

Rajarambapu Institute of Technology, Sakharale

(An Autonomous Institute, affiliated to Shivaji University, Kolhapur)

Curriculum Structure and Evaluation

Implemented from 2018-19

Rev: ETC Engg. Course Structure/RIT/02/2018-19

Department: Electronics and Telecommunication Engineering

Class: S. Y. B. Tech Semester: III

		Tea	ching so	heme		Evaluation	n Scheme				
Course Code	Course Title				its	a	Theory N	Marks		Practica	al Marks
Course Code	Course Title	L	Т	P	Credits	Scheme	Max Marks	Min Pass (%)		Max Marks	Min for Passing (%)
						ISE	20			_	-
EC2012	Electronic Devices	3			3	UT1	15	40	40	-	-
	Dicetionic Bevices		1			UT2	15		40	-	-
						ESE	50	40		-	
						ISE	20			-	-
EC2032	Digital System	3			3	UT1	15	40	40	-	-
	Design					UT2	15		40	-	-
						ESE	50	40		_	-
. 0000						ISE	20			-	-
EC2052	Analog	3			3	UT1	15	40	40	-	-
	Communication					UT2	15		40	-	-
						ESE	50	40		-	-
						ISE	20			-	-
EC2072	Network Theory	3			3	UT1	15	40	40	-	-
2020.2	Theory					UT2	15		40	-	
						ESE	50	40		-	-
						ISE	20			-	_
SH2112	Engineering	3	1			UT1	15	40		-	_
5112112	Mathematics III	3	1		4	UT2	15		40	-	
		lancara and				ESE	50	40		-	
EC2092	Comprehensive Exam I				1	ESE	100	50	-		_
	Electronic Devices					ISE	-	-	-	50	50
EC2112	Lab			2	1	ESE	-	-	-	50	50
EC2132	Digital System Design Lab			2	1	ISE	-	-	-	50	50
						ESE	Late.	-	-	50	50
EC2152	Analog			2	1	ISE	-	-		50	50
202132	Communication Lab				1	ESE	-	-	-	50	50
SH*	Open Elective Choice based Soft Skill			2	1	ISE	-	-	-	50	50
	Program-II					ESE	-	-		50	50
	Total	15	01	08	21						

Total Contact Hours/week

:24

Total Credits

:21

Comprehensive Exam Subjects: Electronic Devices, Digital System Design, Network Theory, Engineering

Mathematics III, Analog Communication

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

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K.E. Society' Rajarambapu Institute of Technology, Sakharale

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Open Elective II &III

Sr. No	Name of Course		Course Code
1		Personal Effectiveness and Body Language	SH2592
2		Interpersonal Skills (Work Life Balance)	SH2612
3	Choice based Soft Skill	Leadership and Public Speaking	SH2632
4	Program-II	Innovation Tools and Method for Entrepreneurs	SH2692
5		German Language -Basic Level	SH2732
6		Japanese language -Basic Level	SH2712
7		German Language -Advanced Level	SH2642
8		Japanese language - Advanced Level	SH2622

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 SYBTech Sem-IV only.
- 3. The students who will select and will successfully complete 'German Language Basic Level' and 'Japanese Language Basic Level' in SYBTech Sem-III will by default (mandatorily) appear for Advance Levels of said courses in Semester-IV.



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Curriculum Structure and Evaluation

