

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

THEORY LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH : MINING ENGINEERING, SEMESTER : 5TH
SECTION :- MNA

NAME OF THE FACULTY : (1) SUBHENDU KUMAR PANI (LECT. IN ENGLISH), (2) ANUPAMA BEHERA (LECT. IN MGMT)

SEMESTER FROM : 15.09.2022 to 21.01.2023

THEORY SUBJECT: ENTREPRENEURSHIP AND MANAGEMENT & SMART TECHNOLOGY (TH-1)

CLASS ALLOTTED /WEEK : 04 PERIODS

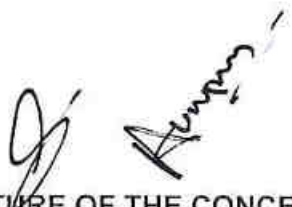
Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
1	Entrepreneurship	10	SEPTEMBER	
	Meaning of Entrepreneurship	1		Dt - 15.9.2022
	Need of Entrepreneurship	1		Dt - 16.9.2022
	Characteristics, Qualities and Types of entrepreneur, Functions	1		Dt - 19.9.2022
	Barriers in entrepreneurship	1		Dt - 20.9.2022
	Entrepreneurs vrs. Manager	1		Dt - 22.9.2022
	Forms of Business Ownership: Sole proprietorship, partnership forms and others	1		Dt - 23.9.2022
	Types of Industries, Concept of Start-ups	1		Dt - 26.9.2022
	Entrepreneurial support agencies at National, State, District Level(Sources): DIC, NSIC,OSIC, SIDBI, NABARD, Commercial Banks, KVIC etc.	2		Dt - 27.9.2022 Dt - 29.9.2022 , Dt - 30.9.2022
	Technology Business Incubators (TBI) and Science and Technology Entrepreneur Parks	1		Dt - 10.10.2022
2	Market Survey and Opportunity Identification (Business Planning)	8	OCTOBER	
	Business Planning	1		Dt - 11.10.2022
	SSI, Ancillary Units, Tiny Units, Service sector Units	1		Dt - 13.10.2022
	Time schedule Plan, Agencies to be contacted for Project Implementation	1		Dt - 14.10.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Assessment of Demand and supply and Potential areas of Growth	2		Dt - 17.10.2022 Dt - 18.10.2022
	Identifying Business Opportunity	1		Dt - 20.10.2022
	Final Product selection	2		Dt - 21.10.2022, Dt - 27.10.2022
	Project Report Preparation	4		
	Preliminary project report	1		Dt - 28.10.2022, Dt - 31.10.2022
3	Detailed project report, Techno economic Feasibility	2	NOVEMBER	Dt - 1.11.2022 Dt - 3.11.2022
	Project Viability	1		Dt - 4.11.2022
	Management Principles	4		
	Definitions of management	1		Dt - 7.11.2022
4	Principles of management	1		Dt - 8.11.2022
	Functions of management (planning, organising, staffing, directing and controlling etc.)	1		Dt - 10.11.2022
	Level of Management in an Organisation	1		Dt - 11.11.2022
	Functional Areas of Management	10		
	Production management	2		Dt - 14.11.2022
	Functions, Activities			Dt - 15.11.2022
	Productivity			Dt - 17.11.2022
	Quality control			Dt - 18.11.2022
5	Production Planning and control			Dt - 21.11.2022
	Inventory Management	2		Dt - 22.11.2022
	Need for Inventory Management			Dt - 24.11.2022
	Models/Techniques of Inventory Management	3		Dt - 25.11.2022
	Financial Management			Dt - 28.11.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Functions of Financial Management			Dt - 29.11.2022
	Management of Working Capital		DECEMBER	Dt - 1.12.2022
	Costing (only concept)			Dt - 2.12.2022
	Break even Analysis			Dt - 5.12.2022
	Brief idea about Accounting Terminologies: Book Keeping, Journal entry, Petty Cash book, P&L Accounts, Balance Sheets(only Concepts)			Dt - 6.12.2022
	Marketing Management	2		Dt - 8.12.2022
	Concept of Marketing and Marketing Management			Dt - 9.12.2022
	Marketing Techniques (only concepts)			Dt - 12.12.2022
	Concept of 4P s (Price, Place, Product, Promotion)			Dt - 13.12.2022
	Human Resource Management	2		Dt - 15.12.2022
	Functions of Personnel Management			Dt - 16.12.2022
	Manpower Planning, Recruitment, Sources of manpower, Selection process, Method of Testing, Methods of Training & Development, Payment of Wages			Dt - 19.12.2022
	Leadership and Motivation	6		
	Leadership	1		Dt - 20.12.2022
	Definition and Need/Importance			Dt - 22.12.2022
6	Qualities and functions of a leader	1		Dt - 23.12.2022
	Manager Vs Leader			Dt - 26.12.2022
	Style of Leadership (Autocratic, Democratic, Participative)			Dt - 27.12.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Motivation	1		Dt - 28.12.2022
	Definition and characteristics			Dt - 29.12.2022
	Importance of motivation			Dt - 30.12.2022
	Factors affecting motivation	1		Dt - 30.12.2022
	Theories of motivation (Maslow)		JANUARY	Dt - 2.1.2023
	Methods of Improving Motivation			Dt - 2.1.2023
	Importance of Communication in Business	1		Dt - 3.1.2023
	Types and Barriers of Communication	1		Dt - 4.1.2023
	Work Culture, TQM & Safety	5		o
	Human relationship and Performance in Organization	1		Dt - 4.1.2023
7	Relations with Peers, Superiors and Subordinates	1		Dt - 6.1.2023
	TQM concepts: Quality Policy, Quality Management, Quality system	2		Dt - 9.1.2023
	Accidents and Safety, Cause, preventive measures, General Safety Rules, Personal Protection Equipment(PPE)	1		Dt - 10.1.2023
	Legislation	6		
	Intellectual Property Rights(IPR), Patents, Trademarks, Copyrights	2		Dt - 10.1.2023
8	Features of Factories Act 1948 with Amendment (only salient points)	2		Dt - 11.1.2023
	Features of Payment of Wages Act 1936 (only salient points)	2		Dt - 11.1.2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
9	Smart Technology	6		
	Concept of IOT, How IOT works	1		Dt - 12.1.2023
	Components of IOT, Characteristics of IOT, Categories of IOT	2		Dt - 16.1.2023, Dt, 17.1.2023
	Applications of IOT- Smart Cities, Smart Transportation, Smart Home, Smart Healthcare, Smart Industry, Smart Agriculture, Smart Energy Management etc.	3		Dt - 18.1.2023 Dt - 20.1.2023



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THEORY LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH : MINING ENGINEERING, SEMESTER : 5TH
SECTION :- MNA

NAME OF THE FACULTY : (1) ER. GOBINA CHANDRA SETHY,
(2) ER. SIBASUNDAR MAIKAP, (LECT. IN MINING ENGG.)

SEMESTER FROM : 15.09.2022 to 21.01.2023

THEORY SUBJECT: MINE HAZARD & SAFETY (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	Mine gases & gas testing	6	SEPTEMBER	
	Composition of atmospheric air. Different mine gases, their properties and physical effects .	1		Dt - 15/9/2022
	Fire damps, black damp, stink damp, white damp and after damp in mines.	1		Dt - 16.9.2022
	Flame safety lamp & its working principle.			Dt - 16.9.2022
	Gas testing by flame safety lamp by accumulation test & percentage test.	1		Dt - 20.9.2022
	Precaution for gas testing.	1		Dt - 21.9.2022
	Various parts of flame safety lamp, special features.	1		Dt - 22.9.2022
	Limitations of flame safety lamp.	1		Dt - 23.9.2022
2	Emission of firedamp in U/g workings	6		
	Gradual exudation	2		Dt - 27.9.2022, 28.9.2022
	Blower & outbursts of firedamp in U/g workings.	4		Dt - 29.9.2022, 30.9.2022
3	Define fires & spontaneous heating	10	OCTOBER	
	Incubation period	3		Dt - 10.10.2022, 11.10.22, 12.10.22

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Spontaneous heating and its causes and effects.	3		Dt-13-10-22, 14-10-22, 18-10-22
	Preventive measures against spontaneous heating.	3		Dt-19-10-22, 20-10-22, 21-10-22
	CO/O2 ratio & CO2/O2 ratio.	1		Dt-26-10-22
	Mine Explosion	10		
	Coal dust explosion & fire damp explosion with their causes & prevention.	2		Dt-27-10-22, 28-10-22
	Inflammability of coal dust & fire damp.	2	NOVEMBER	Dt-1-11-22, 2-11-22
4	Coward's diagram.	1		Dt-3-11-22
	Prevention, suppression & treatment of dust.	2		Dt-4-11-22, 8-11-22
	Sampling of dust in Mines.	2		Dt-9-11-22, 10-11-22
	Stone dust barrier.	1		Dt-11-11-22
	Mine Inundation	8		
	Sources of water in mines & its danger.	1		Dt-15-11-22
	Precaution against inundation.	1		Dt-16-11-22
	Burnside safety boring apparatus.	1		Dt-17-11-22
5	Precaution while approaching water logged area.	2		Dt-18-11-22, 22-11-22
	Water dams- its construction & design. (Without derivation of formula)	1		Dt-23-11-22
	Water danger plan.	1		Dt-24-11-22
	Statutory provision for working near water body.	1		Dt-25-11-22

