

P.C.I.E.T., CHHENDIPADA, DIST- ANGUL

THEORY LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH : MINING ENGINEERING, SEMESTER : 4TH,
SECTION : MNA

NAME OF THE FACULTY : (1) ER. DILLIP KUMAR DEHURY (H.O.D.,
MINING ENGG.), (2) ER. SATYABRATA SAHOO (LECT. IN MINING
ENGG.)

SEMESTER FROM : 13.02.2023 to 23.05.2023

THEORY SUBJECT: UNDERGROUND COAL MINING (TH-1)

CLASS ALLOTTED /WEEK : 04 PERIODS

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
1	Introduction to Underground Coal Mining	4		
	Define mine and different methods of mining	2	FEBRUARY	Dt - 14.2.2023 , 15.2.2023
	Classify Underground Coal Mining Methods	2		Dt. 16.2.2023 , 20.2.2023
2	Bord and Pillar Method	15		
	Various application of Bord & Pillar method	2		Dt - 21.2.2023 , 22.2.2023
	Various layouts of Bord & Pillar method	2		Dt - 23.2.2023 , 27.2.2023
	Depillaring method with stowing and caving	2		Dt - 28.2.2023 , 1.3.2023
	Precautions against fire and water during and after depillaring	1	MARCH	Dt - 2.3.2023
	Various machineries used in working face	3		Dt - 6.3.2023 , 9.3.2023
	Define contigeous seam	1		Dt - 13.3.2023
	Working of contiguous seams	1		Dt - 14.3.2023
	Working of seams above and below goaved out area	2		Dt - 15.3.2023 Dt - 16.3.2023
	Advantages and disadvantages of Bord & Pillar method	1		Dt - 20.3.2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
3	Longwall Method	10		
	Describe Longwall advancing	2		Dt - 21.3.2023 , 22.3.2023
	Retreating methods	2		Dt - 23.3.2023 , 27.3.2023
	Single unit and double unit face	2		Dt - 28.3.2023 , 29.3.2023
	Cyclic and non-cyclic L/W layouts	1	APRIL	Dt - 3.4.2023
	Mechanized longwall working with armoured flexible conveyor	1		Dt - 4.4.2023
	Shield support	1		Dt - 5.4.2023
	Shearer loader	1		Dt - 6.4.2023
4	Thick seam Mining	8		
	Define Thick seams	1		Dt - 10.4.2023
	Classify Thick seam Mining	2		Dt - 11.4.2023 12.4.2023
	Describe layouts of horizontal slicing	2		Dt - 13.4.2023 17.4.2023
	Incline slicing	1		Dt - 18.4.2023
	Blasting gallery	1		Dt - 19.4.2023
	Sublevel caving	1		Dt - 20.4.2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
5	Horizon Mining	3		
	State conditions, advantages of horizon mining	1		Dt - 24.4.2023
	Disadvantages and limitations of Horizon Mining	1		Dt - 25.4.2023
	Describe the layout of Horizon Mining	1		Dt - 26.4.2023
6	Hydraulic and Pneumatic stowing	3		
	Describe hydraulic stowing	2		Dt - 27.4.2023, 1.5.2023
	Describe Pneumatic stowing	1	MAY	Dt - 1.5.2023.
7	Support and roof control in Mines	10		
	State properties of roof	1		Dt - 2.5.2023
	Various types of roof	2		Dt - 3.5.2023
	Roof behavior	1		Dt - 4.5.2023
	Pressure arch theory in B&P	1		Dt - 4.5.2023
	Longwall working.	1		Dt - 8.5.2023
	Describe testing of roof.	1		Dt - 8.5.2023
	support system in Mines construction	1		Dt - 9.5.2023
	principle of operation application	1		Dt - 9.5.2023
	load bearing capacity assessment	1		Dt - 10.5.2023

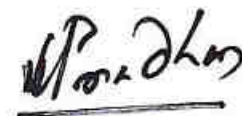
Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
8	Subsidence due to Mining	3		
	Define angle of draw, factors of subsidence, critical area of extraction	1		Dt - 11.5.2023
	Factors affecting subsidence,	1		Dt - 15.5.2023
	Describe precautionary measures against damage due to subsidence, Define shaft pillar	1		Dt - 16.5.2023
9	Shaft Sinking	4		
	Vertical shaft and inclined shaft; determine shape and size of shaft	1		Dt - 17.5.2023
	Location of shaft. Describe sinking through normal ground. State shaft plumbing	1		Dt - 18.5.2023
	Sinking through difficult ground, cementation, freezing, mechanized shaft sinking	1		Dt - 22.5.2023
	Sinking upward, widening and deepening of shafts	1		Dt - 23.5.2023

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SECTION : MNA

NAME OF THE FACULTY : (1) ER. SUNIL KUMAR SAHU,
(2)SIBASUNDAR MAIKAP (LECT. IN MINING ENGG.)

SEMESTER FROM : 13.02.2023 to 23.05.2023

THEORY SUBJECT: MINE SURVEY - II (TH-2)

CLASS ALLOTTED /WEEK : 04 PERIODS

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
1	Tacheometry	10		
	Stadia & its principle	2	FEBRUARY	Dt - 14.2.2023 , 15.2.2023
	Explain diaphragm	2		Dt - 16.2.2023 , 20.2.2023
	Reticules	1		Dt - 21.2.2023.
	Acheometer	1		Dt - 22.2.2023
	Instruments constants	1		Dt - 23.2.2023
	Find out height & distance from stadia intercepts	1		Dt - 27.2.2023
	Tangential systems	1		Dt - 28.2.2023
	Movable hair method	1	MARCH	Dt - 1.3.2023
2	Triangulation and Trilateration	12		
	State purpose & principle involved in triangulation & trilateration method	2		Dt - 2.3.2023 6.3.2023
	Classify various methods of triangulation survey primary, secondary & tertiary colliery triangulation	2		Dt - 9.3.2023 13.3.2023
	Develop concept about reconnaissance survey	2		Dt - 14.3.2023 15.3.2023
	Measuring angle, types of theodolite used in triangulation survey	2		Dt - 16.3.2023 20.3.2023


Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Methods of base line measurement using E.D.M.	1		Dt - 21.3.2023
	Define tape correction	1		Dt - 22.3.2023
	Construction of triangulation station of permanent nature	2		Dt - 23.3.2023 , 27.3.2023
	Correlation of Surface and Underground Survey	10		
	Direct correlation by traversing & optical methods	2		Dt - 28.3.2023 , 29.3.2023
	Orientation by wires in two shafts	2	APRIL	Dt - 3.4.2023 4.4.2023
3	Correlation by mines in vertical shafts	2		Dt - 5.4.2023 6.4.2023
	State co-planning/ alignment	1		Dt - 10.4.2023
	Weissbach triangle weis-quadrilateral methods	1		Dt - 11.4.2023
	Precise magnetic correlation	2		Dt - 12.4.2023 13.4.2023
	Setting Out Curves	10		
	Elements of curves	1		17.4.2023
	Designation of curves, simple	1		18.4.2023
	Compound curve	1		19.4.2023
	Reverse curves curve	1		20.4.2023
4	Setting out of surface & underground curves by chords & offsets	1		24.4.2023
	Chords and angle, tangent and offset	1		25.4.2023
	Plate layers method	1		26.4.2023
	Various setting out by chain & one theodolite	1		27.4.2023
	Various setting out by chain & teo theodolite	1	MAY	1.5.2023
	Define super elevation, transition and vertical curves	1		2.5.2023