Implemented from 2018-19

Rev: ETC Engg. Course Structure/RIT/02/2018-19

Department: Electronics and Telecommunication Engineering

Class: S. Y. B. Tech

Semester: IV

			iching eme			Evaluat	ion Sche	me		emeste	
Course Code	Course Title				dits	مه	Theor	y Marl	ks	Practic	al Marks
Course coue	Course Title	L	Т	P	Credits	Scheme	Max	Min Passi (%)	for	Max	Min for Passing (%)
						ISE	20	, ,		-	-
CE2262	Engineering Mechanics	2			2	UT1	15	40	10	_	-
CELLOL	Engineering weenames	2			2	UT2	15		40	-	-
						ESE	50	40		-	<u> </u>
						ISE	20			-	-
EC2022	Analog Circuits	3			3	UT1	15	40	10	-	-
202022	Timulog Circuits				3	UT2	15		40	-	-
						ESE	50	40		-	-
						ISE	20			-	-
EC2042	Microcontrollers	3			3	UT1	15	40	40	-	-
2020.2	- Tribiocontrollers				3	UT2	15		40	-	-
	,					ESE	50	40		-	-
						ISE	20			-	-
EC2062	Digital Communication	3			3	UT1	15	40	40	-	-
LC2002	Digital Collination	3			3	UT2	15		40	-	-
						ESE	50	40	Cal	-	_
						ISE	20		40	-	 -
EC2082	Cionala and Custam	2			2	UT1	15	40		-	-
EC2082	Signals and System	3			3	UT2	15			-	-
						ESE	50	40			<u> </u>
EC2102	Comprehensive Exam II			0	1	ESE	100	50	-	-	-
CE2282	Engineering Mechanics			1		ISE	-	-	-	50	50
CE2262	Lab			2	1	ESE	-	-	-	50	50
EC2122	Analog Circuits Lab			2	1	ISE	-	-	-	50	50
LCZ1ZZ	Analog Circuits Lao			2	1	ESE	-	-	-	50	50
EC2142	Missassatus II YI.			_		ISE	-	-	_	50	50
EC2142	Microcontrollers Lab			2	1	ESE	-	-	-	50	50
	D					ISE	-	-	_	50	50
EC2162	Digital Communication Lab			2	1	ESE	_		-	50	50
CII*	Open Elective					ISE	-	-	-	50	50
SH*	Choice based Soft Skill Program-III			2	1	ESE	-	-	-	50	50
SH2172	Environmental Science	1*			1	ISE	50	40	10		
5112172		1.			1	ESE	50	40	40	•	-
SH2602	Environmental Science Project			2	1	ISE	-		-	100	50
	Total	15	00	12	22						
		: 27	00	12	44						

Total Contact Hours/week

:27

Total Credits

: 22

2. Students are required to undergo industrial/field training of minimum 4 weeks in the vacation of semester IV, and its evaluation will be carried out in Semester V.

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Open Elective II &III

Sr. No	Name of Course		Course Code
1		Personal Effectiveness and Body Language	SH2592
2		Interpersonal Skills (Work Life Balance)	SH2612
3	Choice base soft Skill	Leadership and Public Speaking	SH2632
4	Program-III	Innovation Tools and Method for Entrepreneurs	SH2692
5		German Language -Basic Level	SH2732
6		Japanese language -Basic Level	SH2712
7		German Language -Advanced Level	SH2642
8		Japanese language - Advanced Level	SH2622

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 BTech Sem-III will by default (mandatorily) appear for Advance Levels of said courses in Semester-IV.



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Department: Electronics and Telecommunication Engineering

