

ST.ANN'S COLLEGE OF ENGINEERING & TECHNOLOGY :CHIRALA
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Subject:Data Communication

Academic Year:2017-18

Branch:CSE

Year & Sem: III/I

Sec : C

Faculty Name: B P V SUBBARAO

No. of Lectures per Week: 4+1* (Tutorial)

| S.NO | DATE | UNIT | TOPIC |
|------|------------|------------|---|
| 1 | 12-06-2017 | UNIT-1 | INTRODUCTION TO DATA COMMUNICATIONS AND NETWORKING |
| 2 | 13-06-2017 | | Standards Organizations for DataCommunications, |
| 3 | 14-06-2017 | | Layered Network Architecture |
| 4 | 15-06-2017 | | Open Systems Interconnection |
| 5 | 17-06-2017 | | Data Communications Circuits,erial and parallel Data Transmissions |
| 6 | 19-06-2017 | | Data communications Networks, Alternate Protocol Suites |
| 7 | 20-06-2017 | | Tutorial |
| 8 | 21-06-2017 | | Signal Analysis, Electrical Noise and Signal-to-Noise Ratio, |
| 9 | 22-06-2017 | | Analog Modulation Systems,Information Capacity, |
| 10 | 24-06-2017 | | Bits, Bit Rate, Baud, and M-ary Encoding |
| 11 | 27-06-2017 | | Tutorial |
| 12 | 28-06-2017 | | Digital Modulation |
| 13 | 29-06-2017 | | PPT on Unit-1 |
| 14 | 01-07-2017 | | sliptest-1 |
| 15 | 03-07-2017 | UNIT-2 | Transverse Electromagnetic Waves, Characteristics of Electromagnetic Waves |
| 16 | 04-07-2017 | | Tutorial |
| 17 | 05-07-2017 | | Advantages of Optical Fiber cables, Disadvantages of Optical Fiber Cables |
| 18 | 06-07-2017 | | Electromagnetic spectrum, Optical Fiber Communications System Block Diagram, Optical Fiber construction |
| 19 | 10-07-2017 | | Propagation of Light Through an Optical fiber Cable, |
| 20 | 11-07-2017 | | Tutorial |
| 21 | 12-07-2017 | | Optical Fiber Modes and Classifications |
| 22 | 13-07-2017 | | Optical Fiber Comparison,Losses in Optical Fiber Cables |
| 23 | 15-07-2017 | | Light sources, Light Detectors |
| 24 | 17-07-2017 | | Lasers |
| 25 | 18-07-2017 | | Tutorial |
| 26 | 19-07-2017 | SLIPTEST-2 | |
| 27 | 20-07-2017 | UNIT-3 | Pulse Modulation,Pulse code Modulation |
| 28 | 22-07-2017 | | Dynamic Range, Signal Voltage –to-Quantization Noise Voltage Ratio |
| 29 | 24-07-2017 | | Linear Versus Nonlinear PCM Codes,.,Companding |
| 30 | 25-07-2017 | | Tutorial |
| 31 | 26-07-2017 | | PCM Line Speed, Delta Modulation PCM and Differential PCM |
| 32 | 27-07-2017 | | Time- Division Multiplexing, |
| 33 | 29-07-2017 | | Digital Line Encoding |
| 34 | 31-07-2017 | | T Carrier systems Frequency- Division Multiplexing |
| 35 | 01-08-2017 | | Tutorial |
| 36 | 02-08-2017 | | Wavelength- Division Multiplexing, |
| 37 | 03-08-2017 | | SynchronousOptical Network |
| 38 | 05-08-2017 | | T1 Digital Carrier System |
| 39 | 07-08-2017 | | Mid-1 |
| 40 | 08-08-2017 | | Mid-1 |
| 41 | 09-08-2017 | | Mid-1 |
| 42 | 10-08-2017 | | Mid-1 |
| 43 | 12-08-2017 | | Mid-1 |

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| 44 | 16-08-2017 | UNIT-4 | WIRELESS COMMUNICATIONS SYSTEMS |
| 45 | 17-08-2017 | | Electromagnetic Polarization |
| 46 | 19-08-2017 | | Electromagnetic Radiation |
| 47 | 21-08-2017 | | Optical Properties of Radio Waves |
| 48 | 22-08-2017 | | Tutorial |
| 49 | 23-08-2017 | | Terrestrial Propagation of Electromagnetic Waves, |
| 50 | 24-08-2017 | | Satellite Communications Systems |
| 51 | 28-08-2017 | | Skip Distance,Free-Space Path Loss |
| 52 | 29-08-2017 | | Tutorial |
| 53 | 30-08-2017 | | Microwave Communications Systems |
| 54 | 31-08-2017 | | PPT on unit-4 |
| 55 | 04-09-2017 | | slip test-4 |
| 56 | 05-09-2017 | UNIT-5 | Tutorial |
| 57 | 06-09-2017 | | The Subscriber Loop, Standard Telephone Set, Basic Telephone Call Procedures |
| 58 | 07-09-2017 | | Call Progress Tones and Signals, Cordless Telephones |
| 59 | 09-09-2017 | | Caller ID, Electronic Telephones, Paging systems |
| 60 | 11-09-2017 | | First- Generation Analog Cellular Telephone, Personal Communications system |
| 61 | 12-09-2017 | | Tutorial |
| 62 | 13-09-2017 | | Second-Generation Cellular Telephone Systems, N-AMPS |
| 63 | 14-09-2017 | | Digital Cellular Telephone, |
| 64 | 16-09-2017 | | Global system for Mobile Communications |
| 65 | 18-09-2017 | | Interim Standard-95 |
| 66 | 19-09-2017 | | Tutorial |
| 67 | 20-09-2017 | | sliptest-5 |
| 68 | 21-09-2017 | UNIT-6 | Data Communications Character Codes,Bar Codes, Error Control |
| 69 | 23-09-2017 | | Error Detection and Correction Character Synchronization |
| 70 | 25-09-2017 | | Digital Service Unit and Channel Service Unit |
| 71 | 26-09-2017 | | Tutorial |
| 72 | 27-09-2017 | | Voice- Band Data Communication Modems, Bell Systems-Compatible voice- Band Modems |
| 73 | 03-10-2017 | | Voice- Band Modem Block Diagram,Voice- Band Modem Classifications |
| 74 | 04-10-2017 | | Asynchronous Voice-Band Modems, Synchronous Voice-Band Modems |
| 75 | 05-10-2017 | | Modem Synchronization, 56K ModemsModem Control: |
| 76 | 07-10-2017 | | The AT Command Set, Cable Modems |
| 77 | 09-10-2017 | | Mid-II |
| 78 | 10-10-2017 | Mid-II | |
| 79 | 11-10-2017 | Mid-II | |
| 80 | 12-10-2017 | Mid-II | |
| 81 | 14-10-2017 | Mid-II | |

TEXT BOOKS:

1. Introduction to Data Communications and Networking, Wayne Tomasi, Pearson Education

Reference Books :

1. Data Communications and Networking, Behrouz A Forouzan, Fourth Edition. TMH.
2. Data and Computer communications, 8/e, William Stallings, PHI.
3. Computer Communications and Networking Technologies, Gallow, Second Edition Thomson
4. Computer Networking and Internet, Fred Halsll, Lingana Gouda Kulkarni, Fifth Edition, Pearson Education

Faculty member

Head of the Department

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| total | 83 |
| classes | 52 |
| tutorial | 13 |
| mid | 10 |
| slip test | 4 |
| ppt | 2 |
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