

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

Course Structure of
B.Tech. Programme in Computer Science and Engineering
(Cyber Security)

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	201HB101	BSC	Mathematics-I	3	0	0	3	30	70	100
2	201HB102	HSMC	Communicative English	3	0	0	3	30	70	100
3	201HB103b	BSC	Engineering Chemistry	3	0	0	3	30	70	100
4	201CS104	ESC	Problem Solving & Programming in C	3	0	0	3	30	70	100
5	201ME105	ESC	Engineering Graphics	1	0	4	3	30	70	100
6	201HB111b	BSC	Engineering Chemistry Laboratory	0	0	3	1.5	50	50	100
7	201CS112	ESC	Problem Solving & Programming in C Lab	0	0	3	1.5	50	50	100
8	201ME113c	ESC	Computer Engineering Workshop	0	0	3	1.5	50	50	100
Total =				201HB106	0	13	19.5	300	500	800

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	201HB201	BSC	Mathematics-II	3	0	0	3	30	70	100
2	201HB202a	BSC	Applied Physics	3	0	0	3	30	70	100
3	201EC203	ESC	Fundamentals of Digital Electronics	3	0	0	3	30	70	100
4	201CS204	ESC	Data Structures	3	0	0	3	30	70	100
5	201CS205	ESC	Python Programming	3	0	0	3	30	70	100
9	201HB296	MC	Environmental Science	2	0	0	0	30*	---	---
6	201HB211a	BSC	Applied Physics Laboratory	0	0	3	1.5	50	50	100
7	201HB212	HSMC	Communicative English Lab	0	0	3	1.5	50	50	100
8	201CS213	ESC	Data Structures Lab	0	0	3	1.5	50	50	100
Total =				17	0	9	19.5	300	500	800

GODAVARI INSTITUTE OF ENGINEERING & TECHNOLOGY (A)
CHAITANYA NAGAR, RAJAHMUNDRY
Course Structure of
B.Tech. Programme in Computer Science and Engineering
(Cyber Security)
Regulation: GRBT-20

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	201CY301	BSC	Mathematical Foundations of Cyber Security	2	1	0	3	30	70	100
2	201CS302	PCC	Design and Analysis of Algorithms	3	0	0	3	30	70	100
3	201CS303	PCC	Computer Organization	3	0	0	3	30	70	100
4	201CS304	PCC	Object Oriented Programming through JAVA	3	0	0	3	30	70	100
5	201HB305	HSBC	Managerial Economics and Financial Analysis	3	0	0	3	30	70	100
6	201CS311	PCC	Data Analysis Lab	0	0	3	1.5	50	50	100
7	201CS312	PCC	Object Oriented Programming through JAVA Lab	0	0	3	1.5	50	50	100
8	201CS313	PCC	Linux and Shell Programming Lab	0	0	3	1.5	50	50	100
9	201CS381	SOC	Web Application Development Using Full Stack Module -1	0	1	2	2	---	50	50
10	201CE391	MC	Constitution of India	2	0	0	0	30	70*	100
Total =				16	2	11	21.5	330	620	950

II 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	201CS401	BSC	Statistics with R Programming	2	1	0	3	30	70	100
2	201CS402	PCC	Formal Languages and Automata Theory	3	0	0	3	30	70	100
3	201CS403	PCC	Operating Systems	3	0	0	3	30	70	100
4	201CS404	PCC	Database Management Systems	3	0	0	3	30	70	100
5	201CS405	PCC	Software Engineering	3	0	0	3	30	70	100
6	201CS411	PCC	R Programming Lab	0	0	3	1.5	50	50	100
7	201CS412	PCC	Database Management Systems Lab	0	0	3	1.5	50	50	100
8	201CS413	PCC	Operating Systems & Software Engineering Lab	0	0	3	1.5	50	50	100
9	201CS481	SOC	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.

GODAVARI INSTITUTE OF ENGINEERING & TECHNOLOGY (A)
CHAITANYA NAGAR, RAJAHMUNDRY
Course Structure of
B.Tech. Programme in Computer Science and Engineering
(Cyber Security)
Regulation: GRBT-20

