

COURSE SCHEME													
BATCH 2025-2028													
DIPLOMA IN MINING ENGINEERING													
SEMESTER I													
S.No	Category	Subject Code	Name of Subject	Evaluation Scheme				Subject Total	Periods			Credit	Hours
				Assign ment	TA	Total	ESE		L	T	P		
1	Basic Science Course	8DBSC101	Basic Mathematics I	20	10	30	70	100	3	0	0	3	3
2	Basic Science Course	8DBSC102	Basic Chemistry	20	10	30	70	100	3	0	0	3	3
3	Basic Science Course	8DBSC103	Basic Physics I	20	10	30	70	100	3	0	0	3	3
4	Engineering Science Course	8DESC101	Fundamentals of Computer	20	10	30	70	100	3	0	0	3	3
5	Humanities and Social Sciences	8DHSMC101	Life Skills I	20	10	30	70	100	2	0	0	2	2
<b>PRACTICAL/SESSIONAL</b>													
1	Basic Science Course	8DBSC102P	Basic Chemistry Lab		30	30	20	50	0	0	2	1	2
2	Basic Science Course	8DBSC103P	Basic Physics I Lab		30	30	20	50	0	0	2	1	2
3	Engineering Science Course	8DESC101P	Fundamentals of Computer Lab		30	30	20	50	0	0	2	1	2
4	Engineering Science Course	8DESC102P	Basic Engineering Graphics Lab		30	30	20	50	0	0	2	1	2
5	Engineering Science Course	8DESC103P	Workshop Practice I Lab		30	30	20	50	0	0	4	2	4
<b>TOTAL</b>								<b>750</b>				<b>20</b>	<b>26</b>

BATCH 2025-2028													
DIPLOMA IN MINING ENGINEERING													
SEMESTER II													
S.No	Category	Subject Code	Name of Subject	Evaluation Scheme				Subject Total	Periods			Credit	Hours
				Assign ment	TA	Total	ESE		L	T	P		
1	Basic Science Course	8DBSC104	Basic Physics II	20	10	30	70	100	3	0	0	3	3
2	Basic Science Course	8DBSC105	Basic Mathematics II	20	10	30	70	100	3	0	0	3	3
3	Engineering Science Course	8DESC104	Engineering Mechanics	20	10	30	70	100	3	0	0	3	3
4	Engineering Science Course	8DESC105	Basic Electrical & Electronics Engineering	20	10	30	70	100	3	0	0	3	3
5	Mandatory Course	8DMC101	Environmental Studies	20	10	30	70	100	3	0	0	3	3
6	Humanities and Social Sciences	8DHSMC102	Life Skills II	20	10	30	70	100	2	0	0	2	2
<b>PRACTICAL/SESSIONAL</b>													
1	Basic Science Course	8DBSC104P	Basic Physics II Lab		30	30	20	50	0	0	2	1	2
2	Engineering Science Course	8DESC104P	Engineering Mechanics Lab		30	30	20	50	0	0	2	1	2
3	Engineering Science Course	8DESC105P	Basic Electrical & Electronics Engineering Lab		30	30	20	50	0	0	2	1	2
4	Engineering Science Course	8DESC106P	Workshop Practice II Lab		30	30	20	50	0	0	2	1	2
<b>TOTAL</b>								<b>800</b>				<b>21</b>	<b>25</b>

**BATCH 2025-2028**  
**DIPLOMA IN MINING ENGINEERING**  
**SEMESTER III**

S. No	Category	Subject code	Name of Subject	Evaluation Scheme				Subject	Period			Credit	Hours
				Assignment	T	A	Total		ESC	L	T		
1	Engineering Science Course	8DESC201	Mechanical Engineering	20	10	30	70	100	3	0	0	3	3
2	Professional Core Courses	8DPCCMiE201	Mining Geology I	20	10	30	70	100	3	0	0	3	3
3	Professional Core Courses	8DPCCMiE202	Mine Surveying I	20	10	30	70	100	3	0	0	3	3
4	Professional Core Courses	8DPCCMiE203	Introduction to Mining	20	10	30	70	100	3	0	0	3	3
5	Humanities and Social Sciences	8DHSMC201	Communication & Soft Skills	20	10	30	70	100	2	0	0	2	2
6	Mandatory Course	8DMC201	Disaster Management	20	10	30	70	100	3	0	0	2	2

**PRACTICAL / SESSIONAL**

1	Engineering Science Course	8DESC201P	Mechanical Engineering Lab		30	30	20	50	0	0	2	1	2
2	Professional Core Courses	8DPCCMiE201P	Mining Geology I Lab		30	30	20	50	0	0	2	1	2
3	Professional Core Courses	8DPCCMiE202P	Mine Surveying I Lab		30	30	20	50	0	0	2	1	2
<b>Total</b>								<b>750</b>				<b>19</b>	<b>22</b>

**Vocational Training in a Surface / Underground Mine of minimum 30 (Thirty) days to be taken at the end of IIIrd Semester Will be Credited in IVth Semester.**

