



K.E. Society's
Rajarambapu Institute of Technology, Sakharale
(An Autonomous Institute, affiliated to Shivaji University, Kolhapur)
Curriculum Structure and Evaluation Scheme
(2018-19)

Rev: EE Course Structure/RIT/02/2018-19

Department: Electrical Engineering

Class: S. Y. B. Tech

Semester: III

Sr.No	Course Code	Subject Title	Contact Hours			Credits	Scheme	Evaluation Scheme				
			L	T	P			Theory Marks			Practical Marks	
								Max	Min. Passing%	Min. Passing%	Max.	Min Passing %
01	SH2092	Engineering Mathematics –III	3	1	-	4	ISE	20	40	40	--	--
							UT1	15			--	--
							UT2	15	--		--	
							ESE	50	40		--	--
02	EE2012	DC Machines and Transformer	3	-	-	3	ISE	20	40	40	--	--
							UT1	15			--	--
							UT2	15	--		--	
							ESE	50	40		--	--
03	EE2032	Electrical Circuit Analysis	3	1	-	4	ISE	20	40	40	--	--
							UT1	15			--	--
							UT2	15	--		--	
							ESE	50	40		--	--
04	EE2052	Analog Electronics	3	-	-	3	ISE	20	40	40	--	--
							UT1	15			--	--
							UT2	15	--		--	
							ESE	50	40		--	--
05	EE2072	Electrical Measurement and Instrumentation	3	-	-	3	ISE	20	40	40	--	--
							UT1	15			--	--
							UT2	15	--		--	
							ESE	50	40		--	--
06	EE2512	DC Machines and Transformer Laboratory	-	-	2	1	ISE	--	--	50	50	
							ESE	--	--	50	50	
07	EE2532	Analog Electronics Lab	-	-	2	1	ISE	--	--	50	50	
							ESE	--	--	50	50	
08	EE2552	Measurement and Instrumentation Lab	-	-	2	1	ISE	--	--	50	50	
							ESE	--	--	50	50	
09	OE-I	Choice Based Soft Skill Program-I (#2)	-	-	2	1	ISE	--	--	50	50	
							ESE	--	--	50	50	
10	SH2172	Environmental Science	1*	-	-	1	ISE	50	40	--	--	
							ESE	50	40	--	--	
11	EE2572	Comprehensive Exam-I	-	-	-	1	ESE	100	40	40	--	--
Total			17	02	08	22						

Total Contact Hours/week: 27 Note*: Department should allot one extra lecture to Environment Science in time table.

Total Credits : 22

Comprehensive Exam Subjects : Engineering Mathematics, DC Machines and Transformer, Electrical Circuit Analysis, Electrical Measurement and Instrumentation, Analog Electronics

ISE = In Semester Exam, MSE (UT1+UT2) UT-I = Unit Test-I, UT-II = Unit Test-II, ESE = End Semester Exam

Choice Based Soft Skill Program - I

- | | |
|--|--|
| 1. SH2592 - Personal Effectiveness and Body Language | 4. SH2692 – Innovation Tools & Methods for Entrepreneurs |
| 2. SH2612 - Interpersonal Skills- Work-life Balance | 5. SH2732 – German Language – Basic Level |
| 3. SH2632 - Leadership and Public Speaking | 6. SH2712- Japanese Language – Basic Level |





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Rev: EE Course Structure/RIT/02/2018-19