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5	Stope Surveying	10		
	Tape triangulation	1		2.5.2023
	Instrumental survey	1		3.5.2023
	Determine stope face	1		4.5.2023
	Preparation of stope planes	1		5.5.2023
	Plotting the stope station	1		8.5.2023
	Plotting of stope face to the mine plan	1		9.5.2023
	Area of extraction by Planimeter	2		10.5.2023 11.5.2023
	Calculation of triangle thereof.	2		11.5.2023 15.5.2023
6	G.P.S. & Total Station	8		
	Basic principles of global positioning system	2		16.5.2023
	Total station	3		17.5.2023 18.5.2023
	Introduction to DGPS.	3		22.5.2023 23.5.2023



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BRANCH : MINING ENGINEERING, SEMESTER : 4TH,
SECTION : MNA

NAME OF THE FACULTY : (1) ER. SOUBHAGYA RANJAN BISWAL, (2)
ER. PRATYUSH BEHERA (LECT. IN MINING ENGG.)

SEMESTER FROM : 13.02.2023 to 23.05.2023

THEORY SUBJECT: MINE VENTILATION (TH-3)

CLASS ALLOTTED /WEEK : 04 PERIODS


Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Natural Ventilation	8		
1	Natural ventilation and factors affecting natural ventilation	1	FEBRUARY	Dt- 14.2.2023
	Different types of Thermometer	1		Dt- 15.2.2023
	Different types of Barometer	1		Dt. 16.2.2023
	Kata thermometer, water gauge	1		Dt. 20.2.2023
	Ventilation pressure by using piton static tube	1		Dt- 21.2.2023
	Effects of heat & humidity	1		Dt- 22.2.2023
	Natural ventilation motive column, geothermic gradient	1		Dt- 23.2.2023
	Statutory provision as per CMR 2017, MMR 1961, Enumerate laws of mine air friction and solve problems on above	1		Dt- 25.2.2023
	Air Crossing and Distribution	10		
2	Ventilation stopping, air crossing	1		Dt- 28.2.2023
	Ventilation door, brattice partition	1	MARCH	Dt- 1.3.2023
	Different types of ventilation	1		Dt- 2.3.2023
	Accessional & declensional ventilation	1		Dt- 6.3.2023
	Homotropical & Antitropical ventilation	1		Dt- 9.3.2023
	Boundary ventilation	1		Dt- 13.3.2023

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	Central & combined ventilation	1		Dt- 14.3.2023
	Splitting of air current	1		Dt- 15.3.2023
	Air locks at pit top	2		Dt- 16.3.2023 , 20.3.2023
	Mechanical Ventilation	9		
	Construction & principle of operation of centrifugal flow fans	2		Dt- 21.3.2023 , 22.3.2023
	Fan laws & calculate fan efficiency and capacity	1		Dt- 23.3.2023
	Installation of mine fan with reversal arrangement	1		Dt- 27.3.2023
3	Describe fan	1		Dt- 28.3.2023
	Fan drive, evasee	1		Dt- 29.3.2023
	Diffusers	1	APRIL	Dt- 3.4.2023
	Fan characteristics and mine characteristics	1		Dt- 4.4.2023
	Methods of output of mine fans	1		Dt- 5.4.2023
	Booster Fan and its Effects	10		
	Installation of booster fan	2		Dt- 6.4.2023 , 10.4.2023
4	Location of booster fan	2		Dt. 11.4.2023 12.4.2023
	Purpose of booster fan	2		Dt. 13.4.2023 17.4.2023
	Solve problems relating to booster fan	4		Dt. 18.4.2023 19.4.2023
	Auxiliary Ventilation	7		
	Systems of auxiliary ventilation	3		Dt. 20.4.2023 24.4.2023
5	Advantages of auxiliary ventilation	2		Dt- 25.4.2023
	Disadvantages of auxiliary ventilation	2		Dt- 26.4.2023.

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
6	Ventilation Survey	10		
	Methods of pressure survey using barometer	1		DT. 27.4.2023
	Gauge and pitot tube with manometer	1	MAY	DT. 1.5.2023
	Method of measurement of cross-sectional area	1		DT. 2.5.2023
	Method of velocity measurements by using anemometer	1		DT. 3.5.2023
	Voltmeter	1		DT. 4.5.2023
	Pitot- static tube	1		DT. 8.5.2023
	Smoke & cloud method	1		DT. 9.5.2023
	Determine percentage of oxygen	1		DT. 10.5.2023
	Determine percentage of methane	1		DT. 11.5.2023
	carbon monoxide SO ₂ & H ₂ S.	1		DT. 15.5.2023
7	Leakage of Air in Mines	6		DT. 16.5.2023
	Causes of leakage of air in mines	3		DT. 17.5.2023 18.5.2023
	Preventive measures of leakage of air in mines	3		DT. 22.5.2023 23.5.2023


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BRANCH : MINING ENGINEERING, SEMESTER : 4TH,
SECTION : MNA

NAME OF THE FACULTY : (1) ER. BIRENDRA BAI,
(2) ER. SWAGAT SAHOO (LECT. IN ELECT. ENGG.)

SEMESTER FROM : 13.02.2023 to 23.05.2023

THEORY SUBJECT: ELECTRICAL EQUIPMENT IN MINES (TH-4)

CLASS ALLOTTED /WEEK : 04 PERIODS

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
1	Electrical Cables for Mining Use	5		
	Cables for mining use	1	FEBRUARY	dt- 14 . 2.2023
	Constructional features of high tension and low-tension cables armored & trailing cables	1		dt- 15 . 2.2023
	State size of cables & their use	1		dt- 16 . 2.2023
	State procedures of cable laying at surface, underground roadway & in shaft	1		dt- 20 . 2.2023
	Cable joint box mining type	1		dt- 21 . 2.2023
2	Protective Systems	14		
	Fuse Materials	1		dt- 22 . 2.2023
	Rewireable Fuse, HRC Fuse.Uses of Fuse	1		dt- 23 . 2.2023
	Describe & Explain Air Circuit Breaker	1		dt- 27 . 2.2023
	Describe & Explain Minimum Oil Circuit Breaker (MOCB).	1		dt- 28 . 2.2023
	Describe & Explain Bulk Oil Circuit Breaker (BOCB).	1	MARCH	dt- 1 - 3.2023
	Describe & Explain Air Blast Circuit Breaker	1		dt- 2 - 3. 2023
	Describe SF6 Circuit Breaker	1		dt- 6 - 3.2023
Explain essential qualities of a good protective system	1		dt- 9 . 3.2023	

