

Second Year B. Tech

Semester-III

Teaching and Evaluation Scheme

Sr. No	Course Code	Course Title	Teaching scheme			Credits	Evaluation Scheme					
			L	T	P		Scheme	Theory Marks		Practical Marks		
								Max	Min for Passing(%)	Max	Min for Passing(%)	
1.	EC2011	Electronic devices and circuits	3	1	0	4	ISE	20	40	40	-	-
							UT1	15			-	-
							UT2	15			-	-
							ESE	50			40	-
2.	EC2031	Analog Communication	3	0	0	3	ISE	20	40	40	-	-
							UT1	15			-	-
							UT2	15			-	-
							ESE	50			40	-
3.	EC2051	Network Theory	3	1	0	4	ISE	20	40	40	-	-
							UT1	15			-	-
							UT2	15			-	-
							ESE	50			40	-
4.	SH2111	Engineering Mathematics -III	4	0	0	4	ISE	20	40	40	-	-
							UT1	15			-	-
							UT2	15			-	-
							ESE	50			40	-
5.	EC2071	C++ Programming	2	0	2	3	ISE	-	-	-	50	50
							ESE	-	-	-	50	50
6.	EC2511	Basic Electronics Lab	0	0	2	1	ISE	-	-	-	50	50
							ESE				50	50
7.	EC2531	Analog Communication Lab	0	0	2	1	ISE	-	-	-	50	50
							ESE				50	50
8.	EC2551	Circuit Simulation and PCB design lab	0	0	2	1	ISE	-	-	-	100	50
9.	SH*	Choice based soft skill program	0	0	2	1	ISE	-	-	-	50	50
							ESE	-	-	-	50	50
Total			15	02	10	22						

Total Contact Hrs : - 27

Total Credits : - 22

ESE : - End Semester Examination

ISE: - In Semester Evaluation.

UT: - Unit Test

Second Year B. Tech
Semester-IV
Teaching and Evaluation Scheme

Sr. No	Course Code	Course Title	Teaching scheme			Credits	Evaluation Scheme					
			L	T	P		Scheme	Theory (Marks %)		Practical (Marks %)		
								Max	Min for Passing	Max	Min for Passing	
1.	EC2021	Signals & Systems	3	1	0	4	ISE	20	40	40	-	-
							UT1	15			-	-
							UT2	15			-	-
							ESE	50			-	-
2.	EC2041	Digital Design & Verilog HDL	3	0	0	3	ISE	20	40	40	-	-
							UT1	15			-	-
							UT2	15			-	-
							ESE	50			-	-
3.	EC2061	Linear integrated circuits	3	0	0	3	ISE	20	40	40	-	-
							UT1	15			-	-
							UT2	15			-	-
							ESE	50			-	-
4.	EC2081	Control System	3	0	0	3	ISE	20	40	40	-	-
							UT1	15			-	-
							UT2	15			-	-
							ESE	50			-	-
5.	EC2101	Electronics Measurement & Instrumentation	3	0	0	3	ISE	20	40	40	-	-
							UT1	15			-	-
							UT2	15			-	-
							ESE	50			-	-
6.	SH2011	Environmental Science	1	0	0	1	ISE	20	40	40	-	-
							UT1	15			-	-
							UT2	15			-	-
							ESE	50			-	-
7.	EC2521	Digital Design & Verilog HDL Lab	0	0	2	1	ISE	-	-	-	50	50
							ESE	-	-	-	50	50
8.	EC2541	Linear integrated circuits Lab	0	0	2	1	ISE	-	-	-	50	50
							ESE	-	-	-	50	50
9.	EC2561	Programming lab - II	0	0	2	1	ISE	-	-	-	50	50
							ESE	-	-	-	50	50
10.	EC2581	Mini Project (Environmental Science)	0	0	2	1	ISE	-	-	-	100	50
11.	SH*	Choice based soft skill program	0	0	2	1	ISE	-	-	-	50	50
							ESE	-	-	-	50	50
Total			16	01	10	22						

Total Contact Hrs: - 27
Total Credits : - 22

Choice based soft skill program I and II				
Personal Effectiveness and Body Language Lab (SH 254)	Interpersonal Skills Lab (SH 255)	Leadership and Public Speaking Lab(SH 256)	Corporate Competency Lab(SH 257)	Introduction to English Literature (SH 258)

***Note:** Every student has to register for any one of the courses (SH254 to SH258) of choice based soft skill program in IIIrd & IVth Semester.

