

RAJASTHAN TECHNICAL UNIVERSITY

**Teaching and Examination Scheme for B.Tech. (4 Year Course)
In
Electronics & Communication Engg.**

Year : II

**Semester : III
(Revised)**

Code	Subject	Hrs./week			Exam Hrs.	Maximum Marks		
		L	T	P		*I.A.	Exam	Total
A. Theory Papers								
3EC1	Mathematics-III	3	1	-	3	20	80	100
3EC2	Electronic Devices & Circuits	3	1	-	3	20	80	100
3EC3	Circuit Analysis & Synthesis	3	1	-	3	20	80	100
3EC4	Electronic Measurements & Instrumentation	3	0	-	3	20	80	100
3EC5	Electronic Materials and processes	3	0	-	3	20	80	100
3EC6	Data Structures & Algorithms	3	0	-	3	20	80	100
B. Practical & Sessional :								
3EC7	Electronics Workshop	-	-	2	-	45	30	75
3EC8	Computer Programming Lab-I	-	-	3	-	60	40	100
3EC9	Electronics Lab-I	-	-	3	-	60	40	100
3EC10	Electronic Measurement & Instrumentation Lab	-	-	3	-	45	30	75
3ECDC	Discipline & Extra Curricular activities :					-	-	50
	GRAND TOTAL	18	3	11	-	-	-	1000

* I.A. – Internal Assessment

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Code	Subject	Hrs./week			Exam Hrs.	Maximum Marks		
		L	T	P		*I.A.	Exam	Total
A. Theory Papers								
4EC1	Mathematics-IV	3	1	-	3	20	80	100
4EC2	Analog Electronics	3	1	-	3	20	80	100
4EC3	Digital Electronics	3	0	-	3	20	80	100
4EC4	Electromagnetic Field Theory	3	1	-	3	20	80	100
4EC5	Random Variables & Stochastic Processes	3	1	-	3	20	80	100
4EC6	Elective (any one of the following)	3	0	-	3	20	80	100
4EC6.1	Object Oriented Programming							
4EC6.2	Data Base Management System							
4EC6.3	Computer Graphics							
B. Practical & Sessional :								
4EC7	Computer Programming Lab-II	-	-	3	-	60	40	100
4EC8	Electronics Lab-II	-	-	3	-	60	40	100
4EC9	Digital Electronics Lab	-	-	2	-	60	40	100
4EC10	Humanities	-	-	2	-	30	20	50
4ECDC	Discipline & Extra Curricular activities :					-	-	50
	GRAND TOTAL	18	4	10	-	-	-	1000

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Semester : V

Code	Subject	Hrs./week			Exam Hrs.	Maximum Marks		
		L	T	P		*I.A.	Exam	Total
A. Theory Papers								
5EC1	Signals & Systems	3	1	-	3	20	80	100
5EC2	Linear Integrated Circuits	3	1	-	3	20	80	100
5EC3	Telecommunication Engg.	3	0	-	3	20	80	100
5EC4	Analog Communication	3	1	-	3	20	80	100
5EC5	Microwave Engg. -I	3	0	-	3	20	80	100
5EC6	Elective (any one of the following)	3	0	-	3	20	80	100
5EC6.1	Biomedical Instrumentation							
5EC6.2	Advanced Data Structures							
5EC6.3	Computer Oriented Numerical & Statistical Methods							
B. Practical & Sessional :								
5EC7	Electronic Engineering Design Lab	-	-	3	-	60	40	100
5EC8	Microwave Engg. Lab	-	-	3	-	45	30	75
5EC9	Communication Lab-I	-	-	3	-	60	40	100
5EC10	Signal Processing Lab-I	-	-	2	-	45	30	75
5ECDC	Discipline & Extra Curricular activities :					-	-	50
	GRAND TOTAL	18	3	11	-	-	-	1000

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Year : III

Semester : VI

Code	Subject	Hrs./week			Exam Hrs.	Maximum Marks		
		L	T	P		*I.A.	Exam	Total
A. Theory Papers								
6EC1	Microwave Engg.-II	3	1	-	3	20	80	100
6EC2	Microprocessor and Microcontroller	3	0	-	3	20	80	100
6EC3	Industrial Electronics	3	0	-	3	20	80	100
6EC4	Digital Communication	3	1	-	3	20	80	100
6EC5	Control Systems	3	1	-	3	20	80	100
6EC6	Elective (any one of the following)	3	0	-	3	20	80	100
6EC6.1	Neural Networks							
6EC6.2	Parallel Computation & Architecture							
6EC6.3	Optimization Techniques							
B. Practical & Sessional :								
6EC7	Communication Lab-II	-	-	3	-	60	40	100
6EC8	Microprocessor Lab	-	-	3	-	60	40	100
6EC9	Unix Shell Programming Lab	-	-	3	-	45	30	75
6EC10	Industrial Electronics Lab	-	-	2	-	45	30	75
6ECDC	Discipline & Extra Curricular activities :					-	-	50
	GRAND TOTAL	18	3	11	-	-	-	1000

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Year : IV

Semester : VII

Code	Subject	Hrs./week			Exam Hrs.	Maximum Marks		
		L	T	P		*I.A.	Exam	Total
A. Theory Papers								
7EC1	Antenna & Wave Propagation	3	1	-	3	20	80	100
7EC2	Digital Signal Processing	3	1	-	3	20	80	100
7EC3	Wireless Communication	3	1	-	3	20	80	100
7EC4	IC Technology	3	0	-	3	20	80	100
7EC5	VLSI Design	3	1	-	3	20	80	100
7EC6	Elective (any one of the following)	3	0	-	3	20	80	100
7EC6.1	Advanced Microprocessors							
7EC6.2	Artificial Intelligence and Expert Systems							
7EC6.3	Operating System							
B. Practical & Sessional :								
7EC7	Signal Processing Lab-II	-	-	3	-	60	40	100
7EC8	Wireless Communication Lab	-	-	3	-	60	40	100
7EC9	Practical Training Seminar & Industrial Visit	-	-	2	-	60	40	100
7EC10	Project (Stage I)	-	-	2	-	50	-	50
7ECDC	Discipline & Extra Curricular activities:					-	-	50
	GRAND TOTAL	18	4	10	-	-	-	1000

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Semester : VIII

Code	Subject	Hrs./week			Exam Hrs.	Maximum Marks		
		L	T	P		*I.A.	Exam	Total
A. Theory Papers								
8EC1	Computer Networks	3	1	-	3	20	80	100
8EC2	Radar & TV Engineering	3	1	-	3	20	80	100
8EC3	Optical Communication	3	1	-	3	20	80	100
8EC4	Elective (any one of the following)	3	0	-	3	20	80	100
8EC4.1	Image Processing and Pattern Recognition							
8EC4.2	VHDL							
8EC4.3	Microcontroller and Embedded Systems							
B. Practical & Sessional :								
8EC5	Computer Network Programming Lab	-	-	3	-	45	30	75
8EC6	Industrial Economics & Management.	-	-	2	-	45	30	75
8EC7	VLSI & Optical Fiber Lab	-	-	3	-	60	40	100
8EC8	Project(Stage-II)	-	-	4	-	120	80	200
8EC9	Seminar	-	-	2	-	60	40	100
8ECDC	Discipline & Extra Curricular activities :					-	-	50
	GRAND TOTAL	12	3	14	-	-	-	1000

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