Department: Electrical Engineering

Class: S.Y.B. Tech

Semester: IV

Sr.No	Course Code	Subject Title	Contact Hours			Credits	Evaluation Scheme					
			L	T	P		Scheme	Theory Marks			Practical Marks	
								Max	Min. Passing%	Min. Passing%	Max.	Min Passing %
01	EE2022	AC Machines	3	-	-	3	ISE	20	40	40	--	--
							UT1	15			--	--
							UT2	15	--		--	
							ESE	50	40		--	--
02	EE2042	Power System Transmission and Distribution	3	-	-	3	ISE	20	40	40	--	--
							UT1	15			--	--
							UT2	15	--		--	
							ESE	50	40		--	--
03	EE2062	Digital Electronics	3	-	-	3	ISE	20	40	40	--	--
							UT1	15			--	--
							UT2	15	--		--	
							ESE	50	40		--	--
04	EE2082	Signal Processing for Electrical Engineering	3	-	-	3	ISE	20	40	40	--	--
							UT1	15			--	--
							UT2	15	--		--	
							ESE	50	40		--	--
05	CE2262	Engineering Mechanics	2	-	-	2	ISE	20	40	40	--	--
							UT1	15			--	--
							UT2	15	--		--	
							ESE	50	40		--	--
06	EE2522	AC Machines Lab	-	-	2	1	ISE	20	40	40		
							UT1	15				
							UT2	15				
							ESE	50				
07	EE2542	Digital Electronics Lab	-	-	2	1	ISE	--	--		50	50
							ESE	--	--		50	50
08	EE2562	Computer Programming Lab	-	-	2	1	ISE	--	--		50	50
							ESE	--	--		50	50
09	CE2282	Engineering Mechanics Lab	-	-	2	1	ISE	--	--		50	50
							ESE	--	--		50	50
10	SH2602	Environmental Project	-	-	2	1	ISE	--	--		100	50
11	OE-II	Choice Based Soft Skill Program-II (#2)	-	-	2	1	ISE	--	--		100	50
12	EE2582	Comprehensive Exam-II	-	-	-	1	ESE	100	40	40	--	--
		Filed Training # 1(4 weeks)	-	-	-	-	-	-	-	-	-	-
Total			14	00	12	21						

Total Contact Hours/week : 26

Total Credits : 21

Comprehensive Exam Subjects : AC Machines, Digital Electronics, Signal Processing for Electrical Engineering





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Choice Based Soft Skill Program - II	
1. SH2592 - Personal Effectiveness and Body Language	4. SH2692 – Innovation Tools & Methods for Entrepreneurs
2. SH2612 - Interpersonal Skills- Work-life Balance	5. SH2642 – German Language – Advanced Level
3. SH2632 - Leadership and Public Speaking	6. SH2622- Japanese Language – Advanced Level

Note:

1. A student has to complete any two courses out of six choices offered under Choice Based Soft Skills Programme. A course in each semester will be allocated without any repetition.
2. The students who have completed 'German Language Lab' or 'Japanese Language Lab' in F.Y.B.Tech should not give their choice for 'German Language – Basic Level' and 'Japanese Language – Basic Level'. Such students may give their choices for 'German Language – Advanced Level' and 'Japanese Language – Advanced Level' (batch sizes 40 each) in the SY B.Tech Sem-IV only.
3. The students who will select and will successfully complete 'German Language – Basic Level' and 'Japanese Language – Basic Level' in SY B.Tech Sem-III will by default (mandatorily) appear for Advance Levels of said courses in Semester-IV.





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Department: Electrical Engineering

Class : T.Y.B. Tech

Semester: V

Sr.No	Course Code	Subject Title	Contact Hours			Credits	Evaluation Scheme					
			L	T	P		Scheme	Theory Marks			Practical Marks	
								Max	Min. Passing %	Min. Passing %	Max.	Min Passing %
01	EE3012	Electromagnetic Fields	3	1	-	4	ISE	20	40	40	--	--
							UT1	15			--	--
							UT2	15			--	--
							ESE	50			40	--
02	EE3032	Power System Analysis	3	1	-	4	ISE	20	40	40	--	--
							UT1	15			--	--
							UT2	15			--	--
							ESE	50			40	--
03	EE3052	Control Systems	3	-	-	3	ISE	20	40	40	--	--
							UT1	15			--	--
							UT2	15			--	--
							ESE	50			40	--
04	EE3072	Microprocessors and Microcontroller	3	-	-	3	ISE	20	40	40	--	--
							UT1	15			--	--
							UT2	15			--	--
							ESE	50			40	--
05		Program Elective – I	3	-	-	3	ISE	20	40	40	--	--
							UT1	15			--	--
							UT2	15			--	--
							ESE	50			40	--
06	EE3512	Modeling and Simulation Software Lab	-	-	2	1	ISE	--	--		50	50
							ESE	--	--		50	50
07	EE3532	Control Systems Lab	-	-	2	1	ISE	--	--		50	50
							ESE	--	--		50	50
08	EE3552	Microprocessors and Microcontroller Lab	-	-	2	1	ISE	--	--		50	50
							ESE	--	--		50	50
09	SH3032	Aptitude Training - I	2*	-	-	2	ISE	20	40	40	-	-
							UT1	15				
							UT2	15				
							ESE	50				
10	EE3572	Summer Internship Evaluation	-	-	-	2	ISE	--	--		100	50
11	SH3012	Constitution of India	2	-	-	Audit	ISE	100	50		--	--
12	EE3592	Comprehensive Exam-III	-	-	-	1	ESE	100	40	40	--	--
Total			18	02	08	25						

