

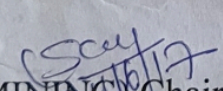
COURSE STRUCTURE (GR17)
B. Tech. Mining Engineering

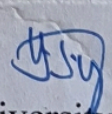
I Year

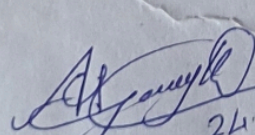
I Semester

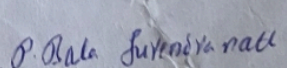
S. No.	Subject Title	Subject Codes	Periods per week			C	Scheme of Examination Maximum Marks		
			L	T	P/D		Int.	Ext.	Total
1	English – I	17198101	3	1	-	3	40	60	100
2	Mathematics - I	17198102	3	1	-	3	40	60	100
3	Computer Programming	17195103	3	1	-	3	40	60	100
4	Engineering Physics	17198104	3	1	-	3	40	60	100
5	Environmental Studies	17198105	3	1	-	3	40	60	100
6	Engineering Drawing	17193176	1	-	3	3	40	60	100
7	English Communication Skills Lab. - I	17198111	-	-	3	2	50	50	100
8	Engineering Physics Lab.	17198112	-	-	3	2	50	50	100
9	Computer Programming Lab.	17195113	-	-	3	2	50	50	100
Total			16	5	12	24	390	510	900

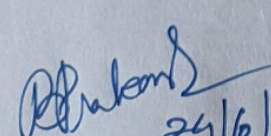
L – Lecture T- Tutorial P – Practical C– Credits Int. – Internal Ext. - External

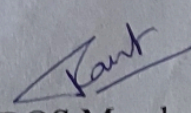

BOS (MINING) Chairman
(Dr.K Srihari)


University Nominee
(Prof.B. Suryannarayana Sastry)


Subject Expert
(Dr.S.Jayanthu)


Industrial Representative
(Shri Bala Surendra nath P)


BOS Member
(Shri . B. B. Prakash)


BOS Member
(Shri Ramesh Kant)

COURSE STRUCTURE (GR17)
B. Tech. Mining Engineering

I Year

II Semester

S. No.	Subject Title	Subject Codes	Periods per week			C	Scheme of Examination Maximum Marks		
			L	T	P		Int.	Ext.	Total
1.	English – II	17198201	3	1		3	40	60	100
2.	Mathematics – II	17198202	3	1		3	40	60	100
3.	Mathematics – III	17198203	3	1		3	40	60	100
4.	Engineering Chemistry	17198204	3	1		3	40	60	100
5.	Engineering Mechanics	17193205	3	1		3	40	60	100
6.	Professional Ethics and Human Values	17198206	2	1		1	40	60	100
7.	English Communication Skill Lab. - II	17198211	-	-	3	2	50	50	100
8.	Engineering Chemistry Lab.	17198212	-	-	3	2	50	50	100
9.	Engineering Workshop & IT Workshop	17198283	-	-	3	2	50	50	100
Total			17	6	9	22	390	510	900

L – Lecture T- Tutorial P – Practical C– Credits Int. – Internal Ext. – External

19/06/17
BOS (MINING) Chairman
(Dr.K Srihari)

45/17
University Nominee
(Prof.B. Suryannarayana Sastry)

24.6.17.
Subject Expert
(Dr.S.Jayanthu)

P. Bala Surendra nath
Industrial Representative
(Shri Bala Surendra nath P)

24/6/17
BOS Member
(Shri . B. B. Prakash)

Kant
BOS Member
(Shri Ramesh Kant)

