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

2014-15

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

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

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

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

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

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
13.	Dev. Of Mineral Deposits 14160304	4	-		3	30	70	100
14.	**Drilling and Blasting** 14160305	4	-		3	30	70	100
15.	Machine Drawing 14167331	1	-	3	3	30	70	100
16.	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

II Year – II Semester

	Course Title	Periods per week			C	Scheme of Examination Max. Marks		
		T	P	D		Int.	Ext.	Total
	Material Engineering 14163401	4	-	-	3	30	70	100
	Basic Electrical & Electronics Engineering 14162402	4	-	-	3	30	70	100
	Kinematics of Machinery 14163403	4	-	-	3	30	70	100
	Mine Surveying - II 14160404	4	-	-	3	30	70	100
	Surface Mining 14160405	4	-	-	3	30	70	100
	CAD Practice 14163406	1	3	-	3	30	70	100
	Mine Surveying Lab - II 14160411	-	3		2	50	50	100
	Basic Electrical & Electronics Engg. Lab 14162412	-	3		2	50	50	100
	Mine Field visit 14160481	-	-		-	-	-	-
0.	Soft Skills-1 14169497	-	3		-	-	-	
	Total	21	12		22	280	520	800

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

ANNEXURE - I

(2016-17)GODAVARI INSTITUTE OF ENGINEERING & TECHNOLOGY

B. Tech. Mining Engineering (Autonomous)

Course Structure - III[rd] Year- I[st] 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.	Mini Project	-	-		2	~~50~~ 100		~~50~~ 100
Total		24	9		24	~~280~~ 380	~~570~~ 520	~~850~~ 900

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

(2016-17)GODAVARI INSTITUTE OF ENGINEERING & TECHNOLOGY

B. Tech. Mining Engineering (Autonomous)

Course Structure - III[rd] Year- II[nd] 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.	Industrial Training	-	-		2	-	-	-
10.	Soft Skills-II	-	3		-	-	-	-
	Total	24	9		22	280	520	800

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

(2017-18)GODAVARI INSTITUTE OF ENGINEERING & TECHNOLOGY

B. Tech. Mining Engineering (Autonomous)

Course Structure – IVth Year- Ist Semester

S. No.	Course Title	Periods per week			C	Scheme of Examination Max. Marks		
		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	280	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

(2017-18) GODAVARI INSTITUTE OF ENGINEERING & TECHNOLOGY

B. Tech. Mining Engineering (Autonomous)

Course Structure – IVth Year- IInd Semester

S. No.	Course Title	Periods per week			C	Scheme of Examination Max. Marks		
		T	P	D		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.	Project Work	-	-	-	9	-	-	200
Total		16	-	-	21			600

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