



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

Scheme for B.Tech (Batch 2011-2015) in Electronics and Communication Engineering

Year: II

Semester: III

Code	Subject	Hrs / Week			Credits
		L	T	P	
ECE 201	Electronic Devices & Circuits	3	1	0	4
ECE 203	Digital Electronics & Switching Circuit	3	1	0	4
ECE 205	Telecomm. Engg. Fundamental	3	1	0	4
ECE 207	Signals and Systems	3	1	0	4
ECE 209	Graph Theory	2	1	0	3
ECE 211	Electronic Measurement and Instrumentation	3	1	0	4
ECE-P-201	Electronic Device & Circuit Lab	0	0	2	1
ECE-P-203	Digital Electronics & Switching Circuit Lab	0	0	2	1
ECE-P-205	Electronic Measurement and Instrumentation Lab	0	0	2	1
Total Credits					26

Year: II

Semester: IV

Code	Subject	Hrs / Week			Credits
		L	T	P	
MA 200	Advance Engg. Mathematics	3	1	0	4
ECE 202	Analog Electronics	3	1	0	4
ECE 204	Circuit Analysis and Synthesis	3	1	0	4
ECE 206	Data Structures & Algorithms	4	0	0	4
ECE 208	Electromagnetic Field and Theory	3	1	0	4
ECE 210	Electronic Materials & Processes	3	0	0	3
ECE-P-202	Analog Electronics Lab	0	0	3	2
ECE-P-206	Data Structures & Algorithms Lab	0	0	3	2
Total Credits					27



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Year: III

Semester: V

Code	Subject	Hrs / Week			Maximum Marks		Total	Credits
		L	T	P	IA	Exam		
ECE 301	Advance Data Structures	3	1	0	20	80	100	4
ECE 303	Analog Communication	3	1	0	20	80	100	4
ECE 305	Antenna and Wave Propagation	3	1	0	20	80	100	4
ECE 307	Control System	3	1	0	20	80	100	4
ECE 309	Liner Integrated Circuits	3	1	0	20	80	100	4
ECE 311	Microwave Engg. -I	3	1	0	20	80	100	4
ECE-P-301	Computer Programming Lab	0	0	2	60	40	100	1
ECE-P-303	Communication Lab-I	0	0	2	60	40	100	1
ECE-P-309	Electronic Engineering Design Lab	0	0	2	60	40	100	1
ECE-P-311	Microwave Engg. Lab	0	0	2	60	40	100	1
ECETR-313	Practical Training & Industrial Visit							2
Total		32					1000	30

Year: III

Semester: VI

Code	Subject	Hrs / Week			Maximum Marks		Total	Credits
		L	T	P	IA	Exam		
ECE 302	Digital Communication	3	1	0	20	80	100	4
ECE 304	Industrial Electronics	3	1	0	20	80	100	3
ECE 306	Micro-Electronics	3	1	0	20	80	100	4
ECE 308	Microprocessor and Microcontroller	3	1	0	20	80	100	4
ECE 310	Microwave Engg.-II	3	1	0	20	80	100	4
ECE 312	Elective (any one of the following)							
	312.1 Neural Networks	3	1	0	20	80	100	3
	312.2 Parallel Computation & Architecture							
	312.3 Sensor Technology							
ECE-P-302	Communication Lab-II	0	0	3	60	40	100	2
ECE-P-304	Industrial Electronics Lab	0	0	2	60	40	100	1
ECE-P-308	Microprocessor Lab	0	0	3	60	40	100	2
ECE 314	Personality Development & General Aptitude	0	0	2	30	20	50	1
ECE 316	Discipline & Extra Curricular Activity						50	1
Total		34					1000	29



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Year: IV

Semester: VII

Code	Subject	Hrs / Week			Maximum Marks		Total	Credits
		L	T	P	IA	Exam		
ECE 401	Random Variables & Stochastic Processes	3	0	0	20	80	100	3
ECE 403	Digital Signal Processing	3	1	0	20	80	100	4
ECE 405	IC Technology	3	0	0	20	80	100	3
ECE 407	VLSI Design	3	1	0	20	80	100	4
ECE 409	Wireless Communication	3	1	0	20	80	100	4
ECE	Elective (any one of the following) 411.1 Advanced Microprocessors 411.2 Artificial Intelligence and Expert System 411.3 Operating System	3	0	0	20	80	100	3
ECE-P-403	Signal Processing Lab	0	0	3	60	40	100	2
ECE-P-409	Wireless Communication Lab	0	0	3	60	40	100	2
ECE-P-413	Practical Training & Industrial Visit	0	0	2	60	40	100	1
ECE 415	Project-I	0	0	2	50		50	3
ECE 417	Discipline & Extra Curricular Activity						50	1
Total		32					1000	30

Year: IV

Semester: VIII

Code	Subject	Hrs / Week			Maximum Marks		Total	Credits
		L	T	P	IA	Exam		
ECE 402	Image Processing and Pattern Recognition	3	1	0	20	80	100	4
ECE 404	Optical Communication	3	1	0	20	80	100	4
ECE 406	Radar & TV Engineering	3	1	0	20	80	100	4
ECE	Elective (any one of the following) 408.1 Computer Networks 408.2 VHDL 408.3 Microcontroller and Embedded Systems	3	0	0	20	80	100	3
ECE-P-404	VLSI & Optical Fiber Lab	0	0	3	60	40	100	2
ECE-P-410	RF Fabrication Lab	0	0	3	60	40	100	2
ECE 412	Industrial Economics & Management.	0	0	2	30	20	50	1
ECE 414	Project-II	0	0	4	120	80	200	6
ECE 416	Seminar	0	0	2	60	40	100	3
ECE 418	Discipline & Extra Curricular Activity						50	1
Total		29					1000	30