

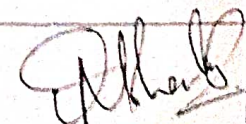
SSB REGIONAL INSTITUTE OF SC. & TECHNOLOGY, CHITRADA, MBI

LESSON PLAN

BRANCH - EE		SEM - 1 st Sem	
FACULTY NAME - Abhinav Nanda		SUBJECT - DCC 2 PP	
MONTH - October	NO OF CLASSES PER WEEK ALLOTTED	SEM FROM DT. 01-10-2021 TO DT. 01-11-2021	
WEEK	CLASS DAY	DATE	THEORY/PRACTICAL TOPICS
1ST	1	01/10/2021	1.1 binary, octal, hexadecimal number systems and compare with decimal system
	2		
	3		
	4		
	5		
2ND	1	04/10/2021	1.2 binary addition, subtraction, multiplication and division
	2	05/10/2021	1.3 1's complement and 2's complement numbers for a binary number
	3	07/10/2021	1.4 subtraction of binary numbers in 2's complement method
	4	08/10/2021	1.5 use of weighted and un-weighted codes and write binary equivalent number for a decimal
	5		
3RD	1	11/10/2021	1.6 number of 8421, excess-3 and gray code and vice-versa
	2		
	3		
	4		
	5		
4TH	1	18/10/2021	1.7 importance of parity bit.
	2	18/10/2021	1.8 Logic gate AND, OR, NOT, NAND, NOR and ex-OR gates with truth table.
	3	20/10/2021	1.9 Realize AND, OR, NOT operation using NAND, NOR gates
	4	22/10/2021	1.10 Different postulates and De-Morgan's theorems in Boolean algebra
	5	24/10/2021	1.11 use of Boolean algebra for simplification of logic expression
5TH	1	25/10/2021	2.1 Karnaugh Map for 2, 3, 4 variable, simplification of SOP and POS logic expressions using K-map.
	2	26/10/2021	2.1 Define the concept of combinational logic circuit
	3	27/10/2021	2.2 Half adder circuit and verify its functionality using truth table
	4	28/10/2021	2.3 Realize a Half-adder using NAND gate only and NOR gate only.
	5	29/10/2021	2.4 Full adder circuit and explain its operation with truth table

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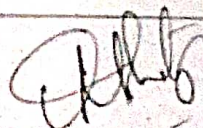

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SSU REGIONAL INSTITUTE OF SC. & TECHNOLOGY, CHITRADA, MBS
LESSON PLAN

BRANCH: E.E		SEM: 4 th Sem	
FACULTY NAME: Abinash Nanda		SUBJECT: DEC 248	
MONTH	NO OF CLASSES PER WEEK ALLOTTED	SEM FROM DT. 01-10-2021 TO DT. 08-01-2022	NO. OF WEEKS
WEEK	CLASS DAY	DATE	THEORY/PRACTICAL TOPICS
1ST	1	01/11/2021	2.5 Realize full adder using two half adders and an OR-gate and verify truth table.
	2	02/11/2021	2.6 Full subtraction circuit and explain its operation with truth table.
	3	03/11/2021	2.7 operation 4x1 multiplexers and 1x4 demultiplexers
	4	04/11/2021	2.8 Working of binary-Decimal Encoders & 3x2 Decoder
	5	05/11/2021	2.9 Working of two bit magnitude Comparator.
2ND	1	08/11/2021	5.1 Interfacing AND support chips
	2	09/11/2021	5.1 Basic interfacing concepts, Memory Mapping, Bus mapping
	3	10/11/2021	5.2 Functional block diagram and description of each block of Programmable Peripheral interface in 8255
	4	11/11/2021	5.3 Application using 8255: seven segment-LED display
	5	12/11/2021	5.3 Square wave generator, Traffic light controller
3RD	1	15/11/2021	3. SEQUENTIAL LOGIC CIRCUITS. 3.1 Give the idea of sequential logic circuit
	2	16/11/2021	3.2 State the necessity of clock and give the concept of level
	3	17/11/2021	3.2 clocking and edge triggering.
	4	18/11/2021	3.3 clocked SR flip flop with preset and clear inputs.
	5	20/11/2021	3.3 clocked SR flip flop with present and clear inputs
4TH	1	22/11/2021	3.4 Construct level clocked JK flip flop using S-R Flip flop
	2	23/11/2021	3.4 Construct level clocked JK flip flop using S-R flip flop and explain with truth table
	3	24/11/2021	3.5 Concept of race around condition and study of master slave JK flip flop.
	4	25/11/2021	3.5 Concept of race around condition and study of master slave JK flip flop.
	5	26/11/2021	3.6 Give the truth tables of edge triggered D and T flip flops and draw their symbols.
5TH	1	29/11/2021	3.6 Give the truth tables of edge triggered D and T flip flops and draw their symbols.
	2	30/11/2021	3.7 Applications of flip flops.
	3		
	4		
	5		

