GOVT. POLYTECHNIC MAYURBHANJ LESSON PLAN						
Dis	Discipline : Semester: 5th Ser			Name of the Teaching Faculty: LAXMIDHAR SAHU		
Subject : UEET		No. of Days / per week class allotted: 04		Semester From date : 01.07.2024 To Date : 8.11.2024		
MONTH	Week	Day	UNIT	Topics		
	1ST			1.Electrolytic Process		
		1st		Definition and Basic principle of Electro Deposition.		
		3rd		Important terms regarding electrolysis.		
		4th		Faradays Laws of Electrolysis		
		5th		Definitions of current efficiency, Energy efficiency		
		1st	UNIT-1	Principle of Electro Deposition		
	2ND	3rd	UN11-1	Factors affecting the amount of Electro Deposition		
	ZND	4th		Factors governing the electro deposition		
		5th		State simple example of extraction of metals.		
		1st		Application of Electrolysis.		
JULY	3RD	3rd		Muharram (Holiday)		
) I		4th		Tutorial class		
			UNIT-2	2.ELECTRICAL HEATING		
		5th		Advantages of electrical heating.		
	4ТН	1st		Mode of heat transfer and Stephen's Law.		
		3rd		Principle of Resistance heating. (Direct resistance and indirect resistance heating.)		
		4th		Discuss working principle of direct arc furnace and indirect arc furnace.		
		C.1		Principle of Induction heating: Working principle of direct core type Induction		
		5th		furnace.		
	5TH	1st		Principle of Induction heating: vertical core type and indirect core type		
		3rd		Principle of coreless induction furnace and skin effect.		
	1ST	4th		Principle of dielectric heating and its application.		
		5th		Principle of Microwave heating and its application		
		1st		Tutorial class		
	2ND			3.Principles of Arc Welding.		
		3rd		Explain principle of arc welding		
		4th]	Discuss D. C. & A. C. Arc phenomena.		

AUGUST		5th	ı	D.C. & A. C. arc welding plants of single and multi-operation type.
		1st	TINITE 3	Types of arc welding & Explain principles of resistance welding
	2DD	3rd	UNIT -3	Descriptive study of different resistance welding methods
	3RD	4th	- -	Independence Day
		5th		First Monthly Test
	4ТН	1st		Jhulana Purnima (Holiday)
		3rd		Tutorial class
				4.Illumination
		4th		Nature of Radiation and its spectrum. Terms used in Illuminations.
		5th		Lumen, Luminous intensity, Intensity of illumination, MHCP, MSCP, MHSCP
		1st	-	Janmastami (Holiday)
		2nd		Solid angle, Brightness, Luminous efficiency.
	5TH	4th	1	Explain the inverse square law and the cosine law
		5th		Explain polar curves. Describe light distribution and control. Explain related definitions like maintenance factor and depreciation factors.
		1st		Design simple lighting schemes and depreciation factor.
	1ST	3rd	UNIT-4	Constructional feature and working of Filament lamps, effect of variation of voltage on working of filament lamps.
		4th		Explain Discharge lamps. State Basic idea about excitation in gas discharge lamps
		5th		State Basic idea about excitation in gas discharge lamps.
	2ND	1st		State constructional factures and operation of Fluorescent lamp. (PL and PLL Lamps)
		3rd		Sodium vapor lamps. High pressure mercury vapor lamps
EMBER		4th		Neon sign lamps. High lumen output & low consumption fluorescent lamps.
		5th		Tutorial class
SEPTI	3RD	1st		Birthday of Mohammed (Holiday)
		3rd		Question Discussion
				5.INDUSTRIAL DRIVES
		4th		State group and individual drive
		5th	1	Internal Assessment
		1st		Method of choice of electric drives
		3rd		Explain starting and running characteristics of DC and AC motor

	4TH	4th	UNIT-5	State Application of: DC motor. Phase induction motor3 phase synchronous
				motors.
		5th		Single phase induction, series motor,
	5TH	1st		Universal motor and repulsion motor.
		3rd		Gandhi Jayanti
		4th		Tutorial class
				6.ELECTRIC TRACTION
		5th		Explain system of traction
	2ND	1st		Durga Puja (Holiday)
		3rd		
		4th		
		5th		
		1st		System of Track electrification
	3RD	3rd		Kumar Purnima (Holiday)
		4th		Running Characteristics of DC and AC traction motor
		5th		Explain control of motor: Tapped field control.
	4ТН	1st		Rheostatic control. Series parallel control.
		3rd	UNIT-6	Multi-unit control.
		4th		Metaldyne control.
		5th		Explain Braking of the following types:. Regenerative Braking, Braking with 1-
				phase series motor
	5 TH	1st		Magnetic Braking.
		3rd		Tutorial class
		4th		Diwali (Holiday)
JR	1ST	5th		Semester Question Discussion
NOVEMBER	2ND	1st		Semester Question Discussion
		3rd		Second Monthly Test
		4th		
Ž		5th		Semester Question Discussion