

4th Semester
Subj: Under ground Coal mining

Sl. No	Lecture	Module	Cont Details	Self Study	Status
1	1/1	Introduction to underground Coal mining	Define mine and different method of mining	1/1/23	Completed
2	1/2	- do -	classify underground coal mining method	1/2/23	Completed
3	1/3	- do -	classify underground coal mining method	20/1/23	Completed
4	1/4	- do -	classify underground coal mining method	21/1/23	Completed
5	2/1	Board and Pillar method.	Describe various application of board and pillar method	22/1/23	Completed
6	2/2	- do -	Describe various application of board and pillar method	25/1/23	Completed
7	2/3	- do -	Describe various application of board and pillar method	27/1/23	Completed
8	2/4	- do -	Describe various application of board and pillar method.	28/1/23	Completed
9	2/5	- do -	Describe depillering method of stowing and caving	29/1/23	Completed
10	2/6	- do -	Describe depillering method of stowing and caving	31/1/23	Completed
11	2/7	- do -	Describe depillering method of stowing and caving	01/2/23	Completed
12	2/8	- do -	Depillering precaution against fire & water during and after depillering	9/2/23	Completed
13	2/9	- do -	Describe precaution against fire & water during and after depillering	11/2/23	Completed

YAN Semester
 Subsidiary Survey - II

Sl. No.	Lesson	Module	Lect. Details	Cell Date	Status
1	1/1	Tacheometry	Define stadia and its principle	14/1/23	Completed
2	1/2	-do-	Explain diaphragm, reticulated	15/1/23	Completed
3	1/3	-do-	Explain tachometer	16/1/23	Completed
4	1/4	-do-	Explain instrument constants	20/1/23	Completed
5	1/5	-do-	Explain to find out height and distance from stadia intercepts.	21/1/23	Completed
6	1/6	-do-	Explain to find out height and distance from stadia intercepts.	22/1/23	Completed
7	1/7	-do-	Explain to find out height and distance from stadia intercepts.	23/1/23	Completed
8	1/8	-do-	Explain tangential systems	27/1/23	Completed
9	1/9	-do-	Describe movable hair method	28/1/23	Completed
10	1/10	-do-	Describe movable hair method.	1/2/23	Completed
11	2/1	Triangulation & Trilateration	Explaining purpose and principle involved in triangulation and trilateration methods.	2/2/23	Completed
12	2/2	-do-	Classify method of triangulation, its survey primary secondary and tertiary collinear triangulation.	6/2/23	Completed
13	2/3	-do-	Classify method of triangulation, its survey primary secondary and tertiary collinear triangulation.	9/2/23	Completed
14	2/4	-do-	Classify method of triangulation, its survey primary secondary and tertiary collinear triangulation.	12/2/23	Completed

Sl. No.	Lesson	Module	Lect. details	Unit	Status
1	1/1	Natural ventilation	Define natural ventilation and factors affecting natural ventilation	14/23	unit
2	1/2	-do-	Describe different type of thermometric barometer	15/23	unit
3	1/3	-do-	Describe kula thermometer	16/23	unit
4	1/4	-do-	Describe water gauge and calculate water gauge ventilation pressure using pitot static tube	17/23	unit
5	1/5	-do-	Explain effect of heat and humidity.	21/2/23	unit
6	1/6	-do-	Explain natural ventilation, motive column, geothermo gradient	02/2/23	unit
7	1/7	-do-	Enumerate laws of-minority friction & solve problem with.	23/2/23	unit
8	1/8	-do-	Describing statutory provision as per CMA 2017 and mnr-1961	27/2/23	unit
9	2/1	Reversing and distribution	Describe ventilation stopping, air crossing ventilation door and brattice partition	28/2/23	unit
10	2/2	-do-	Describe ventilation stopping, air crossing ventilation door and brattice partition	11/3/23	unit
11	2/3	-do-	Describe different type of ventilation	21/3/23	unit
12	2/4	-do-	Explain ascension and descension ventilation	06/3/24	unit
13	2/5	-do-	Explain homotropical and anti tropical ventilation	9/3/24	unit
14	2/6	-do-	Explain boundary ventilation	12/3/24	unit

4th Semester

Subj: - ~~Electrical~~ Electrical Equipment in mines.

Sl. No.	Cont. No.	Module	Unit - Details	Cont. Date	Status
1	1/1	Electrical cable terminology use	Classifying cables for mining use	14/1/23	Exam
2	1/2	-do-	Explaining constructional features of high tension and low tension cables, armor and trailing cable	15/1/23	Exam
3	1/3	-do-	Describe size of cable and their use	17/1/23	Exam
4	1/4	-do-	Describe procedure of cable laying at surface and underground roadway & in shafts.	20/1/23	Exam
5	1/5	-do-	Describe cable joint box including type	21/1/23	Exam
6	2/1	Protective system	Explain fuse and fuse materials.	22/1/23	Exam
7	2/2	-do-	Explain rewireable fuse, H.R. fuse and their uses.	24/1/23	Exam
8	2/3	-do-	Explain circuit breaker and air circuit breaker	27/1/23	Exam
9	2/4	-do-	Describe minimum oil circuit breaker and bulk oil circuit breaker	28/1/23	Exam
10	2/5	-do-	Describe air blast circuit breaker and SF ₆ circuit breaker	1/2/23	Exam
11	2/6	-do-	Explain essential quality of a good protective system	3/2/23	Exam
12	2/7	-do-	Describe plunger, induction, direction overcurrent relay.	6/2/23	Exam
13	2/8	-do-	Describe overload, no-volt and latching relay.	10/2/23	Exam
14	2/9	-do-	Explain frequency relay and earth leakage relay.	12/2/23	Exam
15	2/10	-do-	Describe protection of transformer by differential relay.	14/2/23	Exam

