

BS (4 Years) for Affiliated Colleges



Code	Subject Title	Cr. Hrs	Semester
PHY-432	ADVANCED ELECTRONICS-IV (LAB)	3	VIII
Year	Discipline		
4	Physics		

Course Outlines:

1. Synchronous and asynchronous BCD counters, Memory shift register with IC's.
2. Frequency counter and optional digital clock.
3. Circuit study and fault finding of stabilized power supply, Audio-oscillator/ CRO, multimeter/commercial radio and T.V.
4. Design and construct an analog to digital and digital to analog converters using IC's.
5. Design and study of decoder, encoder, multiplexer and demultiplexer circuits and compare the input output waveforms.
6. To construct and understand an operation of arithmetic logic unit and study of different arithmetic logic operations.
7. To construct and study of data storage and retrieval using semiconductor memory and understand the process of fetching an instruction and its operand with ALU.
8. Using microprocessor trainer's and study of microprocessor application working from host personal computer.