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6	Mine lighting & illumination	5		
	Illumination and its units.	2		Dt- 29-11-22, 30-11-22
	Standards of lighting at different parts of mine as per mine regulation.	3	DECEMBER	Dt- 1-12-22, 2-12-22, 6-12-22
7	Noise and Vibration	5		
	effect of noise & vibration on miners & mine structures & other surface structure with respect to statutory provision.	5		Dt- 7-12-22, 8-12-22, 9-12-22, 13-12-22, 14-12-22
8	Mine Rescue and Recovery	10		
	Proto-IV, Proto-V, Drager BG-174, Self rescuer, Smoke helmet, Gas mask.	4		Dt- 15-12-22, 16-12-22, 20-12-22, 21-12-22
	Construction of Rescue brigade and their role in rescue and recovery operation.	3		Dt- 22-12-22, 23-12-22, 27-12-22, 28-12-22, 29-12-22, 30-12-22
	Mine Rescue rules 1985 Annexure I,II,III.	3	JANUARY	REVISION - 3-1-23, 4-1-23, 5-1-23, 6-1-23, 10-1-23, 11-1-23, 12-1-23, 13-1-23, 17-1-23, 18-1-23, 19-1-23, 20-1-23

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THEORY LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH : MINING ENGINEERING, SEMESTER : 5TH
SECTION :- MNA

NAME OF THE FACULTY : (1) ER. DILLIP KU. DEHURY,
(2) ER. ATISH KUMAR SAHOO (LECT. IN MINING ENGG.)

SEMESTER FROM : 15.09.2022 to 21.01.2023

THEORY SUBJECT: MINE LEGISLATION & GENERAL SAFETY-I (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	Mines Act 1952	14	SEPTEMBER	
	Various provisions of Mines Act 1952.	2		Dt - 15.9.2022 Dt - 19.9.2022
	Short titles	2		Dt - 20.9.2022 Dt - 21.9.2022
	Inspectors and certifying surgeons	2		Dt - 22.9.2022 Dt - 26.9.2022
	Committees	2		Dt - 27.9.2022 Dt - 28.9.2022, 29.9.2022
	Provision to health and safety	2		Dt - 30.9.2022 Dt - 31.9.2022
	Hours and limitation of employment	2	OCTOBER	Dt - 10.10.2022 Dt - 11.10.2022
	Leave with wages	2		Dt - 12.10.2022 Dt - 13.10.2022
2	Mines Rules 1955	10		
	Various provisions of Mines Rule 1955.	1		Dt - 17.10.2022 Dt - 19.10.2022
	Short titles	2		Dt - 20.10.2022 Dt - 26.10.2022
	Committees	1		Dt - 27.10.2022 Dt - 31.10.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Certifying surgeons	2	NOVEMBER	Dt - 1.11.2022 Dt - 2.11.2022
	Workmens Inspector	1		Dt - 3.11.2022
	Health and sanitation provision	1		Dt - 7.11.2022 Dt - 8.11.2022
	Employment of persons	1		Dt - 9.11.2022
	Leave with wages and overtime	1		Dt - 10.11.2022 Dt - 14.11.2022
	Coal Mines Regulation 2017	18		
	Various Provisions of C.M.R. 2017.	1		Dt - 15.11.2022 Dt - 16.11.2022
	Short titles	2		Dt - 17.11.2022 Dt - 21.11.2022
	Competent persons and their duties and responsibilities	2		Dt - 22.11.2022 Dt - 23.11.2022
	Officials and their duties and responsibilities	3		Dt - 24.11.2022 Dt - 28.11.2022, Dt - 29.11.2022
3	Plans and sections	2		Dt - 30.11.2022
	Support system	2	DECEMBER	Dt - 1.12.2022 Dt - 5.12.2022
	Ventilation system	2		Dt - 6.12.2022 Dt - 7.12.2022
	Mine work	2		Dt - 8.12.2022 Dt - 12.12.2022
	Winding system	1		Dt - 13.12.2022
	Transportation of men and material	1		Dt - 14.12.2022

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4	Mines Rescue Rules 1985	5		
	Various provisions of Mines Rescue Rules 1985.	1		Dt - 15.12.2022 Dt - 19.12.2022
	Rescue room	1		Dt - 21.12.2022 Dt - 22.12.2022
	Rescue station	2		Dt - 26.12.2022 Dt - 27.12.2022
	Rescue team	1		Dt - 28.12.2022
5	Indian Explosive Rules 2008	7		
	Discuss various provisions of Indian Explosive Rules 2008.	1		Dt - 29.12.2022
	Storage and transportation of explosive	3	JANUARY	Dt - 2.1.2023, 3.1.2023 4.1.2023
Stemming, charging and blasting	3		Dt - 5.1.2023, Dt - 9.1.2023 Dt - 10.1.2023, Dt - 11.1.2023	
6	Central Electricity Authority 2010	6		
	Discuss various provisions of Central Electricity Authority 2010.	6		Dt - 12.1.2023, Dt - 16.1.2023, Dt - 17.1.2023 Dt - 18.1.2023, Dt - 19.1.2023



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BRANCH : MINING ENGINEERING, SEMESTER : 5TH
SECTION :- MNA

NAME OF THE FACULTY : (1) ER. PRATYUSHA PRAVANJAN BEHERA,
(2) ER. SRIKANTA SAMAL (LECT. IN MINING ENGG.)

SEMESTER FROM : 15.09.2022 to 21.01.2023

THEORY SUBJECT: MINE MACHINERY - I (TH-4)

CLASS ALLOTTED /WEEK : 04 PERIODS

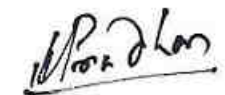
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	Wire Ropes	12	SEPTEMBER	
	Types of wire ropes used in Mines	1		Dt- 16.9.22
	Constructional features of wire ropes & lay of wire ropes	1		Dt- 19.9.22
	Factor of safety to wire ropes nominal & actual factor of safety of wire ropes	2		Dt- 20.9.22, 21.9.22, 23.9.22
	Factors influencing the F.O.S.	2		Dt- 26.9.22, 27.9.22, 28.9.22
1	Efficiency of rope construction, space factor & cross sectional area rope	1		Dt- 30.9.22
	Factors affecting deterioration of ropes	1	OCTOBER	Dt- 10.10.22
	Care & maintenance of ropes	1		Dt- 11.10.22
	Testing & examination of wire ropes	1		Dt- 12.10.22
	Procedure of splicing of wire rope	1		Dt- 14.10.22
	Rope capel for haulage winding & recapping	1		Dt- 17.10.22

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
2	Rope Haulage	14		
	Transportation in mines by rope haulage	2		Dt-18-10-22, 19-10-22, 21-10-22
	Type of rope haulage	2		Dt-26-10-22, 28-10-22
	Various types of rope haulage with simple sketches	3	NOVEMBER	Dt-1-11-22, 2-11-22, 4-11-22, 7-11-22
	Different type of safety devices on rope haulage roadways	4		Dt-8-11-22, 9-11-22, 11-11-22, 14-11-22
	Different types of clips & couplings	3		Dt-15-11-22, 16-11-22, 18-11-22
3	Headgear	5		
	Function of headgear	2		Dt-21-11-22, 22-11-22, 23-11-22
	Constructional features of headgear pulley	2		Dt-25-11-22, 28-11-22, 29-11-22
	Angle of fleet	1		Dt-30-11-22
4	Cage and Shaft Fittings	6	DECEMBER	
	Cage, cage suspension gear, detaching hooks & its function, safety catch at headgear & keps	3		Dt-2-12-22, 5-12-22, 6-12-22
	Types of guide	1		Dt-7-12-22
	Rigid guide, flexible shoes, guide rope suspension & tensioning arrangement	2		Dt-9-12-22, 12-12-22
5	Winding drum	6		
	Different profiles of winding Drum	2		Dt-13-12-22, 14-12-22
	Different types of winding brake	2		Dt-16-12-22, 19-12-22
	Various types of safety devices on winding system	2		Dt-20-12-22, 21-12-22

