibility: 3 year graduation or equivalent*.

Min. duration: 2 years (4 semesters)

Max. duration: 4 years

Minimum counseling and hands-on experience at learning centers: 160 hrs/semester.

This course is available only at select learning centers. The names and addresses are available on www.manipalu.com.

First Semester

Sub.Code	Title	Credit
ME0001	Computer basics	4
ME0002	C & object oriented programming (OOPS)	4
ME0003	Basic electronics for telecom	2
ME0004	Java programming	2
ME0005	Basic principles of networking	4
Total Credits		16

Second Semester

Sub.Code	Title	Credit
ME0006	Principles of digital telecom	2
ME0007	Broad band communication network	2
ME0008	Wireless communication system	2
ME0009	Mathematics of telecommunications	2
ME0010	Database management	4
ME0011	Software engineering	4
Total Credits		32

Provision for lateral entry to second semester of MScTT (First Level)

Eligibility: 1. Successful completion of BScIT / BCA / BSC (Computer Science) / BE / B Tech (Computer Science / Electronics & Communication) or equivalent.

OR

2. A 3-year graduation with PGDCA/PGDIT or equivalent from a recognized University / successful completion of A level course from DOECC after graduation.

OR

3. A 3-year graduation with 2 years diploma from CMC / ET&T / NIIT/APTECH/2 years advanced diploma in IT from Center for Electronic Design & Technology of India (CEDTI).

Note: In this lateral entry scheme, students have to appear and pass the first semester examination. Books of first semester will be supplied by the University and internal assessment will be completed at the learning center.

Third Semester

Sub.Code	Title	Credit
ME0012	Overview of telecom technology	4
ME0013	Switching & transmission fundamentals	4
ME0014	New generation networks (optical base network)	2
ME0015	Signaling system number7	2
ME0016	WML Script & WAP	2
ME0017	Client server architecture	2
Total Credits		48

Fourth Semester

Sub.Code	Title	Credit
ME0018	Voice over IP	4
ME0019	Geographical information system	2
ME0020	Artificial intelligence & remote communication	2
ME0021	Billing & customer care	2
ME0022	Telecommunication regulation, market and service	2
ME0023	Project	4
Total Credits		64