Class: T.Y. B. Tech Semester: V

la la			each					Ev	aluat	ion Sc	heme	
Course Code	Course Title		T	T	dits		ne	Theor	v Ma	rks	Pract	ical Marks
Course Code	Course Title	L	Т	P	Credits		Scheme	Max	Mi Pa	n for ssing %)	Max	Min for Passing (%)
EG2012							ISE UT1	20 15	40		-	-
EC3012	Digital Signal Processing	3			3		UT2	15	40	40	-	1
							ESE	50	40		-	-
							ISE	20				-
EC3032	Power Electronics	3			3		UT1	15	40	40	_	-
	-						UT2	15		1 40	-	-
		-	-			4 }	ESE	50	40		-	-
287							ISE	20			-	-
EC3052	Product Design	3			3		UT1	15	40	40	-	-
							UT2	15		10	-	-
			-		-	+	ESE	50	40		-	-
	Electromagnetic Wayes & Automa				100	-	ISE	20			-	-
EC3072	Electromagnetic Waves & Antenna Theory	3			3	-	UT1	15	40	40		-
	Theory						UT2	15	10		-	-
			-		-	1	ESE	50	40		-	-
						1 }	ISE	20			-	-
PE I*	Program Elective – I	3			3		UT1	15	40	40	-	-
							UT2 ESE	15 50	40		-	-
EC3192	Comprehensive Exam III				1	1	ESE	100	50	_	-	-
EG2010	Digital Signal Processing Lab					1	ISE	-	-	-	50	50
EC3212	using MATLAB			2,	1		ESE	-	-	-	50	50
EC3232	Power Electronics Lab			2	1		ISE	-	-	-	50	50
EC3232				2	ı		ESE	-	-	-	50	50
EC3252	Object Oriented Programming			2	1		ISE	-	-	-	50	50
200202	using C++ Lab				1		ESE	-	-	-	50	50
EC3272	Antenna Lab			2	1		ISE	-	-	-	50	50
	- Internal Euro				1		ESE	-	-		50	50
						I -	ISE	20			100	50
SH3032	Aptitude Training I	2*			2	ı ⊢	UT1	15	40	40	-	-
	3	_	Sente		-		UT2	15		40	_	<u>-</u>
							ESE	50	40		-	-
	Summer Internship (4 weeks)				2		ISE	-	-	-	100	50
	Mandatory Course(Indian Constitution/Essence of Indian Traditional Knowledge				Audit		ISE	100	50	50	-	-
	Total	17	0	08	24							

Total Contact Hours/week

:25

Total Credits

: 24

Comprehensive Exam Subjects : Electromagnetic Waves & Antenna Theory, Digital Signal Processing,

CMOS VLSI Design

ISE = In Semester Exam, MSE (UT1+UT2) UT-I = Unit Test-I, UT-II = Unit Test-II, ESE = End Semester Exam Note*: Department should allot one extra lecture to Aptitude Training-I in time Table.

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Rev: ETC Engg. Course Structure/RIT/02/2018-19

PROGRAM ELECTIVE I									
Sl.No	Course code	Domain	Course Name						
1	EC3092	Communication	Information Theory and Coding						
2	EC3112	Embedded System	Mixed Mode Controller						
3	EC3132	Signal Processing	Audio Video Engineering						
4	EC3152	VLSI DVT	RTL Simulation and Synthesis with PLDs						
5	EC3172	Industrial Automation	Control System						



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Rev: ETC Engg. Course Structure/RIT/02/2018-19

Department: Electronics and Telecommunication Engineering

Class: T.Y. B. Tech

Semester: VI

		Tea	ching s	cheme	S	Evalu	ation Sch	eme		iester:	
					Credits	e	Theor	y Mar	ks	Practi	cal Marks
Course Code	Course Title	L	Т	P	Cr	Scheme	Max	Mir Pas (%)		Max	Min for Passing (%)
						ISE	20			-	-
EC3022	OMOGNIKOV D	3			3	UT1	15	40	40	-	-
	CMOS VLSI Design					UT2	15] 10	-	-
						ESE	50	40			-
						ISE	20			-	-
EC3042	Robotics	3			3	UT1	15	40	40	_	-
						UT2	15] 10	-	-
			-			ESE	50	40			-
						ISE	20			-	-
EC3062	Artificial Intelligence	3			3	UT1	15	40	40	-	-
	Series					UT2	15		40	-	
						ESE	50	40		-	-
						ISE	20			_	
PE II*	Duo onome Electione II	12				UT1	15	40		-	-
PE II	Program Elective – II	3			3	UT2	15		40	-	- 1
3						ESE	50	40			
						ISE	20			-	1 -
SH3022		3				UT1	15	40	40	_	-
5115022	Biology for Engineers	3			3	UT2	15		40	_	-
						ESE	50	40		_	-
EC3182	Comprehensive Exam IV				1	ESE	100	50	-	-	-
EC3202	CMOS VLSI Design Lab			2	1	ISE	-	-	-	50	50
BC3202				2	1	ESE	-	-	-	50	50
EC3222	Python Programming			2	1	ISE	-	-	-	50	50
	Lab				1	ESE	-	-	-	50	50
EC3242	Electronic			2	1	ISE	-	-	-	50	50
	Measurement Lab				-	ESE	-	-	-	50	50
EC3262	Mini Project/Electronic			2	1	ISE	-	-	-	50	50
	Design workshop		-			ESE	-	-	-	50	50
	Antitudo Troinin - II	¥				ISE	20			100	50
SH3052	Aptitude Training II	2*			2	UT1	15	40	40	-	-
		2000				UT2	15		. [-	-
						ESE	50	40		-	-
	Total	17	00	08	22						

