Pulse & Digital Circuits

Year & Semester : II-II

Lab In charge

Mr. C. V. Subhaskara Reddy,
M. Tech

Assistant Professor,

E.C.E Department.

Lab Technician

Mr. P.Raghuramaiah

M.Sc (Electronics)

E.C.E Department.

Course Objectives:

1. To generate Different types of non-sinusoidal signals.
2. To generate and processing of non-sinusoidal signals.
3. To learn about Limiting and storage circuits and their applications.
4. To learn about Different synchronization techniques, basics of different sampling gates and their uses.
5. To obtain Basics of digital logic families.

Course Outcomes:

1. Students understands the various design and analysis to generate various types of signals.
2. Student can design various digital circuits based on the application and specifications

List of Experiments:

1. Liner wave shaping.
2. Non Linear wave shaping-Clippers.
3. Non Liner wave shaping-Clamper's.
4. Transistor as a switch.
5. Study of Logic Gates & Some applications.
6. Study of Flip-Flops & Some applications.
7. Sampling Gates.
8. Astable Multivibrator.
9. Monostable Multivibrator.
10. Bistable Multivibrator.
11. Schmitt Trigger.
12. UJT Relaxation Oscillator.
13. Bootstrap sweep circuit.
14. Constant Current Sweep Generator using BJT.

Note: For Laboratory Examination-Minimum Twelve experiments to be conducted.

Equipment Required for Laboratory:

1. Regulated Power Supplies.
2. Analog/Digital Storage Oscilloscopes.
3. Analog/Digital Function Generators.
4. Digital Multi-meters.
5. Active & Passive Electronic Components.