

**Course Curriculum of 2-Year M. Tech. Degree Programme**

**in**

**Mining Engineering**

**(Specialization in Mine Environment)**

**(Batch- 2018-20)**

**Credit Structure**

<b>M. Tech. Core</b>		<b>M. Tech. Elective</b>	
<b>Category</b>	<b>Credits</b>	<b>Category</b>	<b>Credits</b>
Departmental Core Subjects	45	Departmental Electives	12
Basic Sciences Subjects	03		
Total	48	Total	12
Grand Total			60

**Distribution of Total Credits & Contact Hours in all Semesters**

<b>S. No.</b>	<b>Semester Number</b>	<b>Credits/Semester</b>	<b>Contact Hours/Week</b>
1	I	16	17
2	II	17	19
3	III	15	20
4	IV	12	18
Total		60	--

**Course Structure: M. Tech. 2018-20****Semester - I**

S. No.	Code	Course	L	T	P	Credit(s)
1	MN-551	Mine Project Management	3	0	0	3
2	MN-552	Rock Mechanics	3	0	1	4
3	MN-553	Mine Safety Engineering	3	0	0	3
4	CE-582	Air & Noise Pollution	3	0	0	3
5	MA-555	Advanced Engineering Mathematics	3	0	0	3
Total Credits						16
Total Contact hours/week						17

**Semester - II**

S. No.	Code	Course	L	T	P	Credit(s)
1	MN-554	Surface Mine Planning	3	0	1	4
2	MN-555	Dimensional Stone Mining	3	0	1	4
3	MN-556	Mine Environment & Ecology	3	0	0	3
4	MN-5XX	Departmental Elective - I	3	0	0	3
5	MN-5XX	Departmental Elective – II	3	0	0	3
Total Credits						17
Total Contact hours/week						19

### Semester - III

S. No.	Code	Course	L	T	P	Credit(s)
1	MN-558	Mine Environmental Planning	4	0	0	4
2	MN-5XX	Departmental Elective - III	3	0	0	3
3	MN-5XX	Departmental Elective - IV	3	0	0	3
4	MN-580A	Dissertation - I	0	0	5	5
Total Credits						15
Total Contact hours/week						20

### Semester - IV

S. No.	Code	Course	L	T	P	Credit(s)
1	MN-580B	Dissertation - II	0	0	9	9
2	MN-580C	Dissertation Viva Voce	-	-	-	3
Total Credits						12
Total Contact hours/week						18

### List of Departmental Elective(s) - I

S. No.	Code	Course	L	T	P	Credit(s)
1	MN-561	Eco Friendly Mining	3	0	0	3
2	MN-562	Methods of Extraction	3	0	0	3

### List of Departmental Elective(s) - II

S. No.	Code	Course	L	T	P	Credit(s)
1	MN-571	Waste Management in Mines	3	0	0	3
2	MN-572	Environmental Laws & Impact Assessment	3	0	0	3

### List of Departmental Elective(s) - III

S. No.	Code	Course	L	T	P	Credit(s)
1	MN-565	Mine Ventilation	3	0	0	3
2	MN-566	Hydrogeology	3	0	0	3

### List of Departmental Elective(s) - IV

S. No.	Code	Course	L	T	P	Credit(s)
1	MN-573	Safety & Risk Management in Mines	3	0	0	3
2	MN-574	Environmental Hazards & Disaster Management in Mines	3	0	0	3