



K. E. Society's
Rajarambapu Institute of Technology, Sakharale
 (An Autonomous Institute, affiliated to Shivaji University, Kolhapur)
Curriculum Structure and Evaluation
 with effective from 2020-21 (2020-24 and 2021-25 batch)
Department of Science and Humanities

Class: F. Y. B. Tech.

Semester: I

Group A: Civil Engineering, Mechanical Engineering, Mechanical Engineering (Automobile),
 Mechatronics Engineering

Course Code	Course	Teaching Scheme				Evaluation Scheme					
		L	T	P	Credits	Scheme	Theory (Marks)		Practical (Marks)		
							Max.	Min. %for Passing	Max.	Min. %for Passing	
SH 1311	Engineering Physics	3	-	-	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			40	---
SH 1054	Engineering Mathematics -I	3	1	-	4	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			40	---
SH 1133	Engineering Graphics	1	-	-	1	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			40	---
	Open Elective - I	2	-	-	2	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			40	---
SH 1513	Engineering Physics Lab	-	-	2	1	ISE	---	---	100	50	
SH 1553	Engineering Graphics Lab	-	-	4	2	ISE	---	---	100	50	
	Open Elective - I - Lab	-	-	2	1	ISE	---	---	100	50	
SH 1832/ SH 1583/ SH 1602	English Proficiency Lab - I/ Japanese Language Lab Level - I/ German Language Lab Level - I	-	-	4	2	ISE	---	---	60	50	
						ESE	---	---	40		
SH 1851	Engineering Practice Lab - I			2	1	ISE	---	---	100	50	
SH 1891	Engineering Exploration and Design Project	-	-	4	2	ISE	---	---	80	50	
						ESE	---	---	20		
Total:		9	1	18	19						
Total Contact Hours:		28									

Total Contact Hours/week: 28

Total Credits: 19

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

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Department of Science and Humanities

Class: F. Y. B. Tech.

Semester: II

Group A: Civil Engineering, Mechanical Engineering, Mechanical Engineering (Automobile),
 Mechatronics Engineering

Course Code	Course	Teaching Scheme				Evaluation Scheme				
		L	T	P	Credits	Scheme	Theory (Marks)		Practical (Marks)	
							Max.	Min. % for Passing	Max.	Min. % for Passing
SH 1034	Engineering Chemistry	3	-	-	3	ISE	20	40	40	---
						UT1	15			---
						UT2	15			---
						ESE	50			---
SH 1024	Engineering Mathematics - II	3	1	-	4	ISE	20	40	40	---
						UT1	15			---
						UT2	15			---
						ESE	50			---
SH 1292	Electrical Engineering	3	-	-	3	ISE	20	40	40	---
						UT1	15			---
						UT2	15			---
						ESE	50			---
SH 1331	Programming for Problem Solving	2	-	-	2	ISE	20	40	40	---
						UT1	15			---
						UT2	15			---
						ESE	50			---
SH 1533	Engineering Chemistry Lab	-	-	2	1	ISE	---	---	100	50
SH 1792	Electrical Engineering Lab	-	-	2	1	ISE	---	---	100	50
SH 1911	Programming for Problem Solving Lab	-	-	4	2	ISE	---	---	100	50
SH 1621/ SH 1662 /SH1681	English Proficiency Lab - II/ Japanese Language Lab Level -II/ German Language Lab Level -II	-	-	4	2	ISE	---	---	60	50
						ESE	---	---	40	
SH 1641	Engineering Practice Lab - II	-	-	2	1	ISE	---	---	100	50
Total:		11	1	14						
Total Contact Hours:		26		19						

Total Contact Hours/week: 26

Total Credits: 19

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Class: F. Y. B. Tech.

