



**K.E.Society's**  
**Rajarambapu Institute of Technology, Rajaramnagar**  
*(An Empowered Autonomous Institute, affiliated to Shivaji University, Kolhapur)*  
**M.Tech. Computer Science and Engineering**  
**Curriculum Structure and Evaluation Scheme (NEP2020)**  
**To be implemented for 2025-27 & 2026- 28 Batch**

F.Y. M.Tech				Semester: I							
Course Code	Course	Teaching Scheme				Scheme	Evaluation Scheme			Practical Marks	
		L	T	P	Credits		Max	Min. % for passing	Max	Min. % for passing	
CSE129	Foundations of Data Science	2	--	--	2	ISE	30	40	40	--	--
						ESE	70	40		--	--
CSE1016	Machine Learning	3	--	--	3	ISE	30	40	40	--	--
						ESE	70	40		--	--
CSE1026	Advanced Algorithms	3	--	--	3	ISE	30	40	40	--	--
						ESE	70	40		--	--
	Programme Elective-I	3	--	--	3	ISE	30	40	40	--	--
						ESE	70	40		--	--
	Programme Elective-II	3	--	--	3	ISE	30	40	40	--	--
						ESE	70	40		--	--
CSE134	Research Methodology and IPR	2			2	ISE	50	40	40		
						ESE	50	40			
CSE1106	Machine Learning Laboratory	--	--	2	1	ISE	--	--	50	50	50
						ESE	--	--		50	50
CSE1116	Advanced Algorithms Laboratory	--	--	2	1	ISE	--	--	50	50	50
						ESE	--	--		50	50
CSE135	Seminar	--	--	2	1	ISE	--	--	50	50	50
						ESE	--	--		50	50
SHE5513	Technical Communication	2			1	ISE	--	--	100	50	
<b>TOTAL</b>		<b>18</b>	-	<b>06</b>	<b>20</b>						

**Total Contact Hours/week: 24**

**Total Credits :20**

ISE=In Semester Evaluation, ESE=End Semester Exam, P=Pass, NP=Not Pass



### Program Elective-I

Sr. No.	Course Code	Course
1.	CSE130	Big Data Paradigm
2.	CSE1046	Cloud Computing
3.	CSE131	Decision Support System

### Program Elective-II

Sr. No.	Course Code	Course
1.	CSE132	Block Chain Technology
2.	CSE1073	Computer Vision
3.	CSE133	Software Engineering and Project Management





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F.Y. M.Tech				Semester: II							
Course Code	Course	Teaching Scheme				Scheme	Evaluation Scheme				
		L	T	P	Credits		Theory Marks	Practical Marks	Max.	Min. % for passing	
CSE1152	Deep Learning	3	--	--	3	ISE	30	40	40	--	--
						ESE	70	40		--	--
CSE136	Information and Network Security	3	--	--	3	ISE	30	40	40	--	--
						ESE	70	40		--	--
CSE137	Adhoc Networks	3	-	-	3	ISE	30	40	40		
						ESE	70	40			
	Programme Elective - III	3	--	--	3	ISE	30	40	40	--	--
						ESE	70	40		--	--
	Programme Elective -IV	3	--	--	3	ISE	30	40	40	--	--
						ESE	70	40		--	--
CSE1232	Deep Learning Laboratory	--	--	2	1	ISE	--	--	50	50	50
						ESE	--	--		50	50
CSE139	Information and Network Security Laboratory	--	--	2	1	ISE	--	--	50	50	50
						ESE	--	--		50	50
	Program Elective -III Laboratory	--	--	2	1	ISE	--	--	50	50	50
						ESE	--	-		50	50
CSE143	Mini Project	-	-	4	2		-	-	100	50	
	<b>TOTAL</b>	<b>15</b>	<b>0</b>	<b>10</b>	<b>20</b>						

**Total Contact Hours/week: 25**

**Total Credits :20**

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### Program Elective-III

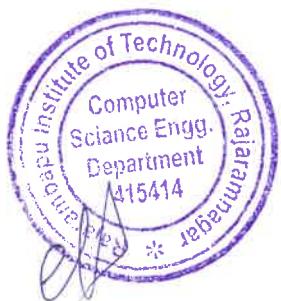
Sr. No.	Course Code	Course
1.	CSE138	Advanced Database Management System
2.	CSE1186	Parallel Computing
3.	CSE139	Industry 4.0 and Industrial Internet of Things

### Program Elective-IV

Sr. No.	Course Code	Course
1.	CSE1206	Soft Computing
2.	CSE140	Natural Language Processing
3.	CSE1226	Software Architecture

### Program Elective-III Laboratory

Sr.No.	Course Code	Course
1.	CSE142	Advanced Database Management System Laboratory
2.	CSE1266	Parallel Computing Laboratory
3.	CSE1276	Internet of Things Laboratory





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S.Y.M.Tech					Semester:III						
Course Code	Course	Teaching Scheme				Credits	Scheme	Evaluation Scheme		Practical Marks	
		L	T	P	Max			Min. % for passing	Max	Min % for passing	
CSE 2016	Industry Internship	--	--	-	01	ISE	--	--	100	50	
	Open Elective	3	--	--	3	ESE	100	40	--	--	
CSE 2026	Dissertation Stage I	--	--	12	6	ISE	--	--	100	50	
CSE 2036	Dissertation Stage II	--	--	20	10	ISE	--	--	100	50	
		--	--	20		ESE	--	--	100	50	
	<b>TOTAL</b>	<b>3</b>	<b>--</b>	<b>32</b>	<b>20</b>						

**Total Contact Hours/week: 35**

**Total Credits :20**

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**\*Note-Student has to complete industry internship of 02 weeks after second semester however its evaluation will be carried out in third semester.**



### **Open Elective**

<b>Sr.No.</b>	<b>Course Code</b>	<b>Course</b>
1.	MOE2012	Artificial Intelligence-Machine Learning
2.	MOE2022	Creative Thinking: Techniques and Tools
3.	MOE2032	MOOC Course
4.	MOE2041	Energy Audit and Management
5.	MOE2062	Augmented Reality and Virtual Reality
6.	MOE2072	Industrial Instrumentation
7.	MOE2082	Advanced Mechatronics systems
8.	MOE2091	Disaster Management

### **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 minimum12 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 within program duration, otherwise he/she will not be eligible for final evaluation.
5. If student fails in NPTEL certification course, he or she should re-register for the course in the next semester.

#### **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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Course Code	Course	Teaching Scheme				Scheme	Evaluation Scheme			
		L	T	P	Credits		Theory Marks	Practical Marks	Max	Min. % for passing
CSE 2046	Dissertation Stage III	--	-	16	08	ISE	--	--	100	50
CSE 2056	Dissertation Stage IV	--	-	24	12	ISE	--	--	100	50
						ESE	--	--	100	50
	<b>TOTAL</b>		-	40	20					

**Total Contact Hours/week:40**

**Total Credits :20**

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