K.E. Society's
Rajarambapu Institute of Technology, Rajaramnagar
Department of Electronics & Telecommunication Engineering
Third Year B. Tech
Semester V

Course code	Course	Teaching scheme				Evaluation Scheme					
		L	T	P	Credits	Scheme	Theory (Marks %)		Practical (Marks %)		
							Max	Min for passing	Max	Min for passing	
EC3011	Electromagnetic Field Theory	3	1	0	4	ISE	20	40	40	-	-
						UT1	15				
						UT2	15				
						ESE	50	40			
EC3031	Electronics Communication System	3	0	0	3	ISE	20	40	40	-	-
						UT1	15				
						UT2	15				
						ESE	50	40			
EC3051	CMOS Digital Integrated Circuit Design	4	0	0	4	ISE	20	40	40	-	-
						UT1	15				
						UT2	15				
						ESE	50	40			
EC3071	Digital Signal Processing	3	1	0	4	ISE	20	40	40	-	-
						UT1	15				
						UT2	15				
						ESE	50	40			
EC3091	Microcontroller	4	0	0	4	ISE	20	40	40	-	-
						UT1	15				
						UT2	15				
						ESE	50	40			
EC3511	Electronics Communication System Lab	0	0	2	1	ISE	-	-	-	50	50
						ESE	-	-	-	50	50
EC3531	CMOS Digital Integrated Circuit Design Lab	0	0	2	1	ISE	-	-	-	50	50
						ESE	-	-	-	50	50
EC3551	Microcontroller Lab	0	0	2	1	ISE	-	-	-	50	50
						ESE	-	-	-	50	50
EC3571	Digital signal processing lab	0	0	2	1	ISE	-	-	-	50	50
						ESE	-	-	-	50	50
						ESE	-	-	-	50	50
SH3191	Scholastic Aptitude I	1	0	2	2	ISE	-	-	-	50	50
						ESE	-	-	-	50	50
Total		18	02	10	25						

Total Contact Hours/Week = 30

Total Number of Credits = 25

NOTE: Student should undergo scholastic aptitude II training after completion of Vth semester

K.E. Society's
Rajarambapu Institute of Technology, Rajaramnagar
Department of Electronics & Telecommunication Engineering
Third Year B. Tech
Semester VI

Course code	Course	Teaching scheme				Evaluation Scheme					
		L	T	P	Credits	Scheme	Theory (Marks)			Practical (Marks)	
							Max	Min for passing(%)		Max	Min for passing(%)
EC3021	Antenna & wave propagation	4	0	0	4	ISE	20	40	40	-	-
						UT1	15				
						UT2	15				
						ESE	50	40			
EC3041	Mixed Mode Controller	3	0	0	3	ISE	20	40	40	-	-
						UT1	15				
						UT2	15				
						ESE	50	40			
EC3061	Digital Communication	3	1	0	4	ISE	20	40	40	-	-
						UT1	15				
						UT2	15				
						ESE	50	40			
EC3081	Mobile Communication	3	0	0	3	ISE	20	40	40	-	-
						UT1	15				
						UT2	15				
						ESE	50	40			
EC3101	Industrial Organization and Management	3	0	0	3	ISE	20	40	40	-	-
						UT1	15				
						UT2	15				
						ESE	50	40			
EC3121	Java Programming	2	0	0	2	ISE	100	50	50	-	-
EC3521	Antenna Lab	0	0	2	1	ISE	-	-	-	50	50
						ESE	-	-	-	50	50
EC3541	Mixed Mode Controller Lab	0	0	2	1	ISE	-	-	-	50	50
						ESE	-	-	-	50	50
EC3561	Digital Communication Lab	0	0	2	1	ISE	-	-	-	50	50
						ESE	-	-	-	50	50
EC3581	Mini-project	0	0	2	1	ISE	-	-	-	50	50
						ESE	-	-	-	50	50
SH3222	Scholastic Aptitude II	1	0	2	2	ISE	-	-	-	50	50
						ESE	-	-	-	50	50
Total		19	01	10	25						

