

Mining Engineering

Semester III

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
	Advance Engineering Mathematics	3	2	0	5	70	30	30	20	150	22
	Mechanics of Solids	4	0	2	6	70	30	30	20	150	22
	Surveying	3	0	2	5	70	30	30	20	150	22
	Fluid Mechanics	3	0	2	5	70	30	30	20	150	22
	Introduction To Mining	4	0	0	4	70	30	0	0	100	22
	Geology-I	3	0	2	5	70	30	30	20	150	22
	Total	20	2	8	30						

Semester IV

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
	Maths - 4 or Branch specific Maths	3	2	0	5	70	30	30	20	150	22
	Engineering Economics and Management	3	0	0	3	70	30	0	0	100	22
	Mining Machinery-I	4	0	2	6	70	30	30	20	150	22
	Basic Mine Surveying	2	0	4	6	70	30	30	20	150	22
	Geology-II	3	0	2	5	70	30	30	20	150	22
	Surface Mine Production	3	0	2	5	70	30	30	20	150	22
	Total	18	2	10	30						

Semester V

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
	Open elective/Interdisciplinary	3	0	2	5	70	30	30	20	150	22
	Management-II	2	0	0	2	70	30	0	0	100	22
	Mining Machinery-II	3	0	3	6	70	30	30	20	150	22
	Rock Mechanics	4	0	2	6	70	30	30	20	150	22
	Advance Mine Surveying	2	0	4	6	70	30	30	20	150	22
	Unerground Coal Mining	3	0	2	5	70	30	0	0	100	22
	Total	17	0	13	30						

Semester VI

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
	Underground Metal Mining	4	0	2	6	70	30	30	20	150	22
	Mine Ventilation	3	0	2	5	70	30	30	20	150	22
	Mine Hazards	3	0	2	5	70	30	30	20	150	22
	Mine Surface Environment	4	0	2	6	70	30	30	20	150	22
	Computer Application Mining	2	0	0	2	70	30	0	0	100	22
	Departmental Elective - I	4	0	2	6	70	30	30	20	150	22
	Total	20	0	10	30						

Semester VII

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
	Mine Plannning	4	0	2	6	70	30	30	20	150	22
	Mine Legislation	4	0	0	4	70	30	0	0	100	22
	Environment Management In Mine	3	0	2	5	70	30	30	20	150	22
	Mineral Processing	3	0	2	5	70	30	30	20	150	22
	Project-I	0	0	4	4	0	0	100	50	150	22
	Departmental Elective - II	4	0	2	6	70	30	30	20	150	22
	Total	18	0	12	30						

Semester VIII

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
	Mine & Mineral Economics	3	0	0	3	70	30	30	20	150	22
	Advance Mining Methods	3	0	0	3	70	30	0	0	100	22
	Mining & Processing of Dimensional Stone	3	0	2	5	70	30	30	20	150	22
	Mine Safety Engineering	3	0	0	3	70	30	0	0	100	22
	Project-II	0	0	12	12	0	0	100	50	150	22
	Departmental Elective - III	2	0	2	4	70	30	30	20	150	22
	Total	14	0	16	30						

Departmental Elective I:

Ecology Geology-I

Minine Electrical Engineering

Departmental Elective II:

Rock Slope Engineering

Rock Engineering

Rock Fragmentation

Departmental Elective III:

Underground Space Technology

Geological Exploration Mineral Deposits

**Note: ALA Component, OEP Component and Design Module I, II and III (to be offered in 2nd Year , 3rd year and 4th year respectively)
shall be displayed in the final teaching scheme**