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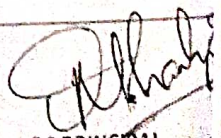

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LESSON PLAN

BRANCH-- EE		SEM- 5th Sem	
FACULTY NAME-- Abinash Nanda		SUBJECT- DEC & KP	
MONTH	NO OF CLASSES PER WEEK ALLOTTED	SEM FROM DT. 01-10-2021 TO DT. 08-01-2022	
WEEK	CLASS DAY	DATE	THEORY/PRACTICAL TOPICS
1ST	1	01/12/2021	3.8 Applications of flip flops.
	2	02/12/2021	3.9 Define modulus of a counter
	3	03/12/2021	3.10 4-bit asynchronous counter and its timing diagram
	4	04/12/2021	3.10 4 bit asynchronous counter and its timing diagram
	5		
2ND	1	06/12/2021	3.11 Synchronous decade counter.
	2	07/12/2021	3.12 4-bit synchronous counter
	3	08/12/2021	3.13 Distinguish between synchronous and asynchronous counter.
	4	09/12/2021	3.13 Distinguish bet ⁿ synchronous and asynchronous counter
	5	10/12/2021	3.14 state the need for a Register and list the four types of Registers
3RD	1	12/12/2021	3.14. state the need for a Register and list the four types of Registers
	2	13/12/2021	3.15 working of SISO, SIPO, PISO, PIPO Register with truth table using flip flop.
	3	15/12/2021	3.15 working of SISO, SIPO, PISO, PIPO Registers with truth table using flip flop.
	4	16/12/2021	4. 8085 MICROPROCESSOR 4.1 Introduction to microprocessors, Microcomputers
	5	17/12/2021	4.2 Architecture of Intel 8085 microprocessor and description of each block
4TH	1	20/12/2021	4.2 Architecture of Intel 8085 microprocessor and description of each block
	2	21/12/2021	4.3 Pin diagram and description.
	3	22/12/2021	4.4. stack, stack pointer & stack top.
	4	23/12/2021	4.5 Interrupts
	5	24/12/2021	4.6. opcode & operand.
5TH	1	27/12/2021	4.7. Differentiate bet ⁿ one byte, two byte & three byte instruction with example.
	2	28/12/2021	4.7 differentiate bet ⁿ one byte, two byte & three byte instruction with example.
	3	29/12/2021	4.8 Instruction set of 8085 example
	4	30/12/2021	4.9 Addressing Mode
	5	31/12/2021	4.9 Addressing Mode

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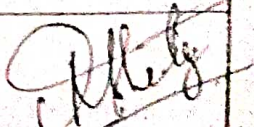
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LESSON PLAN

BRANCH-- EE		SEM- 5th Sem	
FACULTY NAME-- Abinash Nanda		SUBJECT- DEC 2 up	
MONTH	NO OF CLASSES PER WEEK ALLOTTED	SEM FROM DT- 01-10-2021 TO DT- 03-11-2022	
WEEK	CLASS DAY	DATE	THEORY/PRACTICAL TOPICS
1ST	1	01/01/2022	4.10 Fetch Cycle, Machine Cycle, instruction cycles, T-states
	2	02/01/2022	4.10 Fetch Cycle, Machine Cycle, instruction cycles, T-states
	3		
	4		
	5		
2ND	1	03/01/2022	4.11 Timing Diagram for memory read, memory write, I/O read, I/O write
	2	04/01/2022	4.11 Timing Diagram for memory read, memory write, I/O read, I/O write
	3	05/01/2022	4.12 Timing Diagram for 8085 instruction
	4	06/01/2022	4.13 Counter and time delay.
	5	07/01/2022	4.14 Simple assembly language programming of 8085.
3RD	1	08/01/2022	4.14 Simple assembly language programming of 8085.
	2		
	3		
	4		
	5		
4TH	1		
	2		
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	4		
	5		
5TH	1		
	2		
	3		
	4		
	5		