Total Contact Hours/Week = 30

Total Number of Credits = 25

NOTE: Student should undergo industrial training after completion of VIth semester

K.E. Society's
Rajarambapu Institute of Technology, Rajaramnagar
Department of Electronics & Telecommunication Engineering
Final Year B. Tech
Semester VII

Course code	Course	Teaching scheme				Evaluation Scheme					
		L	T	P	Credits	Scheme	Theory (Marks)		Practical (Marks)		
							Max	Min for passing (%)	Max	Min for passing (%)	
EC4011	RTOS based Embedded System Design	3	0	0	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15			-	-
						ESE	50	40		-	-
EC4061	Power Electronics	3	0	0	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15			-	-
						ESE	50	40		-	-
EC4031	Computer Communication & Network	3	0	0	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15			-	-
						ESE	50	40		-	-
EC4191	Image Processing	3	0	0	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15			-	-
						ESE	50	40		-	-
PE	Program Elective	3	0	0	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15			-	-
						ESE	50	40		-	-
EC4531	Embedded System Lab	0	0	2	1	ISE	-	-	-	50	50
EC4541	Power Electronics Lab	0	0	2	1	ESE	-	-	-	50	50
						ISE	-	-	-	50	50
EC4511	Computer Network Lab	0	0	2	1	ESE	-	-	-	50	50
						ISE	-	-	-	50	50
EC4551	Industrial Training	0	0	0	2	ISE	100	50	50	-	-
EC4571	Employability Enhancement skill-I	0	0	2	1	ISE	-	-	-	50	50
						ESE	-	-	-	50	50
EC4601	Online Course**	0	0	0	2	ISE	100	40	-	-	-
EC4591/ RE0407/ LL0407/ ED4001	Project Phase I/ URE Phase I/ Internship Phase I ED Phase I/	0	0	2	1	ISE	-	-	-	50	50
Total		15	00	10	24						

Total Contact Hours/Week = 25

Total Number of Credits = 24

***** Industrial Training to be completed after completion of VIth semester examination**

Course Code	Program Elective
EC4111	Biomedical Signal Processing
EC4131	Satellite Communication
EC4151	Wireless Sensor Network and IoT
EC4171	Neural Networks

K.E. Society's
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Final Year B. Tech
Semester VIII
[Option - I]

Conventional Courses with Project

Sr. No.	Course Code	Course Title	Contact Hours			Credits	Evaluation Scheme					
			L	T	P		Scheme	Theory (Mark)		Practical (Marks %)		
								Max	Min for passing (%)	Max	Min for passing	
1.	PE-I	Program Elective-I	3	0	0	3	ISE	20	40	40	-	-
							UT1	15				
							UT2	15				
							ESE	50	40			
2.	PE-II	Program Elective-II	3	1	0	4	ISE	20	40	40	-	-
							UT1	15				
							UT2	15				
							ESE	50	40			
3.	IE-I	Open Elective-I	3	0	0	3	ISE	20	40	40	-	-
							UT1	15				
							UT2	15				
							ESE	50	40			
4.	IE-II	Open Elective-II	3	0	0	3	ISE	20	40	40	-	-
							UT1	15				
							UT2	15				
							ESE	50	40			
5.	PL-I	Program Elective I Laboratory	0	0	2	1	ISE	-	-	-	50	50
							ESE	-	-	-	50	50
6.	EC4581	Project Phase II	0	0	10	10	ISE	-	-	-	50	50
							ESE	-	-	-	50	50
Total			12	01	12	24						

