

Teaching and Examination Scheme for B.Tech. (Four year courses)

Branch

Computer Engineering

Branch Code

CS

Year	II	Semester	III			Duration of Exam. (Hrs)	Maximum Marks		Total
			Hrs./Week				IA	Exam	
Code	Subject	Lecture	Tutorial	Practical					
3CS1	Digital Electronics	3			3	20	80	100	
3CS2	Electronic Devices & Circuits	3	1		3	20	80	100	
3CS3	Data Structure and Algorithms	3			3	20	80	100	
3CS4	Discrete Mathematical Structures	3			3	20	80	100	
3CS5	Mathematics III	3	1		3	20	80	100	
3CS6.1	Management Information Systems	3			3	20	80	100	
3CS6.2	Line Communication								
3CS6.3	E-Commerce								
3CS7	Digital Electronics Lab			2	3	60	40	100	
3CS8	Electronics Lab			4	3	60	40	100	
3CS9	Data Structure Lab			4	3	60	40	100	
3CS10	Humanities and Social Science			2	3			50	
3CSDC	Discipline/Extra-Curricular Activities							50	
	Total	18	2	12		300	600	1000	
	Total Teaching hours	32							

Year	II	Semester	IV			Duration of Exam. (Hrs)	Maximum Marks		Total
			Hrs./Week				IA	Exam	
Code	Subject	Lecture	Tutorial	Practical					
4CS1	Principles of Programming Languages	3			3	20	80	100	
4CS2	Microprocessor and Interfaces	3			3	20	80	100	
4CS3	Object Oriented Programming	3	1		3	20	80	100	
4CS4	System Software	3			3	20	80	100	
4CS5	Statistics and Probability Theory	3	1		3	20	80	100	
4CS6.1	Analog and Digital Communication	3			3	20	80	100	
4CS6.2	Intellectual Property Rights								
4CS6.3	Open Source Technology								
4CS7	Communication Lab			2	3	45	30	75	
4CS8	Microprocessor Lab			2	3	45	30	75	
4CS9	Object Oriented Programming Lab			4	3	60	40	100	
4CS10	System Software Lab			4	3	60	40	100	
4CSDC	Discipline/Extra-Curricular Activities							50	
	Total	18	2	12		330	620	1000	
	Total Teaching hours	32							

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Year	III	Semester	V						
			Hrs./Week			Duration of Exam. (Hrs)	Maximum Marks		Total
Code	Subject	Lecture	Tutorial	Practical		IA	Exam		
5CS1	Software Engineering	3	1		3	20	80	100	
5CS2	Computer Architecture	3			3	20	80	100	
5CS3	Database Management Systems	3			3	20	80	100	
5CS4	Computer Graphics	3			3	20	80	100	
5CS5	Telecommunication Fundamentals	3	1		3	20	80	100	
5CS6.1	Logic & Functional Programming	3			3	20	80	100	
5CS6.2	Information Theory and Coding								
5CS6.3	Advanced Data Structure								
5CS7	Software Engineering Lab			4	3	60	40	100	
5CS8	Computer Architecture Lab			4	3	60	40	100	
5CS9	Database Management Lab			2	3	45	30	75	
5CS10	Computer Graphics Lab			2	3	45	30	75	
5CSDC	Discipline/Extra-Curricular Activities							50	
	Total	18	2	12		330	620	1000	
	Total Teaching hours	32							

Year	III	Semester	VI						
			Hrs./Week			Duration of Exam. (Hrs)	Maximum Marks		Total
Code	Subject	Lecture	Tutorial	Practical		IA	Exam		
6CS1	Operating Systems	3	1		3	20	80	100	
6CS2	Computer Networks	3			3	20	80	100	
6CS3	Design & Analysis of Algorithms	3			3	20	80	100	
6CS4	Embedded Systems	3	1		3	20	80	100	
6CS5	Theory Of Computation	3			3	20	80	100	
6CS6.1	Digital Signal Processing	3			3	20	80	100	
6CS6.2	Advanced Software Engineering								
6CS6.3	Microwave and Satellite Communicati								
6CS7	Shell Programming Lab			2	3	45	30	75	
6CS8	Network lab			3	3	60	40	100	
6CS9	Web Programming lab			3	3	45	30	75	
6CS10	Microcontroller lab			4	3	60	40	100	
6CSDC	Discipline/Extra-Curricular Activities							50	
	Total	18	2	12		330	620	1000	
	Total Teaching hours	32							

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Year	IV	Semester	VII			Duration of Exam. (Hrs)	Maximum Marks		Total
			Hrs./Week				IA	Exam	
Code	Subject	Lecture	Tutorial	Practical					
7CS1	Compiler Construction	3	1		3	20	80	100	
7CS2	Data Mining And Ware Housing	3	1		3	20	80	100	
7CS3	Logic Synthesis	3			3	20	80	100	
7CS4	Artificial Intelligence	3			3	20	80	100	
7CS5	Multimedia Systems	3			3	20	80	100	
7CS6.1	Service Oriented Architectures	3			3	20	80	100	
7CS6.2	Optical Communication								
7CS6.3	Real Time Systems								
7CS7	Compiler Design Lab			4	3	45	30	75	
7CS8	Data Mining And Ware Housing Lab			4	3	45	30	75	
7CS9	Logic Synthesis Lab			2	3	30	20	50	
7CS10	Project Stage I			2		30	20	50	
7CS11	Practical Training Seminar					40+20	40	100	
7CSDC	Discipline/Extra-Curricular Activities							50	
	Total	18	2	12		390	620	1000	
	Total Teaching hours	32							

Year	IV	Semester	VIII			Duration of Exam. (Hrs)	Maximum Marks		Total
			Hrs./Week				IA	Exam	
Code	Subject	Lecture	Tutorial	Practical					
8CS1	Information System and Securities	3			3	20	80	100	
8CS2	CAD FOR VLSI Design	3	1		3	20	80	100	
8CS3	Advanced computer Architectures	3	1		3	20	80	100	
8CS4.1	Distributed Systems	3			3	20	80	100	
8CS4.2	Image Processing								
8CS4.3	Natural Language Processing								
8CS5	Information System and Securities Lab			4	3	60	40	100	
8CS6	VLSI Design Lab			2	3	45	30	75	
8CS7	X-Windows Programming Lab			2	3	45	30	75	
8CS8	Project Stage II			4		120	80	200	
8CS9	Seminar Presentation			2				100	
8CSDC	Discipline/Extra-Curricular Activities							50	
	Total	12	2	14		350	500	1000	
	Total Teaching hours	28							