

3rd Sem - Exam

Subj: - Open cast mining methods.

S.No	Serial No	Module	Lect Details	Lect Date	Status
1	1/1	Choice of open cast mining	State factor affecting choice of open cast mining method.	12/9/22	copy
2	1/2	-do-	State factor affecting choice of open cast mining method.	13/9/22	copy
3	1/3	-do-	Defining stripping ratio and determining overburden/ore ratio.	17/9/22	copy
4	1/4	-do-	Determining cut off stripping ratio.	18/9/22	copy
5	1/5	-do-	Determining quarryable limit.	19/9/22	copy
6	1/6	-do-	Describe favorable conditions for mechanised open cast mining.	20/9/22	copy
7	1/7	-do-	Describe favorable conditions for mechanised open cast mining.	21/9/22	copy
8	1/8	-do-	Explaining limitations of large open pits.	23/9/22	copy
9	1/9	-do-	Defining box cut and determining the location of box cut.	26/9/22	copy
10	1/10	-do-	Defining box cut and determining the location of box cut.	27/9/22	copy
11	2/1	Benching	Determining height of bench.	29/9/22	copy
12	2/2	-do-	Determining width of bench.	30/9/22	copy
13	2/3	-do-	Determining slope of the bench.	10/10/22	copy

2nd semester
 sub: - Mine Survey-1

Sl. No.	Lect. No.	Module	Lect. Details	Lecture Date	Status
1	1/1	chain surveying.	Explaining survey conventional signs, abbreviations used, standards of lining, inking and coloring.	12/9/22	Copied
2	1/2	- do -	Describing selection of sections work.	13/9/22	Copied
3	1/3	- do -	Describing principle of chain surveying, instruments used and checking their correctness.	15/9/22	Copied
4	1/4	- do -	explaining ranging and chaining of a line and calculation of error in chaining.	16/9/22	Copied
5	1/5	- do -	Describing obstruction while chaining and describing chaining along a sloping ground.	19/9/22	Copied
6	1/6	- do -	Describing obstruction while chaining and describing chaining along a sloping ground.	20/9/22	Copied
7	1/7	- do -	Describing use of optical square and line range and checking optical square for correctness.	22/9/22	Copied
8	1/8	- do -	Explaining offsets and their measurement and reference sketches of stations.	23/9/22	Copied
9	1/9	- do -	Explaining procedure of chain surveying.	26/9/22	Copied
10	1/10	- do -	explaining field booking and plotting of chain surveying.	27/9/22	Copied

Sub: Physical Geology - I

S.No	Lesson No	Module	Lect. Details -	Lect Date	Status
1	1/1	Physical Geology	Defining weathering and erosion.	12/9/22	Completed
2	1/2	-do-	Defining weathering and erosion	14/9/22	Completed
3	1/3	-do-	Explaining with suitable sketches the erosional and depositional land forms produced by winds.	15/9/22	Completed
4	1/4	-do-	Explaining with suitable sketches the erosional and depositional land forms produced by wind	16/9/22	Completed
5	1/5	-do-	Explaining with suitable sketches the erosional and depositional land forms produced by winds.	19/9/22	Completed
6	1/6	-do-	Explaining with suitable sketches the erosional and depositional land forms produced by rivers.	21/9/22	Completed
7	1/7	-do-	Explaining with suitable sketches the erosional and depositional land forms produced by rivers.	22/9/22	Completed
8	1/8	-do-	Explaining with suitable sketches the erosional and depositional land forms produced by rivers.	23/9/22	Completed
9	1/9	-do-	Explaining with suitable sketches the erosional and depositional land forms produced by rivers.	26/9/22	Completed

3rd Semester

Sub: mechanical operations in stress -

S.No	Exam No	Module	Lect. Details	Lead Date	Status
1	1/1	Strength of materials and Power Transmission	Defining Elasticity, Hooke's law and Limit of proportionality.	12/9/22	Completed
2	1/2	-do-	Defining Young's modulus, factor of safety and Lateral strain and Poisson's ratio	13/9/22	Completed
3	1/3	-do-	Explain stress-strain curve for ductile materials.	14/9/22	Completed
4	1/4	-do-	Explaining the effect of axial load on bar of uniform section and variable sections.	15/9/22	Completed
5	1/5	-do-	Solving numerical problems on axial load on bar of uniform section or variable sections.	17/9/22	Completed
6	1/6	-do-	Defining bending moment and shear force	20/9/22	Completed
7	1/7	-do-	Explaining types of beam and types of loading.	21/9/22	Completed
8	1/8	-do-	Explaining shear force diagram and bending moment diagram for a cantilever with concentrated loading.	22/9/22	Completed
9	1/9	-do-	Explaining shear force diagram and bending moment diagram for a cantilever with U.D.L over whole span.	26/9/22	Completed
10	1/10	-do-	Explaining shear force diagram and bending force diagram for a simply supported beam with concentrated load.	27/9/22	Completed

Subj: - Environment and Studies.