Contact Hours: 25
No of Credits : 24

B. Tech. Semester VIII
Option II
Undergraduate Research Experience (URE)

Sr. No.	Course Code	Course Title	Contact Hours			Credits	Evaluation Scheme					
			L	T	P		Scheme	Theory (Marks)		Practical (Marks %)		
								Max	Min for passing (%)	Max	Min for passing	
1.	REM4001	Research methodology	3	0	2	4	ISE	20	40	40	-	-
							UT1	15				
							UT2	15				
							ESE	50	40			
2.	RE1ECSP RE1ECCM RE1ECES RE1ECVL RE1ECAC	Research Elective I	3	1	0	3	ISE	20	40	50	-	-
							UT1	15				
							UT2	15				
							ESE	50	50			
3.	RE2ECSP RE2ECCM RE2ECES RE2ECVL RE2ECAC	Research related Elective II Self Study/ Online// certification/NPTEL course approved by BOS	3	0	0	3	ISE	20	40	50	-	-
							UT1	15				
							UT2	15				
							ESE	50	50			
4.	RELECS RELECCM RELECES RELECVL RELECAC	Research Laboratory (Elective-1)	0	0	4	2	ISE	-	-	-	50	50
							ESE	-	-	-	50	50
5.	REPRJEC	Research Project	0	0	12	12	ISE	-	-	-	50	50
							ESE	-	-	-	50	50
Total			09	01	18	24						

Contact Hours: 28
No of Credits : 24

B. Tech. Semester VIII
Option – III
Industry Internship and Project

Sr. No.	Course Code	Course Title	Contact Hours			Credits	Evaluation Scheme					
			L	T	P		Scheme	Theory Marks			Practical Marks	
								Max	Min for passing (%)		Max	Min for passing (%)
1.		Self Study /Online Course related to project domain area approved by DPC	-	-	-	2	-	-	-	-	-	-
	IPEEC4002	Internship	-	-	-	10	ISE	50	50	50	-	-
		Project (Individual related technology)	-	-	-	12	ISE	50	50	50	-	-
Total						24						

Contact Hours: 00

No of Credits : 24

**B. Tech. Semester VIII
Option - IV
Entrepreneurship Development**

Sr. No.	Course Code	Course Title	Contact Hours			Credits	Evaluation Scheme					
			L	T	P		Scheme	Theory (Marks)			Practical (Marks)	
								Max	Min for passing (%)		Max	Min for passing (%)
1.	ED4002	Project feasibility Study	3	0	0	3	ISE	20	40	40	-	-
							UT1	15			-	-
							UT2	15			-	-
							ESE	50	40	-	-	
2.	ED4004	Finance for entrepreneurs	2	0	0	2	ISE	20	40	40	-	-
							UT1	15			-	-
							UT2	15			-	-
							ESE	50	40	-	-	
3.	ED4006	Marketing for Entrepreneurs	2	0	0	2	ISE	20	40	40	-	-
							UT1	15			-	-
							UT2	15			-	-
							ESE	50	40	-	-	
4.	ED4008	Entrepreneurship Development Lab	0	0	4	2	ISE	-	-	-	100	50
5.	ED4010	Product/Start up Complete techno economic feasibility assessed by funding agencies and approved for funding	0	0	12	12	ISE	-	-	-	50	50
							ESE	-	-	-	50	50
6.	ED 4012	EDP Program (short term Intensive Program either in house/by any authorized agencies approved by CIIED)	0	0	0	3	ISE	100	50	50	-	-
Total			07	00	16	24						

Contact Hours: 23 No of Credits : 24

PROGRAM ELECTIVE I	
Course code	Course Name
EC4201	System Verilog
EC4101	Embedded Linux
EC4021	Microwave engineering
PROGRAM ELECTIVE II	
Course code	Course Name
EC4161	Machine Vision
EC4121	Biomedical image processing
EC4181	Fuzzy Logic
OPEN ELECTIVE I	
Course code	Course Name
OEC442	Robotics
OPEN ELECTIVE II	
Course code	Course Name
OEC476	Mechatronics
PROGRAM ELECTIVE I LAB	
EC4501	System Verilog Lab
EC4503	Embedded Linux Lab
EC4505	Microwave engineering Lab