Total Contact Hours/week: 28 Note*: Department should allot one extra lecture to Aptitude Training -I in time table

Total Credits : 25

Comprehensive Exam Subjects: Electromagnetic Fields, Power System Engineering, Microprocessors and Microcontrollers, Control Systems

ISE = In Semester Exam, MSE (UT1+UT2) UT-I = Unit Test-I, UT-II = Unit Test-II ESE = End Semester Exam





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Rev: EE Course Structure/RIT/02/2018-19

Program Elective-I

Sr. No.	Course Code	Domain	Course
1	EE3092	Power and Energy Systems	Energy Storages
2	EE3112		Electrical Utilization and Traction
3	EE3132	Drives and Control	Digital Signal Processing
4	EE3152		Electrical Machine Design





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Rev: EE Course Structure/RIT/02/2018-19

Department: Electrical Engineering

Class: T. Y. B. Tech

Semester: VI

Sr.No	Course Code	Subject Title	Contact Hours			Credits	Evaluation Scheme					
			L	T	P		Scheme	Theory Marks			Practical Marks	
								Max	Min. Passing%	Min. Passing%	Max.	Min Passing %
01	EE3022	Power System Operation and Control	3	-	-	3	ISE	20	40	40	--	--
							UT1	15			--	--
							UT2	15			--	--
							ESE	50			--	--
02	EE3042	Power System Protection	3	-	-	3	ISE	20	40	40	--	--
							UT1	15			--	--
							UT2	15			--	--
							ESE	50			--	--
03	EE3062	Power Electronics	3	-	-	3	ISE	20	40	40	--	--
							UT1	15			--	--
							UT2	15			--	--
							ESE	50			--	--
04		Program Elective – II	3	-	-	3	ISE	20	40	40	--	--
							UT1	15			--	--
							UT2	15			--	--
							ESE	50			--	--
05	SH3022	Biology for Engineers	3	-	-	3	ISE	20	40	40	--	--
							UT1	15			--	--
							UT2	15			--	--
							ESE	50			--	--
06	EE3522	Power Systems Operation and Control Laboratory	-	-	2	1	ISE	--	--	--	50	50
							ESE	--	--	--	50	50
07	EE3542	Power Electronics Laboratory	-	-	2	1	ISE	--	--	--	50	50
							ESE	--	--	--	50	50
08	SH3052	Aptitude Training-II	2*	-	2	2	ISE	20	40	40	-	-
							UT1	15			-	-
							UT2	15			-	-
							ESE	50			-	-
09	EE3562	Comprehensive Exam-IV	-	-	-	1	ESE	100	40	40	--	--
Total			16	00	06	20						

Total Contact Hours/week : 22 Note*: Department should allot one extra lecture to Aptitude Training -II in time table

Total Credits : 20

Comprehensive Exam Subjects: Power System Operation and Control, Power Electronics, Power System Protection

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Rev: EE Course Structure/RIT/02/2018-19

