

**Course Structure for I B.Tech ( CE, ME, Automobile Engg, Mining Engg)**

2014-15

**total credits at the end of I Year = 24+21 = 45**

<b>CE, ME, AUTOMOBILE, MINING</b>			
<b>SEMESTER 1</b>	<b>Credits/ Periods</b>	<b>SEMESTER 2</b>	<b>Credits/ Periods</b>
English -1	3 /3+1	English -2	3 /3+1
Mathematics -1	3 /3+1	Mathematics -3	3 /3+1
<b>Mathematics -2</b> (Mathematical Methods)	3 /3+1	<b>Engineering chemistry</b>	3 /3+1
<b>Engineering Physics</b>	3 /3+1	<b>Engineering Mechanics</b>	3 /3+1
Computer programming	3 /3+1	Engineering Drawing	3 /3+1
Environmental Studies	3 /3+1	<b>Professional Ethics &amp; Human Values*</b>	0 /3+1
English communication lab-1	2 / 3	English communication lab-2	2 / 3
<b>Engineering Physics lab</b> (Engineering Physics Virtual lab assignments )	2 / 3	<b>Engineering Chemistry lab</b>	2 / 3
C- programming lab	2 / 3	Engg work shop & IT work shop	2 / 3
<b>Total credit =</b>	<b>24</b>	<b>Total credits</b>	<b>21</b>
<b>Total credit =24</b>		<b>Total Credit = 21</b>	

**Prof Ethics and Human values is an Audit course/add on course with internal assessment only, pass at 40 % compulsory, No credit/Marks> result shown as unsatisfactory/ Not satisfactory**

**Engineering mechanics & Engineering drawing syllabus can be modified to meet the needs of non circuit branches.**

**Theory & 3 Practicals (24 periods + 9 Periods = 33 periods, Total 36 periods per week. Of the remaining 3 periods 1 period may be allotted for Seminar, 2 periods (last) may be allotted to remedial coaching for slow learners.**

*[Signature]*

*[Signature]*

*[Signature]*

*[Signature]*

*[Signature]*

*[Signature]*

## II Year – I Semester

S. No.	Course Title	Periods per week			C	Scheme of Examination Max. Marks		
		T	P	D		Int.	Ext.	Total
0.	T.D. and F. M. 14163301	4	-		3	30	70	100
1.	Mine Surveying – I 14160302	4	-		3	30	70	100
2.	Mining Geology – I 14160303	4	-		3	30	70	100
3.	Dev. Of Mineral Deposits 14160304	4	-		3	30	70	100
4.	Drilling and Blasting 14160305	4	-		3	30	70	100
5.	Machine Drawing 14167331	1	-	3	3	30	70	100
6.	Mine Surveying Lab - I 14160311	-	3		2	50	50	100
17.	Advanced English Communication Skills Lab 14169312	-	3		2	50	50	100
Total		21	6	3	22	280	520	800

T- THEORY    P – PRACTICAL    D- DRAWING    C - CREDITS

*[Handwritten signature]*

*[Handwritten signature]*

*[Handwritten signature]*

*[Handwritten signature]*

*[Handwritten signature]*

*[Handwritten signature]*

*[Handwritten signature]*

**II Year – II Semester**

Course Title	Periods per week			C	Scheme of Examination Max. Marks		
	T	P	D		Int.	Ext.	Total
Material Engineering <i>14163401</i>	4	-	-	3	30	70	100
Basic Electrical Engineering <i>14163402</i>	4	-	-	3	30	70	100
Kinematics of Machinery <i>14163403</i>	4	-	-	3	30	70	100
Mine Surveying - 2 II <i>14160404</i>	4	-	-	3	30	70	100
Surface Mining <i>14160405</i>	4	-	-	3	30	70	100
CAD Practice <i>14163406</i>	1	3	-	3	30	70	100
Mine Surveying Lab - 2 II <i>14160411</i>	-	3		2	50	50	100
Basic Electrical Engg. Lab <i>14162412</i>	-	3		2	50	50	100
Mine Field visit <i>14160481</i>	-	-		-	-	-	-
Soft Skills-1 <i>14169497</i>	-	3		-	-	-	-
<b>Total</b>	<b>21</b>	<b>12</b>		<b>22</b>	<b>280</b>	<b>520</b>	<b>800</b>

T- THEORY    P – PRACTICAL    D- DRAWING    C - CREDITS

*Handwritten signatures and initials:*  
 [Signature]    *chiranjit*    *Pranav*    *ASB*  
*Sarwati*  
 [Signature]    *Blanca*

# ANNEXURE - I

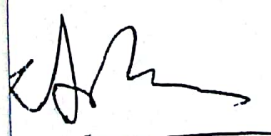


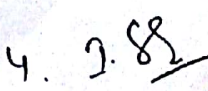
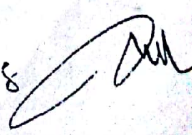



