



K.E. Society's
Rajarambapu Institute of Technology, Rajaramnagar
(An Empowered Autonomous Institute, Affiliated to Shivaji University, Kolhapur)
Curriculum Structure and Evaluation Scheme
To be implemented for 2022-26 Batch
Department of Computer Science & Information Technology

Rev: CSIT Course Structure/RIT/02/2022-26

B.Tech. in Computer Science & Information Technology with Multidisciplinary Minor





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Curriculum Structure and Evaluation Scheme
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 Department of Computer Science & Information Technology

Rev: CSIT Course Structure/RIT/02/2022-26

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. for passing	Max.	Min. for passing
CI2012	Discrete Mathematics	3	-	-	3	ISE	20	40	----	----
						UT1	15		----	----
						UT2	15		----	----
						ESE	50		----	----
CI2032	Data Structures	3	-	-	3	ISE	20	40	----	----
						UT1	15		----	----
						UT2	15		----	----
						ESE	50		----	----
CI219	Digital Logic and Computer Organization	3	-	-	3	ISE	20	40	----	----
						UT1	15		----	----
						UT2	15		----	----
						ESE	50		----	----
	Multidisciplinary Minor-I	3	-	-	3	ISE	20	40	----	----
						UT1	15		----	----
						UT2	15		----	----
						ESE	50		----	----
SH2174	Environmental Science	1	-	2	2	ISE	50	40	----	----
						ESE	50		----	----
CI2052	Object Oriented Programming with Java Lab	3	-	2	4	ISE	----	----	50	50
						ESE	----	----	50	50
CI2072	Data Structures Lab	-	-	2	1	ISE	----	----	50	50
						ESE	----	----	50	50
CI2092	Technical Aptitude-I	-	-	2	1	ESE	----	----	100	50
CI221	UI/UX design Lab	-	-	2	1	ISE	----	----	50	50
						ESE	----	----	50	50
	Professional Skills Development and Foreign Languages	-	-	2	1	ISE	----	----	100	50
	TOTAL	16	-	12	22					
	TOTAL CONTACT HOURS	28								

ISE = In Semester Evaluation, UT-I = Unit Test-I, UT-II = Unit Test-II ESE = End Semester Exam

Total Contact Hours/week : 28

Total Credits : 22

Technical Aptitude-I Courses : Discrete Mathematics, Data Structures, Digital Logic and Computer Organization, Object Oriented Programming with Java.





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Rev: CSIT Course Structure/RIT/02/2022-26

Sr. No.	Subject Name		Course Code
1.	Professional Skills	Professional Leadership Skills	SH2634
2.	Development and	Interpersonal Skills	SH2614
3.	Foreign Languages	Innovation Tools and Methods for Entrepreneurs	SH2694
4.		Personal Effectiveness and Body Language	SH2594
5.		German Language – Level III	SH2734
6.		Japanese Language – Level III	SH2714

Note:

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. B. Tech Sem-I will remain the same with next levels in Sem-III & 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. for passing	Max	Min. for passing	
CI216	Mathematics for IT	3	-	-	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			---	---
CI2022	Design and Analysis of Algorithm	3	-	-	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			---	---
CI2042	Software Engineering and Project Management	3	-	-	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			---	---
CI2062	Database Management Systems	3	-	-	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			---	---
	Multidisciplinary Minor-II	3	-	-	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			---	---
	Modern Indian Language	2	-	-	2	ISE	100	50			
CI218	Design and Analysis of Algorithm Lab	-	-	2	1	ISE	---	----	----	100	50
CI2082	Database Management Systems Lab	-	-	2	1	ISE	---	----	----	50	50
						ESE	---	----	----	50	50
CI2102	Python Lab	-	-	2	1	ISE	---	----	----	50	50
						ESE	---	----	----	50	50
CI220	Web Development Lab	-	-	2	1	ISE	---	----	----	50	50
						ESE	---	----	----	50	50
CI2122	Technical Aptitude-II	-	-	2	1	ESE	----	----		100	50
	Professional Skills Development and Foreign Languages	-	-	2	1	ISE	----	----		100	50
	TOTAL	17	-	12	23						
	TOTAL CONTACT HOURS	29									

ISE = In Semester Evaluation, UT-I = Unit Test-I, UT-II = Unit Test-II ESE = End Semester Exam

Total Contact Hours/week : 29

Total Credits : 23

Technical Aptitude-II Courses : Mathematics for IT, Design and Analysis of Algorithm, Software Engineering and Project Management, Database Management Systems.

