II Year II Semester

Code: 17EC413

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PULSE AND DIGITAL CIRCUITS LAB

List of Experiments:

- 1. Linear wave shaping.
- 2. Non Linear wave shaping Clippers.
- 3. Non Linear wave shaping Clampers.
- 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.

Equipment required for Laboratory:

- 1. RPS 0 30 V
- 2. CRO 0 20 M Hz.
- 3. Function Generators 0 1 M Hz
- 4. Components
- 5. Multi Meters

Lab Outcomes:

- 1. Comprehend the basic concepts of linear and non linear wave shaping circuits.
- 2. Analyze the working principles of clippers and clappers
- 3. Describe and compare the Bi-stable, Mono-stable and Astable circuits and its applications
- 4. Design various multi vibrators from the given constraints.
- 5. Verify the truth tables of Logic Gates.
- 6. Implement the application of logic gates and flip flops.