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
6	Friction Winding	5		
	Principle & constructional features of ground-mounted & tower-mounted koepe winder	2		Dt- 23.12.22 , 26.12.22
	Advantages & disadvantages of koepe winding	2		Dt- 27.12.22 , 28.12.22
	Multirope system of koepe winding	1		Dt- 30.12.22
7	Skip Winding	6	JANUARY	
	Constructional features bottom discharge skip, Top discharge skip	3		Dt- 2.1.23, 3.1.23, 4.1.23
	Compare skip winding cage winding	3		Dt- 6.1.23, 9.1.23, 10.1.23
8	Pit top & Pit bottom circuit layout	6		
	Factors affecting pit top & pit bottom layouts	3		Dt- 11.1.23, 13.1.23, 16.1.23
	Different types of pit top & pit bottom car/tub circuit layouts	3		Dt- 17.1.23, 18.1.23, 20.1.23


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THEORY LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH : MINING ENGINEERING, SEMESTER : 5TH
SECTION :- MNA

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

SEMESTER FROM : 15.09.2022 to 21.01.2023

THEORY SUBJECT: UNDERGROUND METAL MINING (TH-5)


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	Access to Ore Body	5	SEPTEMBER	
	Classify modes of entries	1		Dt-15/09/2022
	Adits	1		Dt-16/09/2022
	Inclines and shafts	2		Dt-21/09/2022, Dt-23/09/2022
	Applicability of entries	1		Dt-26/09/2022
2	Development in Underground Metal Mine	12		
	Formation of blocks of mineral deposit	1		Dt-28/09/2022
	Level interval	1		Dt-29/09/2022
	Open raising method	1		Dt-30/09/2022
	Two compartment method	1	OCTOBER	Dt-10/10/2022
	Jora raise lift	1		Dt-12/10/2022, Dt-13/10/2022
	Long hole drilling method./Vertical Crater retreat (VCR) method.	2		Dt-14/10/2022, Dt-17/10/2022
	Alimak raise climber	2		Dt-19/10/2022, Dt-20/10/2022
	Raise borer.	1		Dt-21/10/2022
Development of Ore passe system.	2		Dt-26/10/2022, Dt-27/10/2022	

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3	Give a Comparative Study between Coal and Metal Mining	3		
	Coal mining	1		Dt - 28/10/2022
	Metal mining	1		Dt - 31/10/2022
	Comparative study	1	NOVEMBER	Dt - 02/11/2022
4	Stoping Methods	18		
	Classify stoping methods with application and factors affecting methods of stoping.	2		Dt - 03/11/2022, Dt - 04/11/2022
	Preparatory arrangement for stoping.	1		Dt - 07/11/2022
	The following methods with layout including drilling, blasting, transportation and supports.	3		Dt - 09/11/2022, Dt - 10/11/2022, Dt - 11/11/2022
	Open stoping.	1		Dt - 14/11/2022
	Open stoping with pillar support.	2		Dt - 16/11/2022, Dt - 17/11/2022, Dt - 18/11/2022
	Shrinkage stoping.	2		Dt - 21/11/2022, Dt - 23/11/2022
	Cut & fill stoping.	2		Dt - 24/11/2022, Dt - 25/11/2022
	Square set stoping.	2		Dt - 28/11/2022, Dt - 30/11/2022
	Block caving.	1	DECEMBER	Dt - 01/12/2022
	Sub-level caving.	1		Dt - 02/12/2022
	Top slicing.	1		Dt - 05/12/2022, Dt - 07/12/2022

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5	Stone Drifting	7		
	Method of drifting	1		Dt-08/12/2022, Dt-09/12/2022
	Drilling	1		Dt-12/12/2022
	Blasting	2		Dt-14/12/2022, Dt-15/12/2022, Dt-16/12/2022
	Ventilation	2		Dt-19/12/2022, Dt-21/12/2022, Dt-23/12/2022
	Lighting	1		Dt-26/12/2022
6	Rock Burst	5		
	causes of rock burst	2		Dt-28/12/2022, Dt-29/12/2022, Dt-30/12/2022
	Prevention of rock burst	3	JANUARY	Dt-02/01/2023, Dt-04/01/2023, Dt-05/01/2023
7	Face Mechanization	10		
	use of jumbo drill with air leg.	3		Dt-09/01/2023, Dt-11/01/2023, Dt-12/01/2023
	various Loading & Transportation System like	3		Dt-13/01/2023, Dt-16/01/2023, Dt-18/01/2023
	L.H.D., L.P.D.T.(Low Profile Dump Truck), rocker shovel, spiral chutes and draw points, Scraper etc	4		Dt-19/01/2023, Dt-20/01/2023


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THEORY LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH : MINING ENGINEERING, SEMESTER : 5TH
SECTION :- MNB

NAME OF THE FACULTY : (1) SUBHENDU KUMAR PANI (LECT. IN ENGLISH), (2) ANUPAMA BEHERA (LECT. IN MGMT)

SEMESTER FROM : 15.09.2022 to 21.01.2023

THEORY SUBJECT: ENTREPRENEURSHIP AND MANAGEMENT & SMART TECHNOLOGY (TH-1)

CLASS ALLOTTED /WEEK : 04 PERIODS

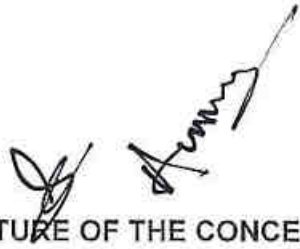
Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
1	Entrepreneurship	10	SEPTEMBER	
	Meaning of Entrepreneurship	1		Dt - 15.9.2022
	Need of Entrepreneurship	1		Dt - 19.9.2022
	Characteristics, Qualities and Types of entrepreneur, Functions	1		Dt - 20.9.2022
	Barriers in entrepreneurship	1		Dt - 21.9.2022
	Entrepreneurs vrs. Manager	1		Dt - 22.9.2022
	Forms of Business Ownership: Sole proprietorship, partnership forms and others	1		Dt - 26.9.2022
	Types of Industries, Concept of Start-ups	1		Dt - 27.9.2022
	Entrepreneurial support agencies at National, State, District Level(Sources): DIC, NSIC,OSIC, SIDBI, NABARD, Commercial Banks, KVIC etc.	2		Dt - 28.9.2022
	Technology Business Incubators (TBI) and Science and Technology Entrepreneur Parks	1		Dt - 29.9.2022
2	Market Survey and Opportunity Identification (Business Planning)	8		
	Business Planning	1		Dt - 10.10.2022
	SSI, Ancillary Units, Tiny Units, Service sector Units	1		Dt - 11.10.2022
	Time schedule Plan, Agencies to be contacted for Project Implementation	1		Dt - 12.10.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Assessment of Demand and supply and Potential areas of Growth	2		Dt - 13.10.2022 Dt - 17.10.2022
	Identifying Business Opportunity	1		Dt - 18.10.2022
	Final Product selection	2		Dt - 19.10.2022, Dt - 20.10.2022
3	Project Report Preparation	4		
	Preliminary project report	1		Dt - 26.10.2022, Dt - 27.10.2022
	Detailed project report, Techno economic Feasibility	2		Dt - 31.10.2022
	Project Viability	1	NOVEMBER	Dt - 1.11.2022
4	Management Principles	4		
	Definitions of management	1		Dt - 2.11.2022
	Principles of management	1		Dt - 3.11.2022
	Functions of management (planning, organising, staffing, directing and controlling etc.)	1		Dt - 7.11.2022
	Level of Management in an Organisation	1		Dt - 8.11.2022
5	Functional Areas of Management	10		
	Production management	2		Dt - 9.11.2022
	Functions, Activities			Dt - 10.11.2022
	Productivity			Dt - 14.11.2022
	Quality control			Dt - 15.11.2022
	Production Planning and control			Dt - 16.11.2022
	Inventory Management	2		Dt - 17.11.2022
	Need for Inventory Management			Dt - 21.11.2022
	Models/Techniques of Inventory Management	3		Dt - 22.11.2022
	Financial Management			Dt - 23.11.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Functions of Financial Management			Dt - 24.11.2022
	Management of Working Capital			Dt - 28.11.2022
	Costing (only concept)			Dt - 29.11.2022
	Break even Analysis			Dt - 30.11.2022
	Brief idea about Accounting Terminologies: Book Keeping, Journal entry, Petty Cash book, P&L Accounts, Balance Sheets(only Concepts)		DECEMBER	Dt - 1.12.2022
	Marketing Management	2		Dt - 5.12.2022
	Concept of Marketing and Marketing Management			Dt - 6.12.2022
	Marketing Techniques (only concepts)			Dt - 7.12.2022
	Concept of 4P s (Price, Place, Product, Promotion)			Dt - 8.12.2022
	Human Resource Management	2		Dt - 12.12.2022
	Functions of Personnel Management			Dt - 13.12.2022
	Manpower Planning, Recruitment, Sources of manpower, Selection process, Method of Testing, Methods of Training & Development, Payment of Wages			Dt - 14.12.2022
	Leadership and Motivation	6		
	Leadership	1		Dt - 15.12.2022
	Definition and Need/Importance			Dt - 15.12.2022
6	Qualities and functions of a leader	1		Dt - 19.12.2022
	Manager Vs Leader			Dt - 19.12.2022
	Style of Leadership (Autocratic, Democratic, Participative)			Dt - 19.12.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Motivation	1		Dt -20.12.2022
	Definition and characteristics			Dt -21.12.2022
	Importance of motivation			Dt -22.12.2022
	Factors affecting motivation	1		Dt -22.12.2022
	Theories of motivation (Maslow)			Dt -26.12.2022
	Methods of Improving Motivation			Dt -27.12.2022
	Importance of Communication in Business	1		Dt -28-12.2022
	Types and Barriers of Communication	1		Dt -29.12.2022
	Work Culture, TQM & Safety	5	JANUARY	
7	Human relationship and Performance in Organization	1		Dt -2.1.2023
	Relations with Peers, Superiors and Subordinates	1		Dt -3.1.2023
	TQM concepts: Quality Policy, Quality Management, Quality system	2		Dt -4.1.2023
	Accidents and Safety, Cause, preventive measures, General Safety Rules , Personal Protection Equipment(PPE)	1		Dt -5.1.2023
	Legislation	6		
8	Intellectual Property Rights(IPR), Patents, Trademarks, Copyrights	2		Dt -9.1.2023
	Features of Factories Act 1948 with Amendment (only salient points)	2		Dt -10.1.2023
	Features of Payment of Wages Act 1936 (only salient points)	2		Dt -11.1.2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
9	Smart Technology	6		
	Concept of IOT, How IOT works	1		DT - 12.1.2023 DT - 16.1.2023
	Components of IOT, Characteristics of IOT, Categories of IOT	2		DT - 17.1.2023 DT - 18.1.2023
	Applications of IOT- Smart Cities, Smart Transportation, Smart Home, Smart Healthcare, Smart Industry, Smart Agriculture, Smart Energy Management etc.	3		DT - 18.1.2023 DT - 19.1.2023



