



Department of Electronics and Communication Engineering

ELECTRONICS CIRCUIT ANALYSIS LABORATORY

II B.Tech II Semester

Course Code: A224486

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COURSE OUTCOMES:

Upon completing this course, the students will be able to

1. Design power amplifiers and find its efficiency
2. Design tuned amplifiers and find its Q-factor
3. Design various multivibrators and sweep circuits.
4. Understand the Schmitt trigger response for various gain
5. Design the unidirectional bidirectional Sampling gates

Note: Minimum 10 Experiments have to be conducted

1. Design transformer coupled class A power amplifier and draw the input and output waveforms find its efficiency
2. Design class B power amplifier and draw the input and output waveforms, and find its efficiency.
3. Design the complementary symmetry push-pull amplifier and draw the input and output waveforms.
4. Design class C power amplifier and draw the input and output waveforms
5. Design a single tuned amplifier and determine the Q of its tuned circuit practically.
6. Design a Bistable Multivibrator and draw the wave forms at base and collector of transistors.
7. Design an Astable Multivibrator and draw the wave forms at base and collector of transistors.
8. Design a Monostable Multivibrator and draw the input and output waveforms
9. Design and Analyze the operation of Schmitt trigger circuit.
10. Design a Bootstrap sweep circuit using BJT and draw its output time base waveform
11. Design a Miller sweep circuit using BJT and draw its output time base waveform.
12. Design unidirectional and bidirectional sampling gates