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	201CY501	PCC	Principles of Cyber Security	3	0	0	3	30	70	100
2	201CS502	PCC	Compiler Design	3	0	0	3	30	70	100
3	201CS503	PCC	Computer Networks	3	0	0	3	30	70	100
4	201CY564A 201CY564B 201CY564C 201CY564D	PEC	Professional Elective-I A) Cryptanalysis B) Data Mining and Data Warehousing C) Natural Language Processing D)MOOCS:NPTTEL/SWAYAM	3	0	0	3	30	70	100
5	201CE565a 201EE565a 201ME565a 201EC565a 201CS565a 201MM565a 201AM565a 201PT565a 201MB565a	OEC	Open Electives –I/ Job Oriented Elective a) Environmental Pollution & Control b) Fundamentals of Utilization of Electrical Energy c) Robotics d) Microprocessors and its interfacing e) Foundations of Operating Systems f) Elements of Mining Technology g) Basic Automobile Engineering h) Fundamentals of Petroleum Engineering i) Principles of Management	3	0	0	3	30	70	100
6	201HB591	MC	Quantitative Aptitude and Reasoning	2	0	0	0	30	70	100
7	201CY511	PCC	Cyber Security Lab	0	0	3	1.5	50	50	100
8	201CS512	PCC	Internetworking Protocol Lab	0	0	3	1.5	50	50	100
9	201CS581	SOC	Web Application Development Using Full Stack Module -3	0	1	2	2	--	50	50
10	201CS521/201CS531	PROJ	Summer Internship/ Mini Project-1	0	0	0	1.5	100	---	100
Total =				17	1	8	21.5	380	570	950
Minor courses				4	0	0	4			

Regulation: GRBT-20

II Semester

Industrial/ Research Internship/ Miniproject-2 is mandatory. Evaluation should be in IV year I semester

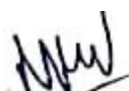
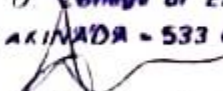
GODAVARI INSTITUTE OF ENGINEERING & TECHNOLOGY (A)
CHAITANYA NAGAR, RAJAHMUNDRY
Tentative Course Structure of
B.Tech. Programme in Computer Science & Engineering
(Cyber Security)
Regulation: GRBT-20

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	201CS761A 201CY761B 201CS761C 201CY761D	PEC	Professional Elective-III A) Distributed Systems B) Cyber Crime Investigation and Digital Forensics C) Mobile Computing D) Information Coding and Techniques	3	0	0	3	30	70	100
2	201CY762A 201CY762B 201CY762C 201CY762D	PEC	Professional Elective-IV A) Mobile and Wireless Security B) Secure Cloud Computing C) Malware Analysis & Reverse Engineering D) MOOCS-NPTEL/SWAYAM	3	0	0	3	30	70	100
3	201CY763A 201CY763B 201CS763C 201CY763D	PEC	Professional Elective-V A) Intrusion Detection and Prevention System B) Software Testing Methodologies C) Block Chain Technologies and its Applications D) MOOCS-NPTEL/SWAYAM	3	0	0	3	30	70	100
4	201CE764a 201EE764a 201ME764a 201EC764a 201CS764a 201MM764a 201AM764a 201PT764a 201MB764a	OEC	Open Electives-III/ Job Oriented Elective a) Building Technology b) Fundamentals of Smart Grid Technologies c) Nano Technology and its Applications d) Embedded Systems e) Information Security f) Mining and its Importance g) Modern Vehicle Technology h) Introduction to Petroleum Production Engineering i) Entrepreneurship for Engineers	3	0	0	3	30	70	100
5	201CE765a 201EE765a 201ME765a 201EC765a 201CS765a 201MM765a 201AM765a 201PT765a 201MB765a	OEC	Open Electives –IV/ Job Oriented Elective a) Safety Engineering b) Basics of Electrical Measurements and Instrumentation c) Introduction to Operations Research d) Digital Image Processing e) Human Computer Interaction f) Remote Sensing & GIS in Mining g) Alternative Energy Resources for Automotives h) Basic Concepts in Reservoir Engineering i) Digital Marketing	3	0	0	3	30	70	100
6	201HB796	HSMC	UHV 2 - Understanding Harmony	3	0	0	3	30	70	100
7	201CY781	SOC	Multimedia Application Development	0	1	2	2	---	50	50
8	201CS721	PR	Industrial/ Research Internship/ Miniproject-2	0	0	0	3	100	---	100
Total =				18	1	2	23	280	470	750
Minor courses				4	0	0	4			

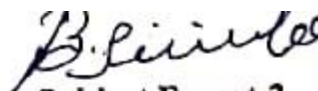
**GODAVARI INSTITUTE OF ENGINEERING & TECHNOLOGY (A)
CHAITANYA NAGAR, RAJAHMUNDRY**

**Tentative Course Structure of
B.Tech. Programme in Computer Science & Engineering
(Cyber Security)
Regulation: GRBT-20**

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	201CY841	PROJ	Project Project Work, Seminar, Internship	0	0	0	8	60	140	200
Total =				0	0	0	8			


University Nominee
Dr. M.H.M. Krishna Prasad
Professor of Computer Science & Engg
College of Engineering
RAJAHMUNDRY - 533 003.

Industry Expert
Mr. K.Lakshmi Narasimha Arun


Subject Expert-1
(Dr. D.Chandra Mohan)


Subject Expert-2
(Dr. B. Srinivasa Rao)

BOS-Chairman
(Dr. B. Sujatha)