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THEORY LESSON PLAN FOR THE SESSION 2022 - 23

**BRANCH : MINING ENGINEERING, SEMESTER : 5TH
SECTION :- MNB**

**NAME OF THE FACULTY : (1) ER. GOBINA CHANDRA SETHY,
(2) ER. SIBASUNDAR MAIKAP, (LECT. IN MINING ENGG.)**

SEMESTER FROM : 15.09.2022 to 21.01.2023

THEORY SUBJECT: MINE HAZARD & SAFETY (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	Mine gases & gas testing	6	SEPTEMBER	
	Composition of atmospheric air. Different mine gases, their properties and physical effects .	1		Dt-16-09-2022
	Fire damps, black damp, stink damp, white damp and after damp in mines.	1		Dt-19-09-2022
	Flame safety lamp & its working principle.			Dt-20-09-2022
	Gas testing by flame safety lamp by accumulation test & percentage test.	1		Dt-21-09-2022
	Precaution for gas testing.	1		Dt-23-09-2022
	Various parts of flame safety lamp, special features.	1		Dt-26-09-2022
	Limitations of flame safety lamp.	1		Dt-27-09-2022
2	Emission of firedamp in U/g workings	6		
	Gradual exudation	2		Dt-28-09-2022 , Dt-30-09-2022
	Blower & outbursts of firedamp in U/g workings.	4	OCTOBER	Dt-10-10-2022 , Dt-11-10-2022 , Dt-12-10-2022 Dt-14-10-2022
3	Define fires & spontaneous heating	10		
	Incubation period	3		Dt-17-10-2022 , Dt-18-10-2022 , Dt-19-10-2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Spontaneous heating and its causes and effects.	3		Dt-21-10-2022, Dt-26-10-2022, Dt-28-10-2022
	Preventive measures against spontaneous heating.	3		Dt-31-10-2022
	CO/O2 ratio & CO2/O2 ratio.	1	NOVEMBER	Dt-01-11-2022
4	Mine Explosion	10		
	Coal dust explosion & fire damp explosion with their causes & prevention.	2		Dt-02-11-2022, Dt-04-11-2022
	Inflammability of coal dust & fire damp.	2		Dt-07-11-2022, Dt-08-11-2022
	Coward's diagram.	1		Dt-09-11-2022
	Prevention, suppression & treatment of dust.	2		Dt-14-11-2022, Dt-15-11-2022
	Sampling of dust in Mines.	2		Dt-16-11-2022, Dt-18-11-2022
	Stone dust barrier.	1		Dt-21-11-2022
5	Mine Inundation	8		
	Sources of water in mines & its danger.	1		Dt-22-11-2022
	Precaution against inundation.	1		Dt-23-11-2022
	Burnside safety boring apparatus.	1		Dt-28-11-2022
	Precaution while approaching water logged area.	2		Dt-29-11-2022, Dt-30-11-2022
	Water dams- its construction & design. (Without derivation of formula)	1	DECEMBER	Dt-02-12-2022
	Water danger plan.	1		Dt-05-12-2022
Statutory provision for working near water body.	1		Dt-06-12-2022, Dt-07-12-2022 Dt-09-12-2022	

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
6	Mine lighting & illumination	5		
	Illumination and its units.	2		Dt-12/12/2022, Dt-13/12/2022
	Standards of lighting at different parts of mine as per mine regulation.	3		Dt-14/12/2022, Dt-19/12/2022, Dt-20/12/2022 Dt-21/12/2022
7	Noise and Vibration	5		
	effect of noise & vibration on miners & mine structures & other surface structure with respect to statutory provision.	5		Dt-23/12/2022, Dt-26/12/2022, Dt-27/12/2022 Dt-28/12/2022, Dt-30/12/2022
8	Mine Rescue and Recovery	10	JANUARY	
	Proto-IV, Proto-V, Drager BG-174, Self rescuer, Smoke helmet, Gas mask.	4		Dt-02/01/2023, Dt-03/01/2023, Dt-04/01/2023 Dt-06/01/2023, Dt-09/01/2023
	Construction of Rescue brigade and their role in rescue and recovery operation.	3		Dt-10/01/2023, Dt-11/01/2023, Dt-13/01/2023
	Mine Rescue rules 1985 Annexure I,II,III.	3		Dt-16/01/2023, Dt-17/01/2023, Dt-18/01/2023 Dt-20/01/2023

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THEORY LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH : MINING ENGINEERING, SEMESTER : 5TH
SECTION :- MNB

NAME OF THE FACULTY : (1) ER. DILLIP KU. DEHURY,
(2) ER. ATISH KUMAR SAHOO (LECT. IN MINING ENGG.)

SEMESTER FROM : 15.09.2022 to 21.01.2023

THEORY SUBJECT: MINE LEGISLATION & GENERAL SAFETY-I (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	Mines Act 1952	14	SEPTEMBER	
	Various provisions of Mines Act 1952.	2		Dt - 15.9.2022 Dt - 16.9.2022
	Short titles	2		Dt - 20.9.2022 Dt - 21.9.2022
	Inspectors and certifying surgeons	2		Dt - 22.9.2022 Dt - 23.9.2022
	Committees	2		Dt - 27.9.2022 Dt - 28.9.2022
	Provision to health and safety	2		Dt - 29.9.2022 Dt - 30.9.2022
	Hours and limitation of employment	2	OCTOBER	Dt - 11.10.2022 Dt - 12.10.2022
	Leave with wages	2		Dt - 13.10.2022 Dt - 14.10.2022
2	Mines Rules 1955	10		
	Various provisions of Mines Rule 1955.	1		Dt - 18.10.2022 Dt - 19.10.2022
	Short titles	2		Dt - 21.10.2022 Dt - 26.10.2022
	Committees	1		Dt - 27.10.2022 Dt - 28.10.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Certifying surgeons	2	NOVEMBER	Dt - 1.11.2022 Dt - 2.11.2022, Dt - 3.11.2022
	Workmens Inspector	1		Dt - 4.11.2022
	Health and sanitation provision	1		Dt - 8.11.2022, Dt - 9.11.2022
	Employment of persons	1		Dt - 10.11.2022, Dt - 11.11.2022 Dt - 15.11.2022
	Leave with wages and overtime	1		Dt - 16.11.2022
	Coal Mines Regulation 2017	18		
	Various Provisions of C.M.R. 2017.	1		Dt - 17.11.2022, Dt - 18.11.2022
	Short titles	2		Dt - 22.11.2022, Dt - 23.11.2022 Dt - 24.11.2022,
	Competent persons and their duties and responsibilities	2		Dt - 25.11.2022, Dt - 29.11.2022 Dt - 30.11.2022
	Officials and their duties and responsibilities	3	DECEMBER	Dt - 1.12.2022, Dt - 2.12.2022 Dt - 6.12.2022
3	Plans and sections	2		Dt - 7.12.2022, Dt - 8.12.2022
	Support system	2		Dt - 9.12.2022, Dt - 13.12.2022
	Ventilation system	2		Dt - 14.12.2022, Dt - 15.12.2022
	Mine work	2		Dt - 16.12.2022, Dt - 20.12.2022
	Winding system	1		Dt - 21.12.2022
	Transportation of men and material	1		Dt - 22.12.2022, Dt - 27.12.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
4	Mines Rescue Rules 1985	5		
	Various provisions of Mines Rescue Rules 1985.	1		Dt - 28.12.2022, Dt. 29.12.2022
	Rescue room	1		Dt - 30.12.2022
	Rescue station	2	JANVARY	3.1.2023
	Rescue team	1		Dt - 4.1.2023
5	Indian Explosive Rules 2008	7		
	Discuss various provisions of Indian Explosive Rules 2008.	1		Dt - 5.1.2023
	Storage and transportation of explosive	3		Dt - 06.01.2023, Dt - 10.01.2023 Dt - 11.01.2023
	Stemming, charging and blasting	3		Dt - 12.01.2023, Dt - 13.01.2023
6	Central Electricity Authority 2010	6		
	Discuss various provisions of Central Electricity Authority 2010.	6		Dt - 17.01.2023, Dt - 18.01.2023 Dt - 19.01.2023, Dt - 20.01.2023



