



JHARKHAND Rai University

BATCH 2022-2025												
DIPLOMA IN MINING												
SEMESTER I												
			Periods			Evaluation Scheme				Subject Total	Credit	Hours
S.No	Subject Code	Name of Subject	L	T	P	Assign ment	TA	Total	ESE			
1	9D.102	Computer Fundamentals	2	0	0	20	10	30	70	100	2	2
2	9D.103	Basic Mathematics I	3	0	0	20	10	30	70	100	3	3
3	9D.104	Basic Chemistry	3	0	0	20	10	30	70	100	3	3
4	9D.106	Basic Physics I	3	0	0	20	10	30	70	100	3	3
5	40D.101	Life Skills I	2	0	0	20	10	30	70	100	2	2
PRACTICAL/DESIGN/DRAWING/SESSIONAL												
1	9DP.102	Computer Fundamentals Lab	0	0	2		30	30	20	50	1	2
2	9DP.104	Basic Chemistry Lab	0	0	2		30	30	20	50	1	2
3	9DP.105	Basic Engineering Graphics	0	0	4		30	30	20	50	2	4
4	9DP.106	Basic Physics I Lab	0	0	2		30	30	20	50	1	2
5	9DP.107	Workshop Practice I	0	0	4		30	30	20	50	2	4
									TOTAL	750	20	27

BATCH 2022-2025												
DIPLOMA IN MINING												
SEMESTER II												
			Periods			Evaluation Scheme				Subject Total	Credit	Hours
S.No	Subject Code	Name of Subject	L	T	P	Assign ment	TA	Total	ESE			
1	9D.151	Basic Physics II	3	0	0	20	10	30	70	100	3	3
2	9D.152	Environmental Studies	3	0	0	20	10	30	70	100	3	3
3	9D.153	Engineering Mechanics	3	0	0	20	10	30	70	100	3	3
4	9D.154	Basic Mathematics II	3	0	0	20	10	30	70	100	3	3
5	9D.155	Basic Electrical & Electronics Engineering	3	0	0	20	10	30	70	100	3	3
6	40D.151	Life Skills II	2	0	0	20	10	30	70	100	2	2
PRACTICAL/DESIGN/DRAWING/SESSIONAL												
1	9DP.151	Basic Physics II Lab	0	0	2		30	30	20	50	1	2
2	9DP.153	Engineering Mechanics Lab	0	0	2		30	30	20	50	1	2
3	9DP.155	Basic Electrical & Electronics Engineering Lab	0	0	2		30	30	20	50	1	2
4	9DP.156	Workshop Practice II	0	0	4		30	30	20	50	2	2
									TOTAL	800	22	25

BATCH 2022-2025												
DIPLOMA IN MINING												
SEMESTER III												

S. No	Subject code	Name of Subject	Period			Evaluation Scheme				Subject	Credit	Hours
			L	T	P	Assignment	T A	Total	ESC			
1	8D.201	Mechanical Engineering	3	0	0	20	10	30	70	100	3	3
2	8D.202	Mining Geology I	3	0	0	20	10	30	70	100	3	3
3	8D.203	Mine Surveying I	3	0	0	20	10	30	70	100	3	3
4	8D.204	Introduction to Mining	3	0	0	20	10	30	70	100	3	3
5	9D.204	Applied Mathematics	3	0	0	20	10	30	70	100	3	3
6	40D.201	Communication & Soft Skills	2	0	0	20	10	30	70	100	2	2
7	14D.201	** Disaster Management	3	0	0	20	10	30	70	100	0	3
PRACTICAL / SESSIONAL												
1	8DP.201	Mechanical Engineering Lab	0	0	2		30	30	20	50	1	2
2	8DP.202	Mining Geology I Lab	0	0	2		30	30	20	50	1	2
3	8DP.203	Mine Surveying I Lab	0	0	2		30	30	20	50	1	2
									Total	850	20	23

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 Vth Semester.

