

SWAMI VIVEKANAND UNIVERSITY, SIRONJA, SAGAR (M.P.)



SYLLABUS

For

BACHELOR OF TECHNOLOGY (B.Tech) MINING ENGINEERING

Course Code : BTMNE

Department of MINING Engineering

Faculty of Engineering

Duration of Course	: 4 Years
Examination Mode	: Semester
Examination System	: Grading

Swami Vivekanand University, Sironja Sagar (M.P.)

2016-2017



Swami Vivekanand University, Sagar (M.P.)

Scheme of Examination



Faculty of Engineering

Department : MINING Engineering

Scheme of Course : B.Tech in Mining Engineering

Course Code : BTMNE

Semester/Year :- 1st Sem

S. No.	Subject Code	Subject	Periods per Week				Distribution of Marks							Grand Total (i) = (d)+(h)	
			L	T	P	C	Theory		MST (c)	Total (d) = (a)+(c)	Practical		TW (g)		Total (h) = (e)+(f)
							Max (a)	Min (b)			Max (e)	Min (f)			
1	BTMNE-0101	Mathematics - I	3	1	-	4	80	25	20	100	-	-	-	-	100
2	BTMNE-0102	Fundamentals of Physics	3	1	2	6	80	25	20	100	50	15	50	100	200
3	BTMNE-0103	Chemistry	3	1	2	6	80	25	20	100	50	15	50	100	200
4	BTMNE-0104	Basic Engg.- I	3	1	2	6	80	25	20	100	50	15	50	100	200
5	BTMNE-0105	Computer Lab	-	-	2	2	-	-	-	-	-	-	50	50	50
6	BTMNE-0106	Workshop Practice	-	-	2	2	-	-	-	-	50	15	50	100	100
7	BTMNE-0107	English	3	1	-	4	80	25	20	100	-	-	-	-	100
8	BTMNE-0108	Project - I	-	-	4	4	-	-	-	-	-	-	50	50	50
Total ->			15	5	14	34	400	-	100	500	200	-	300	500	1000



Swami Vivekanand University, Sagar (M.P.)

Scheme of Examination



Faculty of Engineering
Scheme of Course : B.Tech in Mining Engineering

Department : MINING Engineering
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Semester/Year :- 2nd Sem

S. No.	Subject Code	Subject	Period s per Week				Distribution of Marks								Grand Total (i) = (d)+(h)
			L	T	P	C	Theory		MST (c)	Total (d) = (a)+(c)	Practical		TW (g)	Total (h) = (e)+(f)	
							Max (a)	Min (b)			Max (e)	Min (f)			
1	BTMNE-0201	Mathematics - II	3	1	-	4	80	25	20	100	-	-	-	-	100
2	BTMNE-0202	Material Physics	3	1	2	6	80	25	20	100	50	15	50	100	200
3	BTMNE-0203	Energy & Environment Science	3	1	-	4	80	25	20	100	-	-	-	-	100
4	BTMNE-0204	Basic Engg.- II	3	1	2	6	80	25	20	100	50	15	50	100	200
5	BTMNE-0205	Computer Science	3	1	2	6	80	25	20	100	50	15	50	100	200
6	BTMNE-0206	Engg. Graphics Lab	-	-	2	2	-	-	-	-	50	15	50	100	100
7	BTMNE-0207	Seminar/GD/Lang. Lab	-	-	2	2	-	-	-	-	-	-	50	50	50
8	BTMNE-0208	Project work-II	-	-	4	4	-	-	-	-	-	-	50	50	50
Total ->			15	5	14	34	400	-	100	500	200	-	300	500	1000



Swami Vivekanand University, Sagar (M.P.)

