

Course Number and Name												
BEC405 - LINEAR INTEGRATED CIRCUITS												
Course Objectives												
<ul style="list-style-type: none"> To understand the basic concepts of operational amplifier and its various applications. To understand the basics of PLL and its practical applications. To know about analog multipliers. To know about various analog switches and different A/D and D/A convertors. To understand the concepts of switched capacitor filters, Voltage regulator and various amplifiers 												
Prerequisites						Co-requisites						
BEC302-Principle of Digital electronics						BEC402-Electronic Circuits						
Course Outcomes (COs)												
CO1: Learn about the basic concepts for the circuit configuration for the design of linear integrated circuits and develops skill to solve engineering problems												
CO2 : Develop skills to design simple circuits using OP-AMP.												
CO3 : Gain knowledge about various multiplier circuits, modulators and demodulators.												
CO4 : Gain knowledge about PLL.												
CO5: Learn about various techniques to develop A/D and D/A convertors.												
CO6 : Develop skills to develop simple filter circuits and various amplifiers and can solve problems related to it.												
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				M						
CO2	M			H	M				M			
CO3	M	M	M		M							
CO4	M						M					
CO5		L		M	L		M		M	M		
CO6	M		M			H						