LESSON PLAN							
DISCIPLINE - METALLURGICAL ENGINEERING SUBJECT - NON FERROUS METALLURGY SUB CODE- Th. 5		SEMESTER - 5 <sup>th</sup> semester		NAME OF THE TEACHING FACULTY- Miss  Bhagyashree Bal			
		NO OF DAYS/ WE	EK CLASS	SEMESTER FROM DATE: - 13-8-24 TO 08-11-24			
		THE THE UT		Articles (1977) Because Articles (1977)			
MONTH	WEEK	NO. OF	CLASS	THEORY TOPIC			
		PERIODS AVAILABLE	DAY	11, agr y - 40 ; 24.5			
	1 <sup>st</sup>	03P	13-08-24	1.0- Introduction and Discuss non –			
				ferrous ores reserve in India			
		"	-11-2-11-11-11-11-11-11-11-11-11-11-11-1				
			13-08-24	2.1- Details about Aluminium			
			17-08-24	2.1.1-Extraction of Aluminium i.e.,			
				Bayer's process of alumina production 2.1.2- Explaning fused salt electrolysis			
				of alumina by Hall Heroult process			
	2 <sup>nd</sup>	03P	20-08-24	2.1.3-Explain the method of refining of			
	2	031	20 00 21	aluminium			
			20.00.24	2.1.4. ( ) de la seria follominium			
AUG			20-08-24	2.1.4- state the uses of aluminium			
			24-08-24	2.2.1- Details about tin & explain the			
				process of tin ore concentrate			
	3 <sup>rd</sup>	02P	27-08-24	2.2.2-Explain the process of			
		-	4	concentrate smelting tin extraction			
	-		27-08-24	2.2.3-Describe the process of refining			
n H	48			of tin and its uses			
	4 <sup>th</sup>	01P	31-08-24	2.1 D. t. Hard Car & Fritzentian of			
	, a = 1	4 ,		3.1- Details about Cu & Extraction of			
	ser.	,		copper 3.1.1-Describe the process of roasting			
				of copper ore			
	5 <sup>th</sup>	03P					
	50		02-09-24	3.1.2-Describe the process of matte			
				smelting for cu ore			
		,	·.	2.1.2. 5. 1.3. 4.5			
		7.		3.1.3- Explain the process of converting of copper matte			
	1	*	03-09-24	3.1.4- Explain the process of refining			
	6.0	A B	03-03-24	of copper			
_ = ='=			03-09-24	3.1.5- State the uses of copper			
			, -				
SEPT	6 <sup>th</sup>	04P	09-09-24	3.2- Pyrometallurgical extraction of			
a 2		,		lead			
			10-09-24	3.2.1-Explain roasting and sintering of			
				lead ore			
YOU ARE COME AND			10-09-24	3.2.2-Explain the process of extraction			
			14.00.04	of lead by blast furnace smelter			
			14-09-24	3.2.3- Describe in detail the process of refining of base bullion			
		03P	17-09-24	3.2.4-state the uses of lead			
		USF	17-09-24	J.Z.T-State the abos of feat			

			17-09-24	3.3-Describe the extraction of Zinc by	
				pyrometallurgical and	
	7 <sup>th</sup>			hydrometallurgical method	
			21-09-24	3.3.1- Describe the roasting of zinc ore	
				concentrate	
				3.3.2-Explain how zinc is extracted by	
				vertical retort process	
	8 <sup>th</sup>	04P	23-09-24	3.3.3- Explain the refining of zinc	
			24-09-24	3.3.4- Explain the process of leaching	
				& preparation of zinc base solution	
			24-09-24	3.3.5- Describe the electrolysis of zinc	
				solution	
			28-09-24	3.3.6-State the uses of zinc	
	9 <sup>th</sup>		30-09-24	3.4-0 Pyrometallurgical method of	
		01P		ckel extraction	
			01.10.01		
	10 <sup>th</sup>	03P	01-10-24	·	
			21.12.21	ore	
			01-10-24		
	-			of nickel concentrate	
			05-10-24	-	
				nickel	
	11 <sup>th</sup>	04P	14-10-24		
			15-10-24	i c i c II-lidea	
			15-10-24	2	
			19-10-24	4.1- Extraction of Titanium	
OCT	12 <sup>th</sup>	04P	21-10-24	4.1.1- Describe extraction of titanium	
	-		22-10-24		
				given to titanium ore	
			22-10-24	4.1.3- Explain the process of	
				chlorination & mag. Reduction for	
				titanium extraction	
			26-10-24		
				titanium (distillation)	
	13 <sup>th</sup>	01P	28-10-24	4 4.1.5- State the uses of titanium	
	13	"		5.0-Extraction of precious metals	
	14 <sup>th</sup>	02P	02-11-2	4 5 1- Explain extraction of Gold	
	14"	021	04-11-2	4 5.2- Explain the process of cyanidation	
				for gold extraction	
NOV	4	020	05-11-2	4 5 3- state the uses of gold	
	16 <sup>th</sup>	02P	05-11-2	Cassandam metals	
			05-11-2		

Bhagyashree Bay Prepared by Bhagyashree Bal, LECT., METALLURGY OSME, KEONJHAR