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	State & describe types of relays	1		13.3.2023
	Describe protection of transformer by differential relay	1		14.3.2023
	General principle of working-basis remote control circuit & various protective devices of Gate-End Box	1		15.3.2023
	Describe functions & operation of drill panel	1		16.3.2023
	Earthing system in mines	1		20.3.2023
	Voltage limit	1		21.3.2023
3	Fundamentals of Transformer	10		21.3.2023 22.3.2023
	Industrial drives- Mining type	4		22.3.2023
4	Starting & running characteristics of D.C. motor	1		23.3.2023
	Starting & running characteristics of A.C motor	1		27.3.2023, 28.3.2023
	Selection of motors for mining use	2		29.3.2023
	Electric Braking Used in Mines	8	APRIL	3.4.2023
5	Describe & explain regenerative braking	4		4.4.2023 5.4.2023
	Describe & explain magnetic braking.	4		6.4.2023 10.4.2023
	Flame Proof & Intrinsically Safe Apparatus	5		11.4.2023
6	flame proof apparatus & intrinsically safe apparatus.	2		12.4.2023 13.4.2023
	explain the safety features of flame proof & intrinsically safe apparatus	3		17.4.2023 18.4.2023

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7	Underground Signaling Arrangement	4		19.4.2023
	signals & shaft signal.	1		20.4.2023
	communication system in U/G mines.	1		24.4.2023
	Point to point communication.	1		25.4.2023
	Intercom system/Telephone, Cordless system	1		26.4.2023 27.4.2023
8	Sensors & Their Applications	5	MAY	1.5.2023 2.5.2023 3.5.2023 4.5.2023 8.5.2023
9	Battery locomotive	1		9.5.2023 10.5.2023
	Automation with Thyroster control	1		11.5.2023 15.5.2023
	Electrical LHD	1		16.5.2023 17.5.2023
	Electric mine phone.	2		18.5.2023 22.5.2023 23.5.2023

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	Various layouts of Bord & Pillar method	2		Dt- 23.2.2023 27.2.2023
	Depillaring method with stowing and caving	2		Dt- 28.2.2023
	Precautions against fire and water during and after depillaring	1	MARCH	Dt- 1.3.2023 2.3.2023
	Various machineries used in working face	3		Dt- 6.3.2023 9.3.2023
	Define contigeous seam	1		Dt- 13.3.2023
	Working of contiguous seams	1		Dt- 14.3.2023
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Advantages and disadvantages of Bord & Pillar method	1		Dt- 20.3.2023	

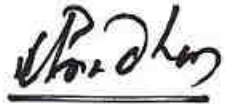
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	Single unit and double unit face	2		Dt- 28-3.2023 29-3.2023
	Cyclic and non-cyclic L/W layouts	1	APRIL	Dt- 3-4.2023
	Mechanized longwall working with armoured flexible conveyor	1		Dt- 4-4.2023
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	Shearer loader	1		Dt- 6-4.2023
4	Thick seam Mining	8		Dt- 10-4.2023
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	Classify Thick seam Mining	2		Dt- 12-4.2023 13-4.2023
	Describe layouts of horizontal slicing	2		Dt- 17-4.2023 18-4.2023
	Incline slicing	1		Dt- 19-4.2023
	Blasting gallery	1		Dt- 20-4.2023
	Sublevel caving	1		Dt- 24-4.2023

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5	Horizon Mining	3		
	State conditions, advantages of horizon mining	1		Dt. 25. 4. 2023
	Disadvantages and limitations of Horizon Mining	1		Dt. 26. 4. 2023
	Describe the layout of Horizon Mining	1		Dt. 27. 4. 2023
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	Describe hydraulic stowing	2	MAY	Dt. 1. 5. 2023
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	Pressure arch theory in B&P	1		Dt. 9. 5. 2023
	Longwall working.	1		Dt. 10. 5. 2023
	Describe testing of roof.	1		Dt. 10. 5. 2023
	support system in Mines construction	1		Dt. 11. 5. 2023
	principle of operation application	1		Dt. 11. 5. 2023
	load bearing capacity assessment	1		Dt. 11. 5. 2023

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	Factors affecting subsidence,	1		Dt-16.5.2023
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	Vertical shaft and inclined shaft; determine shape and size of shaft	1		Dt-17.5.2023
	Location of shaft. Describe sinking through normal ground. State shaft plumbing	1		Dt-18.5.2023
	Sinking through difficult ground, cementation, freezing, mechanized shaft sinking	1		Dt-22.5.2023
	Sinking upward, widening and deepening of shafts	1		Dt-23.5.2023

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THEORY SUBJECT: MINE SURVEY - II (TH-2)

CLASS ALLOTTED /WEEK : 04 PERIODS

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
1	Tacheometry	10		
	Stadia & its principle	2	FEBRUARY	14.2.2023 , 15.2.2023
	Explain diaphragm	2		16.2.2023 , 20.2.2023
	Reticules	1		21.2.2023
	Acheometer	1		22.2.2023
	Instruments constants	1		23.2.2023
	Find out height & distance from stadia intercepts	1		27.2.2023
	Tangential systems	1		28.2.2023
	Movable hair method	1	MARCH	1.3.2023
2	Triangulation and Trilateration	12		
	State purpose & principle involved in triangulation & trilateration method	2		2.3.2023 , 6.3.2023
	Classify various methods of triangulation survey primary, secondary & tertiary collery triangulation	2		9.3.2023 , 13.3.2023
	Develop concept about reconnaissance survey	2		14.3.2023 , 15.3.2023
	Measuring angle, types of theodolite used in triangulation survey	2		16.3.2023 , 20.3.2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Methods of base line measurement using E.D.M.	1		Dt. 21. 3. 2023
	Define tape correction	1		Dt. 22. 3. 2023
	Construction of triangulation station of permanent nature	2		Dt. 23. 3. 2023 , 27. 3. 2023
	Correlation of Surface and Underground Survey	10		
	Direct correlation by traversing & optical methods	2		Dt. 28. 3. 2023 , 29. 3. 2023
	Orientation by wires in two shafts	2	APRIL	Dt. 3. 4. 2023 4. 4. 2023
3	Correlation by mines in vertical shafts	2		Dt. 5. 4. 2023 10. 4. 2023.
	State co-planning/ alignment	1		Dt. 11. 4. 2023
	Weissbach triangle weis-quadrilateral methods	1		Dt. 12. 4. 2023
	Precise magnetic correlation	2		Dt. 13. 4. 2023 17. 4. 2023
	Setting Out Curves	10		
	Elements of curves	1		Dt. 18. 4. 2023
	Designation of curves, simple	1		Dt. 19. 4. 2023
	Compound curve	1		Dt. 20. 4. 2023
	Reverse curves curve	1		Dt. 24. 4. 2023
4	Setting out of surface & underground curves by chords & offsets	1		Dt. 25. 4. 2023
	Chords and angle, tangent and offset	1		Dt. 26. 4. 2023
	Plate layers method	1		Dt. 27. 4. 2023
	Various setting out by chain & one theodolite	1	MAY	Dt. 1. 5. 2023
	Various setting out by chain & two theodolite	1		Dt. 2. 5. 2023
	Define super elevation, transition and vertical curves	1		Dt. 3. 5. 2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
5	Stope Surveying	10		
	Tape triangulation	1		4 . 5. 2023
	Instrumental survey	1		8 . 5. 2023
	Determine stope face	1		9 . 5. 2023
	Preparation of stope planes	1		10 . 5. 2023
	Plotting the stope station	1		11 . 5. 2023
	Plotting of stope face to the mine plan	1		15 . 5. 2023
	Area of extraction by Planimeter	2		16 . 5. 2023
	Calculation of triangle thereof.	2		17 - 5. 2023
6	G.P.S. & Total Station	8		
	Basic principles of global positioning system	2		18 . 5. 2023
	Total station	3		22 . 5. 2023
	Introduction to DGPS.	3		23 - 5. 2023

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THEORY LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH : MINING ENGINEERING, SEMESTER : 4TH,
SECTION : MNB

NAME OF THE FACULTY : (1) ER. SOUBHAGYA RANJAN BISWAL, (2)
ER. PRATYUSH BEHERA (LECT. IN MINING ENGG.)

