

## Mining Engineering

### PROPOSED CURRICULAR STRUCTURE FOR

#### PART – II (2ND YEAR) OF THE FULL-TIME DIPLOMA COURSES IN ENGINEERING & TECHNOLOGY

<b>SEMESTER: THIRD</b>											
<b>BRANCH: MINING ENGINEERING</b>											
SR. NO	SUBJECT	CREDITS	PERIODS			EVALUATION SCHEME					
			L	TU	PR	INTERNAL SCHEME			ESE	PR	Total Marks
						TA	CT	Total			
1.	INTRODUCTION TO MINING	5	4	1		10	20	30	70		100
2.	EXPLOSIVES, BLASTING PRACTICES & GAS DETECTION	5	4	1		10	20	30	70		100
3.	UNDERGROUND COAL MINING METHODS & FUEL TECHNOLOGY	4	4			10	20	30	70		100
4.	MINING GAS, BORING & BLASTING LAB	3			5					100	100
5.	COMPUTER AIDED DESIGN & DRAFTING LAB	2			3					50	50
6.	PROFESSIONAL PRACTICES – I	1			2					50	50
7.	INDUSTRIAL TRAINING*	5			9					300	300
<b>Total:</b>		<b>25</b>	<b>12</b>	<b>2</b>	<b>19</b>	<b>30</b>	<b>60</b>	<b>90</b>	<b>210</b>	<b>500</b>	<b>800</b>

**STUDENT CONTACT HOURS PER WEEK: 33 hrs**  
 Theory and Practical Period of 60 Minutes each.  
 L- Lecture, TU- Tutorials, PR- Practical, TA- Teachers Assessment, CT- Class Test, ESE- End Semester Exam.  
 \* Students will undergo 16 weeks of Practical training during this semester. Weightage on PR & Credit points is allotted on the basis of 16 weeks of Practical training.

<b>SEMESTER: FOURTH</b>											
<b>BRANCH: MINING ENGINEERING</b>											
SR. NO	SUBJECT	CREDITS	PERIODS			EVALUATION SCHEME					
			L	TU	PR	INTERNAL SCHEME			ESE	PR	Total Marks
						TA	CT	Total			
1.	SPECIAL UNDERGROUND METHODS, ROCK MECHANICS & SUPPORTS	4	4			10	20	30	70		100
2.	SURFACE MINING	4	4			10	20	30	70		100
3.	UNDERGROUND METALLIFEROUS MINING & TUNELLING	4	3	1		10	20	30	70		100
4.	MINING HAZARDS	5	5			10	20	30	70		100
5.	MINING GEOLOGY	5	2	2	4	10	20	30	70	100	200
6.	MINE SAFETY LAB	2			4					100	100
7.	MINE METHODS & SUPPORT LAB	2			4					100	100
<b>Total:</b>		<b>26</b>	<b>18</b>	<b>3</b>	<b>12</b>	<b>50</b>	<b>100</b>	<b>150</b>	<b>350</b>	<b>300</b>	<b>800</b>

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 Theory and Practical Period of 60 Minutes each.  
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**ROPOSED CURRICULAR STRUCTURE FOR  
PART – III (3RD YEAR) OF THE FULL--TIME DIPLOMA COURSES IN ENGINEERING & TECHNOLOGY**

<b>SEMESTER: FIFTH</b>											
<b>BRANCH: MINING ENGINEERING</b>											
SR. NO	SUBJECT	CREDITS	PERIODS			EVALUATION SCHEME					
			L	TU	PR	INTERNAL SCHEME			ESE	PR	Total Marks
						TA	CT	Total			
1.	MINE MANAGEMENT, LEGISLATION & GENERAL SAFETY - I	5	5			10	20	30	70		100
2.	MINE VENTILATION - I	5	3	1	2	5	10	15	35	50	100
3.	MINE SURVEYING - I	6	4	1	3	10	20	30	70	100	200
4.	ELECTRICAL ENGINEERING & MECHANICAL ENGINEERING	5	3	1	3	10	20	30	70	100	200
5.	INDUSTRIAL TRAINING *	4			7					300	300
<b>Total:</b>		<b>25</b>	<b>15</b>	<b>3</b>	<b>15</b>	<b>35</b>	<b>70</b>	<b>105</b>	<b>245</b>	<b>550</b>	<b>900</b>

**STUDENT CONTACT HOURS PER WEEK:33 hrs**  
**Theory and Practical Period of 60 Minutes each.**  
**L- Lecture, TU- Tutorials, PR- Practical, TA- Teachers Assessment, CT- Class Test, ESE- End Semester Exam.**  
**\* Students will undergo 16 weeks of Practical training during this semester. Weightage on PR & Credit points is allotted on the basis of 16 weeks of Practical training.**

<b>SEMESTER: SIXTH</b>											
<b>BRANCH: MINING ENGINEERING</b>											
SR. NO	SUBJECT	CREDITS	PERIODS			EVALUATION SCHEME					
			L	TU	PR	INTERNAL SCHEME			ESE	PR	Total Marks
						TA	CT	Total			
1.	MINE MANAGEMENT, LEGISLATION & GENERAL SAFETY - II	4	4			10	20	30	70		100
2.	MINING MACHINERY - I	5	4		2	10	20	30	70	50	150
3.	MINING MACHINERY - II	5	3	1	2	10	20	30	70	50	150
4.	MINE VENTILATION - II	4	3		2	5	10	15	35	50	100
5.	MINE SURVEYING - II	5	3		3	10	20	30	70	100	200
6.	PROJECT WORK & SEMINAR	2			4					100	100
7.	GRAND VIVA	1			2					100	100
<b>Total:</b>		<b>26</b>	<b>17</b>	<b>1</b>	<b>15</b>	<b>45</b>	<b>90</b>	<b>135</b>	<b>315</b>	<b>450</b>	<b>900</b>

**STUDENT CONTACT HOURS PER WEEK:33 hrs**  
**Theory and Practical Period of 60 Minutes each.**  
**L- Lecture, TU- Tutorials, PR- Practical, TA- Teachers Assessment, CT- Class Test, ESE- End Semester Exam.**