# Prasad V. Potluri Siddhartha Institute of Technology, Kanuru, Vijayawada.

## Department of ECM

**PVP12** 

## 2/4 B.Tech. FOURTH SEMESTER

# EM4L1PULSE AND DIGITAL CIRCUITS LABCredits: 2

Lab/Practice: 3 periods/week	Internal assessment: 25 marks
	Semester end examination: 50 marks

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#### **Course Objectives:**

• To study characteristics wave shaping, design of multivibrators and Sweep circuits.

### **Course Outcomes:**

The student will be able to

- Understanding the operation of circuits.
- Design the multivibrator and sweep circuits.

List of Experiments: By designing the Circuit

1. Linear wave shaping (Diff. Time Constants, Differentiator, Integrator)

- 2. Non Linear wave shaping Clippers., Clampers
- 3. Logic gates with discrete components (Diodes, Transistors)
- 4. Bistable Multivibrator
- 5. Astable Multivibrator. (Voltage- Frequency convertor)
- 6. Monostable Multivibrator.
- 7. Schmitt Trigger.
- 8. UJT Relaxation Oscillator.
- 9. Bootstrap sweep circuit.
- 10. Sampling Gates