ORISSA SCHOOL OF MINING ENGINERRING

At/ Po: Keonjhar Dist.: Keonjhar Odisha- 758001

Website: www.osme.co.in E-mail: osme_keonjhar@yahoo.com Contact: 9853274417

			D		MINING ENGINEERING
Die	ciplino: I	Mining Engine			SON PLAN
DIS	cipilile: i	Mining Engi	neering	Semester:6th	Treating faculty. Ghanshyam Dhurua
Subject: Mineral Dressing				No of Days/Week class allotted: 4	Semester from Date: 14/2/2023 To Date: 23/5/202 No of weeks: 15
Month	Week	Nos. of Period Available	Class Day	CHAPTER	Topics
	1st	3	16.02.23	1.0 Introduction	Introduction to Syllabus and Subject
6			16.02.23		Describe the objective & scope of application of mineral dressing in surface mines & u/g mines.
FEB			17.02.23	- 20	Explain the principle of Blake jaw crushers.
	2nd	4	20.02.23	Unit Operation	Explain the principle of dodge jaw crushers.
			23.02.23		Explain the principle of gyratory & cone crushers.
			23.02.23		Explain the principle of roll crusher.
			24.02.23		Explain the principle of ball mill operation.
	3rd	4	27.02.23	3.0 Grinding	Discuss open circuit grinding.
			02.03.23		Discuss Close circuit grinding.
			02.03.23		Explain dry & wet grinding.
			03.03.23	-	Explain dry & wet grinding.
	4th	4	06.03.23	4.0 Size analysis & use of standard screen	Explain the procedure for size analysis
			09.03.23		Explain the procedure for size analysis
			9.03.23		Explain the use of standard screen as also screening
					techniques employed
			10.03.23		Explain the use of standard screen as also screening techniques employed
MAR	5th	4	13.03.23	5.0 Industrial screening	Explain the principle of industrial screening
			16.03.23		Explain the principle of industrial screening
			16.03.23		type of screening (without calculation)
			17.03.23		type of screening (without calculation)
h		4	20.03.23		Explain the operation of classifier & their application.
	6th		23.03.23		MONTHLY CLASS TEST 1
			23.03.23	6.0 Gravity	Explain the operation of classifier & their application.
			24.03.23		Explain the general principles of wilfly table & its operation.
	7th	3	27.03.23	concentration	Explain the general principles of wilfly table & its operation. operation.
			31.03.23		Explain the fundamental principle of heavy media separation – Chance process

/	1			7.0	
			31.03.23	7.0	Explain the fundamental principle of heavy media
500 				8.0 Floatation	separation – Chance process
APR		3	03.04.23		Explain the fundamental principle of heavy media
	8th		06.04.22		separation – Chance process
			06.04.23		Comprehend elementary principle of froth floatation
			06.04.23		Comprehend elementary principle of froth floatation
	9th	3	10.04.23		Comprehend elementary principle of froth floatation
			13.04.23		Practical utility of frother.
			13.04.23		Practical utility of frother.
	10th	4	17.04.23		Practical utility of frother.
			20.04.23		Utility of frother, collection, modifiers & depressants.
			20.04.23		Utility of frother, collection, modifiers & depressants.
			21.04.23		Utility of frother, collection, modifiers & depressants.
	11th	4	24.04.23		Describe & illustrate floatation cell.
			27.04.23		Describe & illustrate floatation cell.
			27.04.23		Describe & illustrate floatation cell.
			28.04.23		Describe & illustrate floatation cell.
MAY	12th	3	1.05.23		Internal Assessment
			4.05.23		Describe & illustrate floatation cell.
			4.05.23		MONTHLY CLASS TEST 2.
	13th	4	8.05.23	9.0 Magnetic & Electrostatic Separators	Explain the principle of operation of magnetic
					separators.
			11.05.23		Explain the principle of operation of magnetic
					separators.
			11.05.23		Explain the principle of operation of electrostatic
					separators
			12.05.23		Explain the principle of operation of electrostatic
					separators
	14th	3	15.05.23		Describe the application of separators in mineral dressing.
					Describe the application of separators in mineral
			18.05.23		dressing.
			18.05.23		previous year question discussion
	15th	1	22.05.23		previous year question discussion
	13011		22.03.23		previous year question discussion

Prepared By-

Ghanshyam Dhurua Sr. Lect.(Mining) OSME,Keonjhar

Mining Engg.
OSME,Keonjhar

Principal OSME,Keonjhar