IIPM SCHOOL OF ENGINEERING & TECHNOLOGY

LESSON PLAN: 2023-24

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

Branch : Mining Semester : 5th

Faculty name : R.K BARIK

Duration : 60 hours

Unit – 1	Mines Act 1952
	 Discuss various provisions of Mines Act 1952.
Unit – 2	Mines Rules 1955
	 Discuss various provisions of Mines Rule 1955.
Unit – 3	Coal Mines Regulation 2017
	☐ Discuss various Provisions of C.M.R. 2017.
Unit – 4	Mines Rescue Rules 1985
	☐ Discuss various provisions of Mines Rescue Rules 1985.
Unit – 5	Indian Explosive Rules 2008
	 Discuss various provisions of Indian Explosive Rules 2008.
Unit – 6	Central Electricity Authority 2010
3	 Discuss various provisions of Central Electricity Authority 2010.

SI. No.	Title of the Book	Name of Authors
1	Mines Ac	t - 1952
2	Mines Ru	ıles - 1955
3	Coal Min	e Regulations - 2017
4	Mines Re	escue Rules - 1985
5	Indian Ex	plosive Rules - 2008
6	Central E	lectricity Authority - 2010

Books Suggested:

	Mines act 1952	B.K Kejriwal
>	Mines Rules1955	From D.G.M.S circular
\triangleright	CMR 2017	L.C Kaku
	Mines Rescue	From D.G.M.S
	Rules1985	circular
\triangleright	Indian Explosive	
	Rule2008	

Central Electricity L.C Kaku Authority2010

Objective

- Describe various aspects of Mines Act 1952.
- Describe various aspects of Mines Rule 1955.
- Describe various aspects of Coal Mines Regulations 2017.
- Describe various aspects of Mines Rescue Rules 1985.
- Describe various aspects of Indian Explosive Rules 2008.
- Describe various aspects of Central Electricity Authority 2010.

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	Lecture No.	Sub. Topic	Important Teaching Points	Content Source
01		Teaching	01	Mines Act 1952	Intro.&impt. terms	Mines Act 1952
				Mines Act 1952	Qualification,Powers,rol	B.K Kejriwal Mines Act
02		1 ST	02		e& function of Chief Inspector & Inspector	1952 B.K Kejriwal
03		, i	03	Mines Act 1952	Committee,Composition ,Powers& Function of Committee	Mines Act 1952 B.K Kejriwal
04	I		04	Mines Act 1952	Duties,Role& Responsibilities of Manager	Mines Act 1952 B.K Kejriwal
05			01	Mines Act 1952	Duties,Role& Responsibilities of Owner & agent	Mines Act 1952 B.K Kejriwal
06		2 ND	02	Mines Act 1952	DrinkIngWater,Latrines &Urinals,Employment of age below 18 years& Women in mines	Mines Act 1952 B.K Kejriwal

07			03	Mines Act 1952	Notice to Given& investigation of accidents	Mines Act 1952	
08			04	Mines Act 1952	Notice to Given& investigation of Diseases	Mines Act 1952 B.K Kejriwal	
09			01	Mines Act 1952	Weekly Day of Rest,compensatory day of rest,Hours of work both U/G & O/C mines,overtime	Mines Act 1952 B.K Kejriwal	
10			02	Mines Act 1952	Power of Central govt. to make rules and regulations	Mines Act 1952 B.K Kejriwal	
11		3 RD	03	Mines Act 1952	Penalty on Falsification of records,falsecertificate,o mission of plans & employment of below 18 years age	Mines Act 1952 B.K Kejriwal	
12			04	Mines Act 1952	Penalties on accident,Failure to appoint manager,provision for regulation, & law	Mines Act 1952 B.K Kejriwal	
13			01	Mines Act 1952	Doubt class on previous topic	Mines Act 1952 B.K Kejriwal	
14		4 TH	02	Mines Act 1952	Unit Test on Ch-01		
15		4	03	Mines Rules1955	Intro.&impt. Terms	From D.G.M.S circular	
16			04	Mines Rules1955	Qualification,Duties& responsibilities of Surgeon	From D.G.M.S circular	
17			01	Mines Rules1955	Initial ,Periodical Medical Examination & standard report	From D.G.M.S circular	
18	II		п	02	Mines Rules1955	Qualification,Duties& Responsibilities of Workmen's Inspector	From D.G.M.S circular
19		5 [™]	03	Mines Rules1955	Composition & Function of Safety committee	From D.G.M.S circular	
20			04	Mines Rules1955	Quantity,storage of drinking water,Standards of surface & u/g laterines&urinals,sanitati on	From D.G.M.S circular	

