

Course Number and Name											
BEC302 - PRINCIPLES OF DIGITAL ELECTRONICS											
Course Objectives											
<ul style="list-style-type: none">To manipulate across various number system and to compute binary arithmetic operations.To Understand the design of combinational and sequential circuits using gates.To Know the concept of memories and programmable logic devicesTo learn the design of asynchronous and synchronous sequential circuits.											
Prerequisites						Co-requisites					
BEE101-Basic Electrical & Electronics Engineering						NIL					
Course Outcomes (COs)											
CO1- Recall the different number systems and demonstrate the simplification of Boolean expressions using Boolean algebra & K-Map method.											
CO2- Analyze the Combinational building blocks											
CO3- Analyze the sequential building blocks.											
CO4- Develop a state diagram and simplify the given sequential logic											
CO5- To illustrate the concept of synchronous sequential circuits											
CO6- To illustrate the concept of asynchronous sequential circuits											
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	H		H	L	M			M	
CO2	M	M	H	M	H		M				
CO3	H	H	H								
CO4	H										
CO5	M	M	H	M	H		M			M	
CO6	H	H	H	M	H					M	