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





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Sr. No.	Subject Name		Course Code
1.	Professional Skills	Professional Leadership Skills	SH2634
2.	Development and	Interpersonal Skills	SH2614
3.	Foreign Languages	Innovation Tools and Methods for Entrepreneurs	SH2694
4.		Personal Effectiveness and Body Language	SH2594
5.		German Language – Level IV	SH2644
6.		Japanese Language – Level IV	SH2624

Sr. No.	Subject Name		Course Code
1.	Modern Indian Language	मराठी भाषिक कौशल्यविकास	SH202
2.		हिंदी कथा साहित्य एवं प्रयोजमूलक हिंदी	SH204





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 Department of Computer Science & Information Technology

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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. for Passing	Max	Min. for passing	for
CI3012	Automata Theory	3	-	-	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			---	---
CI3032	Operating Systems	3	-	-	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			---	---
	Program Elective I	2	-	-	2	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			---	---
	Open Elective -I	3	-	-	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			---	---
	Multidisciplinary Minor-III	3	-	-	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			---	---
	Multidisciplinary Minor-IV	1	-	2	2	ISE	---	---	---	50	50
						ESE	---	---	---	50	50
SH3034	Scholastic Aptitude I	2	-	-	2	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			---	---
CI3052	Mobile Application Development Lab	1	-	2	2	ISE	---	---	---	50	50
						ESE	---	---	---	50	50
CI3112	Technical Aptitude-III	-	-	2	1	ESE	----	----	----	100	50
CI3132	Summer Internship	-	-	-	2	ISE	---	---	---	100	50
TOTAL		18	-	6	23						
TOTAL CONTACT HOURS		24									

ISE = In Semester Evaluation, UT-I = Unit Test-I, UT-II = Unit Test-II ESE = End Semester Exam

Total Contact Hours/week : 24

Total Credits : 23

Technical Aptitude-III Courses : Automata Theory, Operating System, Mobile Application Development Lab





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Department of Computer Science & Information Technology

Rev: CSIT Course Structure/RIT/02/2022-26

Program Elective I

Sr.No.	Course Code	Domain	Course
1.	CI325	Data Analytics	NOSQL
2.	CI3072	Artificial Intelligence	Image Processing
3.	CI327	Industry 4.0	Industrial Internet of Things
4.	CI3092	Cyber Security	IPR and Cyber Law

Open Elective – I			
Sr. No	Course Code	Course Name	Offered By Department
1	OE345	Soft Computing	Computer Science & Information Technology
2	OE361	Object Oriented Modeling and Design	Computer Science & Information Technology
3	OE343	Data Science	Computer Science & Engineering (Artificial Intelligence and Machine Learning)
4	OE347	New Product Design & Development	Mechanical Engineering
5	OE349	Non-Conventional Energy Sources	Mechanical Engineering
6	OE351	Hydrogen & Fuel Cell Technology	Mechanical Engineering
7	OE3044	Renewable Energy Sources	Automobile Engineering
8	OE353	Factory Automation	Mechatronics Engineering
9	OE355	Cyber Physical Systems	Mechatronics Engineering
10	CS3104	Network Administration	Computer Science & Engineering
11	OE3064	Environmental Impact Assessment	Civil Engineering
12	OE350	Operations Research	Civil Engineering
13	OE341	Energy Auditing and Management	Electrical Engineering
14	OE357	Internet of Things	Electronics & Telecommunication Engineering
15	OE359	Drone Technology	Electronics & Telecommunication Engineering





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Rev: CSIT Course Structure/RIT/02/2022-26

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. for passing		Max	Min. for passing
CI3022	Computer Networks	3	-	-	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			---	---
CI3042	Machine Learning	3	-	-	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			---	---
CI326	Research Methodology	2	-	-	2	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			---	---
	Program Elective II	2	-	-	2	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			---	---
	Open Elective II	3	-	-	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			---	---
CIMD302	Multidisciplinary Minor-V	3	-	-	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			---	---
SH3064	Scholastic Aptitude II	2	-	-	2	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			---	---
CI3102	Computer Networks Lab	-	-	2	1	ISE	---	---		100	50
CI328	Machine Learning Lab	-	-	2	1	ISE	---	---		100	50
CI3122	Full Stack - Front End Web Technology Lab	1	-	2	2	ISE	---	---		50	50
						ESE	---	---		50	50
CI3142	Technical Aptitude IV	-	-	2	1	ESE	100	40	-	-	
CI3162	Capstone project Phase I	-	-	2	1	ISE	---	---		100	50
	TOTAL	19	-	10	24						
	TOTAL CONTACT HOURS	29									

