



(AUTONOMOUS)

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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
TOTAL				15	0	12	19	300	500	800
BSC = 7.5		ESC=7	HSMC=4.5	MC=0						

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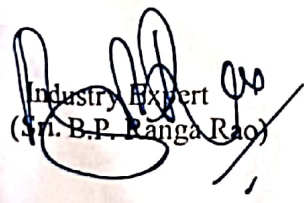
DEPARTMENT OF CIVIL ENGINEERING
4 Years B.Tech. (Civil Engineering) Course Structure : GRBT-19
II YEAR I SEMESTER

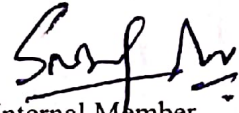
S. No.	Course Code	Course Type	Course Title	Periods per week			C	Scheme of Examination Maximum Marks		
				L	T	P		Int.	Ext.	Total
1		BSC	Mathematics-III	3	0	0	3	30	70	100
2		ESC	Strength of Materials	2	1	0	3	30	70	100
3		PCC	Environmental Engineering	2	0	0	2	30	70	100
4		PCC	Construction Materials, Equipment & 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
TOTAL				18	1	9	21.5	330	570	900
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
TOTAL				18	0	7	21.5	380	520	900
BSC = 3 PCC = 12 OEC = 3 PEC = 3 PR = 0.5										

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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
TOTAL				16	3	5	21.5	380	520	900
PEC = 3 PCC = 13.5 PR = 2 ESC=3 MC=0										

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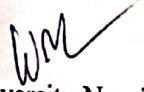
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DEPARTMENT OF CIVIL ENGINEERING

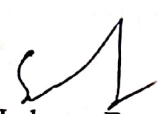
4 Years B.Tech. (Civil Engineering) Course Structure : GRBT-19

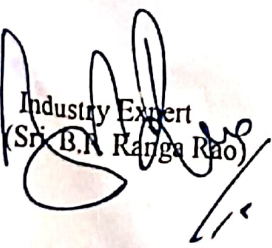
III YEAR II SEMESTER

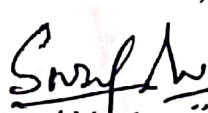
S. No.	Course Code	Course Type	Course Title	Periods per week			C	Scheme of Examination Maximum Marks		
				L	T	P		Int.	Ext.	Total
1		OEC	Open Elective-II	3	0	0	3	30	70	100
2		PCC	Design of Steel Structures	2	1	0	3	30	70	100
3		PCC	Foundation Engineering	2	1	0	3	30	70	100
4		PCC	Transportation Engineering	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
TOTAL				15	3	9	22.5	330	570	900
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
TOTAL				16	1	2	18	300	400	700
PEC = 6 MC = 0 PCC = 4 OEC = 6 PR = 2										

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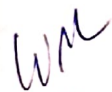
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4 Years B.Tech. (Civil Engineering) Course Structure : GRBT-19

IV YEAR II SEMESTER

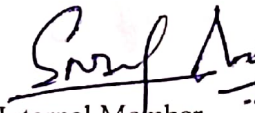
S. No.	Course Code	Course Type	Course Title	Periods per week			C	Scheme of Examination Maximum Marks		
				L	T	P		Int.	Ext.	Total
1		PCC	Estimating, Specifications & Contracts	3	0	0	3	30	70	100
2		PEC	Professional Elective-V	3	0	0	3	30	70	100
3		PR	Project	0	0	18	9	80	120	200
TOTAL				6	0	18	15	140	260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

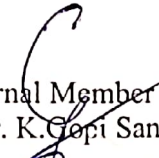

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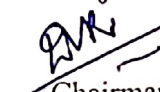

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