



IPM SCHOOL OF ENGINEERING & TECHNOLOGY

LESSON PLAN: 2022-23

Sub: Th.3 MINE LEGISLATION & GENERAL SAFETY- II

Branch: Mining

Semester : 6th

Faculty name : S.K MAJHI

Duration : 60 hours

Unit – 1	M.M.R 1966 o Discuss various provisions of M.M.R 1966 .
Unit – 2	Mines V.T rules 1966 o Discuss various provisions of Mines V.T rules 1966 .
Unit – 3	Mines crèche rules 1966 Discuss various Provisions of Mines crèche rules 1966 .
Unit – 4	Maternity Benefit act 1961 Discuss various provisions of Maternity Benefit act 1961 .
Unit – 5	Mines accident & Safety o Discuss various provisions of Mines accident & Safety .
Unit – 6	Forest Conservation Act 1980 o Discuss various provisions of Forest Conservation Act 1980 .
Unit – 7	Environment (protection) act, 1986. o Discuss various provisions of Environment (protection) act, 1986 .
Unit – 8	MMDR & MCR 1957 o Discuss various provisions of MMDR & MCR
Unit – 9	DGMS Circular o Discuss various provisions of DGMS Circular

Books Suggested

Sl. No.	Title of the Book	Name of Authors
1	M.M.R 1966	
2	Mines V.T rules 1966	
3	Mines crèche rules 1966	
4	Maternity Benefit act 1961	
5	Mines accident & Safety	
6	Forest Conservation Act 1980	
7	Environment (protection) act, 1986.	
8	MMDR & MCR 1957	
9	DGMS Circular	

Objective :

- Describe various aspects of **M.M.R 1966**.
- Describe various aspects of **Mines V.T rules 1966**.
- Describe various aspects of **Mines crèche rules 1966**.
- Describe various aspects of **Maternity Benefit act 1961**
- Describe various aspects of **Mines accident & Safety**
- Describe various aspects of **Forest Conservation Act 1980**
- Describe various aspects of **Environment (protection) act, 1986**
- Describe various aspects of **MMDR & MCR 1957**
- Describe various aspects of **DGMS Circular**

Learning Outcome: Since Mining operations involve frequent accidents, it is very important for a mining engineer to be thoroughly conversant with various acts & rules framed for providing safety to workers.

Sl. No	Chapter	Proposed Week for Teaching	Lecture No.	Sub. Topic	Important Teaching Points	Content Source
01	I	1 ST	01	M.M.R 1966	Intro.&impt. terms	M.M.R 1966
02			02	M.M.R 1966	Notice of opening, Quarterly Returns, Annual Returns, Notice of abandoned or discontinuance, Notice of reopening	M.M.R 1966
03			03	M.M.R 1966	Change of ownership and address, Notice of Accident, Notice of disease	M.M.R 1966
04			04	M.M.R 1966	Qualifications of Inspectors, managers, Officials and competent persons	M.M.R 1966
05		2 ND	01	M.M.R 1966	Duties and Responsibilities of Workmen inspector.	M.M.R 1966
06			02	M.M.R 1966	Duties and Responsibilities of Competent Persons and Officials	M.M.R 1966

07	II	3 RD	03	M.M.R 1966	Duties and Responsibilities of Officials	M.M.R 1966
08			04	M.M.R 1966	Types of Plans and Sections	M.M.R 1966
09			01	M.M.R 1966	Doubt class on previous topic	M.M.R 1966
10			02	M.M.R 1966	Means of Access and Egress	M.M.R 1966
11		03	M.M.R 1966	Ladders and Ladderways	M.M.R 1966	
12		04	M.M.R 1966	Transport of Men and Materials – Winding in shafts Haulage roads	M.M.R 1966	
13		4 TH	01	M.M.R 1966	Lighting and Safety Lamps	M.M.R 1966
14			02	M.M.R 1966	Mine Workings, Machinery and Plant	M.M.R 1966
15			03	M.M.R 1966	Ventilation	M.M.R 1966
16			04	Mines V.T rules 1966	Person to be trained, standard of training	Mines V.T rules 1966
17		5 TH	01	Mines V.T rules 1966	General vocational training, scope & standard	Mines V.T rules 1966
18			02	Mines V.T rules 1966	Refresher training , training centre & rearrangement for training, training officers, trainers	Mines V.T rules 1966
19			03	Mines V.T rules 1966	Training of special categories	Mines V.T rules 1966
20			04	Mines crèche rules 1966	Intro., standard for crèche,	Mines crèche rules 1966

