



K.E. Society's
Rajarambapu Institute of Technology, Sakharale
(An Autonomous Institute, affiliated to Shivaji University, Kolhapur)
Curriculum Structure and Evaluation Scheme
 With effective from 2020-21 [2020-24 & 2021-25 Batch]
 Department of Computer Science and Information Technology

Class: S. Y. B. Tech

Semester: III

Course Code	Course	Teaching Scheme				Evaluation Scheme					
		L	T	P	Credits	Scheme	Theory (Marks)		Practical (Marks)		
							Max	Min. % Marks for Passing	Max.	Min. % Marks for Passing	
CI2011	Discrete Mathematics	3	1	--	4	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15	---	---		
						ESE	50	40	---	---	
CI2031	Computer Networks	3	--	--	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15	---	---		
						ESE	50	40	---	---	
CI2051	Data Structures and Algorithms	3	--	--	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15	---	---		
						ESE	50	40	---	---	
CI2071	Digital Electronics	3	--	--	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15	---	---		
						ESE	50	40	---	---	
CI2091	Computer Networks Lab	--	--	2	1	ISE	---	---	50	50	
						ESE	---	---	50	50	
CI2111	Data Structures and Algorithms Lab	--	--	4	2	ISE	---	---	50	50	
						ESE	---	---	50	50	
CI2131	Digital Electronics Lab	--	--	2	1	ISE	---	---	50	50	
						ESE	---	---	50	50	
CI2151	Object Oriented Design and Programming Lab	3	--	2	4	ISE	---	---	50	50	
						ESE	---	---	50	50	
CI2171	Technical Aptitude-I	--	--	2	1	ESE	---	---	100	50	
	Open Elective-II Choice Based Soft Skill Program-I	--	--	2	1	ISE	---	---	100	50	
	TOTAL	15	01	14	23	---	---	---	---	---	

ISE = In Semester Evaluation, UT-1 = Unit Test-1, UT-2 = Unit Test-2 ESE = End Semester Examination

Total Contact Hours/week : 30

Total Credits : 23

Technical Aptitude Courses: Discrete Mathematics, Computer Networks, Data Structures and Algorithms, Digital Electronics





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Open Elective-II

Sr. No.	Subject Name	Course Code	
1.	Choice Based Soft Skill Program-I & II	Personal Effectiveness & Body Language	SH2593
2.		Interpersonal Skills (Work life Balance)	SH2613
3.		Leadership & Public Speaking	SH2633
4.		Innovation Tools and Methods for Entrepreneurs	SH2693
5.		German Language – Basic Level	SH2733
6.		Japanese Language – Basic Level	SH2713

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





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Class: S. Y. B. Tech

Semester: IV

Course Code	Course	Teaching Scheme				Evaluation Scheme					
		L	T	P	Credits	Scheme	Theory (Marks)		Practical (Marks)		
							Max	Min. % Marks for Passing	Max.	Min. % Marks for Passing	
SH2043	Mathematics for Data Analytics	3	1	--	4	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15	---	---		
						ESE	50	40	---	---	
CI2021	Automata Theory	3	1	--	4	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15	---	---		
						ESE	50	40	---	---	
CI2041	Software Engineering	3	--	--	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15	---	---		
						ESE	50	40	---	---	
CI2061	Computer Organization	3	--	--	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15	---	---		
						ESE	50	40	---	---	
CE2262	Engineering Mechanics	2	--	--	2	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15	---	---		
						ESE	50	40	---	---	
CI2081	Python lab	2	--	2	3	ISE	---	---	50	50	
						ESE	---	---	50	50	
CE2282	Engineering Mechanics Lab	--	--	2	1	ISE	---	---	50	50	
						ESE	---	---	50	50	
CI2101	Technical Aptitude-II	--	--	2	1	ESE	---	---	100	50	
SH2173	Environmental Science	1*	--	--	1	ISE	50	40	40	---	---
						ESE	50	40		---	---
SH2603	Environmental Science Project	--	--	2	1	ISE	---	---	100	50	
	Open Elective- III Choice Based Soft Skill Program-II	-	-	2	1	ISE	---	---	100	50	
TOTAL		17	2	8	24	---	---	---	---	---	

ISE = In Semester Evaluation, UT-1 = Unit Test-1, UT-2 = Unit Test-2 ESE = End Semester Examination

Total Contact Hours/week : 29

Total Credits : 24

Technical Aptitude Courses: Mathematics for Data Analytics, Automata Theory, Software Engineering, Computer Organization

Internship Note: Students are required to undergo industrial / field training of minimum four weeks in the vacation of Semester-IV and its evaluation will be carried out in the Semester-V.

Note*: Department should allot one extra lecture to Environment Science in time table.