SEMESTER FROM : 13.02.2023 to 23.05.2023

THEORY SUBJECT: MINE VENTILATION (TH-3)

CLASS ALLOTTED /WEEK : 04 PERIODS

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
1	Natural Ventilation	8		
	Natural ventilation and factors affecting natural ventilation	1	FEBRUARY	Dt- 14.2.2023
	Different types of Thermometer	1		Dt- 15.2.2023
	Different types of Barometer	1		Dt- 16.2.2023
	Kata thermometer, water gauge	1		Dt- 20.2.2023
	Ventilation pressure by using piton static tube	1		Dt- 21.2.2023
	Effects of heat & humidity	1		Dt- 22.2.2023
	Natural ventilation motive column, geothermic gradient	1		Dt- 23.2.2023
	Statutory provision as per CMR 2017, MMR 1961, Enumerate laws of mine air friction and solve problems on above	1		Dt- 27.2.2023
2	Air Crossing and Distribution	10		
	Ventilation stopping, air crossing	1		Dt- 28.2.2023
	Ventilation door, brattice partition	1	MARCH	Dt- 1.3.2023
	Different types of ventilation	1		Dt- 2.3.2023
	Accessional & declensional ventilation	1		Dt- 6.3.2023
	Homotropical & Antitropical ventilation	1		Dt- 9.3.2023
	Boundary ventilation	1		Dt- 13.3.2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Central & combined ventilation	1		Dt. 14.3.2023
	Splitting of air current	1		Dt 15.3.2023
	Air locks at pit top	2		Dt. 16.3.2023 20.3.2023
	Mechanical Ventilation	9		
	Construction & principle of operation of centrifugal flow fans	2		Dt - 21.3.2023 22.3.2023
	Fan laws & calculate fan efficiency and capacity	1		Dt. 23.3.2023
	Installation of mine fan with reversal arrangement	1		Dt - 27.3.2023
3	Describe fan	1		Dt - 28.3.2023
	Fan drive, evasee	1		Dt - 29.3.2023
	Diffusers	1	APRIL	Dt - 3.4.2023
	Fan characteristics and mine characteristics	1		Dt - 4.4.2023
	Methods of output of mine fans	1		Dt - 5.4.2023
	Booster Fan and its Effects	10		
	Installation of booster fan	2		Dt - 6.4.2023 10.4.2023
4	Location of booster fan	2		Dt - 11.4.2023 12.4.2023
	Purpose of booster fan	2		Dt - 13.4.2023 17.4.2023
	Solve problems relating to booster fan	4		Dt - 18.4.2023 19.4.2023
	Auxiliary Ventilation	7		
	Systems of auxiliary ventilation	3		Dt - 20.4.2023 24.4.2023
5	Advantages of auxiliary ventilation	2		Dt - 25.4.2023
	Disadvantages of auxiliary ventilation	2		Dt - 26.4.2023 27.4.2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Ventilation Survey	10		
	Methods of pressure survey using barometer	1	MAY	1.5.2023
	Gauge and pitot tube with manometer	1		2.5.2023
	Method of measurement of cross-sectional area	1		3.5.2023
	Method of velocity measurements by using anemometer	1		4.5.2023
6	Voltmeter	1		8.5.2023
	Pitot- static tube	1		9.5.2023
	Smoke & cloud method	1		10.5.2023
	Determine percentage of oxygen	1		11.5.2023
	Determine percentage of methane	1		15.5.2023
	carbon monoxide SO ₂ & H ₂ S.	1		16.5.2023
	Leakage of Air in Mines	6		17.5.2023
7	Causes of leakage of air in mines	3		18.5.2023
	Preventive measures of leakage of air in mines	3		22.5.2023 23.5.2023

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THEORY LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH : MINING ENGINEERING, SEMESTER : 4TH,
SECTION : MNB

NAME OF THE FACULTY : (1) ER. BIRENDRA BAI,
(2) ER. SWAGAT SAHOO (LECT. IN ELECT. ENGG.)

SEMESTER FROM : 13.02.2023 to 23.05.2023

THEORY SUBJECT: ELECTRICAL EQUIPMENT IN MINES (TH-4)

CLASS ALLOTTED /WEEK : 04 PERIODS

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
1	Electrical Cables for Mining Use	5		
	Cables for mining use	1	FEBRUARY	Dt. 14 - 2. 2023
	Constructional features of high tension and low-tension cables armored & trailing cables	1		Dt. 15 - 2. 2023
	State size of cables & their use	1		Dt. 16 - 2. 2023
	State procedures of cable laying at surface, underground roadway & in shaft	1		Dt. 20 - 2. 2023
	Cable joint box mining type	1		Dt. 21 - 2. 2023
2	Protective Systems	14		
	Fuse Materials	1		Dt. 22 - 2. 2023
	Rewireable Fuse, HRC Fuse. Uses of Fuse	1		Dt. 23 - 2. 2023
	Describe & Explain Air Circuit Breaker	1		Dt. 27 - 2. 2023
	Describe & Explain Minimum Oil Circuit Breaker (MOCB).	1		Dt. 28 - 2. 2023
	Describe & Explain Bulk Oil Circuit Breaker (BOCB).	1	MARCH	Dt. 1 - 3. 2023
	Describe & Explain Air Blast Circuit Breaker	1		Dt. 2 - 3. 2023
	Describe SF6 Circuit Breaker	1		Dt. 6 - 3. 2023
Explain essential qualities of a good protective system	1		Dt. 9 - 3. 2023	

