



## ARYAN SCHOOL OF ENGINEERING & TECHNOLOGY

<b>Discipline:</b> MINING	<b>Semester:</b> 6th	<b>Name of the Teaching Faculty:</b> Dharmasish Behera	
<b>Subject:</b> MINE LEGISLATION & GENERAL SAFETY-II	No of Days/Week Class Allotted: _____	Semester From date: <u>10/3/22</u> To date: <u>18/6/22</u>	No. of Weeks:
WEEK	Class Day	Theory Topics	
1	1st	Introductiob to Metalliferous Mines Regulations 1961 & Chapter I. – Preliminary	
	2nd	Chapter II – Returns, Notices and Record	
	3rd	CHAPTER III – Examinations and Certificates of competency and of Fitness	
	4th	CHAPTER III – Examinations and Certificates of competency and of Fitness	
	5th		
2	1st	CHAPTER IV – Inspection and Mine Officials	
	2nd	CHAPTER IV – Inspection and Mine Officials	
	3rd	CHAPTER-V : Duties and Responsibilities of Workmen, Competent Persons and Officials, etc	
	4th	CHAPTER-V : Duties and Responsibilities of Workmen, Competent Persons and Officials, etc	
	5th		
3	1st	CHAPTER-VI : Plans and Sections	
	2nd	CHAPTER-VI : Plans and Sections	
	3rd	CHAPTER-VII : Means of Access and Egress	
	4th	CHAPTER-VII : Means of Access and Egress	
	5th		

WEEK	Class Day	Theory Topics
4	1st	CHAPTER-VIII : Ladders and Ladderways CHAPTER-IX : Transport of Men and Materials - Winding in shafts
	2nd	CHAPTER-IX : Transport of Men and Materials – Winding in shafts
	3rd	CHAPTER-X : Transport of Men and Materials – Haulage
	4th	CHAPTER-XI : Mine Workings
	5th	
5	1st	CHAPTER XII – Precautions against Dangers from Fire, Dust, Gas and Water
	2nd	CHAPTER – VIII - Ventilation
	3rd	CHAPTER XIV – Lighting and Safety Lamps
	4th	CHAPTER XV – Explosives an Shotfiring
	5th	
6	1st	CHAPTER XVI - Machinery and Plant
	2nd	Mines Vocational Training Rules 1966, Chapter -1, preliminary
	3rd	Chapter - 2, Chapter - 3, Chapter - 4
	4th	Chapter - 5, Chapter - 6, Chapter - 7, Chapter - 8
	5th	

2nd	3rd	4th	5th
From 28/03/22 to 02/04/22			

from 28/03/22 to 02/04/22

WEEK	Class Day	Theory Topics
7	1st	Mines Creche Rules 1966
	2nd	Mines Creche Rules 1966
	3rd	MATERNITY BENEFIT ACT, 1961
	4th	MATERNITY BENEFIT ACT, 1961
	5th	
8	1st	MATERNITY BENEFIT ACT, 1961
	2nd	Mines Accident & Safety, Description to classification, causes & prevention.
	3rd	Mines Accident & Safety, Description to classification, causes & prevention.
	4th	Develop concept about accident cost, accident report, procedure for conducting an enquiry to ascertain the causes of accidents.
	5th	
9	1st	Develop concept about accident cost, accident report, procedure for conducting an enquiry to ascertain the causes of accidents.
	2nd	Discussion to procedure for investigation & reporting Mine accident, accident proneness, fatality rate, frequency rate & severity rate.
	3rd	Discussion to procedure for investigation & reporting Mine accident, accident proneness, fatality rate, frequency rate & severity rate.
	4th	Role of supervision in accident prevention, accident due to opencast workings, statistical analysis of accidents, accident statistics, its head & method of data processing
	5th	Role of supervision in accident prevention, accident due to opencast workings, statistical analysis of accidents, accident statistics, its head & method of data processing

WEEK	Class Day	Theory Topics
10	1st	Basis concepts of safety, safety & productivity, safety consciousness & safety campaign, safety organization, safety audit.
	2nd	Basis concepts of safety, safety & productivity, safety consciousness & safety campaign, safety organization, safety audit.
	3rd	Rules of safety committee.
	4th	Role of workmen inspectors.
	5th	
11	1st	Description of terms like industrial fatigue, preventive maintenance, productive equipments & duties of Safety Officer.
	2nd	Description of terms like industrial fatigue, preventive maintenance, productive equipments & duties of Safety Officer.
	3rd	THE FOREST (CONSERVATION) ACT, 1980, ACT NO. 69 OF 1980
	4th	THE FOREST (CONSERVATION) ACT, 1980, ACT NO. 69 OF 1980
	5th	
12	1st	THE ENVIRONMENT (PROTECTION) ACT, 1986, No. 29 OF 1986, CHAPTER - I, PRELIMINARY
	2nd	CHAPTER II GENERAL POWERS OF THE CENTRAL GOVERNMENT
	3rd	CHAPTER III PREVENTION, CONTROL, AND ABATEMENT OF ENVIRONMENTAL POLLUTION
	4th	CHAPTER III PREVENTION, CONTROL, AND ABATEMENT OF ENVIRONMENTAL POLLUTION
	5th	

From 28/03/22 to 02/04/22

3rd

4th

WEEK	Class Day	Theory Topics
13	1st	CHAPTER IV MISCELLANEOUS
	2nd	MINES AND MINERALS (DEVELOPMENT AND REGULATION) ACT, 1957, CHAPTER I PRELIMINARY
	3rd	CHAPTER II GENERAL RESTRICTIONS ON UNDERTAKING PROSPECTING AND MINING OPERATIONS
	4th	CHAPTER III PROCEDURE FOR OBTAINING, PROSPECTING LICENCES OR MINING LEASES IN RESPECT OF LAND IN WHICH THE MINERALS VEST IN THE GOVERNMENT
	5th	
14	1st	CHAPTER IV RULES FOR REGULATING THE GRANT OF PROSPECTING LICENCES AND MINING LEASES
	2nd	CHAPTER V SPECIAL POWERS OF CENTRAL GOVERNMENT TO UNDERTAKE PROSPECTING OR MINING OPERATIONS IN CERTAIN CASES
	3rd	CHAPTER VI DEVELOPMENT OF MINERALS, CHAPTER VII MISCELLANEOUS
	4th	Introduction to DGMS Circulars - 2021
	5th	
15	1st	Legislative: No.DGMS(Legis.)(Exam) Circular No. 01 of 2021 Bye-Laws for Grant of Competency Certificate's under CMR, 2017 & MMR, 1961. Dated- 27th August 2021
	2nd	Legislative: No.DGMS(Legis.)(Exam) Circular No. 01 of 2021 Bye-Laws for Grant of Competency Certificate's under CMR, 2017 & MMR, 1961. Dated- 27th August 2021
	3rd	Technical: DGMS (Tech) (OH) Circular No.01 of 2021, Dhanbad dated 06.08.2021- STANDARDS FOR CONDUCT OF FIRST-AID TRAINING AND ISSUE OF FIRST-AID CERTIFICATE
	4th	Technical: DGMS (Tech) (OH) Circular No.01 of 2021, Dhanbad dated 06.08.2021- STANDARDS FOR CONDUCT OF FIRST-AID TRAINING AND ISSUE OF FIRST-AID CERTIFICATE
	5th	

03-22  
 28/03/22  
 From 28/03/22 to 02/04/22  
 2nd  
 3rd  
 4th  
 5th