



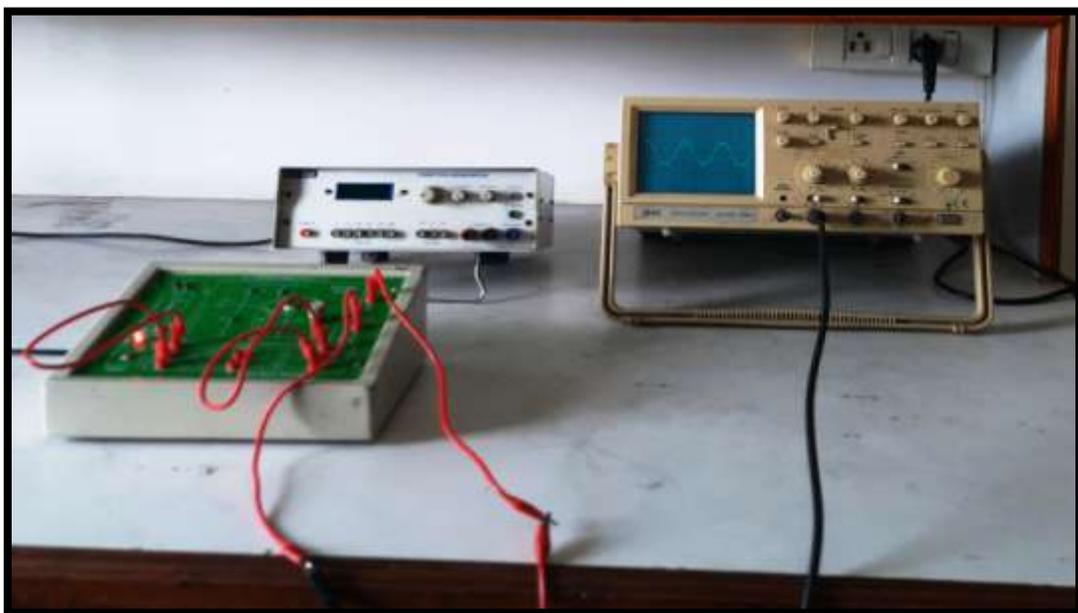
DSP&BS LAB

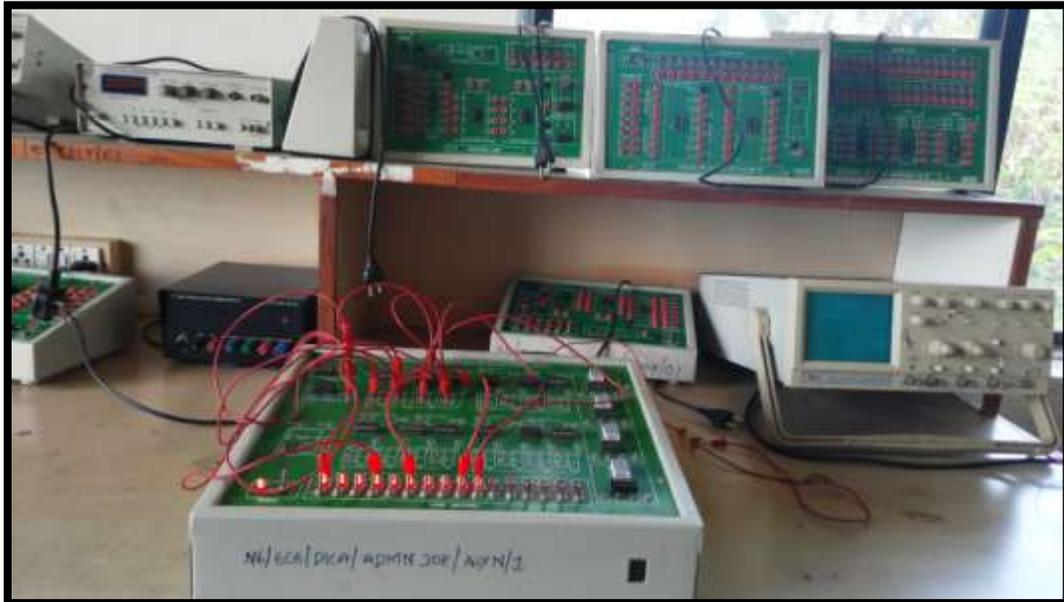


EDC & ECA LAB



IC & PDC LAB-







EDC (Electronic Devices and Circuits)

OBJECTIVE:

The objective of this laboratory is to understand the concepts, working and characteristics of Different Diodes, BJT and FET Transistors, amplifiers and compensation techniques of transistors.