ISE = In Semester Evaluation, UT-I = Unit Test-I, UT-II = Unit Test-II ESE = End Semester Exam

Total Contact Hours/week : 29

Total Credits : 24

Technical Aptitude-IV Courses : Computer Networks, Machine Learning, Research Methodology





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Rev: CSIT Course Structure/RIT/02/2022-26

Program Elective II

Sr.No.	Course Code	Domain	Course
1.	CI330	Data Analytics	Data Mining
2.	CI332	Artificial Intelligence	Natural Language Processing
3.	CI334	Industry 4.0	Robotic Process Automation
4.	CI3062	Cyber Security	Blockchain Technology

Open Elective -II			
Sr. No.	Course Code	Course Name	Offered By Department
1	OE3401	Cyber Security	Computer Science & Information Technology
2	OE360	Distributed Systems	Computer Science & Information Technology
3	OE342	Data Mining	Computer Science & Engineering (Artificial Intelligence and Machine Learning)
4	OE3024	Reliability Engineering	Automobile Engineering
5	OE344	Supply Chain Analytics	Mechatronics Engineering
6	OE346	Mobile Robotics	Mechatronics Engineering
7	OE348	Information Technology Foundation Program	Computer Science & Engineering
8	OE3381	Disaster Management	Civil Engineering
9	OE3084	Materials Management	Civil Engineering
10	OE3084	Plumbing (Water and Sanitation)	Civil Engineering
11	OE3182	Industrial Drives	Electrical Engineering
12	OE352	Image Processing	Electronics & Telecommunication Engineering
13	OE354	Fuzzy logic and Neural Network	Electronics & Telecommunication Engineering
14	OE3284	Supply Chain Management	Mechanical Engineering
15	OE3324	Entrepreneurship Development	Mechanical Engineering
16	OE356	Project Management	Mechanical Engineering





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Rev: CSIT Course Structure/RIT/02/2022-26

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. passing	for	Max.	Min. passing	for
CI4012	Information Security	3	-	-	3	ISE	20	40	40	---	---	
						MSE	30			---	---	
						ESE	50			---	---	
CI4032	Cloud Computing	2	-	-	2	ISE	20	40	40	---	---	
						MSE	30			---	---	
						ESE	50			---	---	
CI437	High Performance Computing	2	-	-	2	ISE	20	40	40	---	---	
						MSE	30			---	---	
						ESE	50			---	---	
	Program Elective III	3	-	-	3	ISE	20	40	40	---	---	
						MSE	30			---	---	
						ESE	50			---	---	
	Program Elective IV	3	-	2	4	ISE	--	---	50	50		
						ESE	--	---	50	50		
CI4392	Full Stack – Back End Web Technology Lab	2	-	2	3	ISE	--	---	50	50		
						ESE	--	---	50	50		
CI4092	Capstone Project Phase II	-	-	6	3	ISE	--	---	50	50		
						ESE	--	---	50	50		
	TOTAL	15	-	10	20							
	TOTAL CONTACT HOURS	25										

ISE = In Semester Evaluation, UT-I = Unit Test-I, UT-II = Unit Test-II ESE = End Semester Exam

Total Contact Hours/week : 25

Total Credits : 20





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Department of Computer Science & Information Technology

Rev: CSIT Course Structure/RIT/02/2022-26

Program Elective III

Sr.No.	Course Code	Domain	Course
1.	CI4052	Data Analytics	Big Data
2.	CI441	Artificial Intelligence	Generative AI
3.	CI4072	Industry 4.0	Augmented Reality and Virtual Reality
4.	CI443	Cyber Security	Cloud Security

Program Elective IV

Sr.No.	Course Code	Domain	Course
1.	CI445	Data Analytics	Data Visualization with PowerBI Lab
2.	CI447	Artificial Intelligence	Deep Learning lab
3.	CI449	Industry 4.0	Cloud IoT Lab
4.	CI451	Cyber Security	Cyber Security and Forensics Lab





