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

Prerequisites	Co-requisites
Basic Electrical & Electronics Engineering Lab	Nil

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

COs/SOs	a	b	c	d	e	f	g	h	i	j	k
CO1	H			H		M			M	M	
CO2	M		H	H			M				
CO3	M		H	H			M		M	M	
CO4	M			H	H						
CO5	M	L		H							
CO6		H	H	H		H			M		

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