LESSON PLAN									
e: Metallurgy ering  ject: neral Processing Sub code: Th.2			Semester:	Name of the Teaching Faculty:					
			3rd semester  No of days /week class allotted:04/week	Mr Subrat Kumar Behera  Semester from Date: 15/09/2022 to 22/12/2022 No of weeks: 16					
					Month	Week	No of periods available	Class Day	Theory topics to be covered
						1 st	02P	15-09-22	Briefing about the Syllabus
			16-09-22	Describe crushing operations					
	2 <sup>nd</sup>	04P	19-09-22	Explain the type of crushers:Blake and Dodge jaw Crushers Describe capacity and reduction ratio of crusher					
			20-09-22	Explain in details gyratory and roll crushers					
			21-09-22	Explain the principle of operation of gyratory and roll crushers					
			23-09-22	Classify different types of grinding equipment					
	3rd	04P	26-09-22	Classify different types of grinding equipment					
_			27-09-22	Explain the ball mill operations					
September			28-09-22	State the difference between open circuit and close circuit grinding					
Sep			30-09-22	Revision					
	4 <sup>th</sup>	02P	06-10-22	State the difference between dry grinding and wet grinding					
			07-10-22	Explain the methods of size analysis Explain in details Rotap sieve shaker					
October	5 <sup>th</sup>	04P		Describe different types of standard screens with screening techniques  Explain the principle of screening Classify types of					
			10-10-22	Explain the effectiveness, capacity, efficiency of Industrial screens					
			11-10-22	Explain different types of classifiers and their applications					
				Explain the effectiveness, capacity, efficiency of Industrial screens Explain different types of classifiers and their					
			12-10-22	applications					
			14-10-22	Revision					
	6 <sup>th</sup>	04P	17-10-22	Monthly Test					
	10000		18-10-22	Define jigging					

	1			Describe the feature off the state of the st
	/			Describe the factors affecting stratification in jigs
	1		19-10-22	Define jigging
	/		13-10-22	Describe the factors affecting stratification in jigs  Define jigging
			21-10-22	Describe the factors affecting stratification in jigs
	7th	04P	25-10-22	Explain the different industrial process using heavy liquid
				and the same of th
			26-10-22	Explain the different industrial process using heavy liquid
			28-10-22	Du - Pont process, chance process
			31-10-22	
	8th	03P	01-11-22	Du - Pont process, chance process
			02-11-22	Define are froth and skin flotation
			04-11-22	Explain the elementary principle of froth flotation
	9th	03P	07-11-22	Explain the elementary principle of froth flotation
			09-11-22	Explain the practical utility of frother, collector, modifier, activators, depressant ( without physic – chemical Principle)
			05-11-22	Explain the practical utility of frother, collector, modifier,
				activators, depressant ( without physic – chemical
er			11-11-22	Principle
	10 <sup>th</sup>	04P	14-11-22	— Revision
			15-11-22	
			16-11-22	Internal assessment/Class Test
mb			18-11-22	
November	11 <sup>th</sup>	04P	21-11-22	Explain the practical utility of frother, collector, modifier, activators, depressant ( without physic – chemical Principle)
			22-11-22	Explain the practical utility of frother, collector, modifier, activators, depressant ( without physic – chemical Principle)
			22-11-22	Explain the practical utility of frother, collector, modifier,
				activators, depressant ( without physic – chemical
			23-11-22	Principle)
			20 11 11	Explain the practical utility of frother, collector, modifier, activators, depressant ( without physic – chemical
		1	25-11-22	Principle)
	12 <sup>th</sup>	03P	25 11 11	Explain the practical utility of frother, collector, modifier,
				activators, depressant ( without physic – chemical
		The State of the	28-11-22	Principle)
		1 13 13 13 13 13		Describe the application with practical examples of froth
	Carlotte Congression		29-11-22	flotation process

/			30-11-22	Describe the application with practical examples of froth flotation process
	13 <sup>th</sup>	01P	02.12.2022	Monthly Test
	14 <sup>th</sup>	04P	05-12-22	Describe different types of flotation cells
			06-12-22	Describe different types of flotation cells
			07-12-22	Explain the principles of magnetic and Electrostatic separator with their application to mineral dressing
1			09-12-22	
December	15 <sup>th</sup>	04P	12-12-22	Explain the principles of magnetic and Electrostatic separator with their application to mineral dressing
cer			13-12-22	
De			14-12-22	
			16-12-22	
	16 <sup>th</sup>	04P	19-12-22	Revision & Doubt Clearing Class
			20-12-22	
			21-12-22	

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