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Rev: CSIT Course Structure/RIT/02/2022-26

Choice based Internship Model

Model I: Industry Internship (II)

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
OE4382	Finance for Engineers (Online Course)	2	-	-	2	ISE	25	40	40	---	---
						ESE	75	40		---	---
OE4362	Engineering Management & Economics (Online Course)	2	-	-	2	ISE	25	40	40	---	---
						ESE	75	40		---	---
IP4024	Industry Internship & Project	-	-	-	12	ISE	---	----		50	50
						ESE	---	---		50	50
	TOTAL	-	-	-	16						

ISE = In Semester Evaluation, ESE = End Semester Exam

Total Contact Hours/week : --
Total Credits : 16

Note:

- Weekly Contact hours are not mentioned as student is expected to be in industry regularly for 20 weeks. However, student needs to report to Institute mentors as and when required.
- 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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 Department of Computer Science & Information Technology

Rev: CSIT Course Structure/RIT/02/2022-26

Model II: Research Internship (RI)

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
OE4382	Finance for Engineers (Online Course)	2	-	-	2	ISE	25	40	40	---	---
						ESE	75	40		---	---
OE4362	Engineering Management & Economics (Online Course)	2	-	-	2	ISE	25	40	40	---	---
						ESE	75	40		---	---
RE4044	Research Internship	-	-	-	12	ISE	---	----		50	50
						ESE	---	----		50	50
	TOTAL	-	-	-	16						

ISE = In Semester Evaluation, UT-I = Unit Test-I, UT-II = Unit Test-II ESE = End Semester Exam

Total Contact Hours/week : -
Total Credits : 16

Note:

- 1] Weekly Contact hours are not mentioned as student is expected to be in outside research organization 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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Rev: CSIT Course Structure/RIT/02/2022-26

Model III: Entrepreneurial Internship (EI)

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
ED4104	Project Management (Online Course)	-	-	-	2	ISE	25	40	40	-	-
						ESE	75	40		-	-
ED4044	Commercial Aspects of the Project (Online Course)	-	-	-	2	ISE	25	40	40	-	-
						ESE	75	40		-	-
ED4064	Entrepreneurship Development Program (EDP)	-	-	-	1	ISE				100	50
ED4084	Entrepreneurial Internship	-	-	-	11	ISE				50	50
						ESE				50	
		-	-	-	16						

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Total Contact Hours/week :-

Total Credits : 16

Note:

1] Weekly Contact hours are not mentioned as student is expected to be in outside research organization 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.

3] A one week Entrepreneurship Development Program (EDP) will be conducted after completion of 7th semester and before start of 8th semester.





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 Department of Computer Science & Information Technology

Rev: CSIT Course Structure/RIT/02/2022-26

Multidisciplinary Minor

- Student should choose any one specialization given by the department and complete all the five courses under the specialization
- Following are the baskets of multidisciplinary minor courses

Multidisciplinary Minor Baskets					
MDM Basket Name	Sr. No.	Course Code	Course Name	Semester	Offered by Department
Automobile Engineering	1	ATMD201	Automobile Systems	III	Automotive Technology
	2	ATMD202	I. C. Engines	IV	
	3	ATMD301	Automotive Safety & Ergonomics	V	
	4	ATMD303	Automotive Engineering Lab.	V	
	5	ATMD302	Electric Vehicles	VI	
Construction Engineering	1	CEMD201	Building Construction and Planning	III	Civil Engineering
	2	CEMD202	Building Estimation and Valuation	IV	
	3	CEMD301	Infrastructure Engineering	V	
	4	CEMD303	Smart Cities and Sustainable Development	V	
	5	CEMD302	Environmental Engineering	VI	
Software Programming	1	CSMD201	Introduction to Data Structures	III	Computer Science & Engineering
	2	CSMD202	Problem solving using JAVA	IV	
	3	CSMD301	Fundamentals of Database Systems	V	
	4	CSMD303	Object-oriented Programming in Python	V	





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Department of Computer Science & Information Technology

