	GOVT. POLYTECHNIC MAYURBHANJ LESSON PLAN							
Discipline :		Semester: 3rd Sem		Name of the Teaching Faculty :SOURAV ADHYA				
Subject :NFM		No. of Days / per week class allotted : 04		Semester From date: 15.09.2022 To Date: 21.01.2023				
MONTH	Week	Day	Unit	Topics				
	3rd	5th	UNIT-1	Non-ferrous ore Reserves and Non-ferrous Metal Industries in India				
		3rd	UNIT-2	Extraction of Metals from Oxide Ores				
	4th	3rd		Describe the Bayer's process of alumina production.				
		4th		Explain the fused salt electrolysis of alumina by Hall Heroult process.				
ABER		5th		Discuss anode effect. Explain the method of refining of aluminum State the uses of aluminum.				
SEPTEMBER		3rd	UNIT-3	Explain the process of tin ore concentration. Explain the process of concentrate smelting				
S	5th	3rd		Describe the process of refining of tin. State the uses of tin.				
		4th		Extraction of Metals from Sulphide Ores				
		5th		Describe the process of roasting of copper ore. Describe the process of matte smelting				
		3rd		Explain the process of converting of copper matte. Explain the refining of copper. State the uses of copper.				
	2nd			Durga Puja holiday				
	3rd	3rd		Explain roasting and sintering of lead ore. Explain the process of extraction of lead by blast furnace smelter				
		4th	UINT-4	Describe in detail the process of refining of base bullion. State the uses of lead.				
		5th		Describe the roasting of zinc ore concentrate. Explain how zinc is extracted by vertical retot process. Explain the refining of zinc				
		3rd		Explain the process of leaching and preparation zinc base solution Describe the electrolysis of zinc solution State the uses of zinc				
<u> </u>	4th	4th		Explain the roasting of nickel ore. Explain the method of smelting of nickel concentrate.				
OCTOBER		5th	UNIT-5	Explain the method of refining of nickel State the uses of nickel.				
) CT		3rd		Extraction of Metals from Halides				
5		4th		Describe extraction of titanium Explain the type of treatment given to titanium ore.				
	5th		UNIT-6	Explain the process of chlorination and mag. reduction for titanium extraction. Explain the				
		3rd		process of refining of titanium (distillation) State the uses of titanium				
				Diwali (holiday)				
		4th		Extraction of Precious Metals				

		5th		Extraction of Precious Metals
	6th	3rd		Extraction of Precious Metals  Extraction of Precious Metals
	otn	3rd	UNIT-7	Extraction of Precious Metals  Extraction of Precious Metals
œ	1st	4th	UNII-7	Extraction of Precious Metals  Extraction of Precious Metals
		5th		Explain extraction of gold.
	2nd	4th		Explain extraction of gold.
		5th		Explain extraction of gold.
				Rash purnima(holiday)
		4th	UNIT-8	Explain extraction of gold.
NOVEMBER		3rd		Explain extraction of gold.
Æ	3rd	4th		Explain the process of cyanidation for gold extraction
Ó	Sia	5th		Explain the process of cyanidation for gold extraction
		3rd		Explain the process of cyanidation for gold extraction
		2nd		Internal assesment
	4th	3rd		Internal assesment
	401	4th	UNIT-9	Explain the process of cyanidation for gold extraction
		5th		Explain the elementary pinciple of froth flotation.
	e.i.	3rd		Explain the practical utility of frothre, collector
	5th	4th		State the uses of gold.
	1st	3rd		State the uses of gold.
		4th		State the uses of gold.
		5th		State the uses of gold.
	2.4	3rd		Production of Secondary Metals
	2nd	4th		Production of Secondary Metals.
DECEMBER		1st		CLASS TEST-1
ME		3rd	UNIT-10	Production of Secondary Metals
DECI		4th		Production of Secondary Metals
_	3rd	5th		Production of Secondary Metals
		3rd		Explain the process of production of copper, lead
	4th	3rd		Explain the process of production of copper, lead
		4th		Zinc &. aluminum metals from scraps.
		5th		Zinc &. aluminum metals from scraps.
	1st	1st		Revision on unit 1-5
		2nd		Revision on unit 1-5
		4th		Revision on unit 1-5
		4th		Revision on unit 6-10
	2nd	3rd		Revision on unit 6-10
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JANU	3rd	4th	Previous year question discussion
		3rd	Previous year question discussion
		1st	Previous year question discussion
	4th	4th	Previous year question discussion
		3rd	Previous year question discussion
		2nd	Previous year question discussion