Program Elective-II

Sr. No.	Course Code	Domain	Course
1	EE3082	Power and Energy Systems	Electrical Energy Conservation and Auditing
2	EE3102		High Voltage Engineering
3	EE3122	Drives and Control	Advanced Control Systems
4	EE3142		Application of Microcontrollers in Electrical Engineering





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Department: Electrical Engineering

Class: Final Year B. Tech

Semester: VII

Sr. No	Course Code	Subject Title	Contact Hours			Credits	Evaluation Scheme					
			L	T	P		Scheme	Theory Marks			Practical Marks	
								Max	Min. Passing%	Min. Passing%	Max	Min Passing %
01	EE4012	Electrical Drives	3	-	-	3	ISE	20	40	40	--	--
							UT1	15			--	--
							UT2	15			--	--
							ESE	50			--	--
02	EE4032	Wind and Solar Electrical Systems	2	-	-	2	ISE	20	40	40	--	--
							UT1	15			--	--
							UT2	15			--	--
							ESE	50			--	--
03		Program Elective – III	3	-	-	3	ISE	20	40	40	--	--
							UT1	15			--	--
							UT2	15			--	--
							ESE	50			--	--
04		Program Elective – IV	3	-	-	3	ISE	20	40	40	--	--
							UT1	15			--	--
							UT2	15			--	--
							ESE	50			--	--
05		Open Elective-IV	3	-	-	3	ISE	20	40	40	--	--
							UT1	15			--	--
							UT2	15			--	--
							ESE	50			--	--
06	EE4512	Electrical Drives Lab	-	-	2	1	ISE	--	--	--	50	50
							ESE	--	--	--	50	50
07	EE4532	Wind and Solar Electrical Systems Lab	-	-	2	1	ISE	--	--	--	50	50
							ESE	--	--	--	50	50
08	EE4552	Automation and Control Lab	-	-	2	1	ISE	--	--	--	50	50
							ESE	--	--	--	50	50
09	IP4012	1. IIP Liberal Learning	-	-	2	1	ISE	--	--	--	100	50
	RE4012	2. URE Synopsis										
	ED4012	3. ED Prefeasibility Report										
	EE4572	4. CP Synopsis										
Total			14	-	08	18						

Total Contact Hours/week : 22

Total Credits : 18

ISE = In Semester Exam, MSE (UT1+UT2) UT-I = Unit Test-I, UT-II = Unit Test-II ESE = End Semester Exam





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Program Elective-III

Sr. No.	Course Code	Domain	Course
1	EE4052	Power and Energy Systems	Power System Dynamics and Control
2	EE4072		HVDC Transmission Systems
3	EE4092	Drives and Control	Nonlinear Control Systems
4	EE4112		FACTS Controllers

Program Elective-IV

Sr. No.	Course Code	Domain	Course
1	EE4132	Power and Energy Systems	Smart Grids
2	EE4152		Power Quality and Harmonics
3	EE4172	Drives and Control	Electrical and Hybrid Vehicles
4	EE4192		FPGA DSP Processors

Open Elective-IV

Sr. No.	Course Code	Department	Course
1	OE4172	Electrical; ETC; CSE; Mechanical; Civil; IT; Automobile;	Optimization Techniques
2	OE4192	Electrical; ETC; Mechanical	Electrical Materials





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Curriculum Structure and Evaluation Scheme
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Rev: EE Course Structure/RIT/02/2018-19
Track I: Industry Internship & Projects (IIP)

Department: Electrical Engineering
Class: Final Year B. Tech

Semester: VIII

Sr. No	Course Code	Course	Teaching Scheme			Credits	Evaluation Scheme				
			L	T	P		Scheme	Theory (Marks %)		Practical (Marks %)	
								Max	Min. for passing	Max	Min. for passing
1	IPEE4002	Online Course- I/Self learning course- I	-	-	-	3	ESE*			100	50
2	OE4362	Engineering Management & Economics (Online Course)	-	-	-	2	ESE*			100	50
3	IP4022	Internship & Project	-	-	-	11	ISE			50	50
							ESE			50	50
Total			-	-	-	16					

Total Contact Hours/week : --
Total Credits : 16

ISE = In Semester Evaluation, ESE = End Semester Exam

Note:

- 1] Online or self-learning course may be:
 - A] Online Certification Course
 - B] Self-study course approved by Dean Academics
 All courses should be related to Industry project.
- 2] Engineering Management is Compulsory online course.

