



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 Information Technology

Rev:CSIT/RIT/04/2020-24

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	ISE	---	---	50	50	
						ESE	---	---	50	50	
	Open Elective-II Professional Skills Development and Foreign Languages - I	--	--	2	1	ISE	---	---	60	50	
						ESE	---	---	40	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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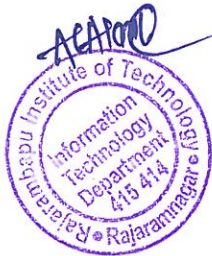
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Open Elective-II

Sr. No.	Course Code	Course Name
1.	SH2633	Professional Leadership Skills
2.	SH2613	Interpersonal Skills ['Jeevanvidya' for Work Life Balance]
3.	SH2693	Innovation Tools and Methods for Entrepreneurs
4.	SH2593	Personal Effectiveness and Body Language
5.	SH2733	German Language - Basic Level
6.	SH2713	Japanese Language - Level III

An Important Notes:

1. A student has to complete any two courses out of six choices offered under Choice Based Professional Skills Development Programme. A course in each semester will be allocated without any repetition.
2. Foreign language course selected in F.Y. Sem-I will remain the same with next levels in Sem-III and IV. (No new entries in S.Y.B.Tech Sem.-III)





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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	---
CE2263	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	
CE2283	Engineering Mechanics Lab	--	--	2	1	ISE	---	---	100	50	
CI2101	Technical Aptitude-II	--	--	2	1	ISE	---	---	50	50	
						ESE	---	---	50	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 Professional Skills Development and Foreign Languages - II	-	-	2	1	ISE	---	---	60	50	
						ESE	---	---	40	50	
TOTAL		17	2	10	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.	Course Code	Course Name
1.	SH2633	Professional Leadership Skills
2.	SH2613	Interpersonal Skills ['Jeevanvidya' for Work Life Balance]
3.	SH2693	Innovation Tools and Methods for Entrepreneurs
4.	SH2593	Personal Effectiveness and Body Language
5.	SH2643	German Language - Advanced Level
6.	SH2623	Japanese Language - Level IV

An Important Notes:

1. A student has to complete any two courses out of six choices offered under Choice Based Professional Skills Development Programme. A course in each semester will be allocated without any repetition.
2. Foreign language course selected in F.Y. Sem-I will remain the same with next levels in Sem-III and IV. (No new entries in S.Y.B.Tech Sem.-III)





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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	50
CI3151	Database Management Systems Lab	--	--	2	1	ISE	---	---	---	50	50
						ESE	---	---	---	50	50
CI3171	Operating Systems Lab	--	--	2	1	ISE	---	---	---	50	50
						ESE	---	---	---	50	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	ISE	---	---	---	50	50
						ESE	---	---	---	50	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	---
CI3181	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	
SH3063	Scholastic Aptitude II	2*	--	--	2	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			40	---
CI3241	Technical Aptitude-IV	--	--	2	1	ISE	---	---	50	50	
						ESE	---	---	50	50	
CI3221	Capstone Project phase-I	-	-	2	2	ISE	---	---	100	50	
SH304	Psychology for Engineers	1*	-	-	1	ISE	50	40	40	---	---
						ESE	50	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 Scholastic Aptitude II and Psychology for Engineers in time table.





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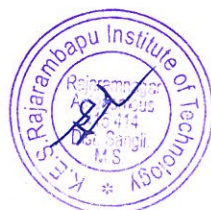
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Program Elective II

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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Sr. No.	Branch	Course Code	Open Elective-IV Courses
18.	Civil	OE338	Disaster management
19.	CS&IT	OE340	Cyber security





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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	---
CI4191	Web Technology Lab	2	--	4	4	ISE	---	---	---	50	50
	ESE					---	50			50	
	Program Elective Lab	--	--	2	1	ISE	---	---	---	50	50
	ESE					---	50			50	
CI4271	Capstone Project Phase-II	--	--	4	4	ISE	---	---	---	100	50
						ESE	---			100	50
TOTAL		14	00	10	21	---	---	---	---	---	---

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

Total Contact Hours/week : 24
 Total Credits : 21





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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.	CI431	Software Project Management

Program Elective IV

Sr.No.	Course Code	Course Name
1.	CI4091	Internet of Things
2.	CI4111	Computer Vision
3.	CI4131	Data Analytics
4.	CI433	Bioinformatics

Program Elective V

Sr.No.	Course Code	Course
1.	CI4151	Blockchain Technology
2.	CI4171	Virtual Reality and Augmented Reality
3.	CI4211	Parallel Computing
4.	CI4231	Big Data

Program Elective Lab

Sr.No.	Course Code	Course Name
1.	CI4251	R Programming Lab
2.	CI4291	Asp. Net MVC Lab
3.	CI435	PHP





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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					50	50

ISE = In Semester Evaluation, 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				
ED4043	Commercial Aspects of the Project	2*	-	-	2	ISE	20	40	40		
						UT-1	15				
						UT-2	15				
						ESE	50				
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, 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.