Rev: CSIT Course Structure/RIT/02/2022-26

	5	CSMD302	Artificial Intelligence	VI	
Electrical Power System	1	EEMD201	Electrical Power Generation	III	Electrical Engineering
	2	EEMD202	Power System	IV	
	3	EEMD301	Electrical Machines	V	
	4	EEMD303	Electrical Technology	V	
	5	EEMD302	Smart Grid	VI	
Electronics System Design	1	ECMD201	Electronics Devices and Applications	III	Electronics & Telecommunication Engineering
	2	ECMD202	Electronics Communication Systems	IV	
	3	ECMD301	Advanced Communication Systems	V	
	4	ECMD303	Electronic Product Design	V	
	5	ECMD302	Industrial Electronics	VI	
Software Development	1	CIMD201	Data Structures	III	Computer Science & Information Technology
	2	CIMD202	Computer Algorithms	IV	
	3	CIMD301	Introduction to DBMS	V	
	4	CIMD303	OOP using Java	V	
	5	CIMD302	Software Engineering	VI	
Elements of Mechanical Engineering	1	MEMD201	Materials and Applications	III	Mechanical Engineering
	2	MEMD202	Design and Drawing of Machine Components	IV	
	3	MEMD301	Manufacturing and Assembly Process	V	
	4	MEMD303	Refrigeration and Air Conditioning	V	
	5	MEMD302	Power Plant Engineering	VI	
Mechatronics Engineering	1	MCMD201	Fundamentals of Mechatronics	III	Mechatronics Engineering
	2	MCMD202	Industrial Fluid Power	IV	





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Curriculum Structure and Evaluation Scheme
To be implemented for 2022-26 Batch
Department of Computer Science & Information Technology

Rev: CSIT Course Structure/RIT/02/2022-26

	3	MCMD301	Sensor and Instrumentation	V	
	4	MCMD303	Industrial Automation	V	
	5	MCMD302	Industrial Robotics	VI	
Artificial Intelligence	1	AIMD201	Object Oriented Programming	III	Computer Science & Engineering (AI-ML)
	2	AIMD202	Data Structures and Algorithms	IV	
	3	AIMD301	Machine Learning	V	
	4	AIMD303	Business Intelligence	V	
	5	AIMD302	Principles of AI	VI	





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To be implemented for 2022-26 Batch
Department of Computer Science & Information Technology

Rev: CSIT Course Structure/RIT/02/2022-26

B. Tech. in Computer Science & Information Technology with Double Minor (Multidisciplinary and Specialization Minor)





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Rajarambapu Institute of Technology, Rajaramnagar
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Curriculum Structure and Evaluation Scheme
To be implemented for 2022-26 Batch
Department of Computer Science & Information Technology

Rev: CSIT Course Structure/RIT/02/2022-26

Double Minor

1. It is required to complete SIX courses (each of 3 credits) from ONLINE platform to earn total of 18 credits under Double Minor (DM) certification.
2. Student must complete and earn the credits for all the six courses starting from Second Year First semester (3rd semester) to Final Year Second Semester (8th semester).
3. Basket of the DM courses and respective semester is mentioned in the following table.

Sr. No.	Semester	Course	Code
1	IV	DM – I	CIDM4XXX
2	V	DM – II	CIDM5XXX
3	V	DM – III	CIDM5XXX
4	VI	DM – IV	CIDM6XXX
5	VII	DM – V	CIDM7XXX
6	VIII	DM – VI	CIDM8XXX

4. To select course platform, first preference must be given to NPTEL.
5. Other than NPTEL, courses from COURSERA and UDEMY platforms are allowed to register only in following cases,
 - a. If timeline of NPTEL course is not in line with timeline of academic calendar.
 - b. The suitable succeeding course in line with previous course is not available on NPTEL.
 - c. If any other unavoidable circumstances occur.
6. Platform and course selection must be as per recommendation of BOS of the department.
7. Student will get the credits of respective DM course in following conditions,
 - a. In case of course selected from NPTEL platform, student have to complete the timely assignments, PASS the exam and secure the certificate.
 - b. In case of course selected from COURSERA or UDEMY, student have to secure the certificate and appear for VIVA(oral) exam.
8. While selecting online course, following points must be taken care of,
 - a. Selected course must be of basic or fundamental level.
 - b. Contents of the course should not be covered in any of the course offered in regular curriculum or not listed in any elective (open or program elective) or in Multidisciplinary Minor (MDM)
 - c. Duration of each online course must be of EIGHT weeks for NPTEL and 30+ hours for UDEMY, COURSERA courses.





