ORISSA SCHOOL OF MINING ENGINERRING

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tu wi			DEPART	MENT OF MINING ENGINEERING
				LESSON PLAN
Discipline: MINING ENGG. Semester 5th			Semester: 5th	Name of the Teaching faculty: Rajiv Lochan Bal
Subject: MINE MACHINERY – I Subject Code- TH4			No of Days/Week class alloted: 4	Semester from Date: 15/9/2022 22/12/22 No of weeks: 14 No. of Period Avaliable: 50
Month	Week	No of periods available	Class Day	Theory topics to be covered
.	1st	2P	17.9.22	Briefing About the Syllabus Wire Rope State the types of wire ropes used in Mines.
			17.9.22	State the types of wire ropes used in Mines.
September		4P	19.9.22	Explain lay of wire ropes.
pte	2-4		20.9.22	Explain lay of wire ropes.
Se	2nd		24.9.22	Define factor of safety to wire ropes nominal.
			24.9.22	Define actual factor of safety of wire ropes.
	3rd	4P	26.9.22	State factors influencing the F.O.S.
			27.9.22	State factors influencing the F.O.S.
			1.10.22	State efficiency of rope construction, space factor & cross sectional area rope.
			1.10.22	Class test-01
	4th	4P	10.10.22	State factors affecting deterioration of ropes.
100			11.10.22	State factors affecting deterioration of ropes.
-			15.10.22	Describe care & maintenance of ropes.
October			15.10.22	Describe care & maintenance of ropes.
	5th	4P	17.10.22	State & describe testing & examination of wire ropes.
			18.10.22	Give the procedure of splicing of wire rope
			22.10.22	Give the procedure of splicing of wire rope
			22.10.22	Monthly Test-01 Test results & Discussion
	6th	3P	25.10.22	Describe rope capel for haulage winding & recapping.
			29.10.22	Rope Haulage Transportation in mines by rope haulage.
			29.10.22	State type of rope haulage
	7th	4P	31.10.22	Describe various types of rope haulage with simple sketches.

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November			1.11.22	State & describe different type of safety devices on rope haulage roadways.
	Control of the Contro		5.11.22	State & describe different types of clips & couplings.
			5.11.22	Headgear State function of headgear.
	8th	3P -	7.11.22	Describe constructional features of headgear pulley.
			12.11.22	Define angle of fleet.
	otn		12.11.22	Cage & Shaft Fittings Describe cage, cage suspension gear.
		4P	14.11.22	Internal Assessments/Class test
	9th		15.11.22	Describe detaching hooks & its function, safety catch at headgear & keps.
			19.11.22	State types of guide.
			19.11.22	State & describe rigid guide & flexible guide
		4P	21.11.22	State & describe guide rope suspension & tensioning arrangement.
December	10th		22.11.22	Winding Drum State different profiles of winding Drum.
			26.11.22	Describe different types of winding brake.
			26.1122	Describe various types of safety devices on winding system.
	11th	4 P	28.11.22	Describe various types of safety devices on winding system.
			29.11.22	Friction Winding State & describe principle & constructional features of ground- mounted koepe winder.
			3.12.22	State & describe principle & constructional features of tower-mounted koepe winder.
			3.12.22	State advantages & disadvantages of koepe winding.
	12th	4P	5.12.22	Describe multirope system of koepe winding.
			6.12.22	Skip Winding Describe constructional features bottom discharge skip, Top discharge skip
			10.12.22	Compare skip winding cage winding.
			10.12.22	Pit top and pit bottom layout State factors affecting pit top & pit bottom layouts.
		4P	12.12.22	CLASS TEST 2
			13.12.22	Describe different types of pit top & pit bottom car/tub circuit layouts.
	13th		17.12.22	Describe different types of pit top & pit bottom car/tub circuit layouts.
			17.12.22	Describe different types of pit top & pit bottom car/tub circuit layouts.
	14th	2P	19.12.22	Revision & Previous year question & answer discussion
			20.12.22	Revision & Previous year question & answer discussion

Prepared By Rajiv Lochan Ba Lect.(Mining)
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