4th Semester

Subj - more survey lect

S. No	Lect No	Module	Lect Details	Date	Status
1	1/1	Study of Tacheometry	To calculate instrument constant using tachometer	14/1/23	Comp
2	1/2	-do-	To calculate instrument constant using tachometer	17/1/23	Comp
3	1/3	-do-	To find out height and distance from static intercepts	21/1/23	Comp
4	1/4	-do-	To find out height and distance from static intercepts	24/1/23	Comp
5	1/5	-do-	To find out height and distance from movable wire method	26/1/23	Comp
6	2/1	Study of GPS	Fixing of a triangulation and measurement of peripheral traverse	03/2/23	Comp
7	2/2	-do-	Baseline measurement using all corrections.	10/2/23	Comp
8	2/3	-do-	Baseline measurement using all corrections.	14/2/23	Comp
9	2/4	-do-	Plotting by co-ordinates	17/2/23	Comp
10	2/5	-do-	Plotting by co-ordinates	21/2/23	Comp
11	2/6	-do-	Determine the north.	24/2/23	Comp
12	3/1	Study of DGPS	Measuring of baseline measurement using DGPS	28/2/23	Comp
13	3/2	-do-	Measuring of baseline measurement using DGPS	30/2/23	Comp
14	3/3	-do-	Plotting on area by coordinate using DGPS	4/4/23	
15	3/4	-do-	Finding out volume of a stack using DGPS	7/4/23	
16	3/5	-do-	Finding out volume of a stack using DGPS	11/4/23	

2021-22 with ventilator lab.

Sl. No	Lab No	Module	Lab Report's	Date	Status
1	1/1	Relative humidity by stationary hygrometer	Determination of relative humidity by stationary hygrometer.	15/12/23	Completed
2	1/2	-do-	Determination of relative humidity by stationary hygrometer.	20/12/23	Completed
3	1/3	-do-	Determination of relative humidity by using stationary hygrometer.	22/12/23	Completed
4	2/1	Relative humidity by Strömer's hygrometer	Determination of relative humidity by using Strömer's hygrometer.	27/12/23	Completed
5	2/2	-do-	Determination of relative humidity by using Strömer's hygrometer.	17/3/23	Completed
6	3/1	Study of cooling power of Kati thermometa	Determination of cooling power of the mine air using Kati thermometa.	16/2/23	Completed
7	3/2	-do-	Determination of cooling power of the mine air using Kati thermometa.	13/3/23	Completed
8	4/1	Study and sketching air crossing ventilator	Study of air crossing, ventilator door at pit top	25/3/23	Completed
9	4/2	-do-	Study of air crossing, ventilation door at pit top	00/04/23	Completed
10	5/1	Study of use of vane anemometer, pit top static tube, study of digital pressure meter.	Study and use of vane anemometer, velometer, pit top static tube, study of digital pressure meter.	22/2/23	Completed
11	5/2	-do-	Study and use of vane anemometer, velometer, pit top static tube, study of digital pressure meter	27/3/23	Completed
12	5/3	-do-	Study and use of vane anemometer, velometer, pit top static tube, study of digital pressure meter	29/3/23	Completed

Subj: - Electrical Equipment in power

SNO	Lab No	Model	Practical No	Date	Status
1	1/1	Preparation of electric switch board for control of light	Preparation of electrical switch board to control two light point, one plug point.	16/1/23	com
2	1/2	- do -	Preparation of electrical switch board to control two light point, one plug point.	17/1/23	com
3	1/3	- do -	Preparation of electric switch board to control two light point, one plug point.	23/1/23	com
4	1/4	- do -	Preparation of electric switch board to control two light point, one plug point.	24/1/23	com
5	1/5	- do -	Preparation of electric switch board to control two light point, one plug point.	21/1/23	com
6	2/1	Study of air circuit breaker	Study of air circuit breaker and oil circuit breaker	21/3/23	com
7	2/2	- do -	Study of air circuit breaker & oil circuit breaker.	21/3/23	com
8	2/3	- do -	Study of air circuit breaker and oil circuit breaker	16/3/23	com
9	2/4	- do -	Study of air circuit breaker and oil circuit breaker	16/3/23	com
10	2/5	- do -	Study of air circuit breaker and oil circuit breaker	17/3/23	com
11	3/1	Study of gate end box	Study of gate end box	23/3/23	com
12	3/2	- do -	Study of gate end box	24/3/23	com
13	3/3	- do -	Study of gate end box	21/3/23	com
14	3/4	- do -	Study of gate end box	6/4/23	com
15	3/5	- do -	Study of gate end box	13/4/23	com