

Laboratories

The department of Electronics & Communication is having well developed laboratories with the state of art equipment. These are the various laboratories:-

Electronics Circuit Lab

The lab provides practical knowledge to design and analyze basic electronic circuits. It consists of various training kits such as Single/two stage R.C coupled Amp, Emitter follower, Op-amp application Trainer, Basic logic gate Trainer Kit, Diac/Triac characteristic kit, Function generator 3Mhz, CRO 30Mhz, Power supply, Push pull amp Trainer Kit.



CAD of Electronics Lab

This lab provides different synthesis & simulation tools for designing of different electronics circuits. It has softwares like Multi sim 7.1, Multi sim 9.1, Active HDL 6.1, MATLAB,



Printed Circuit Board Lab

PCB Lab is equipped with various instruments which are required for the PCB designing such as Drill machine, Coil winding machine, Testing unit board, Iron stand, Hammer, DE soldering pump.



Microprocessor Lab

Microprocessor Lab is equipped with microprocessor training boards, has training kits of 8085 & 8086 Microprocessors, Peripheral Devices such as 8257 (DMA Controller), 8255 (Programmable Peripheral Interface), 8279, Elevator simulator interface card, Stepper motor.



Electronic Measurement & Instrument Lab

EMI lab consist of equipment like LVDT Trainer, Kelvin's double bridge, MaxWell bridge, Strain gauge Trainer, Universal impedance bridge.



Digital Electronics Lab

Digital Electronics lab is fully equipped with the instruments such as CRO, Multi-meters, Signal generators, Digital Trainer Kit: TTL/CMOS compatible logic level input, Logic HIGH & logic LOW displayed by dual color LEDs.



Communication Lab

The lab bridges the gap between engineering theory and practice through visualization, experimental application and the use of a block diagram approach to Communication System components. It consists of equipments like PAM, PPM, DSB/SSB,DSBSC/SSBSC,TDM, ASK/PSK modulator and demodulator.



Microwave Engineering Lab

Microwave Lab consist of following equipments such as Microwave Benches (X-Band, Ku-Band),Microwave test benches Klystron based and various Microwave components, Spectrum Analyzer , Microwave Circuit Design tools MATLAB.



Project lab

It incorporates Express PCB, Multi Simulator, AVR tool kit, 8051 emulators etc. This provides practical knowledge to design and develop printed circuit boards based on in-depth knowledge, during course of study acquired by student in study. They have to design various modules of prototype, software to implement and solve real world problems in the industry or organization.



e-Yantra lab

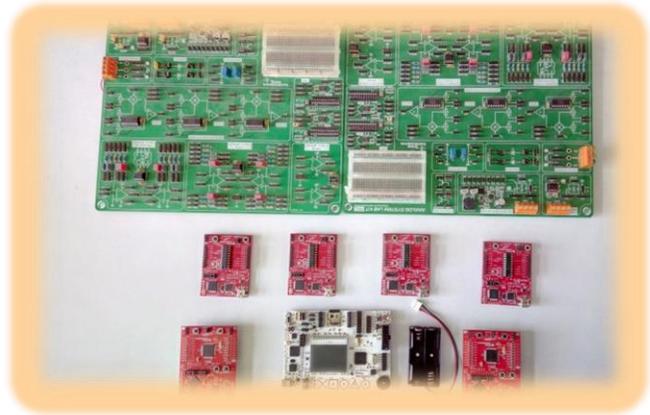
e-Yantra is a project by IIT Bombay to spread education in Embedded systems and Robotics. This project has been sponsored by Ministry of Human Resource Development (MHRD) through the National Mission on Education through ICT (NMEICT).

Several equipments are provided by IITB such as Fire Bird V ATMEGA 2560 (AVR), Fire Bird V P89V51RD2 (8051), Fire Bird V LPC2148 (ARM7 TDMI), Fire Bird V Microcontroller Adapter Boards, RASPBERRY PI, MODEL B, 512 MB, Metal-gear Servo Motor, Maxbotix ultrasonic range sensor, Robotic Arm.



Texas Instruments Lab

Texas instrumentation Lab is set with the collaboration of Texas Instruments. It has equipment like MSP 430 , LaunchPad MSP430G2452, ASLKPRO KIT.



MediaTek Research Lab

The Lab was inaugurated in February 2018 and is not the part of University Curriculum , the lab has been incorporated so that the students can act on their ideas before they expire.

The lab is equipped with various state of art components & equipments and developments boards (Raspberry pi, Arduino etc), sensors, motors and various electronic components.



The main objective of the lab is to promote Research & Development and innovation among the students, help them get hands on experience of the latest technologies and to bridge the Industry Academia gap.

