



K.E. Society's
Rajarambapu Institute of Technology, Sakharale
 (An Autonomous Institute, Affiliated to Shivaji University, Kolhapur)
M. Tech. Computer Science and Engineering
Curriculum Structure and Evaluation Scheme
 To be implemented for 2022-24 & 2023-25 Batch
 Rev: CSE Course Structure/RIT/01/2022-23

Class:F.Y. M. Tech.		Semester: I									
Course Code	Course	Teaching Scheme				Evaluation Scheme					
		L	T	P	Credits	Scheme	Theory (Marks)		Practical (Marks)		
							Max	Min % for Passing	Max	Min % for Passing	
CSE1130	Mathematical Foundations for Computer Science	3	-	-	3	ISE	30	40	40	--	--
						ESE	70	40		--	--
CSE1015	Machine Learning	3	-	-	3	ISE	30	40	40	--	--
						ESE	70	40		--	--
CSE1025	Advanced Algorithms	3	-	-	3	ISE	30	40	40	--	--
						ESE	70	40		--	--
	Program Elective – I	3	-	-	3	ISE	30	40	40	--	--
						ESE	70	40		--	--
	Program Elective – II	3	-	-	3	ISE	30	40	40	--	--
						ESE	70	40		--	--
CSE1095	Research Methodology and IPR	2	-	-	2	ISE	50	40	40	--	--
						ESE	50	40		--	--
CSE1105	Machine Learning Laboratory	-	-	4	2	ISE	-	-	-	50	50
						ESE	-	-		50	50
CSE1115	Advanced Algorithms Laboratory	-	-	2	1	ISE	-	-	-	50	50
						ESE	-	-		50	50
CSE1125	Seminar	-	-	2	1	ISE	-	-	-	50	50
						ESE	-	-		50	50
SHP5511	Technical Communication	2	-	-	Audit course	ISE	-	-	-	-	P/NP
Total		18	1	8	21						

Total Contact Hours/Week:27

Total Credit: 21

ISE=In Semester Evaluation, UT-I=Unit Test-I, UT-II=Unit test-II, ESE=End Semester Exam, P=Pass, NP=Not Pass





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List of Program Elective (PE): Semester-I

Course Code	PROGRAM ELECTIVE-I
CSE1035	Cryptology and Network Forensics
CSE1045	Cloud Computing
CSE1055	Open Source Technologies

Course Code	PROGRAM ELECTIVE –II
CSE1065	Natural Language Processing
CSE1071	Computer Vision
CSE1085	Adhoc Sensor Network





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Class:F.Y. M. Tech.		Semester: II									
Course Code	Course	Teaching Scheme				Evaluation Scheme					
		L	T	P	Credits	Scheme	Theory (Marks)		Practical (Marks)		
							Max	Min % for Passing	Max	Min % for Passing	
CSE1151	Deep Learning	3	-	-	3	ISE	30	40	40	--	--
						ESE	70	40		--	--
CSE1165	Big Data Analytics	3	-	-	3	ISE	30	40	40	--	--
						ESE	70	40		--	--
	Program Elective – III	3	-	-	3	ISE	30	40	40	--	--
						ESE	70	40		--	--
	Program Elective – IV	3	1	-	4	ISE	30	40	40	--	--
						ESE	70	40		--	--
CSE1231	Deep Learning Laboratory	-	-	2	1	ISE	-	-		50	50
						ESE	-	-		50	50
CSE1245	Big Data Analytics Laboratory	-	-	2	1	ISE	-	-		50	50
						ESE	-	-		50	50
	Program Elective -III Laboratory	-	-	2	1	ISE	-	-		50	50
						ESE	-	-		50	50
CSE1285	Mini Project	-	-	4	2	ISE	-	-	-	100	50
SHP552	Framework of Indian Constitution	2	-	-	Audit Course	ISE	-	-	-	-	P/NP
CSE2015	Industry Internship	-	-	-	Audit course	-	-	-	-	-	P/NP
Total		14	1	10	18						

Total Contact Hours/Week: 25

Total Credit: 18

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*Note- Student has to complete internship of 2weeks after 2ndsemester however its evaluation will be carried out in 3rdsemester.