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	State & describe types of relays	1		Dt- 13.3.2023
	Describe protection of transformer by differential relay	1		Dt- 14.3.2023
	General principle of working-basis remote control circuit & various protective devices of Gate-End Box	1		Dt- 15.3.2023
	Describe functions & operation of drill panel	1		Dt- 16.3.2023
	Earthing system in mines	1		Dt- 20.3.2023
	Voltage limit	1		Dt- 21.3.2023
3	Fundamentals of Transformer	10		Dt- 22.3.2023 23.3.2023 Dt- 27.3.2023 28.3.2023 29.3.2023
	Industrial drives- Mining type	4	APRIL	
4	Starting & running characteristics of D.C. motor	1		Dt- 3.4.2023
	Starting & running characteristics of A.C moter	1		Dt- 6.4.2023
	Selection of motors for mining use	2		Dt- 5.4.2023 6.4.2023
	Electric Braking Used in Mines	8		
5	Describe & explain regenerative braking	4		10.4.2023 11.4.2023
	Describe & explain magnetic braking.	4		12.4.2023 13.4.2023
	Flame Proof & Intrinsically Safe Apparatus	5		
6	flame proof apparatus & intrinsically safe apparatus.	2		17.4.2023 18.4.2023
	explain the safety features of flame proof & intrinsically safe appartus	3		19.4.2023 20.4.2023 24.4.2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
7	Underground Signaling Arrangement	4		25.4.2023
	signals & shaft signal.	1		26.4.2023 27.4.2023
	communication system in U/G mines.	1	MAY	1.5.2023
	Point to point communication.	1		2.5.2023
	Intercom system/Telephone,Cordless system	1		3.5.2023
8	Sensors & Their Applications	5		4.5.2023 8.5.2023 9.5.2023 10.5.2023 11.5.2023
9	Battery locomotive	1		15.5.2023
	Automation with Thyroster control	1		16.5.2023
	Electrical LHD	1		17.5.2023 18.5.2023
	Electric mine phone.	2		22.5.2023 23.5.2023

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MINING ENGG

SEMESTER: 4TH

SECTION : MNA1

NAME OF THE FACULTY : (1) ER. SUNIL KUMAR SAHU, (2) ER. SIBASUNDAR MAIKAP (LECT. IN MINING ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT : MINE SURVEY - II LAB. (PR-1)

CLASS ALLOTTED /WEEK : 06 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	Fix triangulation and measurement of peripheral and hub angles. Base line measurement applying all corrections and plotting by co-ordinates.	FEBRUARY		Dt- 16. 2. 2023 Dt- 20. 2. 2023
2	Determine the north.			Dt- 23. 2. 2023 Dt- 27. 2. 2023
3	Set out curves by Total Station and Theodolites.	MARCH		Dt- 2. 3. 2023 Dt- 6. 3. 2023
4	Correlate underground and surface survey during survey camp.			Dt- 9. 3. 2023
5	Measurement of Horizontal & Vertical angles, measurement of distance by Total Station.			Dt- 13. 3. 2023 Dt- 16. 3. 2023
6	Mining lease boundary survey using Total Station.			Dt- 20. 3. 2023 Dt- 23. 3. 2023
7	Base line fixation using Total Station.			Dt- 27. 3. 2023
8	Coordinate point shifting and reference point shifting by Total Station	APRIL		Dt- 3. 4. 2023 Dt- 6. 4. 2023

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOB TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
9	Fixation of control point by 02 traversing (both Horizontal and Vertical control points) with Total Station and auto level.			Dt-10.4.2023 Dt-13.4.2023
10	Topographic survey & existing features.			Dt-17.4.2023 Dt-20.4.2023
11	Area calculation using software.			Dt-24.4.2023
12	Volume calculation using software	MAY		Dt-27.4.2023 Dt-1.5.2023
13	GPS Survey.			Dt-4.5.2023 Dt-8.5.2023
14	Preparation of plan and section using AUTOCAD.			Dt-11.5.2023
15	DGPS Survey.			Dt-15.5.2023
16	Reserve calculation of Ore.			Dt-18.5.2023 Dt-22.5.2023

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MINING ENGG

SEMESTER: 4TH

SECTION : MNA1

NAME OF THE FACULTY : (1) ER. AMARENDRA SAHOO (2) ER. DURGA PRASAD SAHU (LECT. IN MINING ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT : MINE VENTILATION LAB (PR-2)

CLASS ALLOTTED /WEEK : 06 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	Determine the relative humidity by stationary hygrometer.	FEBRUARY		16 - 2. 2023 17 - 2. 2023
2	Determine the relative humidity by storrow's hygrometer.			23 . 2. 2023 24 - 2. 2023
3	Determine the cooling power of mine air using Kata thermometer.	MARCH		2 . 3. 2023 3 - 3. 2023
4	Study and sketching of air crossing, ventilation doors at pit-top & different types of explosive proof fire stopping.			9 . 3. 2023 , 17 - 3. 2023 10 - 3. 2023 , 23 . 3. 2023
5	Study & use of Vane Anemometer, Digital Anemometer, Velometer, Pitot static-tube measurement of quantity of air flow. Study of digital pressure meter.	APRIL		24 - 3. 2023 , 31 . 3. 2023 6 . . 2023
6	Determination of duct characteristic.			13 - 4. 2023
7	Study of constructional features of axial flow and centrifugal fans.			20 . 4. 2023, 21. 4. 2023
8	Determination of fan characteristic curve.			27 . 4. 2023, 28 . 4. 2023
9	Study and sketching of regulator, airlocks.	MAY		4 . 5. 2023
10	Study and use of digital anemometer.			11 . 5. 2023
11	Measurement of quantity of air flow by digital anemometer			12 - 5. 2023 , 18 . 5. 2023

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MINING ENGG

SEMESTER: 4TH

SECTION : MNA1

NAME OF THE FACULTY : (1) ER. SWAGAT SAHOO (LECT. IN ELECT. ENGG), (2) ER. KRUTIBASA BEHERA (T.A., ELECT. ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT: ELECTRICAL EQUIPMENT IN MINES LAB (PR-3)

CLASS ALLOTTED /WEEK : 06 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	Prepare an Electrical switch board to control two light points, one plug point, one fan point and put a required fuse.	FEBRUARY		15.2.2023 22.2.2023 23.2.2023
2	Study of circuit breakers (Air Circuit Breaker & Oil Circuit Breaker).	MARCH		1.3.2023 11.3.2023 4.3.2023 15.3.2023
3	Study of Gate End Box.			18.3.2023 22.3.2023 25.3.2023 29.3.2023
4	Study of Relays (Buchholz Relay , Over Current Relay).	APRIL		5.4.2023 8.4.2023 12.4.2023 13.4.2023
5	Identify the different part of given cable and find fault on the cable.			19.4.2023 22.4.2023 26.4.2023 29.4.2023
6	By the use of Megger check the continuity of windings, body to winding, body to earth of an 3-Phase induction Motor.	MAY		3.5.2023 5.5.2023 10.5.2023 17.5.2023
				20

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MINING ENGG

SEMESTER: 4TH

SECTION : MNA1

NAME OF THE FACULTY : (1) ER. PRABIN KUMAR SAHOO (LECT. IN MINING ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT : TECHNICAL SEMINAR (PR-4)

CLASS ALLOTTED /WEEK : 06 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
	INTRODUCTION OF ADV. MINING METHOD	FEBRUARY		17.2.2023, 24.2.2023
		MARCH		3.3.2023, 10.3.2023 17.3.2023
				24.3.2023, 31.3.2023
	HEMM IN MINING	APRIL		21.4.2023
				28.4.2023
		MARCH		12.5.2023

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:- MINING ENGG.

