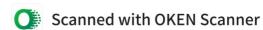
SYNERGY SCHOOL OF ENGINEERING LESSON PLAN

Session (2005-26)

Discipline:	Semester:	Name of the Teaching Faculty:	
Mining Engineering	34.Winter/ 2025	Biswambar Majhi,	
		Lecturer	
		Email ID biswambarmajhikjr@gmail.com	
Subject:	No. of	Start Date: 14/07/25	
Mine Machinery - 1, Theory-	Days/Week: 04	End Date: 15/11/25	
	-		

Week	Class Day	Theory Topics	
ls	lst	State the types of wire ropes used in Mines.	
	2nd	State the types of wire ropes used in Mines.	
	3rd	Describe constructional features of wire ropes& lay of wire ropes.	
	4th .	Define factor of safety to wire ropes nominal & actual factor of safety of wire ropes.	
2nd	1st `	Define factor of safety to wire ropes nominal & actual factor of safety of wire ropes.	
	2nd	State factors influencing the F.O.S.	
	3rd	State factors influencing the F.O.S.	
	4th	State efficiency of rope construction, space factor & cross sectional area rope.	
3rd	1st	State efficiency of rope construction, space factor & cross sectional area rope	
	2nd	State factors affecting deterioration of ropes.	
	3rd	State factors affecting deterioration of ropes.	
	4th	Describe care & maintenance of ropes.	
4th	Ist	State & describe testing & examination of wire ropes.	
	2nd	Give the procedure of splicing of wire rope	
	3rd	Give the procedure of splicing of wire rope	
	4th	Describe rope capel for haulage winding & recapping	
5th	İst	Describe rope capel for haulage winding & recapping	
J.	2nd	Describe rope capel for haulage winding & recapping	
	3rd	Describe rope capel for haulage winding & recapping	
	4th	Assignment & Surprise Test	
6th	lst	Transportation in mines by rope haulage	
	2nd	State type of rope haulage	
	3rd	Describe various types of rope haulage with simple sketches	
	4th	Describe various types of rope haulage with simple sketches	
7th	lst	State & describe different type of safety devices on rope haulage roadways	





ngganik (Lagarin mangang Inggana), minimpoliting manang manang italiah	2nd	State & describe different types of clips & couplings.	
	311	State & describe different types of clips & couplings.	
	4th	State function of headgear.	
denim nen emperer en en entre de la companya de la	a de la companya de l	Describe constructional features of headgear pulley.	
diagnate man vintropio	na n	Describe constructional features of headgear pulley.	
	Living Section was a control of the property of the first for	Define angle of fleet	
	3nl 4th	Describe cage, cage suspension gear, detaching hooks & its function, safety	
		eatch at headgear & keps	
The state of the s	lst	Describe cage, cage suspension gear, detaching hooks & its function, safety catch at headgear & keps	
	211	State types of guide.	
	3rd	State & describe rigid guide, flexible shoes, guide rope suspension & tensioning arrangement	
	4th	State & describe rigid guide, flexible shoes, guide rope suspension & tensioning arrangement	
10th	lst	State different profiles of winding Drum	
2nd	2nd	Describe different types of winding brake.	
	3rd	Describe various types of safety devices on winding system	
	4th	State & describe principle & constructional features of ground-mounted & tower-mounted koepe winder	
2r 3r	lst	State & describe principle & constructional features of ground-mounted & tower-mounted koepe winder	
	2nd	State advantages & disadvantages of koepe winding.	
	3rd	Describe multirope system of koepe winding	
	4th	Describe multirope system of koepe winding	
12th	lst	Describe constructional features bottom discharge skip, Top discharge skip.	
	2nd	Describe constructional features bottom discharge skip, Top discharge skip	
	3rd	Compare skip winding cage winding.	
	4th	State factors affecting pit top & pit bottom layouts.	
13th	lst	State factors affecting pit top & pit bottom layouts.	
	2nd	State factors affecting pit top & pit bottom layouts.	
	3rd	Describe different types of pit top & pit bottom car/tub circuit layouts.	
	4th	Describe different types of pit top & pit bottom car/tub circuit layouts.	
14th	1st	Describe different types of pit top & pit bottom car/tub circuit layouts.	
	2nd	Previous yr question discussion based on ch 1	
	3rd	Previous yr question discussion based on ch 2	
	4th	Previous yr question discussion based on ch3	
15th	lst	Previous yr question discussion based on ch 4	
	2nd	Previous yr question discussion based on ch 5	
	3rd	Previous yr question discussion based on ch 6	
	4th	Previous yr question discussion based on ch 7& 8	

Signature of Faculty

Synergy School of Engineering Dhenkanal

Signature of HOD HOD Maring Eroy Der .. SSE, Onenkanal