ANSBAHALIIPM SCHOOL OF ENGINEERING & TECHNOLOGY

LESSON PLAN: 2022-23

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
J	o Discuss various provisions of Central Electricity Authority 2010.

SI. No.	Title of the Book	Name of Authors
1	Mines Ac	et - 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:

Authority2010

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

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
		Teaching				
01			01	Mines Act 1952	Intro.&impt. terms	Mines Act 1952 B.K Kejriwal
02		1 ST	02	Mines Act 1952	Qualification,Powers,rol e& function of Chief Inspector & Inspector	Mines Act 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		10	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	Mines Act 1952
08			04	Mines Act 1952	Accidents Notice to Given& investigation of Diseases	B.K Kejriwal Mines Act 1952
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		4 [™]	01	Mines Act 1952	Doubt class on previous topic	Mines Act 1952 B.K Kejriwal
14			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		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:	5 D O M O
21			01	Rules1955	Training,room,station& carrying of first-aid	From D.G.M.S 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,safetyofficer,v entilationofficer,enginee r	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 TH	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		10 TH	03	Coal Mines Regulations- 2017	Precautions against inflammable gas & noxious gases, determination of % of gas	CMR-2017 L.C Kaku
40	IV	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 TH	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	V		04	Mines Rescue Rules1985	Qualification,role& functions of superidendent,instructor ,incharge& Trainer	Mines Rescue Rules1985
45		12 TH	01	Mines Rescue Rules1985	Duties of manager during emergency,belowgroun d,instrument& rescue apparatus	Mines Rescue Rules1985
46			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