Total Contact Hours/week

: 25

Total Credits

: 22

Comprehensive Exam Subjects

: Power Electronics, Robotics, Electronic Measurement

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

Note*: Department should allot one extra lecture to Aptitude Training-II in time Table.

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Rev: ETC Engg. Course Structure/RIT/02/2018-19

PROGRAM ELECTIVE II									
Sl.No	Course code	Domain	Course Name	_					
1	EC3082	Communication	Scientific Computing	140					
2	EC3102	Embedded System	MEMS						
3	EC3122	Signal Processing	Wavelets						
4	EC3142	VLSI DVT	Nano electronics						
5	EC3162	Industrial Automation	Automotive Electronics						



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Rev: ETC Engg. Course Structure/RIT/02/2018-19

Department: Electronics and Telecommunication Engineering

Class: Final Year B. Tech
Semester: VII

		Tead	ching me		S	Evalua	tion Sche	eme			mester: v
Course Code	Course Title			T	Credits	6)	Theory	y Marks	3	Practi	cal Marks
	Source Fine	L	Т	P	Cr	Scheme	Max	Min Pass (%)	for	Max	Min for Passing (%)
						ISE	20			-	
EC4012	Computer Network	3			3	UT1	15	40	40	-	_
	Computer Network					UT2	15		40	-	-
						ESE	50	40		-	-
						ISE	20			-	-
EC4032	Internet of Things	3			3	UT1	15	40	10	-	
20.052	internet of Timigs					UT2	15		40	-	-
						ESE	50	40		-	-
						ISE	20			-	-
PE III*	Program Elective-	3			3	UT1	15	40	40	-	1
	III					UT2	15		40		-
					1	ESE	50	40		-	_
						ISE	20			-	-
PE IV*	Program Elective -	3			3	UT1	15	40	40	-	- 1
	IV					UT2	15	-	40	-	-
		200				ESE	50	40		-	-
						ISE	20	40	40	-	-
OE-I*	Open Elective -IV	3			3	UT1	15			-	-
				805500		UT2	15			-	-
						ESE	50	40		-	-
	Computer Networks					ISE	-	-	-	50	50
EC4252	and IoT Lab			2	1	ESE	-	_	-	50	50
DEI III*	Program Elective –			_		ISE	-	-	-	50	50
PEL III*	III Lab			2	1	ESE	-	-	-	50	50
	Phase I			2	1	ISE	•	-		100	50
	Total	15		06	18						

Total Contact Hours/week

:21

Total Credits

: 18

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

Sr.No.	Choice Based Track	Phase –I Details	Course Code
1	Internship & Project (IIP)	Liberal Learning	IP4012
2	Undergraduate Research Experience (URE)	URE Synopsis	RE4012
3	Entrepreneurship Development (ED)	Prefeasibility Report	ED4012
4	Regular Capstone Project (CP)	CP Synopsis	EC4372

Note: Students should work on Phase I of Choice based track allotted to them.

