

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

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

(Signature)
University Nominee
(Prof.B. Suryannarayana Sastry)

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

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

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

(Signature)
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

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

45/17
University Nominee
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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

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Scy
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COURSE STRUCTURE (GR17)
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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

Seetha
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Dr. S. Jayanthu
Subject Expert
(Dr.S.Jayanthu)
24/6/17

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


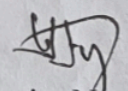
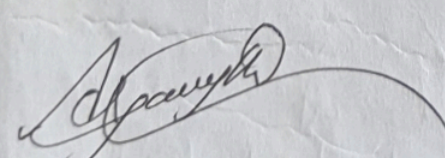
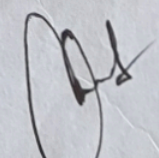
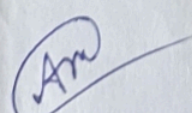
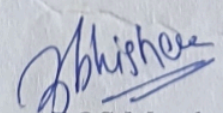
Prakash
BOS Member
(Shri . B. B. Prakash)
24/6/17

Ramesh Kant
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


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BOS Member
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COURSE STRUCTURE (GR17)

B. Tech. Mining Engineering

III Year

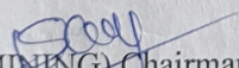
II Semester

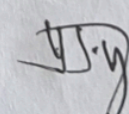
S. No.	Subject Title	Subject Codes	Periods per week			C	Scheme of Examination Maximum Marks		
			L	T	P/D		Int.	Ext.	Total
1	Rock Mechanics	17160601	2	1	0	3	40	60	100
2	Mineral Processing	17160602	2	1	0	3	40	60	100
3	Mine Strata Control	17160603	2	1	0	3	40	60	100
4	Mining Machinery	17160604	2	1	0	3	40	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

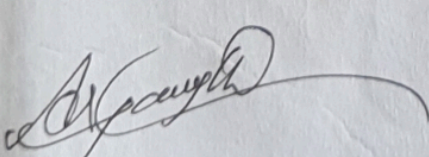
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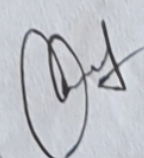
Open Electives:

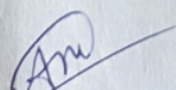
- Total Station & GPS Surveying (17160666 a)
- Industrial Hydraulics and Pneumatics (17160666 b)
- Social Network Analysis (17160666 c)
- Internet of Things (17160666 d)
- Renewable energy resources (17160666 e) ✓
- Hybrid Vehicles (17160666 f)
- Principles of Management (17160666 g)

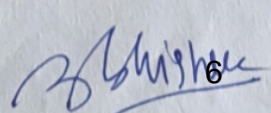

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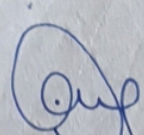

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BOS Member
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COURSE STRUCTURE (GR17)

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

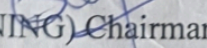
L – Lecture T- Tutorial P – Practical C– Credits Int. – Internal Ext. - External

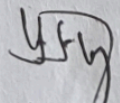
Elective – I


- 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)

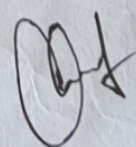
Elective – II

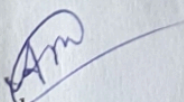
- a) Geo Statistics (17160762 a)
- b) Rock Fragmentation Engineering (17160762 b)
- c) Deep Sea Mining (17160762 c)
- d) Tunneling Engineering (17160762 d)

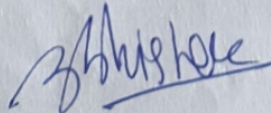

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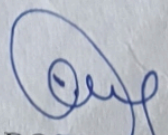

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IV Year

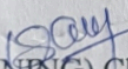
II Semester

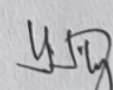
S. No.	Subject Title	Subject Codes	Periods per week			C	Scheme of Examination Maximum Marks		
			L	T	P/D		Int.	Ext.	Total
1	Environmental Pollution & Control in Mines	17160801	2	1	0	3	40	60	100
2	Computer Applications in Mining	17160802	3	0	0	3	40	60	100
3	Elective- III	17160861	2	1	0	3	40	60	100
4	Project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

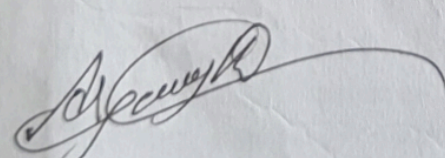
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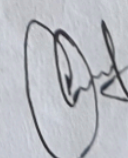
Elective – III

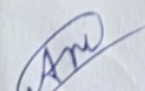
- a) Planning of Surface Mines (17160861 a)
- b) Planning of Underground Coal Mines (17160861 b)
- c) Planning of Underground Metal Mines (17160861 c)
- d) Tailing and Overburden dump Management (17160861 d)

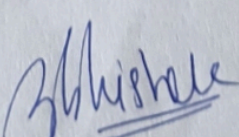

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