

COURSE SCHEME														
BATCH 2024-2027														
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	
PRACTICAL/SESSIONAL														
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	
								TOTAL	750				20	26

BATCH 2024-2027														
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	
PRACTICAL/SESSIONAL														
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	
								TOTAL	800				21	25

BATCH 2024-2027														
DIPLOMA IN MINING ENGINEERING														
SEMESTER III														
S. No	Category	Subject code	Name of Subject	Evaluation Scheme				Subject	Period			Credit	Hours	
				Assign ment	T	A	Total		ESC	L	T			P
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	
								Total	750				19	22

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 2024-2027														
DIPLOMA IN MINING ENGINEERING														
SEMESTER IV														
S. No	Category	Subject code	Name of Subject	Evaluation Scheme				Subject	Period			Credit	Hours	
				Assign ment	T	A	Total		ESC	L	T			P
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	
								Total	800				22	21

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 2024-2027													
DIPLOMA IN MINING ENGINEERING													
SEMESTER V													
S. No	Category	Subject code	Name of Subject	Evaluation Scheme				Subject	Period			Credit	Hours
				Assignm ent	T A	Total	ESC		L	T	P		
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	(Any one of the followings)		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
PRACTICAL / SESSIONAL													
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
								Total	650			18	19

** NOTE: Qualifying Non Credit Course

BATCH 2024-2027													
DIPLOMA IN MINING ENGINEERING													
SEMESTER VI													
S. No	Category	Subject code	Name of Subject	Evaluation Scheme				Subject	Period			Credit	Hours
				Assignm ent	T A	Total	ESC		L	T	P		
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	(Any one of the followings)		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
PRACTICAL / SESSIONAL													
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
								Total	750			20	23
								Overall Total	4500			120	

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

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