COURSE STRUCTURE (GR17)
B. Tech. Mining Engineering

II Year

I Semester

S. No.	Subject Title	Subject Codes	Periods per week			C	Scheme of Examination Maximum Marks		
			L	T	P/D		Int.	Ext.	Total
1.	Fluid Mechanics & Hydraulic Machinery ✓	17160301	3	1		3	40	60	100
2.	Mine Surveying ✓ ✓	17160302	3	1		3	40	60	100
3.	Introductory Geology ✓	17160303	3	1		3	40	60	100
4.	Dev. Of Mineral Deposits ✓	17160304	3	1		3	40	60	100
5.	Drilling & Blasting ✓	17160305	3	1		3	40	60	100
6.	CAD for Mining ✓ ✓	17160376	1	-	3	3	40	60	100
7.	Soft Skills - I ✓	17169307	1	2	-	1	40	60	100
8.	Fluid Mechanics & Hydraulic Machinery Lab. ✓	17160311	-	-	3	2	50	50	100
9.	Mine Surveying Lab. ✓	17160312	-	-	3	2	50	50	100
Total			17	7	9	23	380	520	900

L – Lecture T- Tutorial P – Practical C– Credits Int. – Internal Ext. - External

Sury
BOS (MINING) Chairman
(Dr.K Srihari)

Sury
University Nominee
(Prof.B. Suryannarayana Sastry)

S. Jayanthu
Subject Expert
(Dr.S.Jayanthu)

P. Bala Surendra nath
Industrial Representative
(Shri Bala Surendra nath P)

B. B. Prakash
BOS Member
(Shri . B. B. Prakash)

Ramesh Kant
BOS Member
(Shri Ramesh Kant)

COURSE STRUCTURE (GR17)
B. Tech. Mining Engineering

II Year

II Semester

S. No.	Subject Title	Subject Codes	Periods per week			C	Scheme of Examination Maximum Marks		
			L	T	P		Int.	Ext.	Total
1.	Basic Mechanical Engineering for Mining	17163401	3	1	-	3	40	60	100
2.	Basic Electrical & Electronics Engineering	17162402	3	1	-	3	40	60	100
3.	Advanced Mine Surveying	17160403	3	1	-	3	40	60	100
4.	Surface Mining	17160404	3	1	-	3	40	60	100
5.	Underground Coal Mining	17160405	3	1	-	3	40	60	100
6.	Engineering Geology	17160406	3	1	-	3	40	60	100
7.	Basic Electrical & Electronics Engineering Lab.	17162411	-	-	3	2	50	50	100
8.	Mining Geology Lab.	17160412	-	-	3	2	50	50	100
Total			18	6	6	22	340	460	800

L – Lecture T- Tutorial P – Practical C– Credits Int. – Internal Ext. - External

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Industrial Representative
(Shri Bala Surendra nath P)

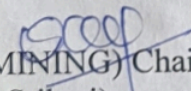
BOS Member
(Shri . B. B. Prakash)

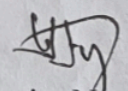
BOS Member
(Shri Ramesh Kant)

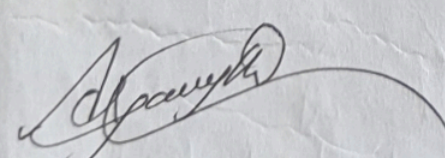
COURSE STRUCTURE (GR17)**B. Tech. Mining Engineering****III Year****I Semester**

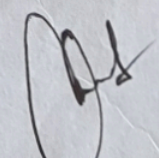
S. No.	Subject Title	Subject Codes	Periods per week			C	Scheme of Examination Maximum Marks		
			L	T	P/D		Int.	Ext.	Total
1	Mine Systems Engineering ✓	17169501	2	1	0	3	40	60	100
2	Industrial Engineering Management	17169502	2	1	0	3	40	60	100
3	Underground Metal Mining ✓	17160503	2	1	0	3	40	60	100
4	Mine Ventilation ✓	17160504	2	1	0	3	40	60	100
5	Mine planning and design	17160505	2	1	0	3	40	60	100
6	RS & GIS applications	17160506	2	1	0	3	40	60	100
7	Soft Skills - II ✓	17169507	1	0	0	1	40	60	100
8	Mine Ventilation Lab.	17160511	0	1	2	2	50	50	100
9	Mine planning and design Lab.	17160512	0	1	2	2	50	50	100
10	Technical Seminar	17160521	0	1	2	2	100	-	100
Total			13	9	6	25	480	520	1000