Scheme of Examination



Faculty of Engineering
Scheme of Course : B.Tech in Mining Engineering

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Semester/Year :- 3 Sem

S. No.	Subject Code	Subject	Period s per Week				Distribution of Marks							Grand Total (i) = (d)+(h)	
			L	T	P	C	Theory		MST (c)	Total (d) = (a)+(c)	Practical		TW (g)		Total (h) = (e)+(f)
							Max (a)	Min (b)			Max (e)	Min (f)			
1	BTMNE-0301	Mathematics-III	3	1	-	4	80	25	20	100	-	-	-	-	100
2	BTMNE-0302	Introduction To Mining	3	1	-	4	80	25	20	100	-	-	-	-	100
3	BTMNE-0303	Basic Electrical Engg.	3	1	2	6	80	25	20	100	50	15	50	100	200
4	BTMNE-0304	Mining Geology – I	3	1	2	6	80	25	20	100	50	15	50	100	200
5	BTMNE-0305	Surveying – I	3	1	2	6	80	25	20	100	50	15	50	100	200
6	BTMNE-0306	Computer Programming	-	-	2	2	-	-	-	-	50	15	50	100	100
7	BTMNE-0307	Seminar	-	-	2	2	-	-	-	-	-	-	50	50	50
8	BTMNE-0308	Project Work - III	-	-	2	2	-	-	-	-	-	-	50	50	50
Total ->			15	5	12	32	400		100	500	200	-	300	500	1000



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Semester/Year :- 4 Sem

S. No.	Subject Code	Subject	Periods per Week				Distribution of Marks							Grand Total (i) = (d)+(h)	
			L	T	P	C	Theory		MST (c)	Total (d) = (a)+(c)	Practical		TW (g)		Total (h) = (e)+(f)
							Max (a)	Min (b)			Max (e)	Min (f)			
1	BTMNE-0401	Mechanics of Solid & Fluid	3	1	-	4	80	25	20	100	-	-	-	-	100
2	BTMNE-0402	Underground Coal Mining	3	1	2	6	80	25	20	100	50	15	50	100	200
3	BTMNE-0403	Engineering Material	3	1	-	4	80	25	20	100	-	-	-	-	100
4	BTMNE-0404	Mining Geology –II	3	1	2	6	80	25	20	100	50	15	50	100	200
5	BTMNE-0405	Mining Machinery –I	3	1	2	6	80	25	20	100	50	15	50	100	200
6	BTMNE-0406	Tour Report & Viva-Voce	-	-	2	2	-	-	-	-	50	15	50	100	100
7	BTMNE-0407	Self Study	-	-	2	2	-	-	-	-	-	-	50	50	50
8	BTMNE-0408	Seminar & Group Discussion	-	-	2	2	-	-	-	-	-	-	50	50	50
Total ->			15	5	12	32	400		100	500	200		30	500	1000



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Faculty of Engineering
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Semester/Year :- 5 Sem

S. No.	Subject Code	Subject	Period s per Week				Distribution of Marks							Grand Total (i) = (d)+(h)	
			L	T	P	C	Theory		MST (c)	Total (d) = (a)+(c)	Practical		TW (g)		Total (h) = (e)+(f)
							Max (a)	Min (b)			Max (e)	Min (f)			
1	BTMNE-0501	Mining Machinery -II	3	1	2	6	80	25	20	100	50	17	50	100	200
2	BTMNE-0502	Surface Mine Production	3	1	-	4	80	25	20	100	-	-	-	-	100
3	BTMNE-0503	Mine Legislation-I	3	1	-	4	80	25	20	100	-	-	-	100	100
4	BTMNE-0504	Mine Surveying-II	3	1	2	6	80	25	20	100	50	17	50	100	200
5	BTMNE-0505	Underground Metal Mining	3	1	2	6	80	25	20	100	50	17	50	100	200
6	BTMNE-0506	Software lab III	-	-	2	2	-	-	-	-	50	17	50	100	100
7	BTMNE-0507	Self study (Internal Assessment)	-	-	2	2	-	-	-	-	-	-	50	50	50
8	BTMNE-0508	Project Work - V	-	-	2	2	-	-	-	-	-	-	50	50	50
Total ->			15	5	12	32	400	-	100	500	200	-	300	500	1000