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LESSON PLAN

BRANCH - EE		SEM - 5th Sem	
FACULTY NAME - Anamika Bora		SUBJECT - Utilization of Elec. Eng. & Techn.	
MONTH	NO OF CLASSES PER WEEK ALLOTTED	SEM FROM DT- 01/10/2021 TO DT- 08/01/2021	
		NO. OF WEEKS - 05	
WEEK	CLASS DAY	DATE	THEORY/PRACTICAL TOPICS
1ST	1	01/10/2021	Complex numbers definition and basic principle of Electro Deposition
	2		
	3		
	4		
	5		
2ND	1	04/10/2021	Important terms regarding electrolysis
	2	05/10/2021	Faraday laws of Electrolysis
	3	07/10/2021	Definition of current efficiency, Energy efficiency
	4	08/10/2021	principle of Electro deposition
	5		
3RD	1	11/10/2021	Factors affecting the amount of Electro deposition
	2		
	3		
	4		
	5		
4TH	1	16/10/2021	Factor governing the electro deposition
	2	18/10/2021	State simple example of extraction of metals
	3	21/10/2021	Application of Electrolysis
	4	22/10/2021	Advantage of electrical heating
	5	23/10/2021	mode of heat transfer and stephen's law
5TH	1	25/10/2021	Principle of Resistance heating
	2	26/10/2021	Direct resistance and indirect resistance heating
	3	27/10/2021	Discuss working principle of direct arc furnace
	4	28/10/2021	working principle of indirect arc furnace
	5	29/10/2021	principle of induction heating

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LESSON PLAN

BRANCH-- **EE**


FACULTY NAME-- **Anamika Bera**

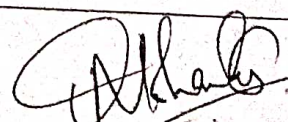
SEM- **5th**

SUBJECT- **UEET.**

MONTH	NO OF CLASSES PER WEEK	ALLOTTED	SEM FROM DT- NO. OF WEEKS	TO DT-	THEORY/PRACTICAL TOPICS
WEEK	CLASS DAY	DATE			
1ST	1	01/11/2021	working principle of direct core type, Vertical core type		
	2	02/11/2021	working principle of indirect core type induction furn.		
	3	03/11/2021	principle of coreless induction furnace and skin effect		
	4	05/11/2021	principle of dielectric heating and its application.		
	5	06/11/2021	principle of microwave heating and its application.		
2ND	1	08/11/2021	Explain principle of arc welding		
	2	09/11/2021	Discuss D.C & A.C ARC phenomena		
	3	10/11/2021	p.c & A.c arc welding plants of single & multi-operation type		
	4	11/11/2021	Types of arc welding		
	5	12/11/2021	Explain principles of resistance welding		
3RD	1	15/11/2021	Descriptive study of different resistance welding method		
	2	16/11/2021	Nature of radiation and its spectrum		
	3	17/11/2021	Terms used in illumination (Lumen, Luminous inte.		
	4	18/11/2021	Intensity of illumination, MHCP, MSCP, MHSEP		
	5	20/11/2021	solid angle, Brightness, Luminous efficiency		
4TH	1	21/11/2021	Explain the inverse square law and the cosine law		
	2	22/11/2021	Explain polar curves		
	3	23/11/2021	Describe light distribution and Control		
	4	24/11/2021	Explain related definition like maintenance factor		
	5	25/11/2021	and depreciation factors		
5TH	1	26/11/2021	design simple lighting schemes and		
	2	29/11/2021	depreciation factor		
	3	30/11/2021	Construction feature and working of		
	4		Filament lamps, effect of Variation of		
	5		Voltage on working of filament lamps		