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Sl.No	Course code	Domain	Course Name
1	EC4052	Communication	Microwave Theory and Techniques
2	EC4072	Embedded System	Embedded Systems
3	EC4092	Signal Processing	Bio-Medical Electronics
4	EC4112	VLSI DVT	System Verilog
5	EC4132	Industrial Automation	Programmable Logic Control (PLC)
		PROGRAM ELECT	TIVE III LAB
1	EC4272	Communication	Microwave Theory and Techniques Lat
2	EC4292	Embedded System	Embedded Systems Lab
3	EC4312	Signal Processing	Bio-Medical Electronics Lab
4	EC4332	VLSI DVT	System Verilog Lab
5	EC4352	Industrial Automation	Programmable Logic Control (PLC)Lab
		PROGRAM ELE	CTIVE IV
- 87	Course code	Domain	Course Name
	EC4152	Communication	Mobile Communication and Networks
1	EC4132		The state of the s
	EC4132 EC4172	Embedded System	Embedded Linux
	EC4172 EC4192	Embedded System Signal Processing	Embedded Linux Mixed Signal Design
1 2 3 4 5	EC4172		Embedded Linux Mixed Signal Design Low Power VLSI

OPEN ELECTIVE IV

Sr. No.	Branch	Course Code	Semester-VII Open Elective-IV Courses
1	Automobile	OE4012	Reliability Engineering
2	Automobile	OE4032	Product Design and Development
3	Automobile	OE4052	Design Thinking & Innovation
4	Civil	OE4072	Metro Systems and Engineering.
5	Civil	OE4092	Engineering Economics.
6	Civil	OE4112	Industrial Safety and Risk Management.
7	Computer	OE4132	Cyber Laws
8	Computer	OE4152	Database Administration
9	Electrical	OE4172	Optimization Techniques
10	Electrical	OE4192	Electrical Materials
11	E&TC	OE4212	Mechatronics
12	IT	OE4232	Open Source Software
13	Mechanical	OE4252	Aircraft Systems
14	Mechanical	OE4272	Supply Chain Management
15	Mechanical	OE4292	Non-conventional Energy Sources
16	Mechanical	OE4312	New Product Design and Development
17	MBA	OE4332	Marketing for Engineers

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Track I: Industry Internship & Projects (IIP)

Department: Electronics and Telecommunication Engineering

Class: Final Year B. Tech

Semester: VIII

		Teach	ing Sc	heme				duation S		
Course	Comme				dits	9	Theory	y Marks	Practi	cal Marks
Code	Course	L	Т	P	Credits	Scheme	Max	Min. for passing (%)	Max	Min. for passing (%)
IPEC4002	Online Course- I/Self learning course-I	-	-	-	3	ESE*	-	-	100	50
OE4362	Engineering Management& Economics (Online Course)	-	-	-	2	ESE*	-	-	100	50
IP4022	Internship & Project		_	-	11	ISE	-	-	50	50
	The state of the s				11	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.

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: Electronics and Telecommunication Engineering

Class: Final Year B. Tech

Semester: VIII

				ching heme			E	Evalua	tion S	Schem	ie
Course Code	Course	n 1			Credit s	ne	The	ory N	Iarks	Prac	tical Marks
		L	T	P	Cr	Scheme	Max	pas	n. for sing %)	Max passing	Min. for passing (%)
RE4022	Research Methodology	3	-	-	3	ISE UT-1 UT-2	20 15 15	40	40	-	-
RE4062	Research Methodology Lab	-	-	2	1	ISE ISE	50	-	-	100	50
OE4362	Engineering Management& Economics (Online Course)	-	-	-	2	ESE*	-	-	-	100	50
RE4042	Research Project	-	-	10	10	ISE	-	_		50	50
	Total	03	-	12	16	ESE				50	50

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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Rev: ETC Engg. Course Structure/RIT/02/2018-19

Track III: Entrepreneurship Development (ED)

Department: Electronics and Telecommunication Engineering

Class: Final Year B. Tech

Semester: VIII

			eachi Schem				E	valua	tion	Scheme	
Course Code	Course				Credits	me	Theo	ry M	arks	Practi	cal Marks
		L	Т	P	Ü	Scheme	Max	pas	i. for sing %)	Max	Min. for passing (%)
ED4102	Project Management	3	-	-	3	ISE UT-1 UT-2	20 15 15	40	40	-	-
						ESE ISE	50 20	40			
ED4042	Commercial Aspects of the Project	3	-	-	3	UT-1 UT-2	15 15	40	40	-	-
						ESE	50	40			
ED4062	Entrepreneurship Development Program (EDP)	-	-	-	1	ISE	-	-	-	100	50
	Entrepreneurship Development Project	-	-	9	9	ISE ESE	-	-	_	50	50
	Total	06	-	09	16	_	-	-	-	-	

