GOVT. POLYTECHNIC MAYURBHANJ LESSON PLAN								
Disc	ipline :	Semester: 5th Sem		Name of the Teaching Faculty: Laxmidhara Sahu				
Subject : UEET		No. of Days /		Semester From date: 01.08.2023 To Date: 30.11.2023				
		per week class allotted: 04						
MONTH	Week	Day	UNIT	Topics				
				1.Electrolytic Process				
	1ST	2nd		Definition and Basic principle of Electro Deposition.				
		4th		Important terms regarding electrolysis.				
		5th		Faradays Laws of Electrolysis				
		6th		Definitions of current efficiency, Energy efficiency				
		2nd		Principle of Electro Deposition				
	2ND	4th		Factors affecting the amount of Electro Deposition				
	2ND	5th		Factors governing the electro deposition				
		6th		State simple example of extraction of metals.				
		2nd		Independance Day				
ST	3RD	4th		Application of Electrolysis.				
AUGUST		5th		Question Discussion				
ΑŪ		C41.		2.ELECTRICAL HEATING				
· ·		6th		Advantages of electrical heating.				
•		2nd		Mode of heat transfer and Stephen's Law.				
•	4ТН		UNIT-2	Principle of Resistance heating. (Direct resistance and indirect resistance heating.)				
		4th						
		5th		Discuss working principle of direct arc furnace and indirect arc furnace.				
				Principle of Induction heating. Working principle of direct core type, vertical core type				
		6th		and indirect core type Induction furnace.				
	5 TH	2nd		Principle of coreless induction furnace and skin effect.				
		4th		Principle of dielectric heating and its application.				
		5th		Principle of Microwave heating and its application				
	1ST	6th		Question Discussion				
	2ND		UNIT-3	3.Principles of Arc Welding.				
		2nd		Explain principle of arc welding				
		4th		Discuss D. C. & A. C. Arc phenomena.				
		5th		D.C. & A. C. arc welding plants of single and multi-operation type.				
		6th		Types of arc welding & Explain principles of resistance welding				
		2nd		Descriptive study of different resistance welding methodsUNIT-4				
		4th		Question Discussion				
	2DD							

SEPTEMBER	JKD	5th		
		6th		Class Test-1
		2nd		Ganesh Puja
	4ТН	4th		4.Illumination
		5th		Nature of Radiation and its spectrum. Terms used in Illuminations.
				[Lumen, Luminous intensity, Intensity of illumination, MHCP, MSCP, MHSCP, Solid
				angle, Brightness, Luminous efficiency.]
		6th		Explain the inverse square law and the cosine law
	5ТН	2nd		Explain polar curves. Describe light distribution and control. Explain related definitions
				like maintenance factor and depreciation factors.
		4th		Design simple lighting schemes and depreciation factor.
		5th		Birthday of Mohammad
		6th	UNIT-4	Constructional feature and working of Filament lamps, effect of variation of voltage on
				working of filament lamps.
		2nd		Explain Discharge lamps. State Basic idea about excitation in gas discharge lamps
	1ST	4th		State Basic idea about excitation in gas discharge lamps.
		5th		State constructional factures and operation of Fluorescent lamp. (PL and PLL Lamps)
			_	
		6th		Sodium vapor lamps. High pressure mercury vapor lamps
	2ND	2nd	_	Neon sign lamps. High lumen output & low consumption fluorescent lamps.
		4th		Question Discussion
~		5th		5.INDUSTRIAL DRIVES
EEF		6.1	UNIT-5	State group and individual drive
OCTOBER		6th	_	Method of choice of electric drives
CI	3RD	2nd	_	Explain starting and running characteristics of DC and AC motor
0		4th		Internal Exam
		5th		
		6th		Durga Puja
	4TH 5TH	2nd		
		4th 5th	+	
		6th		
		Our		State Application of: DC motor. Phase induction motor3 phase synchronous motors.
		2nd		State Application of DC motor. Fhase mudchon motor3 phase synchronous motors
		4th		Single phase induction, series motor,
	1ST	5th		Universal motor and repulsion motor.
		6th		Question Discussion
ı		Oth		Kanada Singapaidii

NOVEMBER		2nd		6.ELECTRIC TRACTION	
	2ND		UNIT-6	Explain system of traction	
		4th		System of Track electrification	
		5th		Running Characteristics of DC and AC traction motor	
		6th		Explain control of motor: Tapped field control.	
	3RD	2nd		Rheostatic control. Series parallel control.	
		4th		Multi-unit control.	
		5th		Metaldyne control.	
		6th		Explain Braking of the following types:. Regenerative Braking.	
	4ТН	2nd		Braking with 1-phase series motor.	
		4th		Magnetic Braking.	
		5th		Question Discussion	
		6th		Revision	
	5TH	2nd		Revision	
		4th		Class Test-2	