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Rajarambapu Institute of Technology, Rajaramnagar
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Curriculum Structure and Evaluation Scheme
To be implemented for 2022-26 Batch
Department of Computer Science & Information Technology

Rev: CSIT Course Structure/RIT/02/2022-26

B. Tech. in Computer Science & Information Technology with Honor and Multidisciplinary Minor





K.E. Society's
Rajarambapu Institute of Technology, Rajaramnagar
(An Empowered Autonomous Institute, Affiliated to Shivaji University, Kolhapur)
Curriculum Structure and Evaluation Scheme
To be implemented for 2022-26 Batch
Department of Computer Science & Information Technology

Rev: CSIT Course Structure/RIT/02/2022-26

Honors with Multidisciplinary Minor

1. It is required to complete SIX courses (each of 3 credits) from ONLINE platform to earn total of 18 credits under Honor certification.
2. Student must complete and earn the credits for all the six courses starting from Second Year First semester (3rd semester) to Final Year Second Semester (8th semester).
3. Basket of the Honor courses and respective semester is mentioned in the following table.

Sr. No.	Semester	Course	Code
1	IV	Honor - I	CIH4XXX
2	V	Honor - II	CIH5XXX
3	V	Honor - III	CIH5XXX
4	VI	Honor - IV	CIH6XXX
5	VII	Honor - V	CIH7XXX
6	VIII	Honor - VI	CIH8XXX

4. To select course platform, first preference must be given to NPTEL.
5. Other than NPTEL, courses from COURSERA and UDEMY platforms are allowed to register only in following cases,
 - a. If timeline of NPTEL course is not in line with timeline of academic calendar.
 - b. The suitable succeeding course in line with previous course is not available on NPTEL.
 - c. If any other unavoidable circumstances occurs.
6. Platform and course selection must be as per recommendation of BOS.
7. Student will get the credits of respective Honor course in following conditions,
 - a. In case of course selected from NPTEL platform, student have to complete the timely assignments, PASS the exam and secure the certificate.
 - b. In case of course selected from COURSERA or UDEMY, student have to secure the certificate and appear for VIVA(oral) exam.
8. While selecting online course, following points must be taken care of,
 - a. Selected course must be of advanced level and not basic or fundamental level.
 - b. Contents of the course should not be covered in any of the course offered in regular curriculum or not listed in any elective (open or program elective)
 - c. Duration of each online course must be of EIGHT weeks for NPTEL and 30+ hours for COURSERA, UDEMY courses.





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Curriculum Structure and Evaluation Scheme
To be implemented for 2022-26 Batch
Department of Computer Science & Information Technology

Rev: CSIT Course Structure/RIT/02/2022-26

B. Tech. in Computer Science & Information Technology-Honors with Research and Multidisciplinary Minor





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Curriculum Structure and Evaluation Scheme
 To be implemented for 2022-26 Batch
 Department of Computer Science & Information Technology

Rev: CSIT Course Structure/RIT/02/2022-26

Honors with Research and Multidisciplinary Minor

The Student will work on Research Project or Dissertation for 18 Credits in the Fourth Year in respective discipline. The distribution of 18 Credits for Research project in Sem-VII and Sem-VIII is given below. To get B.Tech in Computer Science & Information Technology-Honors with Research and Multidisciplinary Minor degree Student need to earn total 188 Credits which consist 170 credits of regular Multidisciplinary Minor courses and 18 credits of Research courses.

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. for passing	Max.	Min. for passing
REH401	Intellectual Property Rights	-	-	-	2	ISE	50	40	40	---	---	
						ESE	50	40		---	---	
REH403	Research project (Synopsis) phase - I	-	-	-	2	ISE	--	--	--	50	50	
						ESE	--	--		50	50	
REH405	Research Specific core course - I (Online NPTEL course)	-	-	-	3	ISE	50	40	40	--	--	
						ESE	50	40		--	--	
TOTAL		-	-	-	7							

ISE: In Semester Evaluation, UT-I: Unit Test-I, UT-II: Unit Test-II, ESE: End Semester Exam

Note: For Evaluation of Online NPTEL course ISE Marks will be marks obtained by students in the assignments given by NPTEL, students who will secure NPTEL certification will be only eligible for ESE of the same course which will be conducted at institute

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
REH402	Research project phase - II	-	-	-	11	ISE	--	--	--	50	50
						ESE	--	--		50	
TOTAL		-	-	-	11						

ISE: In Semester Evaluation, UT-I: Unit Test-I, UT-II: Unit Test-II, ESE: End Semester Exam

