



**KAKATIYA UNIVERSITY**  
**DEPARTMENT OF MINING ENGINEERING**  
**M.TECH (MINE PLANNING) PTPG**

**SEMESTER – I**

SI. NO	Subject	L	T	P	Credits
1	Geo mechanics	3	1	0	4
2	Underground Mine Planning and Design of Coal and Metal Mines	3	1	0	4
3	Elective I	3	0	0	3
4	Geo mechanics Lab	0	0	3	2
<b>TOTAL CREDITS</b>					<b>13</b>

- Elective I:
- a. Environmental Control in Mines
  - b. Geo-statistics
  - c. Mine Economics and Investment

**SEMESTER – II**

SI. NO	Subject	L	T	P	Credits
1	Surface Mine Planning	3	1	0	4
2	Mine Environmental Planning	3	1	0	4
3	Elective II	3	0	0	3
4	Mine Environmental Planning Lab	0	0	3	2
<b>TOTAL CREDITS</b>					<b>13</b>

- Elective II:
- a. Rock Excavation Engineering
  - b. Subsidence Engineering
  - c. Mine Safety Management

**SEMESTER – III**

SI. NO	Subject	L	T	P	Credits
1	Numerical Modelling in Mining	3	1	0	4
2	Advanced Mineral Processing	3	0	0	4
3	Elective III	3	0	0	3
3	Numerical Modelling in Mining Lab	0	0	3	2
4	Seminar I	0	0	3	2
5	Mine Visit/Industrial Visit	-	-	-	-
<b>TOTAL CREDITS</b>					<b>15</b>

- Elective III:
- a. Longwall Mining
  - b. Design of Underground Structures in Rock
  - c. Remote Sensing and Geographical Information System

**SEMESTER – IV**

SI. NO	Subject	L	T	P	Credits
1	Blasting Technology in Rock Excavation	3	1	0	4
2	Advanced Survey Techniques	3	1	0	4
2	Elective IV	3	0	0	3
3	Mine Planning Lab	0	0	3	2
4	Seminar II	0	0	3	2
5	Mine Visit/Industrial Visit	-	-	-	-
<b>TOTAL CREDITS</b>					<b>15</b>



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- Elective IV:
- a. Managerial Decision Making
  - b. Material handling
  - c. Planning of Underground Mechanization

**SEMESTER – V**

Sl. NO	Subject	L	T	P	Credits
1	Comprehensive Viva Voce	-	-	-	4
2	Project Phase I	4 clock hours per week (Interaction with Supervisor)			16
<b>TOTAL CREDITS</b>					<b>20</b>

**SEMESTER – VI**

Sl. NO	Subject	L	T	P	Credits
1	Project Phase II & Dissertation	6 clock hours per week (Interaction with Supervisor)			20
<b>TOTAL CREDITS</b>					<b>20</b>