



# RAGHU INSTITUTE OF TECHNOLOGY

**AUTONOMOUS**

(Approved by AICTE, New Delhi & Permanently Affiliated to JNTUK, Kakinada)  
 Accredited by NBA (ECE, EEE, MECH, CSE) & NAAC with 'A' Grade, Listed u/s 2(f) & 12(B) of UGC Act 1956.  
 Dakamarri, Bheemunipatnam Mandal, Visakhapatnam Dist. – 531 162 (A.P.)  
 Ph: +91-8922-248003, 248013  
 e-mail: principal@raghuinstech.com website: www.raghuinstech.com

**AR regulations**  
**Department of Computer Science and Engineering**  
**B.Tech**  
**(Computer Science and Engineering(Cyber Security))**  
**First Year – First Semester-AR20**

Sl. No	Sub.Code	Category	Name of Subject	Periods		Maximum Marks		Total	Credits
				T	L	Internal	External		
1	20MA1001	BS	Calculus	3	--	30	70	100	3
2	20CH1001	BS	Applied chemistry	3	--	30	70	100	3
3	20HS1001	HS	English for Communication	3	--	30	70	100	3
4	20ES1004	ES	Programming for Problem Solving using C	3	--	30	70	100	3
5	20ES1005	ES	Computer engineering workshop	2	2	30	70	100	3
6	20HS1101	HSLAB	English language communication skills lab	--	3	15	35	50	1.5
7	20CH1101	BSLAB	Engineering/Applied chemistry lab	--	3	15	35	50	1.5
8	20ES1104	ESLAB	Programming for Problem Solving using C Lab	--	3	15	35	50	1.5
SPORTS/NSS/NCC/Social Services									
Total Credits									19.5



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## First Year – Second Semester- CSE(Cyber Security) AR20

Sl.No	Sub.Code	Category	Name of Subject	Periods		Maximum Marks		Total	Credits
				T	L	Internal	External		
1	20MA2001	BS	Linear algebra and Vector Calculus	3	--	30	70	100	3
2	20PH1002	BS	Applied Physics	3	--	30	70	100	3
3	20MA2002	BS	Numerical techniques and Vector Spaces	3	--	30	70	100	3
4	20ES2006	ES	Digital logic design	3	--	30	70	100	3
5	20CS2001	CS	Data structures	3	--	30	70	100	3
6	20CS2101	CSLAB	Data Structures through C Lab	--	3	15	35	50	1.5
7	20PH1101	BSLAB	Engineering/Applied physics lab	--	3	15	35	50	1.5
8	20ES2106	ESLAB	Digital logic design lab	--	3	15	35	50	1.5
9	20MC2502	MC	Universal human values(AICTE suggested)	2	0	0	0	0	0
SPORTS/NSS/NCC/Social Services									
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## Second Year – First Semester- CSE(Cyber Security) AR20

Sl.No	Sub.Code	Category	Name of Subject	Periods		Maximum Marks		Total	Credits
				T	L	Internal	External		
1	20ES3019	ES	Discrete Mathematical Structures	3	--	30	70	100	3
2	20CS3001	CS	Python Programming	3	--	30	70	100	3
3	20CS3002	CS	Computer Organization and Architecture	3	--	30	70	100	3
4	20CS3003	CS	Operating Systems	3	--	30	70	100	3
5	20CS3005	CS	Database Management Systems	3	--	30	70	100	3
6	20CS3101	CSLAB	Python Programming Lab	--	3	50	50	100	1.5
7	20CS3103	CSLAB	Operating Systems Lab	--	3	15	35	50	1.5
8	20CS3105	CSLAB	Database Management Systems Lab	--	3	15	35	50	1.5
9	20CS3201	SC	Skill oriented Course: Basic Web Designing	--	4	50	50	100	2
10	20MC3502	MC	Environmental Science(AICTE Suggested)	2	0	0	0	0	0
SPORTS/NSS/NCC/Social Services									
Total Credits									21.5