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BRANCH-- EE

SEM- 5th

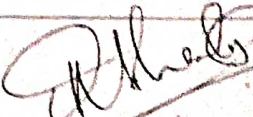
FACULTY NAME-- Anamika Bora

SUBJECT- UEE1

MONTH	NO OF CLASSES PER WEEK ALLOTTED	SEM FROM DT- NO. OF WEEKS	TO DT-
WEEK	CLASS DAY	DATE	THEORY/PRACTICAL TOPICS
1ST	1	01/12/2021	Explain discharge lamps
	2	02/12/2021	State basic idea about excitation in gas discharge lamp
	3	03/12/2021	State constructional features and operation of
	4	04/12/2021	Fluorescent lamp (PL and PLL lamps)
	5		
2ND	1	06/12/2021	Sodium Vapor lamps
	2	07/12/2021	High pressure mercury vapor lamps
	3	08/12/2021	Neon sign lamps
	4	09/12/2021	High lumen output & low construction
	5	10/12/2021	fluorescent lamps
3RD	1	13/12/2021	State group and individual drive
	2	14/12/2021	method of choice of electric drives
	3	15/12/2021	Explain starting and running characteristics
	4	16/12/2021	of DC and AC motor
	5	17/12/2021	state Application of DC motor
4TH	1	20/12/2021	3-phase induction motor
	2	21/12/2021	3 phase synchronous motors
	3	22/12/2021	Single phase induction, Series motor
	4	23/12/2021	universal motor, universal motor and repulsion motor
	5	24/12/2021	Explain system of traction
5TH	1	27/12/2021	System of Traction electrification
	2	28/12/2021	Running characteristic of DC and AC traction motor
	3	29/12/2021	Explain control of motor Tapped field control
	4	30/12/2021	Rheostatic control, Series parallel control
	5	31/12/2021	multi-unit control, metadyne control

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LESSON PLAN

BRANCH- EE SEM- 5th

FACULTY NAME- Arjun Kumar Bera SUBJECT- UEET

MONTH- NO OF CLASSES PER WEEK ALLOTTED SEM FROM DT- NO. OF WEEKS TO DT-

WEEK	CLASS DAY	DATE	THEORY/PRACTICAL TOPICS
1ST	1	01/01/2022	Explain Braking of the following types Re
	2	02/01/2022	Regenerative Braking
	3		
	4		
	5		
2ND	1	03/01/2022	Explain Braking of the Braking with -
	2	04/01/2022	1-phase series motor
	3	05/01/2022	Explain Braking of the Braking
	4	06/01/2022	with magnetic Braking
	5	07/01/2022	
3RD	1	08/01/2022	
	2		
	3		
	4		
	5		
4TH	1		
	2		
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5TH	1		
	2		
	3		
	4		
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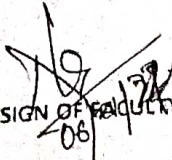
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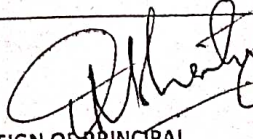
BRANCH- Electrical E^{TA}
 FACULTY NAME- A/ Mutham Subho

SEM- 5th SEM
 SUBJECT- PE & D, I & LL

MONTH	NO OF CLASSES PER WEEK	ALLOTTED	SEM FROM DT- NO. OF WEEKS	TO DT-	
WEEK	CLASS DAY	DATE	THEORY/PRACTICAL TOPICS		
1ST	1	01/10/2021	Construction, operation, V-I characteristic & application of power diode		
	2				
	3				
	4				
	5				
2ND	1	04/10/2021	SCR, DIAC, TRIAC, power MOSFET, UJT & IGBT Two transistor analogy of SCR Gate characteristics of SCR Switching characteristic of SCR during turn on and turn off Turn on methods of SCR		
	2	05/10/2021			
	3	07/10/2021			
	4	08/10/2021			
	5				
3RD	1	11/10/2021	Turn off methods of SCR (Line & forced commutation) Load commutation Resonant pulse commutation Voltage and current rating of SCR Protection of SCR Over voltage protection Over current protection Gate protection Firing circuits (general layout diagram of firing circuit) R firing circuit		
	2				
	3				
	4				
	5				
4TH	1	16/10/2021	Turn off methods of SCR (Line & forced commutation) Load commutation Resonant pulse commutation Voltage and current rating of SCR Protection of SCR Over voltage protection Over current protection Gate protection Firing circuits (general layout diagram of firing circuit) R firing circuit		
	2	18/10/2021			
	3	21/10/2021			
	4	22/10/2021			
	5	23/10/2021			
5TH	1	25/10/2021	Turn off methods of SCR (Line & forced commutation) Load commutation Resonant pulse commutation Voltage and current rating of SCR Protection of SCR Over voltage protection Over current protection Gate protection Firing circuits (general layout diagram of firing circuit) R firing circuit		
	2	26/10/2021			
	3	27/10/2021			
	4	28/10/2021			
	5	29/10/2021			


