

2K6EC 307(P) BASIC ELECTRONICS LAB

LIST OF EXPERIMENT WITH COURSE OUTCOME

| SL. No | LIST OF EXPERIMENT | COURSE OUTCOME |
|--------|---|----------------|
| 1 | Diode Characteristics | CO1 |
| 2 | Zener Diode Characteristics | CO1 |
| 3 | Clipping Circuits | CO2 |
| 4 | Clamping Circuits | CO2 |
| 5 | Zener Diode Regulator | CO2 |
| 6 | Half Wave Rectifier With And Without Filter | CO2 |
| 7 | Full Wave Rectifier With And Without Filter | CO2 |
| 8 | Transistor CE Characteristics | CO1 |
| 9 | Transistor CB Characteristics | CO1 |
| 10 | UJT Characteristics | CO1 |
| 11 | UJT Relaxation Oscillators | CO2 |
| 12 | RC Low Pass Filter | CO2 |
| 13 | RC High Pass Filter | CO2 |
| 14 | RC Integrator | CO2 |
| 15 | RC Differentiator | CO2 |
| 16 | JFET Characteristics | CO1 |

CO-PO Mapping

| CO | After completing the course the student will be able to | POs |
|-----------|--|---------|
| C307(P).1 | Understand and perform the VI characteristics of diodes, Transistors, UJT and FETs | 1,2,9 |
| C307(P).2 | Design electronics circuits like clipper, clamper, rectifiers, regulators and RC filters | 1,2,3,9 |

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.