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THEORY LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH : MINING ENGINEERING, SEMESTER : 5TH
SECTION :- MNB

NAME OF THE FACULTY : (1) ER. PRATYUSHA PRAVANJAN BEHERA,
(2) ER. SRIKANTA SAMAL (LECT. IN MINING ENGG.)

SEMESTER FROM : 15.09.2022 to 21.01.2023

THEORY SUBJECT: MINE MACHINERY - I (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
	Wire Ropes	12	SEPTEMBER	
	Types of wire ropes used in Mines	1		Dt- 15.9.22
	Constructional features of wire ropes & lay of wire ropes	1		Dt- 19.9.22
	Factor of safety to wire ropes nominal & actual factor of safety of wire ropes	2		Dt- 20.9.22, 21.9.22
	Factors influencing the F.O.S.	2		Dt- 22.9.22, 26.9.22
1	Efficiency of rope construction, space factor & cross sectional area rope	1		Dt- 27.9.22
	Factors affecting deterioration of ropes	1		Dt- 28.9.22
	Care & maintenance of ropes	1		Dt- 29.9.22
	Testing & examination of wire ropes	1		Dt- 30.9.22
	Procedure of splicing of wire rope	1	October	Dt- 1.10.22
	Rope capel for haulage winding & recapping	1		Dt- 10.10.22, 11.10.22

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
2	Rope Haulage	14		
	Transportation in mines by rope haulage	2		Dt- 12.10.22, 13.10.22, 17.10.22
	Type of rope haulage	2		Dt- 18.10.22, 19.10.22, 20.10.22
	Various types of rope haulage with simple sketches	3		Dt- 26.10.22, 27.10.22, 31.10.22
	Different type of safety devices on rope haulage roadways	4	NOVEMBER	Dt- 1.11.22, 2.11.22, 3.11.22, 7.11.22
	Different types of clips & couplings	3		Dt- 8.11.22, 9.11.22, 10.11.22
3	Headgear	5		
	Function of headgear	2		Dt- 14.11.22, 15.11.22, 16.11.22
	Constructional features of headgear pulley	2		Dt- 17.11.22, 21.11.22, 22.11.22
	Angle of fleet	1		Dt- 23.11.22, 24.11.22
4	Cage and Shaft Fittings	6		
	Cage, cage suspension gear, detaching hooks & its function, safety catch at headgear & keps	3		Dt- 28.11.22, 29.11.22, 30.11.22
	Types of guide	1	DECEMBER	Dt- 1.12.22, 5.12.22
	Rigid guide, flexible shoes, guide rope suspension & tensioning arrangement	2		Dt- 6.12.22, 7.12.22, 8.12.22
5	Winding drum	6		
	Different profiles of winding Drum	2		Dt- 19.12.22, 20.12.22
	Different types of winding brake	2		Dt- 21.12.22
	Various types of safety devices on winding system	2		Dt- 22.12.22

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
6	Friction Winding	5		
	Principle & constructional features of ground-mounted & tower-mounted koepe winder	2		Dt - 26.12.22, 27.12.22
	Advantages & disadvantages of koepe winding	2		Dt - 28.12.22, 29.12.22
	Multirope system of koepe winding	1	JANUARY	Dt - 2.1.23
7	Skip Winding	6		
	Constructional features bottom discharge skip, Top discharge skip	3		Dt - 3.1.23, 4.1.23, 5.1.23
	Compare skip winding cage winding	3		Dt - 9.1.23, 10.1.23, 11.1.23
8	Pit top & Pit bottom circuit layout	6		
	Factors affecting pit top & pit bottom layouts	3		Dt - 12.1.23, 16.1.23
	Different types of pit top & pit bottom car/tub circuit layouts	3		Dt - 17.1.23, 18.1.23, 19.1.23

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THEORY LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH : MINING ENGINEERING, SEMESTER : 5TH
SECTION :- MNB

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

SEMESTER FROM : 15.09.2022 to 21.01.2023

THEORY SUBJECT: UNDERGROUND METAL MINING (TH-5)

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	Access to Ore Body	5	SEPTEMBER	
	Classify modes of entries	1		Dt-15-09-2022
	Adits	1		Dt-19-09-2022
	Inclines and shafts	2		Dt-20-09-2022, Dt-21-09-2022
	Applicability of entries	1		Dt-22-09-2022
2	Development in Underground Metal Mine	12		
	Formation of blocks of mineral deposit	1		Dt-26-09-2022
	Level interval	1		Dt-27-09-2022
	Open raising method	1		Dt-28-09-2022
	Two compartment method	1	OCTOBER	Dt-10/10/2022
	Jora raise lift	1		Dt-11/10/2022
	Long hole drilling method./Vertical Crater retreat (VCR) method.	2		Dt-12/10/2022, Dt-13/10/2022
	Alimak raise climber	2		Dt-17/10/2022, Dt-18/10/2022
	Raise borer.	1		Dt-19/10/2022
Development of Ore passe system.	2		Dt-20/10/2022, Dt-26/10/2022	

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
3	Give a Comparative Study between Coal and Metal Mining	3		
	Coal mining	1		Dt - 27/10/2022
	Metal mining	1		Dt - 28 10/2022
	Comparative study	1	NOVEMBER	Dt - 29/10/2022 Dt - 01/11/2022
4	Stoping Methods	18		
	Classify stoping methods with application and factors affecting methods of stopping.	2		Dt - 02/11/2022, Dt - 03/11/2022
	Preparatory arrangement for stoping.	1		Dt - 07/11/2022
	The following methods with layout including drilling, blasting, transportation and supports.	3		Dt - 08/11/2022, Dt - 09/11/2022, Dt - 10/11/2022
	Open stoping.	1		Dt - 14/11/2022
	Open stoping with pillar support.	2		Dt - 15/11/2022, Dt - 16/11/2022
	Shrinkage stoping.	2		Dt - 17/11/2022, Dt - 21/11/2022
	Cut & fill stoping.	2		Dt - 22/11/2022, Dt - 23/11/2022
	Square set stoping.	2		Dt - 24/11/2022, Dt - 28/11/2022
	Block caving.	1		Dt - 29/11/2022
	Sub-level caving.	1		Dt - 30/11/2022
	Top slicing.	1	DECEMBER	Dt - 03/12/2022, Dt - 06/12/2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
5	Stone Drifting	7		
	Method of drifting	1		Dt-07/12/2022
	Drilling	1		Dt-08/12/2022
	Blasting	2		Dt-12/12/2022, Dt-13/12/2022, Dt-14/12/2022
	Ventilation	2		Dt-15/12/2022, Dt-19/12/2022, Dt-20/12/2022
	Lighting	1		Dt-21/12/2022
6	Rock Burst	5		
	causes of rock burst	2		Dt-22/12/2022, Dt-26/12/2022,
	Prevention of rock burst	3		Dt-27/12/2022, Dt-28/12/2022, Dt-29/12/2022
7	Face Mechanization	10	JANUARY	
	use of jumbo drill with air leg.	3		Dt-02/01/2023, 03/01/2023, Dt-04/01/2023
	various Loading & Transportation System like	3		Dt-05/01/2023, Dt-09/01/2023, Dt-10/01/2023
	L.H.D., L.P.D.T.(Low Profile Dump Truck), rocker shovel, spiral chutes and draw points, Scraper etc	4		Dt-11/01/2023, Dt-12/01/2023, Dt-16/01/2023 Dt-17/01/2023 Revision-18/01/2023, 19/01/2023

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MINING ENGG

SEMESTER: 5TH

SECTION : MNA1

NAME OF THE FACULTY : (1) ER. GOBINDA CHANDRA SETHY, (2) ER. SIBASUNDAR MAIKAP (LECT. IN MINING ENGG.)

