





GEO TAGGED PHOTOS OF LABORATORIES OF ELECTRONICS AND COMMUNICATION ENGINEERING DEPARTMENT



Est. 2003





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GEOTAGGED PHOTOS OF ELECTRONICS & COMMUNICATION ENGINEERING LABORATARIES

1. ELECTRONICS ENGINEERING WORKSHOP & ANALOG ELECTRONICS LAB

Electronics Engineering Workshop provides the study and testing of various Electronic Components and Instruments required for analysis of Electronic Circuits. Instruments include CRO, Function Generator, Multimeter, Power supply etc. The lab also provides experience in implementation of analog circuits using discrete electronic components.

The Analog Circuits and Simulation Lab helps to understand the working of various Analog circuits. The lab also facilitates in designing and implementing Electronic circuits. The lab also enables to analyze and interpret the characteristics of various components and devices.



Fig.1 Entrance of Electronics workshop & Analog Electronics Lab

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Fig.1 Electronics workshop & Analog Electronics Lab

2. SCIENTIFIC COMPUTING LABORATORY & DIGITAL SIGNAL PROCESSING LAB

The Scientific Computing lab is a technical computing environment for highperformance numeric computation and visualization using MATLAB. The course will utilize the MATLAB environment to provide students with a working knowledge of computer-based problem-solving methods relevant to science and engineering, including programming and numerical analysis techniques.

Digital Signal Processing lab helps to develop skills to use modern engineering tools such as Matlab. The lab facilitates the design and simulation of digital filters, and also analysis and interpretation of data. The lab provides ability to do projects in the area of Signal processing such as filter design, data compression techniques etc.



Fig.3 Entrance of DSP Lab & Scientific Computing Lab

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Fig.3 DSP Lab & Scientific Computing Lab

3. ANALOG INTEGRATED CIRCUITS AND SIMULATION LABORATORY



Fig.3 Entrance of AIC Lab & Analog Circuits and Simulation Lab

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Fig.3 AIC Lab & Analog Circuits and Simulation Lab

Analog Circuits Lab enables to design and demonstrate functioning of various analog circuits. The lab provides the students with a knowledge of variety of practical circuits using Op-amp. Various applications of Op-amp can be studied and analyzed.



4. LOGIC DESIGN LABORATORY

Fig.4 Entrance of Logic System LAB/Digital Lab

Logic circuit design lab provides basic knowledge about the working of various Digital Logic gates and circuits. Digital circuits can be implemented and outputs can be

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Fig.5 Logic System LAB/Digital Lab



5. COMMUNICATION SYSTEMS LAB/COMMUNICATION LAB

Fig.6 Entrance of Communication systems Lab/Communication Lab

Communication lab helps to understand the basic concepts of circuits used in communication systems. The lab provides experience on design, testing and analysis of electronic circuits used in Communication Engineering. The lab also helps to study the Analog and Digital Communication techniques performed on signals.

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6. MICROCONTROLLER LABORATORY

The Microprocessor lab provides the understanding of fundamental programming concepts of Microprocessor and ability to perform various arithmetic and logical operations. The Microcontroller lab enables to learn the programming concepts of microcontrollers. The lab facilitates the interfacing of various peripheral devices with Microprocessor and Microcontroller. The lab provides ability to design a microcontroller based system with the help of the interfacing devices. In this lab programming skills can be enhanced and this can be used to develop more powerful codes for solving problems.



Fig.7 Entrance of Microcontroller Lab



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7. ELECTROMAGNETICS LAB

Electromagnetics Lab provides the understanding of the basics of Microwave and Optical Engineering. This Lab also helps in identifying the various types of bench set up for measuring Microwave parameters such as frequency, impedance, power etc. Also characteristics of various Microwave and Optical components can be verified.



Fig.9 Electromagnetics Lab



Fig.10 Electromagnetics Lab

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