



# GODAVARI INSTITUTE OF ENGINEERING & TECHNOLOGY

GRBT-19

(AUTONOMOUS)  
Approved by AICTE, Accredited by NBA & NAAC 'A+' Grade, Recognized under 2(f) and 12(b) of UGC, Permanently Affiliated to JNTUK,  
Kakinada.

## DEPARTMENT OF CIVIL ENGINEERING

4 Years B.Tech. (Civil Engineering) Course Structure : GRBT-19

### I YEAR I SEMESTER

S. No.	Course Code	Course Type	Course Title	Periods per week			C	Scheme of Examination Maximum Marks		
				L	T	P		Int.	Ext.	Total
1	BSC	Mathematics-I		3	0	0	3	30	70	100
2	HSMC	Communicative English I		3	0	0	3	30	70	100
3	BSC	Engineering Chemistry		3	0	0	3	30	70	100
4	ESC	Basic Electrical & Electronics Engineering		3	0	0	3	30	70	100
5	ESC	Engineering Graphics		1	0	3	2.5	30	70	100
6	MC	Professional Ethics & Human Values		2	0	0	0	30*	-	-
7	HSMC	Communicative English Laboratory-I		0	0	3	1.5	50	50	100
8	BSC	Engineering Chemistry Laboratory		0	0	3	1.5	50	50	100
9	ESC	Basic Electrical & Electronics Engineering Lab		0	0	3	1.5	50	50	100
<b>TOTAL</b>				<b>15</b>	<b>0</b>	<b>12</b>	<b>19</b>	<b>300</b>	<b>500</b>	<b>800</b>
<b>BSC = 7.5</b>	<b>ESC=7</b>	<b>HSMC=4.5</b>		<b>MC=0</b>						

University Nominee  
(Dr. G.V.R. Prasada Raju)

Subject Expert  
(Dr. D. Rama Seshu)

Industry Expert  
(Sri.S.V.Vijaykumar)

Industry Expert  
(Sri.B.P. Ranga Rao)

Internal Member  
(Sri. S.N.Rao)

Internal Member  
(Mr. K.Gopal Sankar)

Chairman-BOS  
(Dr.D.Venkateswarlu)



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## DEPARTMENT OF CIVIL ENGINEERING

4 Years B.Tech. (Civil Engineering) Course Structure : GRBT-19

### I YEAR II SEMESTER

S. No.	Course Code	Course Type	Course Title	Periods per week			C	Scheme of Examination Maximum Marks		
				L	T	P		Int.	Ext.	Total
1		BSC	Mathematics-II	3	0	0	3	30	70	100
2		HSMC	Communicative English-II	3	0	0	3	30	70	100
3		ESC	Engineering Mechanics	2	1	0	3	30	70	100
4		ESC	Problem Solving & Programming in C	2	1	0	3	30	70	100
5		BSC	Engineering Physics and its Applications	3	0	0	3	30	70	100
6		MC	Environmental Studies	2	0	0	0	30*	-	-
7		HSMC	Communicative English Laboratory -II	0	0	3	1.5	50	50	100
8		ESC	Basic Engineering Workshop	0	0	3	1.5	50	50	100
9		BSC	Engineering Physics and its applications Laboratory	0	0	3	1.5	50	50	100
10		ESC	Problem Solving & Programming Laboratory in C	0	0	3	1.5	50	50	100
TOTAL				15	2	12	21	350	550	900
BSC=7.5	ESC=9	HSMC=4.5		MC=0						

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## DEPARTMENT OF CIVIL ENGINEERING

4 Years B.Tech. (Civil Engineering) Course Structure : GRBT-19

### II YEAR I SEMESTER

S. No.	Course Code	Course Type	Course Title	Periods per week			C	Scheme of Examination Maximum Marks		
				L	T	P		Int.	Ext.	Total
1		BSC	Mathematics-III	3	0	0	3	30	70	100
2		ESC	Strength of Materials	2	1	0	3	30	70	100
3		PCC	Environmental Engineering	2	0	0	2	30	70	100
4		PCC	Construction Materials, Equipment & Management	3	0	0	3	30	70	100
5		PCC	Surveying & Geomatics	3	0	0	3	30	70	100
6		ESC	Fluid Mechanics	3	0	0	3	30	70	100
7		MC	Constitution of India	2	0	0	0	30*	—	—
8		ESC	Building planning and Drawing Lab	0	0	3	1.5	50	50	100
9		PCC	Materials Testing Laboratory	0	0	3	1.5	50	50	100
10		PCC	Surveying Field Work	0	0	3	1.5	50	50	100
<b>TOTAL</b>				<b>18</b>	<b>1</b>	<b>9</b>	<b>21.5</b>	<b>330</b>	<b>570</b>	<b>900</b>
BSC = 3	ESC = 7.5	PCC = 11	MC=0							

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**DEPARTMENT OF CIVIL ENGINEERING**
**4 Years B.Tech. (Civil Engineering) Course Structure : GRBT-19**
**II YEAR II SEMESTER**