SEMESTER FROM DT. 15.09.2022 TO 21.01.2023

PRACTICAL SUBJECT: MINE HAZARD & SAFETY 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	Estimation of CH ₄ in air sample using flame safety lamp and detection by a methanometer.	SEPTEMBER		Dt - 16.9.2022, Dt - 21.9.2022 Dt - 23.9.2022
2	Accumulation & percentage test of CH ₄ by flame safety lamp.			Dt - 28.9.2022 Dt - 30.9.2022
3	Study & use of different types of methonometer	OCTOBER		Dt . 12.10.2022, Dt . 14.10.2022 Dt . 19.10.2022
4	Determination of CO by using CO-dectector.			Dt - 24.10.2022, Dt - 26.10.2022 Dt - 28.10.2022.
5	Determination of CO ₂ in air sampling by CO ₂ detectors	NOVEMBER		Dt - 2.11.2022, Dt . 4.11.2022 Dt - 9.11.2022
6	Gas analysis by (I) Orsat apparatus			Dt - 11.11.2022, Dt - 16.11.2022 Dt - 18.11.2022, Dt
7	Haldane apparatus for gas analysis.			Dt - 23.11.2022, Dt . 25.11.2022 Dt - 30.11.2022
8	Study & uses of Konimeter.	DECEMBER		Dt - 2.12.2022, Dt . 7.12.2022 Dt - 9.12.2022
9	Sampling of dust by gravimetric dust sampler			Dt - 14.12.2022, Dt . 16.12.2022 Dt - 21.12.2022, Dt . 23.12.2022
10	Study of Rescue Apparatus.	JANUARY		Dt . 28.12.2022, Dt . 30.12.2022 Dt . 4.1.2023, 6.1.2023 Dt . 11.1.2023
11	Multi gas Detector (NO _x , H ₂ S, CO, CO ₂)			Dt . 13.1.2023, Dt - 15.1.2023 Dt - 20.1.2023

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MINING ENGG

SEMESTER: 5TH

SECTION : MNA1


NAME OF THE FACULTY : (1) ER. PRATYUSHA PRAVANJAN BEHERA, (2) ER. SRIKANTA SAMAL (LECT. IN MINING ENGG.)

SEMESTER FROM DT. 15.09.2022 TO 21.01.2023

PRACTICAL SUBJECT: MINE MACHINERY – I 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	Study of Wire rope.	SEPTEMBER		Dt. 15.9.2022, Dt. 19.9.2022 Dt. 22.9.2022
2	Study of rope splicing.			Dt. 26.9.2022 Dt. 29.9.2022
3	Study of rope cappel.	OCTOBER		Dt. 10.10.2022, Dt. 13.10.2022 Dt. 17.10.2022
4	Study of safety hook.			Dt. 20.10.2022, Dt. 27.10.2022 Dt. 31.10.2022
5	Study of keps.	NOVEMBER		Dt. 3.11.2022, Dt. 7.11.2022 Dt. 10.11.2022, Dt. 14.11.2022
6	Study of guide in shaft.			Dt. 17.11.2022, Dt. 21.11.2022 Dt. 24.11.2022
7	Study of clips used in endless rope haulage.	DECEMBER		Dt. 28.11.2022, 1.12.2022 Dt. 5.12.2022
8	Model Development of Headgear Structure.			Dt. 8.12.2022, Dt. 12.12.2022 Dt. 15.12.2022
9	Model Development of Suspension Gear.			Dt. 19.12.2022, Dt. 22.12.2022 Dt. 26.12.2022, Dt. 29.12.2022
10	Model Development of different types of winding drum.	JANUARY		Dt. 2.1.2023, Dt. 5.1.2023 Dt. 9.1.2023
11	Model development of different types of safety devices used in haulage roadways.			Dt. 12.1.2023, Dt. 16.1.2023 Dt. 19.1.2023


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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MINING ENGG

SEMESTER: 5TH

SECTION : MNA1

NAME OF THE FACULTY : (1) ER. DILLIP KUMAR DEHURY, (2) ER. SRIKANTA SAMAL (LECT. IN MINING ENGG.)


SEMESTER FROM DT. 15.09.2022 TO 21.01.2023


PRACTICAL SUBJECT: PROJECT PHASE - I (PR-3)

CLASS ALLOTTED /WEEK : 04 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	Selection of project assignment	SEPTEMBER		Dt - 17.9.2022
2	Planning and execution of considerations			Dt - 24.9.2022
3	Quality of performance	OCTOBER		Dt - 1.10.2022 Dt - 15.10.2022
4	Providing solution of the problems or production of final product			Dt - 22.10.2022 Dt - 29.10.2022
5	Sense of responsibility	NOVEMBER		Dt - 5.11.2022 Dt - 12.11.2022
6	Self expression/ communication/ Presentation skills			Dt - 19.11.2022 Dt - 26.11.2022
7	Interpersonal skills/human relations	DECEMBER		Dt - 3.12.2022 Dt - 10.12.2022
8	Report writing skills			Dt - 17.12.2022, Dt - 24.12.2022 Dt - 31.12.2022
9	Viva voce	JANUARY		Dt - 7.1.2023 Dt - 21.1.2023
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BRANCH:- MINING ENGG.

SEMESTER: 5TH

SECTION:- MNA1

NAME OF THE FACULTY : (1) ER. LIPUN DEHURY, (2) ER. AMARENDRA SAHOO (LECT. IN MINING ENGG.)

SEMESTER FROM DT.15.09.2022 TO 21.01.2023

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 of Lectures	SEPTEMBER		Dt. 15.9.22 Dt. 29.9.22 Dt. 22.9.22
	Personality Development	OCTOBER		Dt. 13.10.2022 Dt. 20.10.2022 Dt. 27.10.2022
	Environmental issues	NOVEMBER		Dt. 3.11.2022 Dt. 10.11.2022 Dt. 24.11.23 Dt. 17.11.2022
	Quiz, Hobbies	DECEMBER		Dt. 1.12.2022 Dt. 8.12.2022
	Field visits			Dt. 15.12.2022 Dt. 22.12.2022 Dt. 29.12.2022
	cultural Activities, Library Studies.	JANUARY		Dt. 5.1.2023 Dt. 19.1.23 Dt. 12.1.2023.



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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MINING ENGG

SEMESTER: 5TH

SECTION : MNA2

NAME OF THE FACULTY : (1) ER. GOBINDA CHANDRA SETHY, (2) ER. SIBASUNDAR MAIKAP (LECT. IN MINING ENGG.)

SEMESTER FROM DT. 15.09.2022 TO 21.01.2023

PRACTICAL SUBJECT: MINE HAZARD & SAFETY 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	Estimation of CH ₄ in air sample using flame safety lamp and detection by a methanometer.	SEPTEMBER		Dt - 19.9.2022 Dt - 20.9.2022
2	Accumulation & percentage test of CH ₄ by flame safety lamp.			Dt - 26.9.2022 Dt - 27.9.2022
3	Study & use of different types of methonometer	OCTOBER		Dt - 10.10.2022, Dt - 11.10.2022 Dt - 17.10.2022
4	Determiration of CO by using CO-dectector.			Dt - 18.10.2022, Dt - 31.10.2022
5	Determiration of CO ₂ in air sampling by CO ₂ detectors	NOVEMBER		Dt - 1.11.2022, Dt - 7.11.2022 Dt - 6.11.2022, Dt - 14.11.2022
6	Gas analysis by (I) Orsat apparatus			Dt - 15.11.2022, Dt - 21.11.2022 Dt - 22.11.2022, Dt - 28.11.2022
7	Haldane apparatus for gas analysis.	DECEMBER		Dt - 29.11.2022, Dt - 5.12.2022 Dt - 6.12.2022
8	Study & uses of Konimeter.			Dt - 12.12.2022, Dt - 13.12.2022 Dt - 19.12.2022
9	Sampling of dust by gravimetric dust sampler			Dt - 20.12.2022, Dt - 26.12.2022 Dt - 27.12.2022
10	Study of Rescue Apparatus.	JANUARY		Dt - 2.1.2023, Dt - 3.1.2023 Dt - 9.1.2023
11	Multi gas Detector (NO _x , H ₂ S, CO, CO ₂)			Dt - 10.1.2023, Dt - 16.1.2023 Dt - 17.1.2023

 
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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MINING ENGG

SEMESTER: 5TH

SECTION : MNA2

NAME OF THE FACULTY : (1) ER. PRATYUSHA PRAVANJAN BEHERA, (2) ER. SRIKANTA SAMAL (LECT. IN MINING ENGG.)