**BATCH 2025-2028**  
**DIPLOMA IN MINING ENGINEERING**  
**SEMESTER IV**

S. No	Category	Subject code	Name of Subject	Evaluation Scheme				Subject	Period			Credit	Hours
				Assignment	T	A	Total		ESC	L	T		
1	Professional Core Courses	8DPCCMiE204	Mining Machinery I	20	10	30	70	100	3	0	0	3	3
2	Professional Core Courses	8DPCCMiE205	Mine Surveying II	20	10	30	70	100	3	0	0	3	3
3	Professional Core Courses	8DPCCMiE206	Mining Geology II	20	10	30	70	100	3	0	0	3	3
4	Professional Core Courses	8DPCCMiE207	Underground Coal Mining	20	10	30	70	100	3	0	0	3	3
5	Professional Core Courses	8DPCCMiE208	Surface Mining	20	10	30	70	100	3	0	0	3	3
6	Humanities and Social Sciences	8DHSMC202	Professional Skills	20	10	30	70	100	2	0	0	2	2

**PRACTICAL/ SESSIONAL**

1	Professional Core Courses	8DPCCMiE205P	Mine Surveying II Lab		30	30	20	50	0	0	2	1	2
2	Professional Core Courses	8DPCCMiE206P	Mining Geology II Lab		30	30	20	50	0	0	2	1	2
3	Project	8DPROJMiE201	Practical Training Report I		0	50	50	100	0	0	0	3	0
<b>Total</b>								<b>800</b>				<b>22</b>	<b>21</b>

**Vocational Training in a Surface / Underground Mine of minimum 30 (Thirty) days to be taken at the end of IVth Semester Will be Credited in Vth Semester.**

BATCH 2025-2028													
DIPLOMA IN MINING ENGINEERING													
SEMESTER V													
S. No	Category	Subject code	Name of Subject	Evaluation Scheme				Subject	Period			Credit	Hours
				Assignment	T	A	Total		ESC	L	T		
1	Professional Core Courses	8DPCCMiE301	Underground Metal Mining	20	10	30	70	100	3	0	0	3	3
2	Professional Core Courses	8DPCCMiE302	Mining Machinery II	20	10	30	70	100	3	0	0	3	3
3	Professional Core Courses	8DPCCMiE303	Mine Ventilation	20	10	30	70	100	3	0	0	3	3
4	Professional Core Courses	8DPCCMiE304	Mine Environmental Engineering	20	10	30	70	100	3	0	0	3	3
5	PROFESSIONAL ELECTIVE I	<b>(Any one of the followings)</b>		20	10	30	70	100	3	0	0	3	3
		8DPECMiEEL301	Mine Reclamation and Closure										
		8DPECMiEEL302	Environmental Aspects of Mining										
		8DPECMiEEL303	Mine Planning and Design										
6	Humanities and Social Sciences	8DHSMC301	**Human Values and Ethics	20	10	30	70	100	2	0	0	0	2
<b>PRACTICAL / SESSIONAL</b>													
1	Professional Core Courses	8DPCCMiE303P	Mine Ventilation Lab		30	30	20	50	0	0	2	1	2
2	Project	8DPROJMiE301	Practical Training Report II		-	50	50	100	0	0	0	2	0
								<b>Total</b>	<b>650</b>			<b>18</b>	<b>19</b>

\*\* NOTE: Qualifying Non Credit Course

BATCH 2025-2028													
DIPLOMA IN MINING ENGINEERING													
SEMESTER VI													
S. No	Category	Subject code	Name of Subject	Evaluation Scheme				Subject	Period			Credit	Hours
				Assignment	T	A	Total		ESC	L	T		
1	Professional Core Courses	8DPCCMiE305	Mine Legislation & Safety	20	10	30	70	100	3	0	0	3	3
2	Professional Core Courses	8DPCCMiE306	Fuel Technology & Mineral Processing	20	10	30	70	100	3	0	0	3	3
3	Professional Core Courses	8DPCCMiE307	Rock Mechanics	20	10	30	70	100	3	0	0	3	3
4	PROFESSIONAL ELECTIVE II	<b>(Any one of the followings)</b>		20	10	30	70	100	3	0	0	3	3
		8DPECMiEEL304	Mine Safety Engineering										
		8DPECMiEEL305	Mine & Mineral Economics										
		8DPECMiEEL306	Mine Automation										
5	Humanities and Social Sciences	8DHSMC302	Seminar in Executive Communication	20	10	30	20	50	2	0	0	1	2
<b>PRACTICAL / SESSIONAL</b>													
1	Professional Core Courses	8DPCCMiE306P	Fuel Technology & Mineral Processing Lab		30	30	50	50	0	0	2	1	2
2	Professional Core Courses	8DPCCMiE307P	Rock Mechanics Lab		30	30	50	50	0	0	2	1	2
3	Project	8DPROJMiE302	Mining Project		-	100	100	200	0	0	5	5	5
								<b>Total</b>	<b>750</b>			<b>20</b>	<b>23</b>
								<b>Overall Total</b>	<b>4500</b>			<b>120</b>	

<b>COURSE CATEGORY (AICTE GUIDELINES)</b>		
<b>Core Category</b>	<b>Credit</b>	<b>% Credit</b>
Basic Science Course	<b>18</b>	15.00
Engineering Science Course	<b>20</b>	16.67
Humanities and Social Sciences	<b>9</b>	7.50
Mandatory Course	<b>5</b>	4.17
Professional Core Courses	<b>52</b>	43.33
Professional Elective Course	<b>6</b>	5.00
Project	<b>10</b>	8.33
<b>TOTAL</b>	<b>120</b>	<b>100</b>

<b>SEMESTER WISE CREDIT</b>	
<b>SEMESTER</b>	<b>Credit</b>
Semester I	<b>20</b>
Semester II	<b>21</b>
Semester III	<b>19</b>
Semester IV	<b>22</b>
Semester V	<b>18</b>
Semester VI	<b>20</b>
<b>TOTAL</b>	<b>120</b>