

**GODAVARI INSTITUTE OF ENGINEERING & TECHNOLOGY (A)
CHAITANYA NAGAR, RAJAHMUNDRY**

**Course Structure of
B.Tech. Programme in Computer Science and Engineering
(DATA SCIENCE)
Regulation: GRBT-20**

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	3	0	0	3	30	70	100
3		BSC	Engineering Chemistry	3	0	0	3	30	70	100
4		ESC	Problem Solving & Programming in C	3	0	0	3	30	70	100
5		ESC	Engineering Graphics	1	0	4	3	30	70	100
6		BSC	Engineering Chemistry Laboratory	0	0	3	1.5	50	50	100
7		ESC	Computer Engineering Workshop	0	0	3	1.5	50	50	100
8		ESC	Problem Solving & Programming in C Lab	0	0	3	1.5	50	50	100
Total =				13	0	13	19.5	300	500	800

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				L	T	P		Int.	Ext.	Total
1		BSC	Mathematics-II	3	0	0	3	30	70	100
2		BSC	Applied Physics	3	0	0	3	30	70	100
3		ESC	Fundamentals of Digital Electronics	3	0	0	3	30	70	100
4		ESC	Data Structures	3	0	0	3	30	70	100
5		ESC	Python Programming	3	0	0	3	30	70	100
6		BSC	Applied Physics Laboratory	0	0	3	1.5	50	50	100
7		ESC	Data Structures Lab	0	0	3	1.5	50	50	100
8		HSMC	Communicative English Lab	0	0	3	1.5	50	50	100
9		MC	Environmental Science	2	0	0	0	30*	---	---
Total =				17	0	9	19.5	300	500	800

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				L	T	P		Int	Ext	Total
1		BSC	Mathematical Foundations of Cyber Security	2	1	0	3	30	70	100
2		PCC	Design and Analysis of Algorithms	3	0	0	3	30	70	100
3		PCC	Computer Organization	3	0	0	3	30	70	100
4		PCC	Object Oriented Programming through JAVA	3	0	0	3	30	70	100
5		HSBC	Managerial Economics and Financial Analysis	3	0	0	3	30	70	100
6		PCC	Data Analysis Lab	0	0	3	1.5	50	50	100
7		PCC	Object Oriented Programming through JAVA Lab	0	0	3	1.5	50	50	100
9		PCC	Linux and Shell Programming Lab	0	0	3	1.5	50	50	100
10		SC	Web Application Development Using Full Stack Module -1	0	1	2	2	---	50	50
11		MC	Constitution of India	2	0	0	0	30	70*	100
Total =				16	2	11	21.5	330	620	950

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II Year II Semester

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				L	T	P		Int.	Ext.	Total
1		BSC	Statistics with R Programming	2	1	0	3	30	70	100
2		PCC	Formal Languages and Automata Theory	3	0	0	3	30	70	100
3		PCC	Operating Systems	3	0	0	3	30	70	100
4		PCC	Database Management Systems	3	0	0	3	30	70	100
5		PCC	Software Engineering	3	0	0	3	30	70	100
6		PCC	R Programming Lab	0	0	3	1.5	50	50	100

7		PCC	Database Management Systems Lab	0	0	3	1.5	50	50	100
8		PCC	Operating Systems & Software Engineering Lab	0	0	3	1.5	50	50	100
9		SC	Web Application Development Using Full Stack Module -2	0	1	2	2	---	50	50
Total =				16	2	11	21.5	300	550	850
Minor courses				4	0	0	4			
# After II B.Tech II Semester Summer Internship/ Mini Project-1 is mandatory. Evaluation should be III year I semester.										