

Course Number and Name											
BEC 402 - ELECTRONIC CIRCUITS											
Course Objectives											
<ul style="list-style-type: none"> • Develop the fundamental knowledge about the need for biasing and its various methods. • Analyze the small signal equivalent circuits and high frequency analysis of Bipolar Junction Transistor and Field Effect Transistor. • Analyze the methods of constructing feedback amplifiers, oscillators and tuned amplifiers. • Outline the performance of wave shaping circuits, multivibrators and time base generators. • Construction of power supplies. 											
Prerequisites						Co-requisites					
BEE301-Circuit theory & BEE101-Basic Electrical & Electronics Engineering.						Nil					
Course Outcomes (COs)											
CO1: Discuss the concepts of various biasing methods for BJT. Analyze the BJT configurations and BJT Amplifiers using small signal model.											
CO2 : To learn about the large signal amplifiers.											
CO3 : To learn about the various feedback amplifier											
CO4 : Understand the basic principles of different types of tuned amplifiers and learn the Neutralization techniques.											
CO5: Describe the operation of multi vibrator circuits, time base generators, and their Applications.											
CO6 : Discuss the working and characteristics of regulated power supply and SMPS.											
Student Outcomes (SOs) from Criterion 3 covered by this Course											
COs/SOs	a	B	c	d	e	f	g	H	i	J	K
CO1	M	M		H		M			M		
CO2	H		H	H			M			M	
CO3	H		H	H			M		M	M	
CO4	M	M	H	H	H						
CO5	M	L		H							
CO6	H	H	H	L					M		