



Raffles University, Neemrana
School of Engineering and Technology
Department of Electronics and Communication Engineering

Scheme of Courses for B.Tech (Batch 2013-2017) in Electronics and Communication Engineering

Year: II

Semester: III

Code	Subject	Hrs / Week			Maximum		Total	Credits
		L	T	P	IA	Exam		
3EC1A	Electronic Devices & Circuits	3	1	0	20	80	100	4
3EC2A	Data Structure & Algorithms	3	0	0	20	80	100	3
3EC3A	Digital Electronics	3	0	0	20	80	100	3
3EC4A	Circuit Analysis & Synthesis	3	1	0	20	80	100	4
3EC5A	Electromagnetic Properties of Materials	3	0	0	20	80	100	3
3EC6A	Advance Engineering Mathematics-I	3	1	0	20	80	100	4
3EC7A	Electronic Instrumentation Workshop	0	0	2	45	30	75	1
3EC8A	Computer Programming Lab-I	0	0	3	45	30	75	2
3EC9A	Electronic Device Lab	0	0	2	45	30	75	1
3EC10A	Digital Electronics Lab	0	0	2	45	30	75	1
3EC11A	Business Entrepreneurship	0	0	2	30	20	50	1
3ECDC	Discipline & Extra Curricular Activity						50	1
Total		32					1000	28



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Year: II

Semester: IV

Code	Subject	Hrs / Week			Maximum Marks		Total	Credits
		L	T	P	IA	Exam		
4EC1A	Analog Electronics	3	1	0	20	80	100	4
4EC2A	Random Variables & Stochastic Processes	3	1	0	20	80	100	4
4EC3A	Electronic Measurement & Instrumentation	3	0	0	20	80	100	3
4EC4A	Electromagnetic Field Theory	3	1	0	20	80	100	4
4EC5A	Optimization Techniques	3	0	0	20	80	100	3
4EC6A	Advanced Engineering Mathematics-II	3	1	0	20	80	100	4
4EC7A	Computer Programming Lab-II	0	0	3	60	40	100	2
4EC8A	Analog Electronics Lab	0	0	3	60	40	100	2
4EC9A	Measurement & Instrumentation Lab	0	0	2	60	40	100	1
4EC10A	Humanities & Social Sciences	0	0	2	30	20	50	1
4ECDC	Discipline & Extra Curricular Activity						50	1
Total		32					1000	29



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Year: III

Semester: V

Code	Subject	Hrs / Week			Maximum Marks		Total	Credits
		L	T	P	IA	Exam		
5EC1A	Signals & Systems	3	1	0	20	80	100	4
5EC2A	Linear Integrated Circuits	3	1	0	20	80	100	4
5EC3A	Telecommunication Engg.	3	0	0	20	80	100	3
5EC4A	Analog Communication	3	1	0	20	80	100	4
5EC5A	Microwave Engg. –I	3	0	0	20	80	100	3
5EC6A	Elective (any one of the following)							
5EC6.1A	Biomedical Instrumentation	3	0	0	20	80	100	3
5EC6.2A	Advanced Data Structures							
5EC6.3A	Computer Oriented Numerical & Statistical Methods							
5EC7A	Electronic Engineering Design Lab	0	0	2	45	30	75	1
5EC8A	Microwave Engg. Lab	0	0	2	45	30	75	1
5EC9A	Communication Lab-I	0	0	3	45	30	75	2
5EC10A	Signal Processing Lab-I	0	0	2	45	30	75	1
5EC11A	Professional Ethics and Disaster Management	0	0	2	30	20	50	1
5ECDC	Discipline & Extra Curricular Activity						50	1
Total		32					1000	28



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Year: III

Semester: VI

Code	Subject	Hrs / Week			Maximum Marks		Total	Credits
		L	T	P	IA	Exam		
6EC1A	Microwave Engg.-II	3	1	0	20	80	100	4
6EC2A	Microprocessor and Microcontroller	3	0	0	20	80	100	3
6EC3A	Industrial Electronics	3	0	0	20	80	100	3
6EC4A	Digital Communication	3	1	0	20	80	100	4
6EC5A	Control Systems	3	0	0	20	80	100	3
6EC6A	Elective (any one of the following)							
6EC6.1A	Neural Networks	3	0	0	20	80	100	3
6EC6.2A	Parallel Computation & Architecture							
6EC6.3A	Sensor Technology							
6EC7A	Communication Lab-II	0	0	3	45	30	75	2
6EC8A	Microprocessor Lab	0	0	2	45	30	75	1
6EC9A	RF Simulation Lab	0	0	3	45	30	75	2
6EC10A	Industrial Electronics Lab	0	0	3	45	30	75	2
6EC11A	Personality Development & General Aptitude	0	0	2	30	20	50	1
6ECDC	Discipline & Extra Curricular Activity						50	1
Total		33					1000	29



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Year: IV

Semester: VII

Code	Subject	Hrs / Week			Maximum Marks		Total	Credits
		L	T	P	IA	Exam		
7EC1A	Antenna & Wave Propagation	3	1	0	20	80	100	4
7EC2A	Digital Signal Processing	3	1	0	20	80	100	4
7EC3A	Wireless Communication	3	1	0	20	80	100	4
7EC4A	IC Technology	3	0	0	20	80	100	3
7EC5A	VLSI Design	3	1	0	20	80	100	4
7EC6A 7EC6.1A 7EC6.2A 7EC6.3A	Elective (any one of the following) Advanced Microprocessors Artificial Intelligence and Expert System Operating System	3	0	0	20	80	100	3
7EC7A	Signal Processing Lab-II	0	0	3	60	40	100	2
7EC8A	Wireless Communication Lab	0	0	3	60	40	100	2
7ECTR	Practical Training & Industrial Visit	0	0	2	60	40	100	2
7ECPR	Project-I	0	0	2	50		50	2
7ECDC	Discipline & Extra Curricular Activity						50	1
Total		32					1000	31



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Year: IV

Semester: VIII

Code	Subject	Hrs / Week			Maximum Marks		Total	Credits
		L	T	P	IA	Exam		
8EC1A	Image Processing and Pattern Recognition	3	1	0	20	80	100	4
8EC2A	Radar & TV Engineering	3	1	0	20	80	100	4
8EC3A	Optical Communication	3	1	0	20	80	100	4
8EC4A	Elective (any one of the following)							
8EC4.1A	Computer Networks	3	0	0	20	80	100	3
8EC4.2A	VHDL							
8EC4.3A	Microcontroller and Embedded Systems							
8EC5A	RF Fabrication Lab	0	0	3	60	40	100	2
8EC6A	Industrial Economics & Management.	0	0	2	30	20	50	1
8EC7A	VLSI & Optical Fiber Lab	0	0	3	60	40	100	2
8ECPR	Project-II	0	0	4	120	80	200	6
8ECSM	Seminar	0	0	2	60	40	100	1
8ECDC	Discipline & Extra Curricular Activity						50	1
Total		29					1000	28