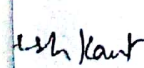

(2016-17) GODAVARI INSTITUTE OF ENGINEERING & TECHNOLOGY

**B. Tech. Mining Engineering (Autonomous)**

Course Structure - III<sup>rd</sup> Year- I<sup>st</sup> Semester

Sl No.	Course Title	Periods per week			C	Scheme of Examination (Max. Marks)		
		T	P	D		Int.	Ext.	Total
1.	Mining Geology – II	4	-	-	3	30	70	100
2.	Mine System Engineering	4	-	-	3	30	70	100
3.	Underground Coal Mining	4	-	-	3	30	70	100
4.	Mining Machinery - I	4	-	-	3	30	70	100
5.	Mine Environmental Engineering-I	4	-	-	3	30	70	100
6.	Industrial Engineering & Management	4	-	-	3	30	70	100
7.	Mining Geology Laboratory	-	3		2	50	50	100
8.	Mine Environmental Engineering Laboratory	-	3		2	50	50	100
9.	IPR and Patents	-	3		-	-	-	-
10.	<b>Mini Project</b>	-	-		2	50 100		50 100
<b>Total</b>		<b>24</b>	<b>9</b>		<b>24</b>	<del>280</del> 380	<del>570</del> 590	<del>850</del> 900

T- THEORY    P – PRACTICAL    D- DRAWING    C- CREDITS

1.    
 2.    
 3.    
 4.    
 5.    
 6.    
 7.    
 8.    
 9.    
 10. 

(2016-17)GODAVARI INSTITUTE OF ENGINEERING & TECHNOLOGY

**B. Tech. Mining Engineering (Autonomous)**

Course Structure - III<sup>rd</sup> Year- II<sup>nd</sup> Semester

SL No.	Course Title	Periods per week			C	Scheme of Examination (Max. Marks)		
		T	P	D		Int.	Ext.	Total
1.2	Rock Mechanics	4	-	-	3	30	70	100
2.3	Mine Environmental Engineering- II	4	-	-	3	30	70	100
3.4	Underground Metal Mining	4	-	-	3	30	70	100
4.5	Mining Machinery – II	4	-	-	3	30	70	100
5.6	Mine Planning and Design	4	-	-	3	30	70	100
6.1	Managerial Economics & Financial Analysis	4	-	-	3	30	70	100
7.	Rock Mechanics Lab	-	3	-	2	50	50	100
8.	Mine Planning and Design Lab	-	3	-	2	50	50	100
9.	<b>Industrial Training</b>	-	-	-	2	-	-	-
10.	Soft Skills-II	-	3	-	-	-	-	-
Total		24	9	-	22	280	520	800

T- THEORY    P – PRACTICAL    D- DRAWING    C - CREDITS

15

2.85

B. Tech. Mining Engineering (Autonomous)

Course Structure – IV<sup>th</sup> Year- I<sup>st</sup> Semester

S. No.	Course Title	Periods per week			C	Scheme of Examination		
		T	P	D		Int.	Ext.	Total
1.	Mineral Economics	4	-	-	3	30	70	100
2.	Computer Applications in Mining	4	-	-	3	30	70	100
3.	Mineral Processing	4	-	-	3	30	70	100
4.	Mine Legislation	4	-	-	3	30	70	100
5.	Mine Ground Control	4	-	-	3	30	70	100
6.	Department Elective - 1	4	-	-	3	30	70	100
7.	Computer Applications in mining laboratory	-	3		2	50	50	100
8.	Mineral Processing Lab	-	3		2	50	50	100
9.	Survey camp	-	-		2	100	-	100
Total		24	6		24	380	520	800 900

T- THEORY P – PRACTICAL D- DRAWING C - CREDITS

Department Elective 1:

- 1) Environment Management in mines
- 2) Rock slope Engineering
- 3) Rock Fragmentation Engineering

Handwritten signatures and initials are present at the bottom of the page, including names like 'S. S.', 'K. S.', and 'A. S.'.

**B. Tech. Mining Engineering (Autonomous)**

**Course Structure – IV<sup>th</sup> Year- II<sup>nd</sup> Semester**

S. No.	Course Title	Periods per week			C	Scheme of Examination		
		T	P	D		Max. Marks		
					Int.	Ext.	Total	
1.	Production Planning and Control	4	-	-	3	30	70	100
2.	Department Elective-2	4	-	-	3	30	70	100
3.	Department Elective - 3	4	-	-	3	30	70	100
4.	Open Elective	4	-	-	3	30	70	100
5.	<b>Project Work</b>	-	-	-	9	-	-	200
<b>Total</b>		<b>16</b>	<b>-</b>	<b>-</b>	<b>21</b>			<b>600</b>

T- THEORY    P – PRACTICAL    D- DRAWING    C - CREDITS

Department Elective 2:

- 1) Mine Subsidence Engineering
- 2) Mine Construction
- 3) Tunneling Engineering

Department Elective 3:

- 1) Planning of Underground Metal Mining Project
- 2) Planning of Underground Coal Mining Project
- 3) Planning of Surface Mining Project

Open Electives:

- 1) Industrial Robotics
- 2) Environmental Impact Assessment
- 3) Deep-sea mining
- 4) Numerical methods

*[Handwritten signatures and initials]*