

Rajasthan Technical University, KOTA
B.Tech. (Effective from 12-13)

BRANCH CODE	EC	EC					
Course Code	ELECTRONICS AND COMMUNICATION ENGG	Hrs. / Week					
SEMESTER III	Title	L	T	P	IA	Exam	Total
3EC1A	Electronic Devices & Circuits	3	0		20	80	100
3EC2A	Data Structures & Algorithms	3	0		20	80	100
3EC3A	Digital Electronics	3	0		20	80	100
3EC4A	Circuit Analysis & Synthesis	3	1		20	80	100
3EC5A	Electromagnetic Properties Of Materials	3	0		20	80	100
3EC6A	Advanced Engineering Mathematics-I	3	1		20	80	100
	Total						600
3EC7A	Electronic Instrumentation Workshop			2	45	30	75
3EC8A	Computer Programming Lab-I			2	45	40	75
3EC9A	Electronic Device Lab			2	45	40	75
3EC10A	Digital Electronics Lab			2	45	30	75
3EC11A	Business Entrepreneurship			2	30	20	50
3ECDCA	Discipline & Extra Curricular Activity						50
	Total						400
	Grand Total	18	2	10			1000

BRANCH CODE	EC	EC					
Course Code	ELECTRONICS AND COMMUNICATION ENGG	Hrs. / Week					
SEMESTER - IV	Title	L	T	P	IA	Exam	Total
4EC1A	Analog Electronics	3	0		20	80	100
4EC2A	Random Variables & Stochastic Processes	3	1		20	80	100
4EC3A	Electronic Measurement & Instrumentation	3	0		20	80	100
4EC4A	Electromagnetic Field Theory	3	1		20	80	100
4EC5A	Optimization Techniques	3	1		20	80	100
4EC6A	Advanced Engineering Mathematics-II	3	1		20	80	100
	Total						600
4EC7A	Computer Programming Lab-II			2	60	40	100
4EC8A	Analog Electronics Lab			2	60	40	100
4EC9A	Measurement & Instrumentation Lab			2	60	40	100
4EC10A	Humanities & Social Sciences			2	30	20	50
4ECDCA	Discipline & Extra Curricular Activity						50
	Total						400
	Grand Total	18	4	8			1000

BRANCH CODE	EC						
Course Code	ELECTRONICS AND COMMUNICATION ENGG	Hrs. / Week					
SEMESTER - V	Title	L	T	P	IA	Exam	Total
5EC1A	Signals & Systems	3	1		20	80	100
5EC2A	Linear Integrated Circuits	3	0		20	80	100
5EC3A	Telecommunication Engg.	3	0		20	80	100
5EC4A	Analog Communication	3	1		20	80	100
5EC5A	Microwave Engg. -I	3	0		20	80	100
5EC6A	Elective (any one of the following)						
5EC6.1A	Biomedical Instrumentation	3	0		20	80	100
5EC6.2A	Advanced Data Structures						
5EC6.3A	Computer Oriented Numerical & Statistical Methods						
	Total						600
5EC7A	Electronic Engineering Design Lab			2	45	30	75
5EC8A	Microwave Engg. Lab			2	45	30	75
5EC9A	Communication Lab-I			2	45	30	75
5EC10A	Signal Processing Lab			2	45	30	75
5EC11A	Professional Ethics and Disaster Management			2	30	20	50
5ECDCA	Discipline & Extra Curricular Activity						50
	Total						400
	Grand Total	18	2	10			1000

BRANCH CODE	EC						
Course Code	ELECTRONICS AND COMMUNICATION ENGG	Hrs. / Week					
SEMESTER - VI	Title	L	T	P	IA	Exam	Total
6EC1A	Microwave Engg.-II	3	1		20	80	100
6EC2A	Microprocessors	3	0		20	80	100
6EC3A	Industrial Electronics	3	0		20	80	100
6EC4A	Digital Communication	3	1		20	80	100
6EC5A	Control Systems	3	0		20	80	100
6EC6A	Elective (any one of the following)						
6EC6.1A	Neural Networks	3	0		20	80	100
6EC6.2A	Parallel Computation & Architecture						
6EC6.3A	Optical Fiber Communication						
	Total						600
6EC7A	Communication Lab-II			3	45	30	75
6EC8A	Microprocessor Lab			2	45	30	75
6EC9A	RF Simulation Lab			3	45	30	75
6EC10A	Industrial Electronics Lab			2	45	30	75
6EC11A	Personality Development & General Aptitude			2	30	20	50
6ECDCA	Discipline & Extra Curricular Activity						50
	Total						400
	Grand Total	18	2	10			1000

Rajasthan Technical University, KOTA
B.Tech. (Effective from 12-13)

BRANCH CODE	EC						
Course Code	ELECTRONICS AND COMMUNICATION ENGG	Hrs. / Week					
SEMESTER - VII		L	T	P	IA	Exam	Total
7EC1A	Antenna & Wave Propagation	3	0		20	80	100
7EC2A	Digital Signal Processing	3	1		20	80	100
7EC3A	Digital Image Processing	3	1		20	80	100
7EC4A	Wireless Communication	3	0		20	80	100
7EC5A	VLSI Design	3	0		20	80	100
7EC6A	Elective (any one of the following)						
7EC6.1A	Advanced Microprocessors	3	0		20	80	100
7EC6.2A	Artificial Intelligence and Expert Systems						
7EC6.3A	VHDL						
	Total						600
7EC7A	Signal & Image Processing Lab			3	60	40	100
7EC8A	Wireless Communication Lab			3	60	40	100
7EC9A	Practical Training & Industrial Visit			2	60	40	100
7EC10A	Project-I			2	50		50
7ECDCA	Discipline & Extra Curricular Activity						50
	Total						400
	Grand Total	18	2	10			1000

BRANCH CODE	EC						
Course Code	ELECTRONICS AND COMMUNICATION ENGG	Hrs. / Week					
SEMESTER - VIII		L	T	P	IA	Exam	Total
8EC1A	IC Technology	3	0		20	80	100
8EC2A	Radar & TV Engineering	3	1		20	80	100
8EC3A	MEMS and Nanotechnology	3	1		20	80	100
8EC4.1A	Computer Networks	3	0		20	80	100
8EC4.2A	Operating Systems						
8EC4.3A	Microcontroller and Embedded Systems						
	Total						400
8EC5A	RF Fabrication Lab			3	60	40	100
8EC6A	Industrial Economics & Management.			2	30	20	50
8EC7A	VLSI & Optical Fiber Lab			3	60	40	100
8EC8A	Project -II			4	120	80	200
8EC9A	Seminar			2	60	40	100
8ECDCA	Discipline & Extra Curricular Activity						50
	Total						600
	Grand Total	12	2	14			1000