

**LECTURE PLAN**

	<b>Sub:- EEE</b>	<b>Semester</b>	<b>II</b>
	<b>Code: EC101C</b>	<b>Faculty Name: Sunil Jadav</b>	
	<b>JAN- MAY 2018</b>		
<b>Course Objective:</b>	<b>Fundamental knowledge in the field of electronics will be provided in this course by emphasizing on the basic components and circuits like the diodes, BJTs, JFETS, MOSFETS etc. Such different types of circuitry components/circuits and their applications are introduced so as to complete the theoretical and practical basis on analog circuit design.</b>		
<b>UNIT</b>	<b>Topic to be covered</b>	<b>No. of Lectures required</b>	<b>Mode of Lecture</b>
<b>I</b>	Introduction to course	1	White BOARD
	<b>Semiconductor Physics:</b> Overview of semiconductors	1	White BOARD
	PN junction diode and Zener diode	3	White BOARD
	Diode circuits: Filters, rectifiers clipper and clamper	4	White BOARD
	BJT construction operation and characteristics, CB-CE,CC & uses	4	White BOARD
	JFEET MOSFET construction and characteristics and uses	3	White BOARD
<b>II</b>	<b>Digital Electronics:</b> Binary Decimal Octal and Hexadecimal number system & conversion	4	White BOARD
	Boolean Algebra and Demorgans theorem	3	White BOARD
	Logic Gates and Sequential And Combinational Circuits SR JK FFs	2	White BOARD
<b>III</b>	<b>Electronics Instruments:</b> Multimeter (Analog and Digital), CRO, Function Generator	2	White BOARD
<b>IV</b>	<b>Optoelectronic devices and Displays:</b>		White BOARD
	Photoconductive cell- Photovoltaic cell-solar cell-photo diodes-photo transistors	2	PPT
	Seven Segment display: common anode and common cathode	2	White BOARD
	LED display : Construction working advantage disadvantage and applications	2	PPT
	LCD display : Type of liquid crystals, Types of LCD displays: Dynamic scattering and field effect type const working and applications	2	PPT
<b>V</b>	Communication systems: Block diagram of basic communication system, Need for modulation, Method of modulations	2	White BOARD
	Principles of AM FM PM Transmitter and receivers	3	PPT
		40	
	Text Book: As per Syllabus & Scheme		