Sl. No.	Lect. No.	Module	Lect. Details.	Lect. Date	Status
1	1/1	Multi disciplinary nature of environmental studies	Definition, scope and importance of environmental studies.	17/9/22	Completed
2	1/2	- do -	Definition, scope and importance of environmental studies.	13/11/22	Completed
3	1/3	- do -	Need for public awareness on environment	14/9/22	Completed
4	1/4	- do -	Need for public awareness on environment.	15/9/22	Completed
5	2/1	Natural Resources.	Defining renewable and non-renewable resources.	19/9/22	Completed
6	2/2	- do -	Forest resources: Use and over-exploitation, deforestation, case studies, timber extraction, mining, dams and their effects on forests and tribal people.	20/9/22	Completed
7	2/3	- do -	Forest resources: Use and over-exploitation, deforestation, case studies, timber extraction, mining, dams and their effect on forest and tribal people.	21/9/22	Completed
8	2/4	- do -	Water resources: Use and over-utilisation of water, ground water, floods, droughts, conflicts over water, dams, benefits and problems.	22/9/22	Completed
9	2/5	- do -	Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources.	26/9/22	Completed

3rd Semester

Subj:- more survey-1 Lab.

S/N	Lect No	Module	Lect. Details	lect date	status
1	1/1	chain surveying.	Ranging a line more than 100 m in length and measuring its correct length applying corrections.	15/9/22	compl
2	1/2	-do-	Taking offsets of objects on both sides of a line and plotting the above	22/9/22	compl
3	1/3	-do-	Overcoming obstructions in chaining: - vision free, chaining obstructed (pond, river) - chaining free, vision obstructed (Raising ground) - Both vision and chaining obstructed (Building)	29/9/22	compl
4	1/4	-do-	Measuring on sloping ground	30/9/22	compl
5	1/5	-do-	Chain surveying and plotting of small plot by triangulation.	13/10/22	compl
6	2/1	Compass survey	Finding bearing of line & applying check	15/10/22	compl
7	2/2	-do-	Closed traversing of a small plot with station	20/10/22	compl
8	2/3	-do-	Plotting both the above traverses applying connection.	21/10/22	compl
9	2/4	-do-	Open traversing of a small length with few station.	27/10/22	compl
10	2/5	-do-	Plotting the above traverse applying correction.	29/10/22	compl
11	3/1	Levels.	Temporary and permanent adjustment of different types of levels.	10/11/22	compl

3rd semester

Sub: - mine geology - 1 lab.

S.No.	Lect No.	Module	Lect. Details.	Lect Date	Status.
1	1/1	Identification of minerals	Identification of rock forming and ore mineral in hand specimens	12/9/22	complete
2	1/2	- do -	Identification of rock forming and ore minerals in hand specimens.	16/9/22	complete
3	1/3	- do -	Identification of rock forming and ore minerals in hand specimens.	19/9/22	complete
4	1/4	- do -	Identification of rock forming and ore minerals in hand specimens.	23/9/22	complete
5	1/5	- do -	Identification of rock forming and ore minerals in hand specimens.	26/9/22	complete
6	1/6	- do -	Identification of rock forming and ore minerals in hand specimens	30/9/22	complete
7	1/7	- do -	Identification of rock forming and ore minerals in hand specimens	10/10/22	complete
8	1/8	- do -	Identification of rock forming and ore minerals in hand specimens.	14/10/22	complete
9	1/9	- do -	Identification of rock forming and ore minerals in hand specimens.	17/10/22	complete
10	1/10	- do -	Identification of rock forming and ore minerals in hand specimens.	21/10/22	complete

Sl. No.	Lect No	Module	Lab Details	Lab Date	Status
1	1/1	Verify Bernoulli's theorem	Bernoulli's theorem by Bernoulli's verification apparatus	13/9/22	Completed
2	1/2	-do-	Bernoulli's theorem by Bernoulli's verification apparatus	14/9/22	Completed
3	1/3	-do-	Bernoulli's theorem by Bernoulli's verification apparatus	20/9/22	Completed
4	1/4	-do-	Bernoulli's theorem by Bernoulli's verification apparatus	21/9/22	Completed
5	1/5	-do-	Bernoulli's theorem by Bernoulli's verification apparatus	27/9/22	Completed
6	2/1	Determine rate of flow of air	Determine rate of flow through the venturimeter set up	26/9/22	Completed
7	2/2	-do-	Determine rate of flow through the venturimeter set-up	11/10/22	Completed
8	2/3	-do-	Determine rate of flow through the venturimeter set up	12/10/22	Completed
9	2/4	-do-	Determine rate of flow through the venturimeter set-up	18/10/22	Completed
10	2/5	-do-	Determine rate of flow through the venturimeter set up	19/10/22	Completed
11	3/1	Conduct of tensile test of a mild steel specimen	conduct of tensile test of a mild steel specimen and plot a stress-strain curve showing yield phenomenon.	20/10/22	Completed