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Open Elective-III

Sr. No.	Subject Name		Course Code
1.	Choice Based Soft Skill Program-I & II	Personal Effectiveness & Body Language	SH2593
2.		Interpersonal Skills (Work life Balance)	SH2613
3.		Leadership & Public Speaking	SH2633
4.		Innovation Tools and Methods for Entrepreneurs	SH2693
5.		German Language – Basic Level	SH2733
6.		Japanese Language – Basic Level	SH2713

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





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Class: T. Y. B. Tech

Semester: V

Course Code	Course	Teaching Scheme				Evaluation Scheme					
		L	T	P	Credits	Scheme	Theory (Marks)		Practical (Marks)		
							Max	Min. % Marks for Passing	Max.	Min. % Marks for Passing	
CI3011	Operating Systems	3	--	--	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			---	---
CI3031	Database Management Systems	3	--	--	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			---	---
CI3051	Design and Analysis of Algorithms	3	--	--	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			---	---
	Program Elective-I	3	--	--	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			---	---
CI3131	JAVA Programming Lab	3	--	2	4	ISE	---	---	---	50	50
						ESE	---			---	50
CI3151	Database Management Systems Lab	--	--	2	1	ISE	---	---	---	50	50
						ESE	---			---	50
CI3171	Operating Systems Lab	--	--	2	1	ISE	---	---	---	50	50
						ESE	---			---	50
SH3033	Scholastic Aptitude I	2*	--	--	2	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			---	---
CI3191	Summer Internship (4 Weeks)	--	--	--	2	ISE	---	---	---	100	50
CI3211	Technical Aptitude-III	--	--	2	1	ESE	---	---	---	100	50
SH3011	Indian Constitution	2	--	--	Audit	ISE	100	50	(P/N)	---	---
TOTAL		19	00	08	23	---	---	---	---	---	---

ISE = In Semester Evaluation, UT-1 = Unit Test-1, UT-2 = Unit Test-2 ESE = End Semester Examination

Total Contact Hours/week : 27

Total Credits : 23

Technical Aptitude Courses: Operating Systems, Database Management Systems, Design and analysis of algorithms

Note*: Department should allot one extra lecture to Scholastic Aptitude – I in time Table.





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Program Elective I

Sr.No.	Course Code	Course
1.	CI3071	Organizational Management Behavior
2.	CI3091	IPR and Cyber Law
3.	CI3111	Software Modeling and Design
4.	CI323	Internetworking Protocols





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Class: T. Y. B. Tech

Semester: VI

Course Code	Course	Teaching Scheme				Evaluation Scheme					
		L	T	P	Credits	Scheme	Theory (Marks)		Practical (Marks)		
							Max	Min. % Marks for Passing	Max.	Min. % Marks for Passing	
CI3021	Information Security	3	--	--	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15	---	---		
						ESE	50	40	---	---	
	Program Elective-II	3	--	--	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15	---	---		
						ESE	50	40	---	---	
	Open Elective-IV	3	--	--	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15	---	---		
						ESE	50	40	---	---	
SH3021	Biology for Engineers	3	--	--	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15	---	---		
						ESE	50	40	---	---	
CI3121	Front End Web Technology Lab	2	--	4	4	ISE	---	---	50	50	
						ESE	---	---	50	50	
CI3201	Mobile Application Development Lab	2	--	2	3	ISE	---	---	50	50	
						ESE	---	---	50	50	
SH3053	Scholastic Aptitude II	2*	--	--	2	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15	---	---		
						ESE	50	40	---	---	
CI3241	Technical Aptitude-IV	--	--	2	1	ESE	---	---	100	50	
CI3221	Capstone Project phase-I	-	-	2	2	ISE	---	---	100	50	
SH304	Psychology for Engineers	1*	-	-	1	ISE	40	40	---	---	
						ESE	40	40	---	---	
TOTAL		19	00	10	25	---	---	---	---	---	

ISE = In Semester Evaluation, UT-1 = Unit Test-1, UT-2 = Unit Test-2 ESE = End Semester Examination

Total Contact Hours/week : 29

Total Credits : 25

Technical Aptitude Courses : C Programming, C++ Programming, Compiler Design

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





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Program Elective II

Sr.No.	Course Code	Course Name
1.	CI3041	Data Mining
2.	CI3061	Sensor Network
3.	CI3081	Machine Learning Algorithms
4.	CI3101	Computer Graphics

Open Elective-IV

Sr. No.	Branch	Course Code	Open Elective-IV Courses
1	Automobile	OE3023	Reliability Engineering
2	Automobile	OE3043	Renewable Energy Sources
3	Civil	OE3063	Environmental Impact Assessment
4	Civil	OE3083	Material Management.
5	Computer	OE3103	Network Administration
6	Computer	OE3123	Information Technology Foundation Program
7	E&TC	OE3143	Mechatronics
8	Electrical	OE3163	Engineering Materials
9	Electrical	OE3181	Industrial Drives
10	CS&IT	OE336	Neural Network and Deep Learning
11	CS&IT	OE3221	Cyber Forensics
12	MBA	OE3243	Marketing for Engineers
14	Mechanical	OE3263	Aircraft Systems
14	Mechanical	OE3283	Supply Chain Management
15	Mechanical	OE3301	New Product Design and Development
16	Mechanical	OE3323	Entrepreneurship Development
17	Mechanical	OE3341	Research Methodology





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Class: Final Year B. Tech.