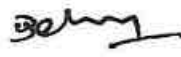
SEMESTER FROM DT. 15.09.2022 TO 21.01.2023

PRACTICAL SUBJECT: MINE MACHINERY – I 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	Study of Wire rope.	SEPTEMBER		Dt. 16.9.2022 Dt. 21.9.2022
2	Study of rope splicing.			Dt. 23.9.2022 Dt. 30.9.2022 Dt. 28.9.2022
3	Study of rope cappel.	OCTOBER		Dt. 12.10.2022 Dt. 19.10.2022 Dt. 14.10.2022
4	Study of safety hook.			Dt. 21.10.2022 Dt. 28.10.2022 Dt. 26.10.2022
5	Study of keps.	NOVEMBER		Dt. 2.11.2022 Dt. 9.11.2022 Dt. 4.11.2022
6	Study of guide in shaft.			Dt. 11.11.2022 Dt. 18.11.2022 Dt. 16.11.2022
7	Study of clips used in endless rope haulage.			Dt. 23.11.2022 Dt. 30.11.2022 Dt. 25.11.2022
8	Model Development of Headgear Structure.	DECEMBER		Dt. 2.12.2022 Dt. 9.12.2022 Dt. 7.12.2022 Dt. 19.12.2022
9	Model Development of Suspension Gear.			Dt. 16.12.2022 Dt. 23.12.2022 Dt. 21.12.2022 Dt. 28.12.2022 Dt. 30.12.2022
10	Model Development of different types of winding drum.	January		Dt. 4.1.2023 Dt. 11.1.2023 Dt. 6.1.2023
11	Model development of different types of safety devices used in haulage roadways.			Dt. 13.1.2023 Dt. 20.1.2023 Dt. 18.1.2023


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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MINING ENGG

SEMESTER: 5TH

SECTION : MNA2

NAME OF THE FACULTY : (1) ER. DILLIP KUMAR DEHURY, (2) ER. SRIKANTA SAMAL (LECT. IN MINING ENGG.)

SEMESTER FROM DT. 15.09.2022 TO 21.01.2023

PRACTICAL SUBJECT: PROJECT PHASE - I (PR-3)

CLASS ALLOTTED /WEEK : 04 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	Selection of project assignment	SEPTEMBER		Dt. 17.9.2022
2	Planning and execution of considerations			Dt. 24.9.2022
3	Quality of performance	OCTOBER		Dt. 1.10.2022 Dt. 15.10.2022
4	Providing solution of the problems or production of final product			Dt. 22.10.2022 Dt. 29.10.2022
5	Sense of responsibility	NOVEMBER		Dt. 5.11.2022 Dt. 12.11.2022
6	Self expression/ communication/ Presentation skills			Dt. 19.11.2022 Dt. 26.11.2022
7	Interpersonal skills/human relations	DECEMBER		Dt. 3.12.2022 Dt. 10.12.2022
8	Report writing skills			Dt. 17.12.2022 Dt. 31.12.2022 Dt. 24.12.2022
9	Viva voce	JANUARY		Dt. 7.1.2023 Dt. 21.1.2023.
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BRANCH:- MINING ENGG.

SEMESTER: 5TH

SECTION:- MNA2

NAME OF THE FACULTY : (1) ER. LIPUN DEHURY, (2) ER. AMARENDRA SAHOO (LECT. IN MINING ENGG.)


SEMESTER FROM DT.15.09.2022 TO 21.01.2023


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 of lectures	SEPTEMBER		Dt. 15. 9. 22 Dt. 22. 9. 22 Dt. 29. 9. 22
	Personality Development	OCTOBER		Dt. 13. 10. 2022 Dt. 20. 10. 2022 Dt. 27. 10. 2022
	Environmental issues	NOVEMBER		Dt. 3. 11. 22 Dt. 17. 11. 22 Dt. 10. 11. 22 Dt. 24. 11. 22
	Quiz, Hobbies	DECEMBER		Dt. 1. 12. 22 Dt. 8. 12. 22
	Field visits			Dt. 15. 12. 22 Dt. 22. 12. 22 Dt. 29. 12. 22
	Cultural Activities, Library Studies.	JANUARY		Dt. 5. 1. 23 Dt. 19. 1. 23 Dt. 12. 1. 23

 
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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MINING ENGG

SEMESTER: 5TH

SECTION : MNB1

NAME OF THE FACULTY : (1) ER. GOBINDA CHANDRA SETHY, (2) ER. SIBASUNDAR MAIKAP (LECT. IN MINING ENGG.)

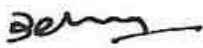
SEMESTER FROM DT. 15.09.2022 TO 21.01.2023

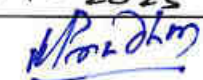
PRACTICAL SUBJECT: MINE HAZARD & SAFETY LAB. (PR-1)

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	Estimation of CH ₄ in air sample using flame safety lamp and detection by a methanometer.	SEPTEMBER		Dt-16.09.2022 Dt-21.09.2022
2	Accumulation & percentage test of CH ₄ by flame safety lamp.			Dt-23.09.2022 Dt-30.09.2022 Dt-28.09.2022
3	Study & use of different types of methonometer	OCTOBER		Dt-12.10.2022 Dt-19.10.2022 Dt-14.10.2022
4	Determination of CO by using CO-dectector.			Dt-21.10.2022 Dt-28.10.2022 Dt-26.10.2022
5	Determination of CO ₂ in air sampling by CO ₂ detectors	NOVEMBER		Dt-2.11.22 Dt-11.11.22 Dt-4.11.22 Dt-16.11.22 Dt-9.11.22
6	Gas analysis by (I) Orsat apparatus			Dt-18.11.22 Dt-25.11.22 Dt-23.11.22 Dt-30.11.22
7	Haldane apparatus for gas analysis.	DECEMBER		Dt-2.12.22 Dt-9.12.22 Dt-7.12.22 Dt-14.12.22 Dt-16.12.22
8	Study & uses of Konimeter.			Dt-21.12.22 Dt-28.12.22 Dt-23.12.22 Dt-30.12.22
9	Sampling of dust by gravimetric dust sampler	JANUARY		Dt-4.1.2023 Dt-6.1.2023
10	Study of Rescue Apparatus.			Dt-11.1.2023 Dt-13.1.2023
11	Multi gas Detector (NO _x , H ₂ S, CO, CO ₂)			Dt-18.1.2023 Dt-20.1.2023


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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MINING ENGG

SEMESTER: 5TH

SECTION : MNB1

NAME OF THE FACULTY : (1) ER. PRATYUSHA PRAVANJAN BEHERA, (2) ER. SRIKANTA SAMAL (LECT. IN MINING ENGG.)


SEMESTER FROM DT. 15.09.2022 TO 21.01.2023

PRACTICAL SUBJECT: MINE MACHINERY – I 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	Study of Wire rope.	SEPTEMBER		Dt. 15.09.2022 Dt. 19.09.2022
2	Study of rope splicing.			Dt. 22.09.2022 Dt. 29.09.2022 Dt. 26.09.2022
3	Study of rope cappel.	OCTOBER		Dt. 10.10.2022 Dt. 17.10.2022 Dt. 13.10.2022
4	Study of safety hook.			Dt. 20.10.2022 Dt. 27.10.2022 Dt. 24.10.2022 Dt. 31.10.2022
5	Study of keps.	NOVEMBER		Dt. 3.11.2022 Dt. 10.11.2022 Dt. 7.11.2022 Dt. 14.11.2022
6	Study of guide in shaft.			Dt. 17.11.2022 Dt. 24.11.2022 Dt. 21.11.2022 Dt. 28.11.2022
7	Study of clips used in endless rope haulage.	DECEMBER		Dt. 1.12.2022 Dt. 8.12.2022 Dt. 5.12.2022
8	Model Development of Headgear Structure.			Dt. 12.12.2022 Dt. 19.12.2022 Dt. 15.12.2022
9	Model Development of Suspension Gear.			Dt. 22.12.2022 Dt. 29.12.2022 Dt. 26.12.2022
10	Model Development of different types of winding drum.	JANUARY		Dt. 2.1.2023 Dt. 5.1.2023 Dt. 9.1.2023
11	Model development of different types of safety devices used in haulage roadways.			Dt. 12.1.2023 Dt. 19.1.2023 Dt. 16.1.2023


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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MINING ENGG

SEMESTER: 5TH

SECTION : MNB1

NAME OF THE FACULTY : (1) ER. DILLIP KUMAR DEHURY, (2) ER. SRIKANTA SAMAL (LECT. IN MINING ENGG.)