*Indicates that, student needs to produce certificate of online or certification course at the time of ESE. If student fails to produce this certificate, he or she will not be eligible to give ESE of Online course.

3] **Weekly Contact hours are not mentioned as student is expected to be in industry regularly for 20 weeks. However, student needs to report to Institute mentors as and when required.**





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Guidelines for subject code of Self-study or online course:

1] XX is abbreviation of the department. Abbreviations are given below.

Mechanical Engineering-ME

Automobile Engineering-AE

Electrical Engineering-EE

Civil Engineering-CE

Information Technology-IT

Computer Science and Engineering-CS

Electronics and Telecommunication Engineering-EC

2] YYY is individual subject number. Department has to decide this number. While giving the number YYY to the subject following care must be taken

A] Number should start with 002

B] It should be even number.





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Track II: Undergraduate Research Experience (URE)

Department: Electrical Engineering
Class: Final Year B. Tech

Semester: VIII

Sr. No	Course Code	Course	Teaching Scheme			Credits	Evaluation Scheme					
			L	T	P		Scheme	Theory (Marks %)		Practical (Marks %)		
								Max	Min. for passing	Max	Min. for passing	
1	RE4022	Research Methodology	3	-	-	3	ISE	20	40	40		
							UT-1	15				
							UT-2	15				
							ESE	50				
2	RE4062	Research Methodology Lab	-	-	2	1	ISE				100	50
3	OE4362	Engineering Management & Economics (Online Course)	-	-	-	2	ESE*				100	50
4	RE4042	Research Project	-	-	10	10	ISE				50	50
							ESE				50	50
Total			3	-	12	16						

Total Contact Hours/week : 15

Total Credits : 16

ISE = In Semester Evaluation, UT-I = Unit Test-I UT-II = Unit Test-II ESE = End Semester Exam

Note:

1] Engineering Management is Compulsory online course.

*For Online Certification course, student needs to produce certificate of online course at the time of ESE. If student fails to produce this certificate, he or she will not be eligible to give ESE of Online course.

All courses should be related to research project.





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Track III: Entrepreneurship Development (ED)

Department: Electrical Engineering
Class: Final Year B. Tech

Semester: VIII

Sr. No	Course Code	Course	Teaching Scheme			Credits	Evaluation Scheme					
			L	T	P		Scheme	Theory (Marks %)		Practical (Marks %)		
								Max	Min. for passing	Max	Min. for passing	
1	ED4102	Project Management	3	-	-	3	ISE	20	40	40		
							UT-1	15				
							UT-2	15				
							ESE	50				
2	ED4042	Commercial Aspects of the Project	3	-	-	3	ISE	20	40	40		
							UT-1	15				
							UT-2	15				
							ESE	50				
3	ED4062	Entrepreneurship Development Programme (EDP)	-	-	-	1	ISE				100	50
4	ED4082	Project Report: Product/startup complete techno economic feasibility assessed by funding agencies and approved for funding	-	-	9	9	ISE				50	50
							ESE				50	
Total			6	-	9	16						

Total Contact Hours/week : 15

Total Credits : 16

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Track IV: Regular Capstone Project (CP)

Department: Electrical Engineering

Class: Final Year B. Tech

Semester: VIII

Course Code	Course	Teaching Scheme				Evaluation Scheme					
		L	T	P	Credits	Scheme	Theory (Marks %)		Practical (Marks %)		
							Max	Min. for passing	Max.	Min. for passing	
	Program Elective-V	3	-	-	3	ISE	20	40	40		
						UT1	15				
						UT2	15				
						ESE	50	40			
	Open Elective-V	3	-	-	3	ISE	20	40	40		
						UT1	15				
						UT2	15				
						ESE	50	40			
OE4362	Engineering Management & Economics (Online Course)	-	-	-	2	ESE*				100	50
EE4522	Capstone Project				8	ISE				50	50
						ESE				50	50
	TOTAL	6	-	08	16						

Total Contact Hours/week : 14

Total Credits : 16

ISE = In Semester Evaluation, UT-I = Unit Test-I, UT-II = Unit Test-II ESE = End Semester Exam

1] Engineering Management is Compulsory online course.