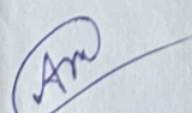
L – Lecture T- Tutorial P – Practical C– Credits Int. – Internal Ext. - External

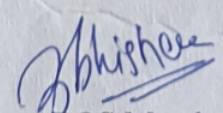

BOS (MINING) Chairman
(Dr. K. Srihari)

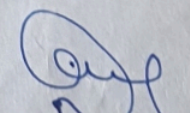

University Nominee
(Dr. B. Suryannarayana Sastry)


Subject Expert
(Dr. S. Jayanthu)


Industrial Expert
(Shri. J. Charan Sainath)


BOS Member
(Shri. A. Sandeep Kumar)


BOS Member
(Dr. A.K. Tripathi)


BOS Member
(Shri. P. Taviti Naidu)

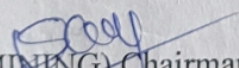
COURSE STRUCTURE (GR17)**B. Tech. Mining Engineering****III Year****II Semester**

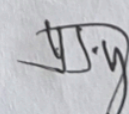
S. No.	Subject Title	Subject Codes	Periods per week			C	Scheme of Examination Maximum Marks		
			L	T	P/D		Int.	Ext.	Total
1	Rock Mechanics	17160601	2	1	0	3	40	60	100
2	Mineral Processing	17160602	2	1	0	3	40	60	100
3	Mine Strata Control	17160603	2	1	0	3	40	60	100
4	Mining Machinery	17160604	2	1	0	3	40	60	100
5	Mine Construction Engineering	17160605	2	1	0	3	40	60	100
6	Open Elective	17160666	2	1	0	3	40	60	100
7	Rock Mechanics Lab	17160611	0	1	2	2	50	50	100
8	Mineral Processing Laboratory	17160612	0	1	2	2	50	50	100
Total			12	8	4	22	340	460	800

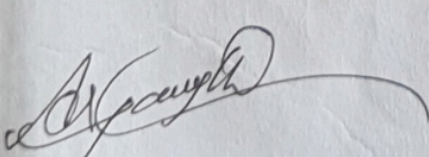
L – Lecture T- Tutorial P – Practical C– Credits Int. – Internal Ext. - External

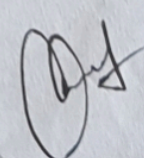
Open Electives:

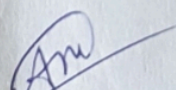
- a) Total Station & GPS Surveying (17160666 a)
- b) Industrial Hydraulics and Pneumatics (17160666 b)
- c) Social Network Analysis (17160666 c)
- d) Internet of Things (17160666 d)
- e) Renewable energy resources (17160666 e) ✓
- f) Hybrid Vehicles (17160666 f)
- g) Principles of Management (17160666 g)

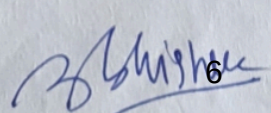

 BOS (MINING) Chairman
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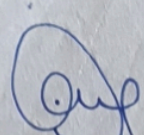

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 Industrial Expert
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 BOS Member
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 BOS Member
 (Dr. A.K. Tripathi)


 BOS Member
 (Shri. P. Taviti Naidu)

COURSE STRUCTURE (GR17)

