BS (4 Years) for Affiliated Colleges



Code	Subject Title	Cr. Hrs	Semester
PHY-412	ADVANCED ELECTRONICS-II (LAB)	3	VII
Year	Discipline		
4	Physics		

Course Outlines:

- 1. Design of a UJT relaxation oscillator of a variable frequency, measure frequency and amplitude of the output.
- 2. Design RF transistor oscillator, Convert it into a transmitter detect the transmitted wave by a radio receiver (both for AM & FM).
- 3. Design an inverting and non-investing D.C. amplifier, measurement of parameters of a given IC operational amplifier.
- 4. Design and study the application of operational amplifier (current to voltage converter, Instrumentation amplifier, buffer, voltage clamp, integrator, differentiator, low and high pass filter, half—wave rectifier etc.).
- 5. Design a fixed and self bias transistor binary and triggering of binary, using IC's construct and study RS, JK (Master slave), T and D flip-flops.
- 6. Design and study of a half and full adder with different Boolean expression using IC's.