Lesson Plan for semester 3 (FOR MINOR COURSE)

ELT-MD-Minor-1-3TH

Course Name: Fundamentals of Circuit Theory and Electronic Device

UNIT	TOPIC	NO. OF CLASSES	TIME PERIOD	TEACHER'S NAME
I	CIRCUIT ELEMENTS	12	SEP - NOV	TG
	CIRCUIT ANALYSIS			
	DC & AC ANALYSIS			
	NETWORK THEOREM			
II	SEMICONDUCTOR BASICS	11	NOV- JAN	TG
	JUNCTION DIODE & ITS APPLICATION			
III	BJT	11	SEP - NOV	AS
	TRANSISTOR BIASING			
IV	BJT AMPLIFIER	11	NOV- JAN	AS
	FET			

ELT-MD-Minor-1-3P

Course Name: Fundamentals of Circuit Theory and Electronic Device LAB

SL NO.	TOPIC	TIME PERIOD
1	To Familiarize with Basic Electronic Components (R, C, L, Diodes, Transistors), Digital Multimeter, Function Generator and Oscilloscope.	SEP - NOV
2	Verification of (a) Thevenin's Theorem and (b) Norton's Theorem	SEP - NOV
3	Verification of (a) Superposition Theorem and (b) Maximum Power Transfer Theorem.	SEP - NOV
4	Study of the I-V Characteristics of (a) P-N Junction Diode and (b) Zener Diode	SEP - NOV

5	Study of (a) Half Wave rectifier and (b) Full Wave rectifier (FWR) without and with Capacitor Filter.	NOV- JAN
6	Study of Zener Diode as Voltage Regulator and its Load Regulation.	NOV- JAN
7	Study of the I-V Characteristics of the Common Emitter Configuration of BJT	NOV- JAN
8	Study of the I-V Characteristics of the Common Base Configuration of BJT	NOV- JAN
9	Study of the I-V Characteristics of JFET.	NOV- JAN

Lesson Plan format for semester 3 (for 3 year MDC)

ELT-MD-CC-3-3-TH

Course Name: MICROPROCESSOR & MICROCONTROLLER

UNIT	TOPIC	NO. OF CLASSES	TIME PERIOD	TEACHER'S NAME
I	INTRODUCTION TO MICROPROCESSORS 8085 MICROPROCESSORS	12	SEP - NOV	TG
II	8085 INSTRUCTIONS & PROGRAMMING INTERRUPT INTERFACING	13	NOV- JAN	TG
III	INTRODUCTION TO MICROCONTROLLER 8051 PROGRAMMING	12	SEP - NOV	AS
IV	INTRODUCTION TO ARDUINO UNO	8	NOV- JAN	AS

ELT-MD-Minor-3-5-P

COURSE NAME: MICROPROCESSOR MICROCONTROLLER LAB

SL NO.	TOPIC		TIME PERIOD
1	8085 MICRO-PROCESSOR	Transfer of Block of Data	SEP - NOV
2		Addition and Subtraction of Numbers using Direct Addressing Mode	SEP - NOV
3		Addition and Subtraction of Numbers using Indirect Addressing Mode	SEP - NOV
4		Multiplication by Repeated Addition	SEP - NOV
5		Division by Repeated Subtraction.	SEP - NOV
6		Handling of 16-Bit Numbers.	SEP - NOV
7		Search a given Number in a given List	SEP - NOV
8		Generate Fibonacci Series	SEP - NOV
9		Sorting of Numbers in Ascending/Descending Order.	NOV- JAN
10		Use of CALL and RETURN Instruction	NOV- JAN
11		Program to Verify Truth Table of Logic Gates.	NOV- JAN
12	8051 MICRO-CONTROLLER	Program to Find Whether the Numbers are Prime or Not.	NOV- JAN
13		Program to Find Factorial of a Number.	NOV- JAN
14		Program to Find (a) Largest of N Numbers and (b) Smallest of N Numbers.	NOV- JAN
15		Program to Arrange Numbers in Ascending/Descending Order	NOV- JAN
16		Write and Execute a Sketch in Arduino Uno IDE to Blink an LED.	NOV- JAN

17		Write and Execute a Sketch in Arduino Uno IDE to Interface a Switch to Turn an LED On and Off.	NOV- JAN

Signature
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H.O.D of Electronics