

M.Tech. Electronics Communication Engineering Syllabus

Schedule/Syllabus of Teaching Schedule of Examination

4 0 4 All theory subjects 3 100 50 150

Project 50 50 100 Seminar 100 100 Dissertation Satisfactory/not Satisfactory

SEMESTER I

EC501 Wireless & Mobile Communication EC502 Electronics System Design EC503 Data Communication Network EC504 Advanced Comm. Systems EC505 Neural Network & Fuzzy Logic EC506 Lab I

SEMESTER II

EC507 Optical Communication Systems EC508 Digital Speech & Image Processing EC509 Information Theory and Coding ECElective I ECElective II EC516 Lab II

SEMESTER III

EC580 Project EC590 Seminar

SEMESTER IV

EC500 Dissertation

LIST OF ELECTIVES

ELECTIVE I

EC510 Advanced Microprocessor & Embedded Systems EC511 VLSI Design EC512 Reliability of Electronics Comm. Systems EC513 Multimedia Comm. Systems EC514 Parallel Processing EC515 Peripheral System Design & Interfacing EC517 Modeling & Simulation of Comm. Systems ELECTIVE II

EC518 Microwave Theory & Technique EC519 Detection & Estimation Theory EC520 Microelectronics Technology EC521 Internetworking & Internet Protocols EC522 RF Microwave & Antenna Theory EC523 Computational Techniques

EC501 Wireless and Mobile Communication

Max. Marks: 100 Time Allowed: 3 Hrs

Note: Eight questions of equal marks to be set covering the whole syllabus and any five to be attempted.

1. Introduction
2. Technical Background, Transmission Fundamentals, Communication Networks, Protocols and TCP/IP Suite
3. 2. Wireless Communication Technology
4. Antennas and Propagation Signal, Encoding Techniques, Spread Spectrum Coding and Error Control
5. 3. Wireless Networking
6. Satellite Communications, Cellular Transmission Principles, Cordless Systems and Wireless Local Loop Mobile IP and Wireless access protocol
7. 4. Wireless LANs
8. Wireless LAN Technology, IEEE 802. 11 Wireless LAN standard.
9. 5. CDMA Standards

M Tech Electronics Design And Technology Syllabus

Terry C. Jones



M Tech Electronics Design And Technology Syllabus:

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