



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

AR20 Regulations Department of Computer Science and Engineering

B.Tech (Computer Science and Engineering)

First Year – First Semester

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



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SPORTS/NSS/NCC/Social Services								
							Total Credits	19.5
Sl.No	Sub.Code	Category	Name of Subject	Periods	Maximum Marks	Total	Credits	



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				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	20HS4002	HS	Managerial Economics and Financial Accountancy	3	--	30	70	100	3
5	20CS3004	PC	Object Oriented Programming through C++	3	--	30	70	100	3
6	20CS3101	CSLAB	Python Programming Lab	--	3	50	50	100	1.5
7	20CS3104	CSLAB	Object Oriented Programming through C++ Lab	--	3	15	35	50	1.5
8	20CS3102	CSLAB	FOSS lab	--	3	15	35	50	1.5
9	20SC3201	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 – First Semester–B.Tech(CSE)

Sl. No	Sub.Code	Category	Name of Subject	Periods		Maximum Marks		Total	Credits
				T	L	Internal	External		
1	20MA2001	BS	Linear Algebra and Vector	3	--	30	70	100	3



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			Calculus						
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	50	50	100	1.5
9	20MC2502	MC	Universal Human Values(AICTE Suggested)	2	0	0	0	0	0
SPORTS/NSS/NCC/Social Services									
Total Credits									19.5



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Second Year – Second Semester--B.Tech(CSE)

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	20CS4003	CS	Operating Systems	3	--	30	70	100	3
4	20CS4005	CS	Database Management Systems	3	--	30	70	100	3
5	20CS4004	CS	Theory of Computation	3	--	30	70	100	3
6	20ES4105	ESLAB	JAVA Programming Lab	--	3	15	35	50	1.5
7	20CS4103	CS LAB	Operating Systems Lab	--	3	15	35	50	1.5
8	20CS4105	CS LAB	DBMS Lab	--	3	15	35	50	1.5
9	20CS4202	SC	Skill Oriented Course* R Programming	1	3	50	50	100	2
SPORTS/NSS/NCC/Social Services									
Total Credits									21.5



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Third Year- First Semester--B.Tech(CSE)

Sl.No.	Sub.Code	Category	Name of Subject	Periods		Maximum Marks			Credits
				T	L	Internal	External	Total	
1	20CS5002	PC	Compiler Design	3	--	30	70	100	3
2	20CS5006	PC	Computer Networks	3	--	30	70	100	3
3	20CS5019	PC	Data Warehousing and Data Mining	3	--	30	70	100	3
4	20xx54xx	OE	Open Elective-I(Inter Disciplinary)/MOOCs	2	2	30	70	100	3
5	20CS5316 20CS5003 20CS5301 20CS5306	PE	Professional Elective-I/MOOCs 1. Distributed Computing 2. Software Engineering 3. Advanced Data Structures 4. Artificial Intelligence	3	--	30	70	100	3
6	20CS5108	PCLAB	Data Warehousing and Data Mining Lab	--	3	15	35	50	1.5
7	20CS5106	PCLAB	Computer Networks Lab	--	3	15	35	50	1.5
8	20CS5202	SC	Skill Oriented Course-AWS and Fundamentals of Cloud Computing	2	2	50	50	100	2
9	20MC5503	MC	Essence of Indian Tradition Knowledge(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--B.Tech(CSE)

Sl.No	Sub.Code	Category	Name of Subject	Periods		Maximum Marks			Credits
				T	L	Internal	External	Total	
1	20CS6033	PC	Design and Analysis of Algorithms	3	--	30	70	100	3
2	20IO6022	PC	Mobile Computing	3	--	30	70	100	3
3	20CS6026	PC	Web Technologies	3	--	30	70	100	3
4	20IO6334 20CS6336 20AI6330 20CS6337	PE	Professional Elective-II/ MOOCs 1. Object Oriented Analysis and Design 2. Human Computer Interaction 3. Image Processing 4. Machine Learning	3	--	30	70	100	3
5	20xx64xx	OE	Open Elective-II(Inter Disciplinary)/MOOCs	3	--	30	70	100	3
6	20CS6133	PCLAB	Design and Analysis of Algorithms Lab	--	2	15	35	50	1.5
7	20IO6122	PCLAB	Mobile Application Development Lab	--	3	15	35	50	1.5
8	20CS6126	PCLAB	Web Technologies Lab	--	3	15	35	50	1.5
9	20HS6209	HS	Employability & corporate Readiness skills	2	2	50	50	100	2
10	20MC6504	MC	Indian Constitution(AICTE Suggested)	2	0	0	0	0	0
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
Internship 2 Months (Mandatory) during summer vacation									