**** NOTE: Qualifying Non Credit Course**

***** NOTE: For Lateral students (Qualifying Non Credit Course)**

BATCH 2022-2025												
DIPLOMA IN MINING												
SEMESTER IV												
S. No	Subject code	Name of Subject	Period			Evaluation Scheme				Subject	Credit	Hours
			L	T	P	Assignment	T A	Total	ESC			
1	8D.251	Mining Machinery I	3	0	0	20	10	30	70	100	3	3
2	8D.252	Basic Mine Electrical Engineering	3	0	0	20	10	30	70	100	3	3
3	8D.253	Mining Geology II	3	0	0	20	10	30	70	100	3	3
4	8D.254	Underground Coal Mining	3	0	0	20	10	30	70	100	3	3
5	8D.255	Underground Metal Mining	3	0	0	20	10	30	70	100	3	3
6	40D.251	Professional Skills	2	0	0	20	10	30	70	100	2	2
PRACTICAL/ SESSIONAL												
1	8DP.252	Basic Mine Electrical Engineering Lab	0	0	2		30	30	20	50	1	2
2	8DP.253	Mining Geology II Lab	0	0	2		30	30	20	50	1	2
									Total	700	19	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.

***** NOTE: For Lateral students (Qualifying Non Credit Course)**

BATCH 2022-2025												
DIPLOMA IN MINING												
SEMESTER V												
S. No	Subject code	Name of Subject	Period			Evaluation Scheme				Subject	Credit	Hours
			L	T	P	Assignment	T A	Total	ESC			

S. No	Subject code	Name of Subject	L	T	P	Assignment	T A	Total	ESC			
1	8D.301	Surface Mining	3	0	0	20	10	30	70	100	3	3
2	8D.302	Mine Surveying II	3	0	0	20	10	30	70	100	3	3
3	8D.303	Mining Machinery II	3	0	0	20	10	30	70	100	3	3
4	8D.304	Mine Ventilation	3	0	0	20	10	30	70	100	3	3
5	ELECTIVE I (Any one of the followings)											
	8D.331	Mine Environmental Engineering	3	0	0	20	10	30	70	100	3	3
	8D.332	Mine Reclamation and Closure										
	8D.333	Mine Planning and Design										
6	40D.401	**Seminar in Executive Communication	2	0	0	20	10	30	20	50	0	2
PRACTICAL / SESSIONAL												
1	8DP.302	Mine Surveying II Lab	0	0	2		30	30	20	50	1	2
2	8DP.304	Mine Ventilation & Environmental Engineering Lab	0	0	2		30	30	20	50	1	2
3	8D.345	Practical Training Project I	0	0	0		0	0	0	50	2	2
									Total	700	19	23

**** NOTE: Qualifying Non Credit Course & only Viva voce is conducted**

BATCH 2022-2025													
DIPLOMA IN MINING													
SEMESTER VI													
			Period			Evaluation Scheme				Subject	Credit	Hours	
S. No	Subject code	Name of Subject	L	T	P	Assignment	T A	Total	ESC				
1	8D.351	Mine Legislation & Safety	3	0	0	20	10	30	70	100	3	3	
2	8D.352	Fuel Technology & Mineral Processing	3	0	0	20	10	30	70	100	3	3	
3	8D.353	Environmental Aspects of Mining	3	0	0	20	10	30	70	100	3	3	
4	8D.354	Rock Mechanics	3	0	0	20	10	30	70	100	3	3	
5	ELECTIVE II (Any one of the followings)												
	8D.381	Mine & Mineral Economics	3	0	0	20	10	30	70	100	3	3	
	8D.382	Remote Sensing & Geo-Informatics											
	8D.383	Engineering Economics											
	8D.384	Principle of Management											
6	40D.451	**Human Values and Ethics	2	0	0	20	10	30	70	100	0	2	
PRACTICAL / SESSIONAL													
1	8DP.352	Fuel Technology & Mineral Processing Lab	0	0	2		30	30	50	50	1	2	
2	8DP.354	Rock Mechanics Lab	0	0	2		30	30	50	50	1	2	
3	8D.395	Practical Training Project II	0	0	2		-	-	100	100	3	3	
									Total	800	20	24	
										Total of all Semester :	4600	120	

**** NOTE: Qualifying Non Credit Course & only Viva voce is conducted
MOOCs introduced through SWAYAM in all semester.**