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List of Program elective (PE): Semester-II

Course Code	PROGRAM ELECTIVE-III
CSE1175	Web Application Development
CSE1185	Parallel Computing
CSE1195	Internet of Things

Course Code	PROGRAM ELECTIVE-IV
CSE1205	Soft Computing
CSE1215	Block Chain Technology
CSE1225	Software Architecture

Course Code	PROGRAM ELECTIVE-III LABORATORY
CSE1255	Web Application Development Laboratory
CSE1265	Parallel Computing Laboratory
CSE1275	Internet of Things Laboratory





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Class: S.Y. M. Tech.		Semester: III									
Course Code	Course	Teaching Scheme				Evaluation Scheme					
		L	T	P	Credits	Scheme	Theory (Marks)		Practical (Marks)		
							Max	Min % for Passing	Max	Min % for Passing	
CSE2015	Industry Internship	-	-	02	Audit Course	ISE	P/NP				
	Open Elective	03	-	-	03	ESE	100	40	--	--	
CSE2035	Dissertation Phase-I	-	-	08	04	ISE	-	-	100	50	
CSE2045	Dissertation Phase-II	-	-	12	06	ISE	-	-	100	50	
						ESE			100	50	
	Total	03	-	22	13						

Total Contact Hours/Week:25

Total Credit: 13

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List of Open Elective (OE): Semester-III

Sr. No.	Course Code	OPEN ELECTIVE
1	MOE2011	Artificial Intelligence - Machine Learning
2	MOE2021	Creative Thinking: Techniques & Tools
3	MOE2031	MOOC Course
4	MOE2041	Condition Monitoring and Signal Processing
5	MOE2051	Aircraft Conceptual Design
6	MOE2060	Augmented Reality and Virtual Reality
7	MOE2070	Industrial Instrumentation
8	MOE2080	Advanced Mechatronics systems

Note for Open Elective

An Open Elective course is included in the curriculum of S. Y. M. Tech (Semester-III), under which students need to learn either MOOC course or courses offered by department.

Guidelines for MOOC course under Open Elective

1. If students opt for MOOC course as an Open Elective, he/she should select this course from NPTEL platform only.
2. As three credits are allotted to open elective, selected MOOC course must be of minimum 6 weeks or 30 hours.
3. Students need to solve assignments given by platform and also, give the final certification exam at allotted NPTEL exam center.
4. Student must secure certification of NPTEL platform, otherwise he/she will not be eligible for final evaluation.
5. Final evaluation of the MOOC course will be based on oral examination conducted by department and marks secured in the exam conducted by NPTEL.
6. If student fails in NPTEL certification course, he or she should reregister for the course in the next semester.



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Guidelines for other courses mentioned under Open Elective:

1. Student can opt for courses mentioned in the curriculum.
2. While selecting the course, students must take care that selected course from the list is not learned in UG or PG first year curriculum.
3. Lectures of these courses will be conducted by concerned department faculty by online mode.
4. Evaluation of these courses will be as mentioned in the curriculum.





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Class: S.Y. M. Tech		Semester: IV							
Course Code	Course	Teaching Scheme				Evaluation Scheme			
		L	T	P	Credits	Scheme	Practical (Marks)		
							Max	Min % for Passing	
CSE2055	Dissertation Phase-III	-	-	12	06	ISE	100	50	
CSE2065	Dissertation Phase-IV Viva-Voce	-	-	20	10	ISE	100	50	
						ESE	100	50	
	Total			32	16				

Total Contact Hours/Week: 32

Total Credit: 16

ISE=In Semester Evaluation, UT-I=Unit Test-I, UT-II=Unit test-II, ESE=End Semester Exam, P=Pass, NP=Not Pass

Total Credit =68