SEMESTER: 4TH

SECTION : MNA1

NAME OF THE FACULTY : (1) ER. GOBINDA CHANDRA SETHY (LECT. IN MINING ENGG.)

SEMESTER FROM DT.13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT: STUDENT CENTRED ACTIVITIES

CLASS ALLOTTED /WEEK :- 03 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
	Extension lectures	FEBRUARY		17.2.2023 24.2.2023 25.2.2023
	Personality Development	MARCH		3.3.2023 4.3.2023
	Environmental issues			10.3.2023 17.3.2023 11.3.2023 18.3.2023
	Quiz, Hobbies, Field visits			24.3.2023 23.3.2023 31.3.2023
	Cultural Activities	APRIL		8.4.2023 13.4.2023 21.4.2023 22.4.2023 28.4.2023
	Library studies	MAY		29.4.2023 6.5.2023 12.5.2023 20.5.2023


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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MINING ENGG

SEMESTER: 4TH

SECTION : MNA2

NAME OF THE FACULTY : (1) ER. SUNIL KUMAR SAHU, (2) ER. SIBASUNDAR MAIKAP (LECT. IN MINING ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT : MINE SURVEY - II LAB. (PR-1)

CLASS ALLOTTED /WEEK : 06 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	Fix triangulation and measurement of peripheral and hub angles. Base line measurement applying all corrections and plotting by co-ordinates.	FEBRUARY		16.2.2023 20.2.2023
2	Determine the north.			23.2.2023
3	Set out curves by Total Station and Theodolites.	MARCH		27.2.2023 2.3.2023
4	Correlate underground and surface survey during survey camp.			6.3.2023 9.3.2023
5	Measurement of Horizontal & Vertical angles, measurement of distance by Total Station.			13.3.2023 16.3.2023
6	Mining lease boundary survey using Total Station .			20.3.2023 23.3.2023
7	Base line fixation using Total Station.	APRIL		27.3.2023 3.4.2023
8	Coordinate point shifting and reference point shifting by Total Station			6.4.2023 10.4.2023

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
9	Fixation of control point by 02 traversing (both Horizontal and Vertical control points) with Total Station and auto level.			13.4.2023 17.4.2023
10	Topographic survey & existing features.			20.4.2023
11	Area calculation using software.			24.4.2023 27.4.2023
12	Volume calculation using software	MAY		1.5.2023
13	GPS Survey.			4.5.2023 8.5.2023
14	Preparation of plan and section using AUTOCAD.			11.5.2023 15.5.2023
15	DGPS Survey.			18.5.2023
16	Reserve calculation of Ore.			22.5.2023

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MINING ENGG

SEMESTER: 4TH

SECTION : MNA2

NAME OF THE FACULTY : (1) ER. SWAPNAJIT RAY, (2) ER. TANMAY KUMAR SAHOO (LECT. IN MINING ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT : MINE VENTILATION LAB (PR-2)

CLASS ALLOTTED /WEEK : 06 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	Determine the relative humidity by stationary hygrometer.	FEBRUARY		Dt-15-02-2023 Dt-22-02-2023
2	Determine the relative humidity by storrow's hygrometer.			Dt-25-02-2023
3	Determine the cooling power of mine air using Kata thermometer.	MARCH		Dt-01-03-2023 Dt-04-03-2023 Dt-11-03-2023 Dt-15-03-2023
4	Study and sketching of air crossing, ventilation doors at pit-top & different types of explosive proof fire stopping.			Dt-18-03-2023 Dt-22-03-2023 Dt-25-03-2023 Dt-29-03-2023
5	Study & use of Vane Anemometer, Digital Anemometer, Velometer, Pitot static-tube measurement of quantity of air flow. Study of digital pressure meter.	APRIL		Dt-05-04-2023, Dt-08-04-2023 Dt-12-04-2023, Dt-15-04-2023 Dt-19-04-2023, Dt-22-04-2023
6	Determination of duct characteristic.			Dt-26-04-2023, Dt-29-04-2023
7	Study of constructional features of axial flow and centrifugal fans.	MAY		Dt-03-05-2023
8	Determination of fan characteristic curve.			Dt-06-05-2023
9	Study and sketching of regulator, airlocks.			Dt-10-05-2023
10	Study and use of digital anemometer.			Dt-17-05-2023
11	Measurement of quantity of air flow by digital anemometer			Dt-20-05-2023

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MINING ENGG

SEMESTER: 4TH

SECTION : MNA2

NAME OF THE FACULTY : (1) ER. SWAGAT SAHOO, (2) ER. RAMESH CHANDRA PRADHAN (LECT. IN ELECT. ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT: ELECTRICAL EQUIPMENT IN MINES LAB (PR-3)

CLASS ALLOTTED /WEEK : 06 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	Prepare an Electrical switch board to control two light points, one plug point, one fan point and put a required fuse.	FEBRUARY		Dt-16.02.23 ,Dt-17.02.23 Dt-23.02.23 ,Dt-24.02.23
2	Study of circuit breakers (Air Circuit Breaker & Oil Circuit Breaker).	MARCH		Dt-02.03.23 , Dt-03.03.23 Dt-09.03.23 , Dt-10.03.23
3	Study of Gate End Box.			Dt-16.03.23 , Dt-17.03.23 Dt-23.03.23 , Dt-24.03.23 Dt-31.03.23
4	Study of Relays (Buchholz Relay , Over Current Relay).	APRIL		Dt-06.04.23 , Dt-13.04.23 Dt-20.04.23
5	Identify the different part of given cable and find fault on the cable.			Dt-21.04.23 , Dt-27.04.23 Dt-28.04.23
6	By the use of Megger check the continuity of windings, body to winding, body to earth of an 3-Phase induction Motor.	MAY		Dt-04.5.23 , Dt-11.05.23 Dt-12.05.23 , Dt-18.05.23

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MINING ENGG

SEMESTER: 4TH

SECTION : MNA2

NAME OF THE FACULTY : (1) ER. PRABIN KUMAR SAHOO (LECT. IN MINING ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT : TECHNICAL SEMINAR (PR-4)

CLASS ALLOTTED /WEEK : 06 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
	INTRODUCTION OF ADV. MINING METHOD	FEBRUARY		17-2.2023 24.2.2023
		MARCH		3.3.2023 10-3.2023
				17-3.2023 24.3.2023
				31.3.2023
	HEMM IN MINING	APRIL		21.4.2023
				28.4.2023
		MAY		12.5.2023

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:- MINING ENGG.

SEMESTER: 4TH

SECTION : MNA2

NAME OF THE FACULTY : (1) ER. GOBINDA CHANDRA SETHY (LECT. IN MINING ENGG.)