S. No.	Course Code	Course Type	Subject Title	Periods per week			C	Scheme of Examination Maximum Marks		
				L	T	P		Int.	Ext.	Total
1		BSC	Numerical Methods and Probability & Statistics	3	0	0	3	30	70	100
2		OEC	Open Elective -I	3	0	0	3	30	70	100
3		PCC	Mechanics of materials	3	0	0	3	30	70	100
4		PCC	Hydraulics and Hydraulic Machinery	3	0	0	3	30	70	100
5		PCC	Structural Analysis	3	0	0	3	30	70	100
6		PEC	Professional Elective - I	3	0	0	3	30	70	100
7		PCC	Fluid Mechanics & Hydraulic Machinery Laboratory	0	0	3	1.5	50	50	100
8		PCC	Environmental Engineering Laboratory	0	0	3	1.5	50	50	100
9		PR	Community Service Oriented Project	0	0	1	0.5	100	-	100
<b>TOTAL</b>				<b>18</b>	<b>0</b>	<b>7</b>	<b>21.5</b>	<b>380</b>	<b>520</b>	<b>900</b>
<b>BSC = 3</b>	<b>PCC = 12</b>	<b>OEC = 3</b>	<b>PEC = 3</b>	<b>PR = 0.5</b>						

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### DEPARTMENT OF CIVIL ENGINEERING

4 Years B.Tech. (Civil Engineering) Course Structure : GRBT-19

#### III YEAR I SEMESTER

S. No.	Course Code	Course Type	Course Title	Periods per week			C	Scheme of Examination Maximum Marks		
				L	T	P		Int.	Ext.	Total
1		PCC	Theory of Structures	2	1	0	3	30	70	100
2		PCC	Design of Reinforced Concrete Structures	2	1	0	3	30	70	100
3		PCC	Soil Mechanics	2	1	0	3	30	70	100
4		ESC	Engineering Geology	2	0	0	2	30	70	100
5		PCC	Engineering Hydrology	3	0	0	3	30	70	100
6		PEC	Professional Elective -II	3	0	0	3	30	70	100
7		MC	Intellectual Property Rights and Patents	2	0	0	0	30*	--	--
8		PCC	Soil Mechanics Laboratory	0	0	3	1.5	50	50	100
9		ESC	Engineering Geology Lab	0	0	2	1	50	50	100
10		PR	Mini Project-1/Study Project/Internship	0	0	0	2	100	-	100
<b>TOTAL</b>				<b>16</b>	<b>3</b>	<b>5</b>	<b>21.5</b>	<b>380</b>	<b>520</b>	<b>900</b>
PEC = 3	PCC = 13.5	PR = 2	ESC=3	MC=0						

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**DEPARTMENT OF CIVIL ENGINEERING**

4 Years B.Tech. (Civil Engineering) Course Structure : GRBT-19

**III YEAR II SEMESTER**

S. No.	Course Code	Course Type	Course Title	Periods per week			C	Scheme of Examination Maximum Marks		
				L	T	P		Int.	Ext.	Total
1		OEC	Open Elective-II	3	0	0	3	30	70	100
2		PCC	Design of Steel Structures	2	1	0	3	30	70	100
3		PCC	Foundation Engineering	2	1	0	3	30	70	100
4		PCC	Transportation Engineering	3	0	0	3	30	70	100
5		PCC	Irrigation Engineering	3	0	0	3	30	70	100
6		PCC	Concrete Technology ✓	2	1	0	3	30	70	100
7		HSMC	Soft Skills	0	0	3	1.5	50	50	100
8		PCC	Software applications in Civil Engineering	0	0	3	1.5	50	50	100
9		PCC	Concrete Technology & Transportation Engineering Laboratory	0	0	3	1.5	50	50	100
<b>TOTAL</b>				<b>15</b>	<b>3</b>	<b>9</b>	<b>22.5</b>	<b>330</b>	<b>570</b>	<b>900</b>
HSMC = 1.5	PCC = 18	OEC = 3								

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## DEPARTMENT OF CIVIL ENGINEERING

4 Years B.Tech. (Civil Engineering) Course Structure : GRBT-19

### IV YEAR I SEMESTER

S. No.	Course Code	Course Type	Course Title	Periods per week			C	Scheme of Examination Maximum Marks		
				L	T	P		Int.	Ext.	Total
1		OEC	Open Elective-III	3	0	0	3	30	70	100
2		OEC	Open Elective-IV	3	0	0	3	30	70	100
3		PCC	Pre stressed Concrete	2	1	0	3	30	70	100
4		PEC	Professional Elective-III	3	0	0	3	30	70	100
5		PEC	Professional Elective-IV	3	0	0	3	30	70	100
6		MC	Design Thinking & Product Innovation	2	0	0	0	30*	-	-
7		PCC	Infrastructure Design and Detailing Laboratory	0	0	2	1	50	50	100
8		PR	Mini Project -2/ Internship	0	0	0	2	100	-	100
<b>TOTAL</b>				16	1	2	18	300	400	700
PEC = 6	MC = 0	PCC = 4	OEC = 6	PR=2						

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**DEPARTMENT OF CIVIL ENGINEERING**

4 Years B.Tech. (Civil Engineering) Course Structure : GRBT-19

**IV YEAR II SEMESTER**

S. No.	Course Code	Course Type	Course Title	Periods per week			C	Scheme of Examination Maximum Marks		
				L	T	P		Int.	Ext.	Total
1		PCC	Estimating, Specifications & Contracts	3	0	0	3	30	70	100
2		PEC	Professional Elective-V	3	0	0	3	30	70	100
3		PR	Project	0	0	18	9	80	120	200
<b>TOTAL</b>				<b>6</b>	<b>0</b>	<b>18</b>	<b>15</b>	<b>140</b>	<b>260</b>	<b>400</b>
PEC = 3	PCC = 3	PR = 9								

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