## Second Year – Second Semester- CSE(Cyber Security) AR20

Sl.No	Sub.Code	Category	Name of Subject	Periods		Maximum Marks		Total	Credits
				T	L	Internal	External		
1	20ES4005	ES	Object Oriented Programming through Java	3	--	30	70	100	3
2	20MA4006	BS	Probability and Statistics	3	--	30	70	100	3
3	20CS4009	CS	Automata and Compiler Design	3	--	30	70	100	3
4	20CS4006	CS	Computer Networks	3	--	30	70	100	3
5	20HS4002	HS	Managerial Economics and Financial Accountancy	3	--	30	70	100	3
6	20ES4105	ESLAB	JAVA Programming Lab	--	3	15	35	50	1.5
7	20CS4109	CS LAB	Compiler Design Lab	--	3	15	35	50	1.5
8	20CS4106	CS LAB	Computer Networks Lab	--	3	15	35	50	1.5
9	20CS4202	SC	Skill Oriented Course* R Programming	0	4	50	50	100	2
SPORTS/NSS/NCC/Social Services									
Total Credits									21.5



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## Third Year - First Semester CSE(Cyber Security) AR20

Sl.No	Sub.Code	Category	Name of Subject	Periods		Maximum Marks			Credits	
				T	L	Internal	External	Total		
1	20CS5011	PC	Introduction to Cyber Security	3	--	30	70	100	3	
2	20DS5012	PC	Cloud Computing	3	--	30	70	100	3	
3	20CS5013	PC	Advanced Data Structures	3	--	30	70	100	3	
4	20xx54xx	OE	<b>Open Elective-I(Inter Disciplinary)/MOOCs</b>	2	2	30	70	100	3	
5	20AI5330 20CS5003 20CS5005 20CS5316	PE	Professional Elective-I/MOOCs 1. Secure Coding Techniques 2. Software Engineering 3. Artificial Intelligence 4. Penetration Testing And Vulnerability Assessment	3	--	30	70	100	3	
6	20CY5111	PCLAB	Cyber Security Lab	--	3	15	35	50	1.5	
7	20CS5113	PCLAB	Advanced Data Structures Lab	--	3	15	35	50	1.5	
8	20CS5202	SC	Skill Oriented Course-AWS and Fundamentals of Cloud Computing	1	2	50	50	100	2	
9	20MC5503	MC	Essence of Indian Tradition(AICTE Suggested)	2	0	0	0	0	0	
10	20CS5801	Summer Internship 2 Months (Mandatory) after second year (to be evaluated during V semester)							1.5	
Total Credits									21.5	
Honors/Minor courses (The hours distribution can be 3-0-2 or 3-1-0 also)				4		0	30	70	100	4



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### Third Year- Second Semester-CSE(Cyber Security) AR20

Sl.No	Sub.Code	Category	Name of Subject	Periods		Maximum Marks			Credits
				T	L	Internal	External	Total	
1	20CY6042	PC	Cryptography and Network Security	3	--	30	70	100	3
2	20CY6045	PC	Digital Forensics	3	--	30	70	100	3
3	20CY6047	PC	Malware Analysis	3	--	30	70	100	3
4	20CY6346 20CS6318 20CY6348 20CY6349	PE	Professional Elective-II/MOOCs 1. Cyber Law 2. Image Processing 3. Information Assurance and Security 4. Security Audit and Risk Assessment	3	--	30	70	100	3
5	20xx64xx	OE	Open Elective-II(Inter Disciplinary)/MOOCs	3	--	30	70	100	3
6	20CY6142	PCLAB	Network Security Lab	--	2	15	35	50	1.5
7	20CY6150	PCLAB	Network Simulation Lab using NS2	--	3	15	35	50	1.5
8	20CY6147	PCLAB	Malware Analysis Lab	--	3	15	35	50	1.5
9	20HS6127	HS	Employability & Corporate Readiness skills	2	2	50	50	100	2
10	20MC6128	MC	Indian Constitution(AICTE Suggested)	2	0	0	0	0	0
<b>Total Credits</b>									21.5
Honors/Minor courses (The hours distribution can be 3-0-2 or 3-1-0 also)				4	0	30	70	100	4
Internship 2 Months (Mandatory) during summer vacation									