SEMESTER FROM DT.13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT: STUDENT CENTRED ACTIVITIES

CLASS ALLOTTED /WEEK :- 03 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
	EXTENSION LECTURES	FEBRUARY		17-2-2023 24-2-2023 25-2-2023
	PERSONALITY DEVELOPMENT	MARCH		3-3-2023 4-3-2023
	ENVIRONMENTAL ISSUES			10-3-2023, 17-3-2023 11-3-2023, 18-3-2023
	QUIZ, HOBBIES, FIELD VISITS			23-3-2023 24-3-2023 31-3-2023
	CULTURAL ACTIVITIES	APRIL		8-4-2023 13-4-2023 21-4-2023 22-4-2023 28-4-2023
	LIBRARY STUDIES	MAY.		29-4-2023 6-5-2023 12-5-2023 20-5-2023

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MINING ENGG

SEMESTER: 4TH

SECTION : MNB1

NAME OF THE FACULTY : (1) ER. ABINASH SAHOO (LECT. IN MECH. ENGG.), (2) ER. SIBASUNDAR MAIKAP (LECT. IN MINING ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT : MINE SURVEY - II LAB. (PR-1)

CLASS ALLOTTED /WEEK : 06 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	Fix triangulation and measurement of peripheral and hub angles. Base line measurement applying all corrections and plotting by co-ordinates.	FEBRUARY		17.2.2023 24.2.2023 25.2.2023
2	Determine the north.	MARCH		3.3.2023 4.3.2023
3	Set out curves by Total Station and Theodolites.			10.3.2023 11.3.2023
4	Correlate underground and surface survey during survey camp.			17.3.2023 18.3.2023
5	Measurement of Horizontal & Vertical angles, measurement of distance by Total Station.			24.3.2023
6	Mining lease boundary survey using Total Station .			25.3.2023
7	Base line fixation using Total Station.			31.3.2023
8	Coordinate point shifting and reference point shifting by Total Station	APRIL		8.4.2023

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
9	Fixation of control point by 02 traversing (both Horizontal and Vertical control points) with Total Station and auto level.			15.4.2023 21.4.2023
10	Topographic survey & existing features.			22.4.2023
11	Area calculation using software.			28.4.2023
12	Volume calculation using software			29.4.2023
13	GPS Survey.	MAY		6.5.2023
14	Preparation of plan and section using AUTOCAD.			6.5.2023
15	DGPS Survey.			12.5.2023
16	Reserve calculation of Ore.			20.5.2023

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MINING ENGG

SEMESTER: 4TH

SECTION : MNB1

NAME OF THE FACULTY : (1) ER. SOUBHAGYA RANJAN BISWAL, (2) ER. TANMAY KUMAR SAHOO (LECT. IN MINING ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT : MINE VENTILATION LAB (PR-2)

CLASS ALLOTTED /WEEK : 06 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	Determine the relative humidity by stationary hygrometer.	FEBRUARY		Dt-15-02-23, Dt-20-02-23
2	Determine the relative humidity by storrow's hygrometer.			Dt-22-02-23, Dt-27-02-23
3	Determine the cooling power of mine air using Kata thermometer.	MARCH		Dt-06-03-23, Dt-13-03-23 Dt-15-03-23
4	Study and sketching of air crossing, ventilation doors at pit-top & different types of explosive proof fire stopping.			Dt-20-03-23, Dt-22-03-23 Dt-27-03-23, Dt-29-03-23
5	Study & use of Vane Anemometer, Digital Anemometer, Velometer, Pitot static-tube measurement of quantity of air flow. Study of digital pressure meter.	APRIL		Dt-03-04-23, Dt-05-04-23 Dt-10-04-23, Dt-12-04-23 Dt-17-04-23, Dt-19-04-23
6	Determination of duct characteristic.			Dt-24-04-23, Dt-26-04-23
7	Study of constructional features of axial flow and centrifugal fans.	MAY		Dt-01-05-23, Dt-03-05-23 Dt-08-05-23
8	Determination of fan characteristic curve.			Dt-10-05-23
9	Study and sketching of regulator, airlocks.			Dt-15-05-23
10	Study and use of digital anemometer.			Dt-17-05-23
11	Measurement of quantity of air flow by digital anemometer			Dt-22-05-23

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MINING ENGG

SEMESTER: 4TH

SECTION : MNB1

NAME OF THE FACULTY : (1) ER. BIRENDRA BAI (LECT. IN ELECT. ENGG.), (2) ER. LILI NAYAK (T.A., ELECT. ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT: ELECTRICAL EQUIPMENT IN MINES LAB (PR-3)

CLASS ALLOTTED /WEEK : 06 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	Prepare an Electrical switch board to control two light points, one plug point, one fan point and put a required fuse.	FEBRUARY		Dt-15.02.23 , Dt-20.02.23 Dt-22.02.23 , Dt-27.02.23
2	Study of circuit breakers (Air Circuit Breaker & Oil Circuit Breaker).	MARCH		Dt-06.03.23 , Dt-15.03.23 Dt-13.03.23
3	Study of Gate End Box.			Dt-20.03.23 , Dt-22.03.23 Dt-27.03.23 , Dt-29.03.23
4	Study of Relays (Buchholz Relay , Over Current Relay).	APRIL		Dt-03.04.23 , Dt-05.04.23 Dt-10.04.23 , Dt-12.04.23
5	Identify the different part of given cable and find fault on the cable.			Dt-17.04.23 , Dt-19.04.23 Dt-24.04.23 , Dt-26.04.23
6	By the use of Megger check the continuity of windings, body to winding, body to earth of an 3-Phase induction Motor.	MAY		Dt-01.05.23 , Dt-02.05.23 Dt-05.05.23 , Dt-10.05.23 , Dt-15.05.23 Dt-17.05.23 , Dt-23.05.23

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MINING ENGG

SEMESTER: 4TH

SECTION : MNB1

NAME OF THE FACULTY : (1) ER. CHANDAN SAHOO (LECT. IN MINING ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT : TECHNICAL SEMINAR (PR-4)

CLASS ALLOTTED /WEEK : 06 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
	INTRODUCTION OF ADV. MINING METHOD	FEBRUARY		17.2.2023, 24.2.2023
		MARCH		3.3.2023, 10.3.2023
				17.3.2023, 24.3.2023
				31.3.2023.
	HEMM IN MINING	APRIL		7.4.2023, 14.4.2023
				21.4.2023, 28.4.2023
		MAY		5.5.2023 12.5.2023
				14.5.2023

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:- MINING ENGG.

SEMESTER: 4TH

SECTION : MNB1

NAME OF THE FACULTY : (1) ER. ATISH SAHOO (LECT. IN MINING ENGG.)