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LESSON PLAN

BRANCH-- Electrical Engg
 FACULTY NAME-- Narayana Choudhary

SEM- 5th Sem
 SUBJECT- P E & D & PLL

MONTH	NO OF CLASSES PER WEEK ALLOTTED	SEM FROM DT- NO. OF WEEKS	TO DT-
WEEK	CLASS DAY	DATE	THEORY/PRACTICAL TOPICS
1ST	1	01/11/2021	R-C firing circuit
	2	02/11/2021	UJT pulse trigger circuit
	3	03/11/2021	Synchronous triggering (Ramp Triggering)
	4	05/11/2021	Design of snubber circuit
	5	06/11/2021	Controlled rectifier techniques (phase angle, extinction angle control)
2ND	1	08/11/2021	single quadrant semi converter, two quadrant full converter & dual converter
	2	09/11/2021	Working of single phase half wave controlled converter with resistive and R-L loads
	3	10/11/2021	understand need of freewheeling diode
	4	11/11/2021	Working of single phase fully controlled converter with resistive and R-L loads
	5	12/11/2021	Working of three phase half wave controlled converter with resistive load
3RD	1	15/11/2021	Working of three phase fully controlled converter with resistive load
	2	16/11/2021	Working of three phase half wave controlled converter with resistive load
	3	17/11/2021	Controlled converter with resistive load
	4	18/11/2021	Working of three phase fully controlled converter with resistive load
	5	20/11/2021	Working of three phase fully controlled converter with resistive load
4TH	1	21/11/2021	Working of single phase AC regulator
	2	22/11/2021	Working principle of step up & step down chopper
	3	23/11/2021	Control modes of chopper
	4	24/11/2021	operation of chopper in all four quadrants
	5	25/11/2021	Clarify inverters
5TH	1	26/11/2021	Explain the working of series inverter
	2	29/11/2021	Explain the working of single phase inverter
	3	30/11/2021	
	4		
	5		

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LESSON PLAN

BRANCH - Electrical Engg		SEM - 5th Sem	
FACULTY NAME - Nandhan Pr		SUBJECT - PE 2 D.S. 2.2	
MONTH	NO OF CLASSES PER WEEK ALLOTTED	SEM FROM DT- NO. OF WEEKS	TO DT-
WEEK	CLASS DAY	DATE	THEORY/PRACTICAL TOPICS
1ST	1	01/12/2021	Explain the basic principle of cyclo-converter
	2	02/12/2021	Explain the working of single-phase step up & step down cyclo-converter
	3	03/12/2021	Application of cyclo-converter
	4	04/12/2021	
	5		
2ND	1	06/12/2021	List application of power electronic circuit
	2	07/12/2021	List the factors affecting the speed of DC motor
	3	08/12/2021	Speed control for DC shunt motor using con.
	4	09/12/2021	Speed control for DC shunt motor using chopper
	5	10/12/2021	List the factors affecting speed of the AC motor
3RD	1	13/12/2021	Speed control of induction motor by using
	2	14/12/2021	AC Voltage Regulator
	3	15/12/2021	Speed control of induction motor by using
	4	16/12/2021	converters and inverters (V/F control)
	5	17/12/2021	working of UPS with block diagram
4TH	1	20/12/2021	Battery charger circuit using SCR with the help of a diagram
	2	21/12/2021	
	3	22/12/2021	Basic switched mode power supply (SMPS)
	4	23/12/2021	Explain its working & application.
	5	24/12/2021	Introduction of Programmable Logic Controller (PLC)
5TH	1	27/12/2021	Advantages of PLC
	2	28/12/2021	Different parts of PLC by drawing the
	3	29/12/2021	Block diagram and purpose of each part of PLC
	4	30/12/2021	Application of PLC
	5	31/12/2021	Ladder diagram

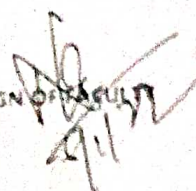
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LESSON PLAN

BRANCH- Electrical Engg		SEM- 5TH SEM	
FACULTY NAME- Narayana Sahu		SUBJECT- PE & D & P L L	
MONTH	NO OF CLASSES PER WEEK ALLOTTED	SEM FROM DT- NO. OF WEEKS	TO DT-
WEEK	CLASS DAY	DATE	THEORY/PRACTICAL TOPICS
1ST	1	01/01/2021	description of contacts and coils in the
	2	02/01/2021	following states (i) Normally open
	3		
	4		
	5		
2ND	1	03/01/2021	(ii) Normally closed (iii) Energized output
	2	04/01/2021	(iv) Latched output (v) Interlocking
	3	05/01/2021	Ladder diagram for (i) AND gate (ii) OR gate (iii) NOT
	4	06/01/2021	PLC instruction, Ladder diagram (i) DOL starter and STAR
	5	07/01/2021	Special Control systems- Basic DCS & SCADA system
3RD	1	08/01/2021	Computer Control- Data Acquisition, Direct Digital Control System
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4TH	1		
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5TH	1		
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