MAIN EQUIPMENTS

- CRO,
- Function Generators,
- Regulated Power Supply ,
- Transistor And Resistors
- ,Breadboard

DSD(Digital System Design)

OBJECTIVE:

The objective of this laboratory is to understand the concepts, working of combinational circuits by using LOGIC GATES, sequential circuits by using FLIPFLOPS

MAIN EQUIPMENTS

- Different types of Integrated Circuits
- Digital Trainer Kits
- CRO

SS (Signal and Systems)

OBJECTIVE:

This laboratory manual contains laboratory exercises based on MATLAB and Simulink.* The purpose of these exercises is to help reconcile the declarative (what is) and imperative (how to) points of view on signals and systems

MAIN EQUIPMENTS

- COMPUTERS AND
- MATLAB SOFTWARE

ECA (Electronic Circuit Analysis)

OBJECTIVE:

The objective of this laboratory is to measure the important parameters of a PN diode and to implement for various Applications. To Design and construct different rectifier and voltage regulation circuits used in regulated Power supplies ,to design and verify the output of linear wave shaping circuits for different inputs and analyze different multivibrator circuits

MAIN EQUIPMENTS

- Bread Boards
- Analogue Discovery Kits 0-10mhz
- CRO
- Function Generators,
- Regulated Power Supply ,
- Transistor And Resistors
- Multi-Meters
- Multisim Licensed Software

LICA(Linear Integrated Circuit Analysis)

OBJECTIVE:

The objective of this laboratory is to measure the OP AMP applications,waveform generators,555 timers,PLL ,and voltage regulators

MAIN EQUIPMENTS

- CRO,
- Function Generators,
- Regulated Power Supply ,
- Transistor
- Resistors
- Trainer Kits
- Ics

ADC(Analog and Digital Communications)

OBJECTIVE:

The objective of this laboratory is to measure transmission by using different modulation techniques hardware kits (PSK,ASK,PAM,FM) It involves system design and simulation exercises using MATLAB and Simulink .

MAIN EQUIPMENTS

- COMPUTER SYSTEMS
- AC TRAINER KITS (AM,PM,PAM,PWM,PPM)
- Multimeters
- Matlab Licensed Software
- Spectrum Analyzer ,Cro,
- Function Generators,
- Regulated Power Supply,
- Trainer Kits,

MPMC (Micro Processor and Micro Controllers)

OBJECTIVE:

The objective of this laboratory is to Introduce ALP concepts and features ,To Write ALP for arithmetic and logical operations in 8086 and 8051 ,differentiate serial and parallel interface ,to interface different i/os with microprocessors

MAIN EQUIPMENTS

- Computers (35) and
- Software(MASM /KEIL)

DSP(Digital Signal Processing)

OBJECTIVE:

The laboratory has both software tools and DSP processors- both fixed point and floating point. Students simulate here number of experiments in MATLAB. The students are able to perform real-time analysis of signals and get hands-on experience about the theory they have learned in the class.

MAIN EQUIPMENTS

- Computers
- Software- Licensed MATLAB software with various Tool boxes
- Simulink
- DSP Processor Kits TMS320C6713
- Function Generators 0-1MHz

MWE(MicroWave Engineering)**OBJECTIVE:**

This laboratory experience is to learn how to use microwave test equipment to make measurements of power, frequency, S parameters, SWR, return loss, and insertion loss. Scattering parameters of microwave components are defined and used to characterize devices and system behavior. The students will have an understanding of the concepts involved in transmission and reception of the microwave signals, characteristics of components

MAIN EQUIPMENTS

- Bench Setup
- Vswr
- Klystron Mount
- Isolator Variable
- Attenuator
- Slotted Section
- Tunable Probe
- Gunn Power Supply
- Magic Tee
- E-Plane,
- H-Plane Sectorial Gunn Oscillator

VLSI (Very large scale Integration)**OBJECTIVE:**

_ This laboratory for applied research related to various aspects of integrated circuits.

MAIN EQUIPMENTS

- Computers
- Xilinx software