Semester: I

Group B: Electronics and Telecommunication Engineering, Electrical Engineering, Computer Engineering, Computer Science and Information Technology

Course Code	Course	Teaching Scheme				Evaluation Scheme					
		L	T	P	Credits	Scheme	Theory (Marks)		Practical (Marks)		
							Max.	Min. %for Passing	Max.	Min. %for Passing	
SH 1034	Engineering Chemistry	3	-	-	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50	40	---	---	
SH 1054	Engineering Mathematics - I	3	1	-	4	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50	40	---	---	
SH 1292	Electrical Engineering	3	-	-	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50	40	---	---	
SH 1331	Programming for Problem Solving	2	-	-	2	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50	40	---	---	
SH 1533	Engineering Chemistry Lab	-	-	2	1	ISE	---	---	100	50	
SH 1792	Electrical Engineering Lab	-	-	2	1	ISE	---	---	100	50	
SH 1911	Programming for Problem Solving Lab	-	-	4	2	ISE	---	---	100	50	
SH 1832/ SH 1583/ SH 1602	English Proficiency Lab - I/ Japanese Language Lab Level-I/ German Language Lab Level-I	-	-	4	2	ISE	---	---	60	50	
ESE	---	---	40								
SH 1851	Engineering Practice Lab -I	-	-	2	1	ISE	---	---	100	50	
Total:		11	1	14	19						
Total Contact Hours:		26									

Total Contact Hours/week: 26

Total Credits: 19

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Class: F. Y. B. Tech.

Semester: II

Group B: Electronics and Telecommunication Engineering, Electrical Engineering, Computer Engineering, Computer Science and Information Technology

Course Code	Course	Teaching Scheme				Evaluation Scheme					
		L	T	P	Credits	Scheme	Theory (Marks)		Practical (Marks)		
							Max.	Min. %for Passing	Max.	Min. % for Passing	
SH1311	Engineering Physics	3	-	-	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			40	---
SH 1024	Engineering Mathematics -II	3	1	-	4	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			40	---
SH 1133	Engineering Graphics	1	-	-	1	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			40	---
	Open Elective - I	2	-	-	2	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			40	--
SH 1513	Engineering Physics Lab	-	-	2	1	ISE	---	---	100	50	
SH 1553	Engineering Graphics Lab	-	-	4	2	ISE	---	---	100	50	
	Open Elective- I - Lab	-	-	2	1	ISE	---	---	100	50	
SH 1621/	English Proficiency Lab - II/ Japanese Language Lab Level-II /German Language Lab Level-II	-	-	4	2	ISE	---	---	60	50	
SH 1662/ SH1681						ESE	---	---	40		
SH 1641	Engineering Practice Lab - II	-	-	2	1	ISE	---	---	100	50	
SH 1891	Engineering Exploration and Design Project	-	-	4	2	ISE	---	---	80	50	
						ESE	---	---	20		
Total:		9	1	18	19						
Total Contact Hours:		28									

Total Contact Hours/week : 28

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Open Electives - I

Sr. No.	Course Code	Department	Course Title
1.	SE1012	Electronics and Telecommunications Engineering	Basics of Electronics Engineering
2.	SE1512		Basics of Electronics Engineering Lab
3.	SE1052	Civil Engineering	Basics of Civil Engineering
4.	SE1552		Basics of Civil Engineering Lab
5.	SE1132		Green Technology
6.	SE1632		Green Technology Lab
7.	SE1072	Mechanical Engineering	Thermodynamics
8.	SE1572		Thermodynamics Lab
9.	SE1092		Engineering Materials
10.	SE1592		Engineering Materials Lab
11.	SE1451		Creativity, Design Thinking and Entrepreneurial Mindset
12.	SE1671		Creativity, Design Thinking and Entrepreneurial Mindset Lab
13.	SE1431	Mechanical Engineering, Mechanical Engineering (Automobile)	Basics of Mechanical Engineering
14.	SE1651		Basics of Mechanical Engineering Lab
15.	SE147	Computer Engineering and Computer Science and Information Technology	Introduction to Artificial Intelligence
16.	SE169		Introduction to Artificial Intelligence Lab

Humanities & Social Science: Choice Based Languages

Sr. No.	Course Code	Department	Course Title
1.	SH1832	Sciences and Humanities Department	English proficiency Lab Level I
2.	SH1621		English proficiency Lab Level II
3.	SH1583		Japanese Language Lab Level I
4.	SH1662		Japanese Language Lab Level II
5.	SH1602		German Language Lab Level I
6.	SH1681		German Language Lab Level II