SEMESTER FROM DT. 15.09.2022 TO 21.01.2023


PRACTICAL SUBJECT: PROJECT PHASE - I (PR-3)

CLASS ALLOTTED /WEEK : 04 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	Selection of project assignment	SEPTEMBER		DE - 17.09.2022
2	Planning and execution of considerations			DE - 24.09.2022
3	Quality of performance	OCTOBER		DE - 1.10.2022 DE - 15.10.2022
4	Providing solution of the problems or production of final product			DE - 22.10.2022 DE - 29.10.2022
5	Sense of responsibility	NOVEMBER		DE - 5.11.2022 DE - 12.11.2022
6	Self expression/ communication/ Presentation skills			DE - 19.11.2022 DE - 26.11.2022
7	Interpersonal skills/human relations	DECEMBER		DE - 3.12.2022 DE - 10.12.2022
8	Report writing skills			DE - 17.12.2022 DE - 24.12.2022 DE - 31.12.2022
9	Viva voce	JANUARY.		DE - 7.1.2023 DE - 21.1.2023
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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:- MINING ENGG.

SEMESTER: 5TH

SECTION:- MNB1

NAME OF THE FACULTY : (1) ER. LIPUN DEHURY, (2) ER. AMARENDRA SAHOO (LECT. IN MINING ENGG.)

SEMESTER FROM DT.15.09.2022 TO 21.01.2023

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 of Lectures.	SEPTEMBER		Dt. 15.9.2022 Dt. 16.9.22 Dt. 23.9.2022
	Personality development	OCTOBER		Dt. 14.10.22 Dt. 21.10.22 Dt. 28.10.22
	Environmental issues	NOVEMBER		Dt. 11.22 Dt. 18.11.22 Dt. 25.11.22 Dt. 2.12.22
	Quiz, Hobbies	DECEMBER		Dt. 2.12.22 Dt. 9.12.22 Dt. 16.12.22
	Field visits			Dt. 23.12.22 Dt. 30.12.22
	Cultural Activities, Library Studies.	JANUARY		Dt. 6.1.23 Dt. 20.1.23 Dt. 13.1.23

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Asano

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MINING ENGG

SEMESTER: 5TH

SECTION : MNB2

NAME OF THE FACULTY : (1) ER. GOBINDA CHANDRA SETHY, (2) ER. SIBASUNDAR MAIKAP (LECT. IN MINING ENGG.)

SEMESTER FROM DT. 15.09.2022 TO 21.01.2023


PRACTICAL SUBJECT: MINE HAZARD & SAFETY 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	Estimation of CH ₄ in air sample using flame safety lamp and detection by a methanometer.	SEPTEMBER		DT- 19.09.2022 DT- 20.09.2022
2	Accumulation & percentage test of CH ₄ by flame safety lamp.			DT- 26.09.2022 DT- 27.09.2022
3	Study & use of different types of methonometer	OCTOBER		DT- 10.10.2022 DT- 11.10.2022 DT-17.10.2022
4	Determination of CO by using CO-dectector.			DT- 18.10.2022 DT- 31.10.2022
5	Determination of CO ₂ in air sampling by CO ₂ detectors	NOVEMBER		DT- 1.11.2022 DT- 7.11.2022 DT-8.11.2022
6	Gas analysis by (I) Orsat apparatus			DT- 14.11.2022 DT- 15.11.2022 DT- 21.11.2022
7	Haldane apparatus for gas analysis.			DT- 22.11.2022 DT- 28.11.2022 DT-29.11.2022
8	Study & uses of Konimeter.	DECEMBER		DT- 5.12.2022 DT- 6.12.2022 DT- 12.12.2022 DT- 13.12.2022
9	Sampling of dust by gravimetric dust sampler			DT- 19.12.2022 DT- 20.12.2022 DT- 26.12.2022 DT- 27.12.2022
10	Study of Rescue Apparatus.	JANUARY.		DT- 2.1.2023 DT- 3.1.2023 DT-9.1.2023
11	Multi gas Detector (NO _x , H ₂ S, CO, CO ₂)			DT- 10.1.2023 DT- 16.1.2023 DT- 17.1.2023


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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MINING ENGG

SEMESTER: 5TH

SECTION : MNB2

NAME OF THE FACULTY : (1) ER. PRATYUSHA PRAVANJAN BEHERA, (2) ER. SRIKANTA SAMAL (LECT. IN MINING ENGG.)

SEMESTER FROM DT. 15.09.2022 TO 21.01.2023

PRACTICAL SUBJECT: MINE MACHINERY – I 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	Study of Wire rope.	SEPTEMBER		Dt - 16.09.2022 Dt - 21.09.2022
2	Study of rope splicing.			Dt - 23.09.2022 Dt - 30.09.2022 Dt - 28.09.2022
3	Study of rope cappel.	OCTOBER		Dt - 12.10.2022 Dt - 19.10.2022 Dt - 14.10.2022
4	Study of safety hook.			Dt - 21.10.2022 Dt - 28.10.2022 Dt - 26.10.2022
5	Study of keps.	NOVEMBER		Dt - 2.11.2022 Dt - 9.11.2022 Dt - 4.11.2022 Dt - 11.11.2022 Dt - 16.11.2022
6	Study of guide in shaft.			Dt - 18.11.2022 Dt - 25.11.2022 Dt - 23.11.2022 Dt - 30.11.2022
7	Study of clips used in endless rope haulage.	DECEMBER		Dt - 2.12.2022 Dt - 9.12.2022 Dt - 7.12.2022
8	Model Development of Headgear Structure.			Dt - 14.12.2022 Dt - 21.12.2022 Dt - 16.12.2022
9	Model Development of Suspension Gear.			Dt - 23.12.2022 Dt - 30.12.2022 Dt - 28.12.2022
10	Model Development of different types of winding drum.	JANUARY.		Dt - 4.1.2023 Dt - 11.1.2023 Dt - 6.1.2023
11	Model development of different types of safety devices used in haulage roadways.			Dt - 13.1.2023 Dt - 18.1.2023 Dt - 21.1.2023


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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MINING ENGG

SEMESTER: 5TH

SECTION : MNB2

NAME OF THE FACULTY : (1) ER. DILLIP KUMAR DEHURY, (2) ER. SRIKANTA SAMAL (LECT. IN MINING ENGG.)

SEMESTER FROM DT. 15.09.2022 TO 21.01.2023


PRACTICAL SUBJECT: PROJECT PHASE - I (PR-3)

CLASS ALLOTTED /WEEK : 04 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	Selection of project assignment	SEPTEMBER		Dt - 17.09.2022
2	Planning and execution of considerations			Dt - 24.09.2022
3	Quality of performance	OCTOBER		Dt - 1.10.2022 Dt - 15.10.2022
4	Providing solution of the problems or production of final product			Dt - 22.10.2022 Dt - 29.10.2022
5	Sense of responsibility	NOVEMBER		Dt - 5.11.2022 Dt - 12.11.2022
6	Self expression/ communication/ Presentation skills			Dt - 19.11.2022 Dt - 26.11.2022
7	Interpersonal skills/human relations	DECEMBER		Dt - 3.12.2022 Dt - 10.12.2022
8	Report writing skills			Dt - 17.12.2022 Dt - 24.12.2022 Dt - 31.12.2022
9	Viva voce	JANUARY		Dt - 7.1.2023 Dt - 21.1.2023
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BRANCH:- MINING ENGG.

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NAME OF THE FACULTY : (1) ER. LIPUN DEHURY, (2) ER. AMARENDRA SAHOO (LECT. IN MINING ENGG.)

SEMESTER FROM DT.15.09.2022 TO 21.01.2023

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 of Lectures	September		Dt. 16. 9. 22 Dt. 23. 9. 22 Dt. 30. 9. 22
	Personality Development	October		Dt. 14. 10. 2022 Dt. 21. 2022
	Environmental Issues			Dt. 28. 2022
	Quiz, Hobbies	November		Dt. 4. 16. 22 Dt. 18. 11. 22 Dt. 11. 11. 22 Dt. 25. 11. 22
	Field Visits	December		Dt. 2. 12. 22 Dt. 23. 12. 22 Dt. 9. 12. 22 Dt. 30. 12. 22 Dt. 16. 12. 22
	cultural Activities, Library Studies	January		Dt. 6. 1. 23 Dt. 13. 1. 23 Dt. 20. 1. 23

Lipun Dehury
Amarendra Sahoo

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Benny

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P. Pradhan

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