Total Contact Hours/week Total Credits

: 15 : 16

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



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Track IV: Regular Capstone Project (CP)

Department: Electronics and Telecommunication Engineering

Class: Final Year B. Tech

Semester: VIII

			Teaching Scheme				Evaluation Scheme					
Course	Course						Theo	ry Ma	ırks	Practical Marks		
Code	Course	L	Т	P	Credits	Scheme	Max	fo pas	in. or sing 6)	Max.	Min. for passing (%)	
						ISE	20			-	-	
PE V*	Program Elective-V	3	_	_	3	UT1	15	40	40	-	-	
	State Processing					UT2	15		40	-	-	
						ESE	50	40		-	-	
						ISE	20			-	-	
OE V*	Open Elective-V	3			3	UT1	15	40	40	-	_	
OL (Open Elective-v)	-	-	3	UT2	15	1		40	-	_
						ESE	50	40			-	
OE4362	Engineering Management & Economics (Online Course)	-	-	-	2	ESE*	-	-	-	100	50	
EC4122	Canstone Project Phase II			0	0	ISE	-	-		50	50	
DC4122	Capstone Project Phase II	-	-	8	8	ESE	-	_		50	50	
	TOTAL	06	-	08	16						30	

Total Contact Hours/week: 14 **Total Credits**

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



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K.E. Society'
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		PROGRAM EL	LECTIVE V
Sl.No	Course code	Domain	Course Name
1	EC4022	Communication	Satellite Communication
2	EC4042	Embedded System	Real Time Embedded Systems
3	EC4062	Signal Processing	Computer Architecture
4	EC4082	VLSI DVT	Mixed mode VLSI Design
5	EC4102	Industrial Automation	Electric Drives

OPEN ELECTIVE V

Sr. No.	Branch	Course Code	Semester-VIII Open Elective-V Courses
1	Automobile	OE4022	Renewable Energy Sources
2	Automobile	OE4042	Transport Management
3	Automobile	OE4062	Electric and Hybrid Electrical Vehicle
4	Civil	OE4082	Smart Cities and Sustainable Development.
5	Civil	OE4102	Material Management.
6	Computer	OE4122	Network Administration
7	Computer	OE4142	Information Technology Foundation Program
8	Electrical	OE4162	Finance Management
9	Electrical	OE4182	Electrical Installations and Maintenance
10	E&TC	OE4202	Image Processing
11	IT	OE4222	Information Technology and Business Management
12	Mechanical	OE4242	Computational Fluid Dynamics
13	Mechanical	OE4262	Entrepreneurship Development
14	Mechanical	OE4282	Hybrid Vehicles
15	Mechanical	OE4302	Maintenance Management
16	Mechanical	OE4322	Reverse Engineering and Benchmarking
17	MBA	OE4342	Finance for Engineers



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B.Tech Honors

Semester	Course codes	B.Tech Honors
IV	EC4142	Electronics Enclosures and Thermal Issues
V	EC4162	Programming Data Structure & Algorithm in Python
V	EC4182	Android App development
VI	EC4202	Industrial Automation & Control
VI	EC4222	Deep learning for Visual Computing/ Introduction to Soft computing
VII	EC4242	Remote Sensing & Digital image Processing of Satellite data
VII	EC4262	Architecture of IC
VIII	EC4282	Cryptography and Network Security

B.Tech Minor

Semester	Course codes	B.Tech Minor
IV	EC4302	Analog Circuit/Basis Electronics
V	EC4322	Digital Circuits
V	EC4342	OP-AMP Practical Application
VI	EC4362	Microprocessors and Microcontrollers
VI	EC4382	Control Systems
VII	EC4402	Internet of Things
VII	EC4422	Image Processing
VIII	EC4424	Embedded System Design



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