*For Online Certification course, student needs to produce certificate of online course at the time of ESE. If student fails to produce this certificate, he or she will not be eligible to give ESE of Online course

Note: Students will work on Phase-I of choice based track allotted to them.





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Rev: EE Course Structure/RIT/02/2018-19

Program Elective-V

Sr. No.	Course Code	Domain	Course
1	EE4022	Power and Energy Systems	Computer Modelling of Electrical Power System
2	EE4042	Drives and Control	Advanced Power Electronics

Open Elective-V

Sr. No.	Course Code	Department	Course
1	OE4162	Electrical; ETC; CSE; Mechanical; Civil; IT; Automobile;	Finance Management
2	OE4182	Electrical; ETC; Mechanical; Automobile	Electrical Installations and Maintenance





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Credit Comparison for Academic Curriculum 2018-22 with AICTE

Semester	UG AICTE Model curriculum	UG Proposed RIT curriculum
Sem-I	20	20
Sem-II	18	18
Sem-III	20	22
Sem-IV	22	21
Sem-V	21	25
Sem-VI	22	20
Sem-VII	18	18
Sem-VIII	17	16
Total	158	160

Credit Analysis Table for Academic Curriculum 2018-22

RIT vs AICTE Credit

Semester wise Credit distribution

Sl. No.	Topic	I	II	III	IV	V	VI	VII	VIII	RIT Credits	AICTE	% Credits @ RIT	% Credits AICTE
1.	HSMC	2	2	1	1	1			2	09	12	05.63	07.60
2.	BSC	8	8	5	3	1	3			28	26	17.50	16.50
3.	ESC	8	3	3	2	2				18	20	11.25	12.66
4.	PCC			13	14	14	11	8		60	53	37.50	33.54
5.	PEC					3	3	6	3	15	18	09.38	11.40
6.	OEC	2	3			3	3	3	3	17	18	10.63	11.40
7.	PRO		2		1	1		1	8	13	11	08.13	06.96
8.	MC									0	--	00.00	00.00
Total		20	18	22	21	25	20	18	16	160	158	100.00	100.00





K.E. Society's
Rajarambapu Institute of Technology, Sakharale
(An Autonomous Institute, affiliated to Shivaji University, Kolhapur)
Curriculum Structure and Evaluation Scheme
(2018-19)

Rev: EE Course Structure/RIT/02/2018-19

Elective Courses:

Power and Energy Systems	Drives and Control
1. Energy Storages 2. Electrical Utilization and Traction 3. High Voltage Engineering 4. Electrical Energy Conservation and Auditing 5. Power System Dynamics and Control 6. HVDC Transmission Systems 7. Smart Grids 8. Power Quality and Harmonics 9. Computer Modelling of Electrical Power System	1. Digital Signal Processing 2. Electrical Machine Design 3. Advanced Control Systems 4. Application of Microcontrollers in Electrical Engineering 5. Nonlinear control systems 6. FACTS Controllers 7. Electrical and Hybrid Vehicles 8. FPGA DSP Processors 9. Advanced Power Electronics

I] Program Electives

II] Open Electives:

Sr. No.	Course	Semester	Department
1	Optimization Techniques	VII	Electrical; ETC; CSE; Mechanical; Civil; IT; Automobile;
2	Electrical Materials	VII	Electrical; ETC; Mechanical
3	Finance Management	VIII	Electrical; ETC; CSE; Mechanical; Civil; IT; Automobile;
4	Electrical Installations and Maintenance	VIII	Electrical; ETC; Mechanical; Automobile

