LESSON PLAN

Name of the Faculty : Ms.Shriya Bhojwani

Discipline : B.tech

Semester : 2nd Semester

Subject : Elements of Electronics Engineering

Lesson Plan Duration : 15 weeks (from January, 2018 to April, 2018)

Work Load (Lecture / Practical) per week: Lectures-03

Week	Theory	
	Lecture day	**Topic (including assignment / test)**
1st	1st	• Overview of Semiconductors
	2nd	• PN junction diode and Zener diode
	3rd	• Diode circuits: rectifiers (bridge type only)
2nd	4th	• Filters
	5th	• Clippers and Clampers
	6th	• BJT construction, operation, characteristics (CB, CE and CC configurations) and uses
3rd	7th	• JFET
	8th	• MOSFET construction, operation
	9th	• Assignment I
4th	10th	• MOSFET construction, operation, characteristics (CS configuration) and uses.
	11th	• Binary, Decimal, octal and Hexadecimal number systems and conversions
	12th	• Boolean Algebra, De Morgan's theorem
5th	13th	• Logic gates (AND, OR, NOT, NAND, NOR, XOR, XNOR),
	14th	• Test I
	15th	• Combinational and sequential circuits
6th	16th	• Introduction to flip-flops (S-R & J-K).
	17th	• Role, importance and applications of general-purpose test instruments like Multimeter: Digital & Analog
	18th	• Cathode RayOscilloscope (CRO)
7th	19th	• Function/Signal Generator
	20th	• Photoconductive cell and Photovoltaic cell
	21th	• Assignment II
8th	22nd	• Solar cell
	23rd	• Photodiodes and Phototransistors
	24th	• Test II

9th	25th	• Seven segment display: Common anodeand Common cathode connections and applications
	26th	• LCD DISPLAY: Types of liquid crystals
	27th	• Group Activity I
10th	28th	• Types of LCD display:- Dynamic scattering and field effect type
	29th	• LCD Construction
	30th	• Working of LCD
11th	31th	• Advantages, Disadvantages and Applications of LCD
	32nd	• Test III
	33rd	• Block diagram of a basic communication system
12th	34th	• Frequency spectrum
	35th	• Need for modulation -
	36th	• Methods of modulation
13th	37th	• Principle of AM
	38th	• Principle of FM
	39th	• Principle of PM
14th	40th	• Pulse analog modulation
	41th	• Pulse digital modulation
	42nd	• AM transmitters & receivers
15th	43rd	• Group Activity II
	44th	• FM transmitters
	45th	• FMreceivers