Department of Electronics and Communication Engineering

Advance Communication Lab

Telecommunication Network lab course runs in this lab for 3rd year students who works on NS-2 software. This lab covers a set of advanced topics in computer networks. The focus is on principles, architectures, and protocols used in modern networked systems. The goals of this course is to build basic networking and understanding of the trade offs and existing technology in building large, complex networked systems, and provide concrete experience of the challenges through a series of lab exercises. In this lab .This lab implements a soft real-time scheduler which ties event execution within the simulator to real time. This lab is also very important for research purpose using NAM Animator, Topology generation for large simulation and scenario generation in ns.

Major Equipments:

Advanced level Measuring Instruments-Multiple Power Supply-02 , 1 Gz.Spectrum Analyzer, Digital Storage Oscilloscope-06, Function Generator-02, Digital Multimeter-02, E4402 Spectrum Analyser-01,E4438 Vector signal Generator-01, 8648A Signal Generator 1 GHz, Digital Storage Oscilloscope 200MHZ, 4-CH-02 ,RF Spectrum Analyser N9320B,DC Power SupplyE3631A -02 , Digital Multimeter Model 34405A-02

Various Experimental Kits :

1. Microwave Integrated circuit kit(2-3 GHz) with 8 microchip components & accessories.
2. Advance Micro strip Trainer Kit with Accessories.
3. Microwave bench klystron based microwave bench Gunn diode based.
4. LAN Trainer kit-01
5. Optical Fiber trainer kit-02.
6. TMS 320C6713 DSK with CCS -02 Image Daughter Card for 6713 DSK -02 Development kit 8500D based on DM 3730 with 4.3 LCD, Analog camera Module, Digital Camera Module, WCDMA, XDS100V2.
7. E. V. Mobile comm.Trainer -01.
8. Satcomm - 02, Basic Satellite Communication Training System -1
9. CDMA Comm. Trainer Antenna Training System Model: ATS-2001.
10. GSM kit-01
11. PDLA kit-01.

Computers

PC's – 14 HP

Major Software

NS-2 open source, ADS Software (5 user),