Semester: VII

Course Code	Course	Teaching Scheme				Evaluation Scheme					
		L	T	P	Credits	Scheme	Theory (Marks)		Practical (Marks)		
							Max	Min. % Marks for Passing	Max.	Min. % Marks for Passing	
CI4011	Cloud Computing	3	--	--	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15	---	---		
						ESE	50	40	---	---	
	Program Elective III	3	--	--	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15	---	---		
						ESE	50	40	---	---	
	Program Elective-IV	3	--	--	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15	---	---		
						ESE	50	40	---	---	
	Program Elective-V	3	--	--	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15	---	---		
						ESE	50	40	---	---	
CI4331	Web Technology Lab	2	--	4	4	ISE	---	---	50	50	
						ESE	---	---	50	50	
	Program Elective Lab	--	--	2	2	ISE	---	---	50	50	
						ESE	---	---	50	50	
CI4271	Capstone Project Phase-II	--	--	4	4	ISE	---	---	100	50	
						ESE	---	---	100	50	
TOTAL		14	00	10	22	---	---	---	---	---	

ISE = In Semester Evaluation, UT-1 = Unit Test-1, UT-2 = Unit Test-2 ESE = End Semester Examination

Total Contact Hours/week : 25
Total Credits : 22





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Program Elective III

Sr.No.	Course Code	Course Name
1.	CI4031	Soft Computing
2.	CI4051	Human Computer Interaction
3.	CI4071	Software Testing
4.	CI409	Software Project Management

Program Elective IV

Sr.No.	Course Code	Course Name
1.	CI4111	Internet of Things
2.	CI413	Bioinformatics
3.	CI4151	Computer Vision
4.	CI4171	Data Analytics

Program Elective V

Sr.No.	Course Code	Course
1.	CI4191	Blockchain Technology
2.	CI4211	Virtual Reality and Augmented Reality
3.	CI4231	Parallel Computing
4.	CI4251	Big Data

Program Elective Lab

Sr.No.	Course Code	Course Name
1.	CI429	PHP
2.	CI4311	R Programming Lab
3.	CI4331	Asp. Net MVC Lab





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Track I: Industry Internship & Projects (IIP)

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
OE4381	Finance for Engineers (Online Course)	2	-	-	2	ISE	25	40	40	---	---
						ESE	75	40	---	---	
OE4361	Engineering Management & Economics (Online Course)	2	-	-	2	ISE	25	40	40	---	---
						ESE	75	40	---	---	
IP4023	Internship & Project	-	-	-	8	ISE	---	----	---	50	50
						ESE	---	----	---	50	50
TOTAL		4	-	-	12						

ISE = In Semester Evaluation, ESE = End Semester Examination

Total Contact Hours/week : 4
Total Credits : 12

Note:

1] Weekly Contact hours are not mentioned in IP4023 as student is expected to be in industry regularly for 20 weeks. However, student needs to report to Institute mentors as and when required.

2] For online course, lecture videos of each unit will be made available through college platform to the students. For each unit there will be separate assignment. Students need to submit all assignments within specified time.

Weightage: 25% weightage for unit wise assignments + 75% weightage for final exam. Final exam will be held at college campus.





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Track II: Undergraduate Research Experience (URE)

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
OE4381	Finance for Engineers (Online Course)	2	-	-	2	ISE	25	40	40	---	---
						ESE	75	40	---	---	
OE4361	Engineering Management & Economics (Online Course)	2	-	-	2	ISE	25	40	40	---	---
						ESE	75	40	---	---	
RE4043	Research Project	-	-	8	8	ISE	---	---	---	50	50
						ESE	---	---	---	50	50
TOTAL		4	-	8	12						

ISE = In Semester Evaluation, UT-I = Unit Test-I, UT-2 = Unit Test-2 ESE = End Semester Examination

Total Contact Hours/week : 12
Total Credits : 12

Note:

1] For online course, lecture videos of each unit will be made available through college platform to the students. For each unit there will be separate assignment. Students need to submit all assignments within specified time.

Weightage: 25% weightage for unit wise assignments + 75% weightage for final exam. Final exam will be held at college campus.





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Track III: Entrepreneurship Development (ED)

Class: Final Year B. Tech

Semester: VIII

Course Code	Course	Teaching Scheme			Credits	Evaluation Scheme					
		L	T	P		Scheme	Theory (Marks %)		Practical (Marks %)		
							Max	Min. for passing	Max	Min. for passing	
ED4103	Project Management	2*	-	-	2	ISE	20	40	40		
						UT-1	15				
						UT-2	15				
						ESE	50	40			
ED4043	Commercial Aspects of the Project	2*	-	-	2	ISE	20	40	40		
						UT-1	15				
						UT-2	15				
						ESE	50	40			
ED4063	Entrepreneurship Development Program (EDP)	-	-	-	1	ISE				100	50
ED4083	Entrepreneurship Development Project	-	-	7	7	ISE				50	50
						ESE				50	
Total		4	-	7	12						

ISE = In Semester Evaluation, UT-1 = Unit Test-1, UT-2 = Unit Test-2 Examination ESE = End Semester Examination

Total Contact Hours/week : 11

Total Credits : 12

Note:

1] * One extra lecture to be allotted to Project Management and Commercial Aspects of the Project course in time table.