SEMESTER FROM DT.13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT: STUDENT CENTRED ACTIVITIES

CLASS ALLOTTED /WEEK :- 03 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
	EXTENSION LECTURES	FEBRUARY		17.2.2023 24.2.2023 25.2.2023
	PERSONALITY DEVELOPMENT	MARCH		3.3.2023 4.3.2023 10.3.2023 11.3.2023
	ENVIRONMENTAL ISSUES			18.3.2023 24.3.2023 25.3.2023 31.3.2023
	QUIZ, HOBBIES, FIELD, VISITS	APRIL		8.4.2023 15.4.2023 21.4.2023
	CULTURAL ACTIVITIES			22.4.2023 28.4.2023 29.4.2023
	LIBRARY STUDIES.	MAY		6.5.2023 12.5.2023 20.5.2023

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MINING ENGG

SEMESTER: 4TH

SECTION : MNB2

NAME OF THE FACULTY : (1) ER. ABINASH SAHOO (LECT. IN MECH. ENGG.), (2) ER. SIBASUNDAR MAIKAP (LECT. IN MINING ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT : MINE SURVEY - II LAB. (PR-1)

CLASS ALLOTTED /WEEK : 06 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	Fix triangulation and measurement of peripheral and hub angles. Base line measurement applying all corrections and plotting by co-ordinates.	FEBRUARY		Dt-17-02-2023 Dt-24-02-2023
2	Determine the north.			Dt-25-02-2023
3	Set out curves by Total Station and Theodolites.	MARCH		Dt-03-03-2023
4	Correlate underground and surface survey during survey camp.			Dt-04-03-2023
5	Measurement of Horizontal & Vertical angles, measurement of distance by Total Station.			Dt-10-03-2023 Dt-11-03-2023 Dt-17-03-2023
6	Mining lease boundary survey using Total Station .			Dt-18-03-2023
7	Base line fixation using Total Station.			Dt-24-03-2023
8	Coordinate point shifting and reference point shifting by Total Station			Dt-25-03-2023 Dt-31-03-2023

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
9	Fixation of control point by 02 traversing (both Horizontal and Vertical control points) with Total Station and auto level.	APRIL		DT-08-04-2023
10	Topographic survey & existing features.			DT-15-04-2023
11	Area calculation using software.			DT-21-04-2023
12	Volume calculation using software			DT-22-04-2023
13	GPS Survey.			DT-28-04-2023
14	Preparation of plan and section using AUTOCAD.			DT-29-04-2023
15	DGPS Survey.	MAY		DT-06-05-2023 DT-12-05-2023
16	Reserve calculation of Ore.			DT-20-05-2023

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MINING ENGG

SEMESTER: 4TH

SECTION : MNB2

NAME OF THE FACULTY : (1) ER. SWAPNAJIT RAY, (2) ER. TANMAY KUMAR SAHOO (LECT. IN MINING ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT : MINE VENTILATION LAB (PR-2)

CLASS ALLOTTED /WEEK : 06 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	Determine the relative humidity by stationary hygrometer.	FEBRUARY		Dt-14.02.23, Dt-16.02.23 Dt-21.02.23
2	Determine the relative humidity by storrow's hygrometer.			Dt-23.02.23, Dt-28.02.23
3	Determine the cooling power of mine air using Kata thermometer.	MARCH		Dt-02.03.23, Dt-09.03.23 Dt-14.03.23
4	Study and sketching of air crossing, ventilation doors at pit-top & different types of explosive proof fire stopping.			Dt-16.03.23, Dt-21.03.23 Dt-23.03.23, Dt-28.03.23
5	Study & use of Vane Anemometer, Digital Anemometer, Velometer, Pitot static-tube measurement of quantity of air flow. Study of digital pressure meter.	APRIL		Dt-04.04.23, Dt-06.04.23 Dt-11.04.23, Dt-13.04.23 Dt-18.04.23, Dt-20.04.23
6	Determination of duct characteristic.			Dt-25.04.23, Dt-27.04.23
7	Study of constructional features of axial flow and centrifugal fans.	MAY		Dt-02.05.23, Dt-04.05.23
8	Determination of fan characteristic curve.			Dt-09.05.23
9	Study and sketching of regulator, airlocks.			Dt-11.05.23
10	Study and use of digital anemometer.			Dt-16.05.23
11	Measurement of quantity of air flow by digital anemometer			Dt-18.05.23 Dt-23.05.23

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MINING ENGG

SEMESTER: 4TH

SECTION : MNB2

NAME OF THE FACULTY : (1) ER. BIRENDRA BAI (LECT. IN ELECT. ENGG.), (2) ER. KRUTIBASA BEHERA (T.A., ELECT. ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT: ELECTRICAL EQUIPMENT IN MINES LAB (PR-3)

CLASS ALLOTTED /WEEK : 06 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	Prepare an Electrical switch board to control two light points, one plug point, one fan point and put a required fuse.	FEBRUARY		Dt-15-02-23, Dt-20-02-23 Dt-22-02-23, Dt-27-02-23
2	Study of circuit breakers (Air Circuit Breaker & Oil Circuit Breaker).	MARCH		Dt-06-03-23, Dt-13-03-23 Dt-15-03-23
3	Study of Gate End Box.			Dt-20-03-23, Dt-22-03-23 Dt-27-03-23, Dt-29-03-23
4	Study of Relays (Buchholz Relay, Over Current Relay).	APRIL		Dt-03-04-23, Dt-05-04-23 Dt-10-04-23, Dt-12-04-23
5	Identify the different part of given cable and find fault on the cable.			Dt-17-04-23, Dt-19-04-23 Dt-24-04-23, Dt-26-04-23
6	By the use of Megger check the continuity of windings, body to winding, body to earth of an 3-Phase induction Motor.	MAY		Dt-01-05-23, Dt-02-05-23 Dt-08-05-23, Dt-10-05-23 Dt-15-05-23, Dt-17-05-23, Dt-22-05-23

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MINING ENGG

SEMESTER: 4TH

SECTION : MNB2

NAME OF THE FACULTY : (1) ER. CHANDAN SAHOO (LECT. IN MINING ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT : TECHNICAL SEMINAR (PR-4)

CLASS ALLOTTED /WEEK : 06 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
	INTRODUCTION OF ADV. MINING METHOD	FEBRUARY		17.2.2023, 24.2.2023
		MARCH		3.3.2023, 10.3.2023
				17.3.2023, 24.3.2023
				31.3.2023.
	HEMMI IN MINING	APRIL		7.4.2023, 14.4.2023
				21.4.2023, 28.4.2023
		MAY		5.5.2023, 12.5.2023
				14.5.2023

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CHHENDIPADA, ANGUL

PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:- MINING ENGG.

SEMESTER: 4TH

SECTION : MNB2

NAME OF THE FACULTY : (1) ER. ATISH SAHOO (LECT. IN MINING ENGG.)

SEMESTER FROM DT.13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT: STUDENT CENTRED ACTIVITIES

CLASS ALLOTTED /WEEK :- 03 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE	DATES
	EXTENSION LECTURES	FEBRUARY		17.2.2023 24.2.2023 25.2.2023	
	PERSONALITY DEVELOPMENT	MARCH		3.3.2023 4.3.2023 10.3.2023	11.3.2023
	ENVIRONMENTAL ISSUES			18.3.2023 25.3.2023	24.3.2023 31.3.2023
	QUIZ, HOBBIES, FIELD VISITS	APRIL		8.4.2023	15.4.2023 21.4.2023
	CULTURAL ACTIVITIES			22.4.2023	28.4.2023 29.4.2023
	LIBRARY STUDIES	MAY		6.5.2023	12.5.2023 20.5.2023

SIGNATURE OF THE CONCERNED FACULTY

SIGNATURE OF THE H.O.D.

PRINCIPAL

P.C.I.E.T., CHHENDIPADA
PRINCIPAL

Purna Chandra Institute of
Engineering & Technology
CHHENDIPADA, ANGUL