B.Tech. Mining Engineering

IV Year

I Semester

S. No.	Subject Title	Subject Codes	Periods per week			C	Scheme of Examination Maximum Marks		
			L	T	P/D		Int.	Ext.	Total
1	Mine Legislation	17160701	3	0	0	3	40	60	100
2	Mine hazards & Rescue	17160702	2	1	0	3	40	60	100
3	Advanced Mining Machinery	17160703	2	1	0	3	40	60	100
4	Mineral Economics	17160704	2	1	0	3	40	60	100
5	IPR & Patents	17169705	1	0	0	1	40	60	100
6	Elective- I	17160761	2	1	0	3	40	60	100
7	Elective- II	17160762	2	1	0	3	40	60	100
8	Mining Machinery Laboratory	17160711	0	1	2	2	50	50	100
9	Mine hazards & Rescue Laboratory	17160712	0	1	2	2	50	50	100
10	Minor Project	17160721	0	0	2	1	100	-	100
Total			13	8	6	24	480	520	1000

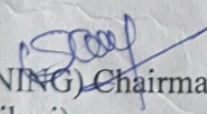
L – Lecture T- Tutorial P – Practical C– Credits Int. – Internal Ext. - External

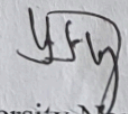
Elective – I

- a) Environmental Impact Assessment in Mines (17160761 a)
- b) Disaster Management (17160761 b)
- c) Rock Slope Engineering (17160761 c)
- d) Mine safety and health engineering (17160761 d)

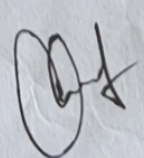
Elective – II

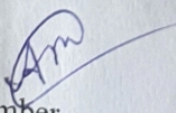
- a) Geo Statistics (17160762 a)
- b) Rock Fragmentation Engineering (17160762 b)
- c) Deep Sea Mining (17160762 c)
- d) Tunneling Engineering (17160762 d)

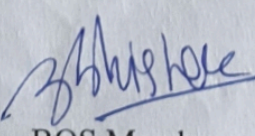

BOS (MINING) Chairman
(Dr. K. Srihari)

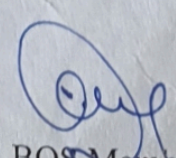

University Nominee
(Dr. B. Suryannarayana Sastry)


Subject Expert
(Dr. S. Jayanthu)


Industrial Expert
(Shri. J. Charan Sainath)


BOS Member
(Shri. A. Sandeep Kumar)


BOS Member
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BOS Member
(Shri. P. Taviti Naidu)

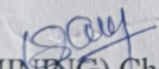
COURSE STRUCTURE (GR17)**B. Tech. Mining Engineering****IV Year****II Semester**

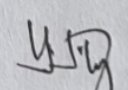
S. No.	Subject Title	Subject Codes	Periods per week			C	Scheme of Examination Maximum Marks		
			L	T	P/D		Int.	Ext.	Total
1	Environmental Pollution & Control in Mines	17160801	2	1	0	3	40	60	100
2	Computer Applications in Mining	17160802	3	0	0	3	40	60	100
3	Elective- III	17160861	2	1	0	3	40	60	100
4	Project	17160841	0	3	12	9	100	100	200
Total			7	5	12	18	220	280	500

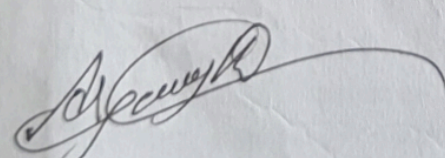
L – Lecture T- Tutorial P – Practical C– Credits Int. – Internal Ext. - External

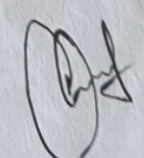
Elective – III

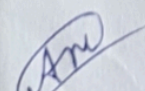
- Planning of Surface Mines (17160861 a)
- Planning of Underground Coal Mines (17160861 b)
- Planning of Underground Metal Mines (17160861 c)
- Tailing and Overburden dump Management (17160861 d)

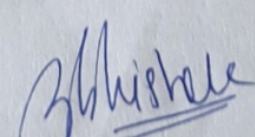

 BOS (MINING) Chairman
 (Dr. K. Srihari)

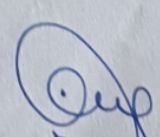

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