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Syllabus

To be implemented from 2022-23

Department of Information Technology

Class:- T.Y. B. Tech	Semester-VI
Course Code: OE440	Course Name: Cyber Security

L	T	P	Credits
3	0	--	3

Course Description: Cybersecurity is the practice of protecting systems from cyber-attacks. It is important because effective cybersecurity reduces the risks of cyber-attacks. Cybersecurity is a high-demand but changing field. Since hackers are trying to find new ways to access, change, or delete sensitive information and extort money, users must be aware of cyber threats and comply with basic cybersecurity principles. This course will help in understanding cybercrimes, their laws & various techniques for investigating different cybercrimes. This course also focuses on advanced issues in e-banking and financial crimes.

Course Learning Outcomes:

After successful completion of the course, students will be able to,

1. Describe fundamental terms in cybercrime legislation.
2. Compare various cyber-attacks & offences.
3. Analyze Indian IT Act 2000 & amendments in IT Act.
4. Asses social networks and security issues related to social media platforms.
5. Apply a strategy for creating awareness about cyber security for e-banking and legal issues among the social community.
6. Devise the best practices and policies in various layers of cyberspace.

Prerequisite: Basic Computer Technology

Eligible Students: Students of all branches except CSE and IT

Course Content		
Unit No	Description	Hrs
1.	Introduction to Cyber security Defining Cyberspace and Overview of Computer and Web-technology, Architecture of cyberspace, Communication and web technology, Internet, World wide web, Internet infrastructure for data transfer and governance,	06





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Syllabus

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Department of Information Technology

	Internet society, Regulation of cyberspace, Concept of cyber security, Issues and challenges of cyber security.	
2.	Cyber Crime and Cyber law Classification of cybercrimes, Common cybercrimes - cybercrime targeting computers and mobiles, cybercrime against women and children, financial frauds, social engineering attacks, malware and ransomware attacks, viruses and worms, Cybercriminal's modus-operandi, Reporting of cybercrimes, Remedial and mitigation measures, Legal perspective of cybercrime.	06
3.	The Indian IT Act Cybercrime and Legal landscape around the world, cyber laws, challenges faced in designing cyber laws, IT Ac : Cyber Crime (Section 65-74), Amendments to the Indian IT Act 2000.	05
4.	Social Media Overview and Security Introduction to Social networks. Types of Social media, Social media platforms, Social media monitoring, Hashtag, Viral content, Social media marketing, Social media privacy, Challenges, opportunities and pitfalls in online social networks, Security issues related to social media, Flagging and reporting of inappropriate content, Laws regarding posting of inappropriate content, Best practices for the use of Social media, Case studies.	06
5.	E - Commerce and Digital Payments Definition of E-Commerce, Main components of E-Commerce, Elements of E-Commerce Security, E-Commerce threats, E-Commerce security best practices, Introduction to digital payments, Components of digital payment and stake holders, Modes of digital payments- Banking Cards, Unified Payment Interface (UPI), e-Wallets, Unstructured Supplementary Service Data (USSD), RBI guidelines on digital payments and customer protection in unauthorized banking transactions. Relevant provisions of Payment Settlement Act,2007.	07
6.	Digital Devices Security, Tools and Technologies for Cyber Security End Point device and mobile phone security, Password policy, Security patch management, Data backup, Downloading and management of third party software, Device security policy, Cyber Security best practices, Significance of host firewall and Ant-virus, Management of host firewall and Anti-virus, Wi-Fi security, Configuration of basic security policy and permissions.	06





**K.E. Society's
Rajarambapu Institute of Technology, Sakharale**
(An Autonomous Institute, Affiliated to Shivaji University, Kolhapur)

Syllabus

To be implemented from 2022-23

Department of Information Technology

References -

Text Books :

- Sumit Belapure and Nina Godbole, "Cyber Security Understanding Cyber Crimes, Computer Forensics and Legal Perspectives", Wiley India Pvt. Ltd.
- Henry A. Oliver, "Security in the Digital Age: Social Media Security Threats and Vulnerabilities", Create Space Independent Publishing Platform. Pearson.

Reference Books :

- James Graham, Ryan Olson, "Cyber Security Essentials", Rick Howard CRC Press, Taylor & Francis Group.
- Cyber Crime Impact in the New Millennium, by R. C Mishra , Auther Press.
- Kumar K, "Cyber Laws: Intellectual Property & E-Commerce Security" Dominant Publishers.

