

# PULSE AND DIGITAL CIRCUITS LAB

**II B-Tech-II Semester**

**Course Code: A3EC15**

**L T P C**

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## **Course Objectives:**

1. To study various wave shaping circuits.
2. To generate various non-sinusoidal waveforms.
3. To understand functionality of various logic gates.
4. To study the switching characteristics of electronic devices.

## **Course Outcomes:**

After going through this course the student will be able to

1. Apply the concepts of amplifiers in the design of Public Addressing System
2. Design various Audio frequency Oscillators.
3. Design Amplifier using feedback concepts.
4. Design various applications using amplifier.

## **LIST OF EXPERIMENTS: (Minimum 12 Experiments to be conducted)**

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 and Some applications.
6. Study of Flip-Flops and 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.

PCB Design using ORCAD Software