21	III	6 TH	01	Mines crèche rules 1966	provision of room & latrine	Mines crèche rules 1966
22			02	Mines crèche rules 1966	Provision of staff ,inspection of crech	Mines crèche rules 1966
23			03	Mines crèche rules 1966	Class test & Doubt class	Mines crèche rules 1966
24			04	maternity benefit act, 1961	Intro.,Employment of women prohibited during certain period.	maternity benefit act, 1961
25		7 TH	01	maternity benefit act, 1961	Right to payment of maternity benefit, Payment of maternity benefit, in case of death of a woman	maternity benefit act, 1961
26			02	maternity benefit act, 1961	Leave for miscarriage, Leave for illness arising out of pregnancy, delivery, premature birth of child, Nursing breaks	maternity benefit act, 1961
27			03	maternity benefit act, 1961	Appointment of Inspectors, Powers and duties of Inspectors, Penalty for contravention/obstructions of Act by employers	maternity benefit act, 1961
28			04	Mines accident & Safety	Qualifications,Duties& Responsibilities of overman,sirdar,shotfirer,surveyor	Safety in mines, A survey of accidents (Kejriwal)
29		8 TH	01	Mines accident & Safety	Qualifications,Duties& Responsibilities of supportman,lamp room incharge,banksman,onsetter,magazine in-charge & diff. operator	Safety in mines, A survey of accidents (Kejriwal)
30			02	Mines accident & Safety	Intro. & classification,	Safety in mines, A survey of accidents (Kejriwal)
31			03	Mines accident & Safety	causes & prevention.	Safety in mines, A survey of accidents (Kejriwal)
32			04	Mines accident & Safety	Develop concept about accident cost, accident report	Safety in mines, A survey of accidents (Kejriwal)
33		9 TH	01	Mines accident & Safety	procedure for conducting an enquiry to ascertain the causes of accidents.	Safety in mines, A survey of accidents (Kejriwal)

34	IV		02	Mines accident & Safety	procedure for investigation & reporting Mine accident,	Safety in mines, A survey of accidents (Kejriwal)
35			03	Mines accident & Safety	Accident, proneness, fatality rate, frequency rate severity rate.	Safety in mines, A survey of accidents (Kejriwal)
36			04	Mines accident & Safety	role of supervision in accident prevention, accident due to opencast workings,	Safety in mines, A survey of accidents (Kejriwal)
37			01	Mines accident & Safety	statistical analysis of accidents, accident statistics, its head & method of data processing.	Safety in mines, A survey of accidents (Kejriwal)
38		10 TH	02	Mines accident & Safety	basis concepts of safety, safety & productivity	Safety in mines, A survey of accidents (Kejriwal)
39			03	Mines accident & Safety	safety consciousness & safety campaign, safety organization, safety audit.	Safety in mines, A survey of accidents (Kejriwal)
40			04	Mines accident & Safety	rules of safety committee.	Safety in mines, A survey of accidents (Kejriwal)
41			11 TH	01	Mines accident & Safety	role of workmen inspectors, industrial fatigue
42		02		Mines accident & Safety	preventive maintenance, productive equipments & duties of Safety Officer	Safety in mines, A survey of accidents (Kejriwal)
43		03		Mines accident & Safety	Class Test & Doubt class	Safety in mines, A survey of accidents (Kejriwal)
44	04	Forest Conservation Act (FCA) 1980		Purpose of, Forest Conservation Act, Penalty for contravention of the provisions of the Act	Forest Conservation Act (FCA) 1980	
45	12 TH	01	Forest Conservation Act (FCA) 1980	Composition, appointment of non-official members in the Committee as per FCA	Forest Conservation Act (FCA) 1980	
46		V	02	Forest Conservation Act (FCA) 1980	Conduct of business of the Committee as per FCA	Forest Conservation Act (FCA) 1980

47			03	Environment (protection) act, 1986	environmental pollution prevention, control...	Environment (protection) act, 1986
48			04	Environment (protection) act, 1986	environmental laboratories,	Environment (protection) act, 1986
49		13 TH	01	Environment (protection) act, 1986	offences by companies, offences by government departments	Environment (protection) act, 1986
50			02	Environment (protection) act, 1986	penalty for contravention	Environment (protection) act, 1986
51			03	Environment (protection) act, 1986	power to make rules as per Environment (protection) act, 1986	Environment (protection) act, 1986
52			04	MMDR 1957	prospecting or mining operations to be under licence or lease	MMDR 1957
53		14 TH	01	MMDR 1957	periods for which prospecting licences may be granted or renewed	MMDR 1957
54			02	MMDR 1957	periods for which mining leases may be granted or renewed	MMDR 1957
55			03	MMDR 1957	royalties, dead rent	MMDR 1957
56			04	MMDR 1957	Penalties for contravention by companies	MMDR 1957
57		15 TH	01	DGMS Circular	Compilation of Circulars issued in 1997	DGMS Circular
58			02	DGMS Circular	Recommended Code of Practice for Operation and Maintenance of Flexible Trailing Cables Associated with Mobile Machines.	DGMS Circular
59			03	DGMS Circular	Accident due to side fall and fall of persons in opencast mines during monsoon season.	DGMS Circular
60			04	DGMS Circular	Facilities required at Group Training Centers and standard of training	DGMS Circular

Signature of Lecturer

Faculty Member

HOD

Principal/Director