Course Number and Name
BEC3L1 - ELECTRONIC DEVICES AND CIRCUITS LAB

Credits and Contact Hours
2 & 45

Course Coordinator’s Name
Ms K.Subbulakshmi

Text Books and References
Lab Manual

Course Description
- To be exposed to the characteristics of basic electronic devices
- Model the electronic circuits using tools such as PSpice

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<th>Prerequisites</th>
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<td>Basic Electrical &amp; Electronics Engineering Lab</td>
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required, elective, or selected elective (as per Table 5-1) required

Course Outcomes (COs)

CO1 : Learn the characteristics of basic electronic devices.

CO2 : Learn the Characteristics of UJT

CO3 : Learn the Characteristics of FET

CO4 : Learn about Power amplifiers.

CO5 : Learn about Differential amplifiers

CO6 : To understand the concepts of simulation by using Spice tool

Student Outcomes (SOs) from Criterion 3 covered by this Course

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List of Topics Covered

LIST OF EXPERIMENTS
1. CE Transistor Characteristics
2. UJT Characteristics
3. FET Characteristics
4. SCR Characteristics
5. Power Supplies
6. Frequency Response of CE, CB and CC Amplifiers with self bias, fixed bias and Collector to Base feedback bias
7. Source Follower with gate resistance, Bootstrapped.
8. Class A and Class B Power amplifiers
9. Differential Amplifiers, CMRR measurements
10. Spice Simulation of Common Emitter and Common Source amplifiers