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Scheme of Examination



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Semester/Year :- 6 Sem

S. No.	Subject Code	Subject	Periods per Week				Distribution of Marks							Grand Total (i) = (d)+(h)	
			L	T	P	C	Theory		MST (c)	Total (d) = (a)+(c)	Practical		TW (g)		Total (h) = (e)+(f)
							Max (a)	Min (b)			Max (e)	Min (f)			
1	BTMNE-0601	Blasting Engineering	3	1	2	6	80	25	20	100	50	17	100	100	200
2	BTMNE-0602	Mine Health & Safety	3	1	-	4	80	25	20	100	-	-	-	-	100
3	BTMNE-0603	Mine Hazard	3	1	2	6	80	25	20	100	50	17	50	100	200
4	BTMNE-0604	Sub Surface Environment	3	1	2	6	80	25	20	100	50	17	50	100	200
5	BTMNE-0605	Mine Legislation-II	3	1	2	6	80	25	20	100	-	-	-	-	100
6	BTMNE-0606	Project Work	-	-	2	2	-	-	-	-	50	17	50	100	100
7	BTMNE-0607	Self Study (Internal Assessment)	-	-	2	2	-	-	-	-	-	-	50	50	50
8	BTMNE-0608	Seminar / Group Discussion	-	-	2	2	-	-	-	-	-	-	50	50	50
Total ->			15	5	12	32	400		100	500	200	-	300	500	1000



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Semester/Year :- 7 Sem

S. No.	Subject Code	Subject	Periods per Week				Distribution of Marks							Grand Total (i) = (d)+(h)	
			L	T	P	C	Theory		MST (c)	Total (d) = (a)+(c)	Practical		TW (g)		Total (h) = (e)+(f)
							Max (a)	Min (b)			Max (e)	Min (f)			
1	BTMNE-0701	Mine Planning	3	1	-	4	80	25	20	100	-	-	-	-	100
2	BTMNE-0702	Environment Management in Mine	3	1	2	6	80	25	20	100	50	17	50	100	200
3	BTMNE-0703	Rock Mechanics	3	1	2	6	80	25	20	100	50	17	50	100	200
4	BTMNE-0704	Elective-I	3	1	2	6	80	25	20	100	50	17	50	200	200
5	BTMNE-0705	Advanced Mine Surveying	3	1	2	6	80	25	20	100	50	17	50	100	100
6	BTMNE-0706	Seminar /Minor Project	-	-	2	2	-	-	-	-	50	17	50	100	100
7	BTMNE-0707	Industrial Training	-	-	2	2	-	-	-	-	-	-	50	50	50
8	BTMNE-0708	Seminar	-	-	2	2	-	-	-	-	-	-	50	50	50
Total ->			15	5	12	32	400		100	500	200		300	500	1000

Elective - I

BTMNE-0705(A) – Departmental Elective - A

BTMNE-0705(B) – Departmental Elective – B



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Scheme of Examination



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Semester/Year :- 8 Sem

S. No.	Subject Code	Subject	Period s per Week				Distribution of Marks							Grand Total (i) = (d)+(h)	
			L	T	P	C	Theory		MST (c)	Total (d) = (a)+(c)	Practical		TW (g)		Total (h) = (e)+(f)
							Max (a)	Min (b)			Max (e)	Min (f)			
1	BTMNE-0801	Mine Economics	3	1	-	4	80	25	20	100	-	-	-	-	100
2	BTMNE-0802	Pollution Control In Mining	3	1	2	6	80	25	20	100	50	17	50	100	200
3	BTMNE-0803	Mining Machinery-III	3	1	2	6	80	25	20	100	50	17	50	100	200
4	BTMNE-0804	Strata Control	3	1	2	6	80	25	20	100	50	17	50	100	200
5	BTMNE-0805	Elective –II	3	1	-	4	80	25	20	100	-	-	-	-	100
6	BTMNE-0806	Major Project-II	-	-	6	6	-	-	-	-	100	34	100	200	200
Total ->			15	5	12	32	400	-	100	500	250	-	250	500	1000

Elective – I

BTMNE-0806(A) – Surface Mining-II

BTMNE-0806(B) – Geological Exploration of Mineral Deposits