

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

Wenbin Ji



M Tech Electronics Design And Technology Syllabus:

Basic Electronics Rakesh Kumar Garg, Ashish Dixit, Pavan Yadav, 2008 *Basic Concepts in Digital Electronics and Logic Design* Er Jawad Ahmad Dar, 2017-10-08 This book on Basic Concepts in Digital Electronics and Logic Design has been specially written to meet the requirements of the Diploma Tech M Tech students and research scholar of all Indian universities The subject matter has been discussed in such a simple way that the students will find no difficulty to understand it This Book has been designed to understand the Basic Concepts in Digital Electronics and Logic Design to let students to understand the core concepts with examples The objective of the book are to provide a clear explanation of the operations of all logic devices in general use on today and to impart knowledge of digital electronics The text has been written in a style to enable students to self study The text of the book is simple and lucid Solved examples are provided throughout the book to assist the students to assimilate the material covered Highlights are given at the end of almost each chapter

Microelectronics and Optoelectronics Technology Saradindu Panda, 2009 *Digital Principles and Logic Design Techniques* Arijit Saha, Nilotpal Manna, 2007 **Business World** , 2005 **Electronics and Information Technology Annual Report** India. Department of Electronics and Information Technology, 2011 **Analog Electronics** Balwinder Singh, Ashish Dixit, 2007 India Today , 2008 **Enterprise Electronics & Mobile Commerce** V.K. Jain & Hemlata, 2001

Handbook of Universities Ashish Kumar, 2006 The Most Authentic Source Of Information On Higher Education In India The Handbook Of Universities Deemed Universities Colleges Private Universities And Prominent Educational Research Institutions Provides Much Needed Information On Degree And Diploma Awarding Universities And Institutions Of National Importance That Impart General Technical And Professional Education In India Although Another Directory Of Similar Nature Is Available In The Market The Distinct Feature Of The Present Handbook That Makes It One Of Its Kind Is That It Also Includes Entries And Details Of The Private Universities Functioning Across The Country In This Handbook The Universities Have Been Listed In An Alphabetical Order This Facilitates Easy Location Of Their Names In Addition To The Brief History Of These Universities The Present Handbook Provides The Names Of Their Vice Chancellor Professors And Readers As Well As Their Faculties And Departments It Also Acquaints The Readers With The Various Courses Of Studies Offered By Each University It Is Hoped That The Handbook In Its Present Form Will Prove Immensely Helpful To The Aspiring Students In Choosing The Best Educational Institution For Their Career Enhancement In Addition It Will Also Prove Very Useful For The Publishers In Mailing Their Publicity Materials Even The Suppliers Of Equipment And Services Required By These Educational Institutions Will Find It Highly Valuable The Andhra Pradesh Gazette Andhra Pradesh (India), 1960

Instrument Practice , 1967 **Electrical & Electronics Abstracts** , 1997 Directory of Engineering Education Institutions Unesco, 1981 Educom Review , 1995 Computing and communications in colleges and universities

Southern Economist , 2003 *Who's who in Technology* Louann Chaudier, 1986 *The Engineering Designer* , 1971

CME ,1974

ASEE ... Profiles of Engineering & Engineering Technology Colleges ,1998

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