	BASIC ELECTRONICS		
Subject Code	19EC17/27	CIE	50
No. of Hours/Week	4	SEE	50
Total No. of Lecture Hou	urs 42	SEE Hours	03
_	CREDITS: 4		
Modules		Teaching Hours	Revised Bloom's Taxonomy Level
	Module -1		
conduction through semicondu	sulator, conductor, semiconductor their property. Ictor, types of semiconductor : intrinsic, p, n. P-N I junction Forward and Reverse bias, load line. filter gener regulator	9 Hours	L1, L2,L3
Application of Dioue, rectilers,	Module -2	<i>y</i> 110410	<i>D1, D2,D</i> 0
(voltage divider biasing) ,CB ,C	put characteristics, dc load-line and biasing CC,CE configuration , transistor as an amplifier, of feedback, oscillator, Hartley, crystal oscillator,		
RC phase shift oscillator.		9 Hours	L1, L2,L3
Ideal on-amn characteristics	Module -3 pplication of op-amp, inverting, non inverting,		
	amplifier, Differentiator, integrator.	8 Hours	L1, L2,L3
	Module -4		
representation of negative num	sentation, Sign magnitude representation, bers. Binary addition and subtraction using 2's ic gates , universal and Ex-OR, Ex-NOR gates.	8 Hours	L1,L2,L3
	Module -5		
	or, memory and their types, CPU, I/O Buses, ure, instruction set and addressing modes.	8 Hours	L1, L2,L3
	ng this course, students will be able to: semiconductor and diode applications.		
CO2 Analyze transistor opera	tion and its applications.		
CO3 Analyze Operational amp	plifier operation and its applications.		
CO4 Perform arithmetic and logic operations.			
CO4 Perform arithmetic and a	logic operations.		
CO4 Perform arithmetic and 1CO5 Analyze working of micro			
CO5 Analyze working of micro Question paper pattern: The question paper will have te Each full question consists of 2 There will be 2 full questions (w Each full question will have sub	oprocessor of 8085. n questions.	nodule.	
CO5 Analyze working of micro Question paper pattern: The question paper will have te Each full question consists of 2 There will be 2 full questions (w Each full question will have sub module. The students will have	oprocessor of 8085. n questions. Omarks. rith a maximum of four sub questions) from each n o questions covering all the topics under a to answer 5 full questions, selecting one full	nodule.	