Lesson Plan for semester 5(MINOR COURSE)

ELT-MD-Minor-3-5-TH

Course Name: MICROPROCESSOR & MICROCONTROLLER

UNIT	TOPIC	NO. OF CLASSES	TIME PERIOD	TEACHER'S NAME
I	INTRODUCTION TO MICROPROCESSORS	12	SEP - NOV	TG
	8085 MICROPROCESSORS			
II	8085 INSTRUCTIONS & PROGRAMMING	13	NOV- JAN	TG
	INTERRUPT			
	INTERFACING			
III	INTRODUCTION TO MICROCONTROLLER	12	SEP - NOV	AS
	8051 PROGRAMMING			
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	Program to Find Whether the Numbers are Prime or Not.	NOV- JAN
13	MICRO-CONTROLLER	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
18			

ELT-MD-Minor-4-5-TH

COURSE NAME-ELECTRONIC COMMUNICATION

UNIT	TOPIC	NO. OF CLASSES	TIME PERIOD	TEACHER'S NAME
I	INTRODUCTION TO ELECTRONIC COMMUNICATION SYSTEM	12	SEP - NOV	TG
	NOISE IN COMMUNICATION SYSTEM			
	AMPLITUDE MODULATION			
II	FREQUENCY & PHASE MODULATION	10	SEP - NOV	AS
	ANALOG PULSE MODULATION			
III	DIGITAL MODULATION TECHNIQUES	11	NOV-JAN	AS
IV	RADIO WAVE PROPAGATION	12	NOV-JAN	TG
	CELLULAR COMMUNICATION			

ELT-MD-Minor-4-5-P

COURSE NAME-ELECTRONIC COMMUNICATION LAB

SL NO.	TOPIC	PERIOD
1	Study of Amplitude Modulation.	SEP - NOV
2.	Study of Amplitude Demodulation.	SEP - NOV
3.	Study of Frequency Modulation.	SEP - NOV
4.	Study of Frequency Demodulation.	SEP - NOV

5.	Study of Pulse Amplitude Modulation.	NOV- JAN
6.	Study of Pulse Width Modulation.	NOV- JAN
7.	Study of Amplitude Shift Keying.	NOV- JAN
8	Study of Phase Shift Keying.	NOV- JAN
9	Study of Frequency Shift Keying.	NOV- JAN

Lesson Plan for semester 5(3 YEAR MDC CORE COURSE)

ELT-MD-CC-6-5-TH

Course Name: ELECTRONIC DEVICES AND CIRCUITS

UNIT	TOPIC	NO. OF CLASSES	TIME PERIOD	TEACHER'S NAME
I	DIODE CIRCUITS	10	SEP - NOV	TG
II	BJT CIRCUITS	10	SEP-NOV	AS
III	FEEDBACK AMPLIFIER	13	NOV-DEC	AS
	OSCILLATOR			
IV	POWER AMPLIFIER	12	JAN	AS
	MOSFET		DEC-JAN	TG

ELT-MD-CC-6-5-P

COURSE NAME: ELECTRONIC DEVICES AND CIRCUITS LAB

IMPLEMENTATION WITH HARDWARE

SL NO.	TOPIC	TIME PERIOD
1	Study of RC Circuit as Differentiator and High Pass Filter.	SEP - NOV
2	Study of RC Circuit as Integrator and Low Pass Filter.	SEP - NOV
3	Study of Clipping and Clamping Circuits.	SEP - NOV
4	Study of Colpitts's Oscillator.	NOV-DEC
5	Study of the RC Phase Shift Oscillator.	NOV-DEC
6	Study of the Wien Bridge Oscillator.	NOV-DEC
7	Study of the Wien Bridge Oscillator	DEC-JAN
8	Study of Class A and B Push-Pull Power Amplifier	DEC-JAN
9	Study of the I-V Characteristics of MOSFET.	DEC-JAN

ELT-MD-CC-7-5-TH

COURSE NAME: POWER & OPTO ELECTRONICS

UNIT	TOPIC	NO. OF CLASSES	TIME PERIOD	TEACHER'S NAME
I	POWER ELECTRONIC DEVICES	12	SEP - NOV	TG
	INSULATED GATE BIPOLAR TRANSISTOR			
II	APPLICATION OF SCR	9	SEP-NOV	AS
III	OPTOELECTRONIC DEVICES	12	NOV-DEC	AS
	PHOTO DETECTOR			
IV	SOLAR CELL		JAN	AS

	LCD DISPLAYS INTRODUCTION TO FIBER OPTICS	12	DEC-JAN	TG

ELT-MD-CC-7-5-P

COURSE NAME: POWER AND OPTOELECTRONICS LAB

SL NO.	TOPIC	TIME PERIOD
1	To Determine I-V Characteristics of (a) LEDs, (b) Photo Voltaic Cell and (c) Photo Diode.	SEP - NOV
2	To Study I-V Characteristics of LDR and Photodiode with (a) Variable Illumination Intensity and (b) Linear Displacement of Source.	SEP - NOV
3	Output and Transfer Characteristics of a Power MOSFET.	SEP - NOV
4	Study of I-V Characteristics of SCR.	NOV- JAN
5	SCR as Half Wave and Full Wave Rectifiers with R and RL Loads	NOV- JAN
6	Study of I-V Characteristics of DIAC.	NOV- JAN
7	Study of I-V Characteristics of TRIAC	NOV- JAN

Signature
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