

BASIC ELECTRONICS LAB

This lab is a core course in the teaching scheme of all engineering streams in UG level. The objective of the lab is familiarization with electronic components and equipments, to validate and verify the characteristics of various electronic devices and to implementation of electronic circuits using different electronic components.



<i>OIC Name: Dr. Krishan Kumar</i>	
<i>Technical Assistant: Dr Ashok Kumar</i>	
Equipment Details	
Hardware	Qty
AC milli volt meter	10+4
Component development system	6
Coil winding machine	1
Decade resistance box	2
Digital multimeter with data logger	2

Digital multimeter	5
Electronics components storage steel racks	2
Portable moving coil DC micro amp meter(0-50uA)	1
Portable moving coil DC micro amp meter(0-100uA)	1
Portable moving coil DC micro amp meter(0-250uA)	3
Portable moving coil DC micro amp meter(0-500uA)	3
Portable moving coil DC micro amp meter(0-100mAmp)	2
Portable moving coil DC micro amp meter(0-250mAmp)	3
Portable moving coil DC micro amp meter(0-500mAmp)	2
Portable moving coil DC milli Volt meter(0-25)	3
Portable moving coil DC milli Volt meter(0-100)	3
Portable moving coil DC milli Volt meter(0-250)	3
Portable moving coil DC milli Volt meter(0-500)	2
Portable moving coil DC Volt meter(0-1V)	10
Portable moving coil DC Volt meter(0-10V)	3+10
Portable moving coil DC Amp meter(0-1Amp)	5
Portable moving coil DC Amp meter(0-10Amp)	5
Round single & double tube open rheostate	17
Servo automatic voltage stabilizer(voltage controlled)	2
Two stage RC coupled transistor amplifier	1
Variac / Auto transformer	6
Power supply (0-15DC bench) or Transistor power supply	2
Multi-output power supply(0-30V/2Amp 5V,+15V 5Amp) Aplab	1
Portable moving coil DC Volt meter(0-1V & 0-10V)	5+4
Portable moving coil DC milli Amp meter(0-25)	13
Portable moving coil DC milli Amp meter(0-10)	25
Portable moving coil DC micro Amp meter(0-500uAmp)	25
Portable moving coil DC Volt meter(0-10V)	25
Portable moving coil DC Volt meter(0-1V)	14
Portable moving coil DC Volt meter(0-20V)	10
General electronics tool kit	2
Desktop multimeter (Analog type)	10
Digital multimeter (hand held)	10
Solderless bread board	10
Temperature controlled soldering station	1

Portable moving coil DC milli Amp meter(0-25) Make meco	24
Portable moving coil DC milli Amp meter(0-50) make meco	49
Analog DC voltmeter (0-1V)	50
Analog DC voltmeter (0-10V)	50
Analog DC voltmeter (0-20V)	50
Analog DC ammeter (0-25mA)	50
Analog DC ammeter (0-50mA)	50
Analog DC micro-ammeter (0-500uA)	50
Component development system (Bread Board)	20
Analog IC tester	3
Arbitrary function generator 25Mhz	2
CRO Digital Storage Oscilloscope	7+6
Digital IC Tester	3
Desktop digital multimeter (true rms) bench type	3+3
Desoldering Station	1
Frequency counter	2
Function Generator	4+3
Power supply dual output regulated (DC 0-30 volt)	4+5
Soldering Station	2
Component development system	3
Component development system	5
Model AB 04 CE Amplifier	5
Model AB02 CB Amplifier	5
Model AB06 CC Amplifier	5
Model AB08 FET Amplifier	5
Model AB-18 RC coupled Amplifier	5
AB-66 Wein bridge oscillator	5
AB-67 Collpitt Oscillator	5