

Rajasthan Technical University Kota

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

Branch

Information Technology

Branch Code

IT

Year	II	Semester	III					
		Hrs./Week			Duration of Exam. (Hrs)	Maximum Marks		Total
Code	Subject	Lecture	Tutorial	Practical		IA	Exam	
3IT1	Digital Electronics	3	0		3	20	80	100
3IT2	Electronic Devices & Circuits	3	0		3	20	80	100
3IT3	Data Structures and Algorithms	3	1		3	20	80	100
3IT4	Telecommunication Fundamentals	3	0		3	20	80	100
3IT5	Mathematics III	3	1		3	20	80	100
3IT6.1	Intellectual Property Rights	3	0		3	20	80	100
3IT6.2	Internet Technology							
3IT6.3	Management Information Systems							
3IT7	Digital Electronics Lab			4	2	60	40	100
3IT8	Electronics Lab			2	2	45	30	75
3IT9	Data Structure Lab			3	3	60	40	100
3IT10	Internet Technology Lab			3	3	45	30	75
3ITDC	Discipline/Extra-Curricular Activities							50
	Total	18	2	12		330	620	1000
	Total Teaching hours	32						

Year	II	Semester	IV					
		Hrs./Week			Duration of Exam. (Hrs)	Maximum Marks		Total
Code	Subject	Lecture	Tutorial	Practical		IA	Exam	
4IT1	Microprocessor and Interfaces	3	0		3	20	80	100
4IT2	Information Theory and Coding	3	0		3	20	80	100
4IT3	Object Oriented Programming	3	1		3	20	80	100
4IT4	Software Engineering	3	0		3	20	80	100
4IT5	Discrete Mathematical Structures	3	1		3	20	80	100
4IT6.1	Open Source Technology	3	0		3	20	80	100
4IT6.2	Principles of Programming Languages							
4IT6.3	Analog & Digital Communication							
4IT7	Microprocessor Lab			4	3	60	40	100
4IT8	Communication Lab			2	3	45	30	75
4IT9	Object Oriented Programming Lab			4	3	60	40	100
4IT10	Software Engineering Lab			2	3	45	30	75
4ITDC	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		
5IT1	System Software	3			3	20	80	100	
5IT2	E-Commerce	3			3	20	80	100	
5IT3	Database Management Systems	3	1		3	20	80	100	
5IT4	Computer Architecture	3	1		3	20	80	100	
5IT5	Advanced Software Engineering	3			3	20	80	100	
5IT6.1	Advanced Data Structure	3			3	20	80	100	
5IT6.2	Simulation and Modeling								
5IT6.3	IT For Forensic Sciences								
5IT7	System Software Lab			4	3	60	40	100	
5IT8	E-Commerce Lab			2	3	60	40	100	
5IT9	Database Lab			4	3	60	40	100	
5IT10	UML Lab			2	3	30	20	50	
5ITDC	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		
6IT1	Operating Systems	3	1		3	20	80	100	
6IT2	Computer Networks	3			3	20	80	100	
6IT3	Design and Analysis of Algorithms	3			3	20	80	100	
6IT4	Web Technology	3	1		3	20	80	100	
6IT5	Optical Communication	3			3	20	80	100	
6IT6.1	Distributed Processing	3			3	20	80	100	
6IT6.2	Advance Computer Architectures								
6IT6.3	IT Infrastructure management								
6IT7	Shell Programming Lab			4	3	60	40	100	
6IT8	Network Lab			2	3	45	30	75	
6IT9	Design and Analysis of Algorithms			2	3	45	30	75	
6IT10	Web Technology Lab			4	3	60	40	100	
6ITDC	Discipline/Extra-Curricular Activities							50	
	Total	18	2	12		330	620	1000	
	Total Teaching hours	32							

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Year	IV	Semester	VII						
			Hrs./Week			Duration of Exam. (Hrs)	Maximum Marks		Total
Code	Subject	Lecture	Tutorial	Practical		IA	Exam		
7IT1	Multimedia System	3			3	20	80	100	
7IT2	Computer Graphics	3			3	20	80	100	
7IT3	Electronic Design Automation	3			3	20	80	100	
7IT4	Wireless Communication	3			3	20	80	100	
7IT5	Information Protection and Security	3			3	20	80	100	
7IT6.1	Web Services	3			3	20	80	100	
7IT6.2	Real Time Systems								
7IT6.3	Bio Informatics								
7IT7	Multimedia System Lab			3	3	45	30	75	
7IT8	Computer Graphics Lab			3	3	30	20	50	
7IT9	Electronic Design Automation Lab			4	3	45	30	75	
7IT10	Project Stage I			2		30	20	50	
7IT11	Practical Training Seminar			2		60	40	100	
7ITDC	Discipline/Extra-Curricular Activities							50	
	Total	18	0	12		330	620	1000	
	Total Teaching hours	30							

Year	IV	Semester	VIII						
			Hrs./Week			Duration of Exam. (Hrs)	Maximum Marks		Total
Code	Subject	Lecture	Tutorial	Practical		IA	Exam		
8IT1	Data Mining and Warehousing	3			3	20	80	100	
8IT2	ERP Systems	3			3	20	80	100	
8IT3	Storage and Information Management	3	1		3	20	80	100	
8IT4.1	Artificial Intelligence	3			3	20	80	100	
8IT4.2	Mobile Computing								
8IT4.3	Network Programming								
8IT5	Data Mining and Warehousing Lab			4	3	60	40	100	
8IT6	Industrial Economics and Management Lab			2	3	45	30	75	
8IT7	Web Programming Lab			4	3	45	30	75	
8IT8	Project Stage II			4		120	80	200	
8IT9	Seminar Presentation			2				100	
8ITDC	Discipline/Extra-Curricular Activities							50	
	Total	12	1	16		350	500	1000	
	Total Teaching hours	29							