

2K6EC507(P) LINEAR INTEGRATED CIRCUITS LAB

LIST OF EXPERIMENT WITH COURSE OUTCOME

SL. NO	LIST OF EXPERIMENT	COURSE OUTCOME
1	Measurement Of Op-Amp Parameters	CO1
2	Basic Operational Amplifier Circuits	CO1
3	Adder And Subtractor Circuit	CO1
4	Differentiator	CO1
5	Integrator	CO1
6	RC Phase Shift Oscillator	CO2
7	Wien Bridge Oscillator	CO2
8	Astable Multivibrator	CO2
9	Monostable Multivibrator	CO2
10	Triangular Wave Generator	CO2
11	Saw Tooth Wave Generator	CO2
12	Precision Half Wave & Full Wave Rectifier	CO2
13	Instrumentation Amplifier	CO2
14	Second Order Low Pass Filter	CO2
15	Second Order High Pass Filter	CO2
16	Notch Filter	CO2
17	Narrow Band Pass Filter	CO2
18	Study Of 555 Timer	CO2
19	Schmitt Trigger	CO2
20	Monostable Multivibrator Using NE/SE 555	CO2
21	Astable Multivibrator Using NE/SE 555	CO2

CO-PO Mapping

CO	After completing the course the student will be able to	PO
C507.1	Understand the concepts of linear integrated circuits. Conduct experiments and show the outputs on CRO.	1,2,3,9
C507.2	Apply knowledge about the Op-amps to design various analog circuits.	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.