				Mines	First-aid: Training,room,station&	From D.G.M.S
21			01	Rules1955	carrying of first-aid	circular
22		6 [™]	02	Mines Rules1955	Employment of trainees,Standard of shelter,canteen	From D.G.M.S circular
23			03	Mines Rules1955	Qualifications,Duties& Responsibilities of Welfare officers	From D.G.M.S circular
24			04	Mines Rules1955	Difft. Types of Registers use in mines & Doubt Class	From D.G.M.S circular
25			01	Coal Mines Regulations- 2017	Intro.&impt. Terms	CMR-2017 L.C Kaku
26			02	Coal Mines Regulations- 2017	Notice of opening, reopening closur e, monthly return, quarterly return & annual return	CMR-2017 L.C Kaku
27		7 [™]	03	Coal Mines Regulations- 2017	Qualifications, Duties & Responsibilities of manager, asst. manager, safety officer, ventilation of ficer, engineer	CMR-2017 L.C Kaku
28			04	Coal Mines Regulations- 2017	Qualifications, Duties & Responsibilities of overman, sirdar, shotfirer, surveyor	CMR-2017 L.C Kaku
29			01	Coal Mines Regulations- 2017	Qualifications, Duties & Responsibilities of supportman, lamp room incharge, banksman, onse tter, magazine in-charge & difft. operator	CMR-2017 L.C Kaku
30	III	8 TH	02	Coal Mines Regulations- 2017	Difft. Types of plans & survey instruments	CMR-2017 L.C Kaku
31			03	Coal Mines Regulations- 2017	Installation of new winding, windingrope, su spension gear & general precautions	CMR-2017 L.C Kaku
32			04	Coal Mines Regulations- 2017	Haulage road, Travelling road,tubes& movement	CMR-2017 L.C Kaku
33		9 ^{тн}	01	Coal Mines Regulations- 2017	Transport rules, codes of practices, working near mine boundaries, ssr& withdrawal of supports & general precautions	CMR-2017 L.C Kaku

34			02	Coal Mines Regulations- 2017	Doubt class	CMR-2017 L.C Kaku
35			03	Coal Mines Regulations- 2017	Classification of degree of coal seam,general precautions against fire,spontaneous heating &fire fighting equipment	CMR-2017 L.C Kaku
36			04	Coal Mines Regulations- 2017	Precaution against eruption of gas,dust,,stone dust barriers,	CMR-2017 L.C Kaku
37			01	Coal Mines Regulations- 2017	Danger from surface water,inundation,construction of water dams	CMR-2017 L.C Kaku
38			02	Coal Mines Regulations- 2017	Standard of ventilation, MMV, Auxiliar yfan, boosterfan, door, air -crossing, stopping	CMR-2017 L.C Kaku
39		IV	03	Coal Mines Regulations- 2017	Precautions against inflammable gas & noxious gases, determination of % of gas	CMR-2017 L.C Kaku
40	IV		04	Coal Mines Regulations- 2017	General lighting,use of safety lamp,maintanence& repairing of safety lamp	CMR-2017 L.C Kaku
41			01	Coal Mines Regulations- 2017	Use of difft.Machineries,Equip ments& safety precautions against parts of machineries,Provisons on welding,cuttings in u/g coal mines	CMR-2017 L.C Kaku
42		11 [™]	02	Coal Mines Regulations- 2017	Unit test ch-03	
43			03	Mines Rescue Rules1985	Establishment& function of rescue station, rescue room in mines	Mines Rescue Rules1985
44			04	Mines Rescue Rules1985	Qualification,role& functions of superidendent,instructor ,incharge& Trainer	Mines Rescue Rules1985
45		12 [™]	01	Mines Rescue Rules1985	Duties of manager during emergency,belowgroun d,instrument& rescue apparatus	Mines Rescue Rules1985
46	V		02	Mines Rescue Rules1985	Unit Test (Chapter 4)	

47			03	Mines Rescue Rules1985	Doubt clearing class	Mines Rescue Rules1985
48			04	Indian Explosive Rule2008	Impot. Terms & Classification of explosive	Indian Explosive Rule2008
49			01	Indian Explosive Rule2008	Storage of explosive & blasting equipments& apparatus, construction of Magazine	Indian Explosive Rule2008
50		13 [™]	02	Indian Explosive Rule2008	Transportation of explosive & explosive vehicle	Indian Explosive Rule2008
51			03	Indian Explosive Rule2008	Licence for magazine & explosive manufacturer	Indian Explosive Rule2008
52			04	Indian Explosive Rule2008	Procedures of Drilling,charging,stemmi ng& firing of shot firing	Indian Explosive Rule2008
53			01	Indian Explosive Rule2008	General Precaution regarding explosive & blasting	Indian Explosive Rule2008
54		14 [™]	02	Indian Explosive Rule2008	Unit Test (Chapter 05)& Doubt Clearing Class	Indian Explosive Rule2008
55		14'''	03	Central Electricity Authority2010	Intro.&Impot. Terms	L.C Kaku
56			04	Central Electricity Authority2010	General conditions of supply & use of electricity	L.C Kaku
57			01	Central Electricity Authority2010	Cables,insulator, earthing& maintenance	L.C Kaku
58	_	15 [™]	02	Central Electricity Authority2010	Use & maintenance of Intrensically safe apparatus & flameproof equipments	L.C Kaku
59			03	Central Electricity Authority2010	Circuit Breaker,Gate end box & General precaution	L.C Kaku
60			04	Central Electricity Authority2010	Unit Test (Chapter 06)&Doubt Clearing Class	

Signature of Lecturer