

**Sir Padampat Singhania University  
Udaipur**

**Department of Mining Engineering**

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

in

Mining Engineering

(Specialization in Mine Planning)

(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	21
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
<b>Total Credits</b>						<b>16</b>
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
<b>Total Credits</b>						<b>17</b>
Total Contact hours/week						19

### Semester-III

S. No.	Code	Course	L	T	P	Credit(s)
1	MN-557	Underground Mine Planning	3	0	1	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						21

### 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-563	Strata Control & Subsidence Engineering	3	0	0	3
2	MN-564	Mineral Exploration Engineering	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-567	Rock Excavation Engineering	3	0	0	3
2	MN-568	Mine Economics & Business	3	0	0	3