



**K.E. Society's**  
**Rajarambapu Institute of Technology, Sakharale**  
*(An Autonomous Institute, affiliated to Shivaji University, Kolhapur)*  
**Curriculum Structure and Evaluation**  
**To be implemented by 2018 - 2019**  
**Rev: CSE Course Structure/RIT/02/2018-19**

**Department:** Computer Science & Engineering

**Class:** S. Y. B. Tech Computer Engineering

**Semester:** III

Course Code	Course	Teaching scheme			Credits	Evaluation Scheme					
		L	T	P		Scheme	Theory (Marks %)		Practical (Marks %)		
							Max	Min for Passing	Max	Min for Passing	
CS2012	Computer Organization	3	-	-	3	ISE	20	40	40	-	-
						UT-1	15			-	-
						UT-2	15			-	-
						ESE	50			40	-
CS2032	Data structure & Algorithms	3	-	-	3	ISE	20	40	40	-	-
						UT-1	15			-	-
						UT-2	15			-	-
						ESE	50			40	-
CS2052	Digital Electronics	3	-	-	3	ISE	20	40	40	-	-
						UT-1	15			-	-
						UT-2	15			-	-
						ESE	50			40	-
CS2072	Discrete Mathematics	3	1	-	4	ISE	20	40	40	-	-
						UT-1	15			-	-
						UT-2	15			-	-
						ESE	50			40	-
CS2092	Operating Systems	3	-	-	3	ISE	20	40	40	-	-
						UT-1	15			-	-
						UT-2	15			-	-
						ESE	50			40	-
CS2112	Advanced C Programming Lab	2	-	2	3	ISE	-	-	-	50	50
						ESE	-	-	-	50	50
CS2132	Data structure & Algorithms Lab	-	-	4	2	ISE	-	-	-	50	50
						ESE	-	-	-	50	50
CS2152	Digital Electronics Lab	-	-	2	1	ISE	-	-	-	100	50
CS2172	Comprehensive Exam - I	-	-	-	1	ESE	-	-	-	100	50
SH*	Open Elective-II Choice-based Soft Skills Program - I	-	-	2	1	ISE	-	-	-	100	50
<b>Total</b>		<b>17</b>	<b>1</b>	<b>10</b>	<b>24</b>						

**Total Contact Hours/week : 28**

**Total Credits : 24**

**Comprehensive Exam Subjects : CS2012, CS2032, CS2052, CS2072, CS2092, CS2112**

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

ESE = End Semester Exam





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Sr. No.	Subject Name	Course Code
1.	Personal Effectiveness & Body Language	SH2592
2.	Interpersonal Skills (Work life Balance)	SH2612
3.	Leadership & Public Speaking	SH2632
4.	Innovation Tools and Methods for Entrepreneurs	SH2692
5.	German Language – Basic Level	SH2732
6.	Japanese Language – Basic Level	SH2712
7.	German Language – Advanced Level	SH2642
8.	Japanese Language – Advanced Level	SH2622

**Note:**

1. A student has to complete any two courses out of six choices offered under Choice Based Soft Skills Programme. A course in each semester will be allocated without any repetition.
2. The students who have completed 'German Language Lab' or 'Japanese Language Lab' in F.Y. B. Tech should not give their choice for 'German Language – Basic Level' and 'Japanese Language – Basic Level'. Such students may give their choices for 'German Language – Advanced Level' and 'Japanese Language – Advanced Level' (batch sizes 40 each) in the S.Y. B. Tech Sem-IV only.
3. The students who will select and will successfully complete 'German Language – Basic Level' and 'Japanese Language – Basic Level' in S.Y. B. Tech Sem-III will by default (mandatorily) appear for Advance Levels of said courses in Semester-IV.





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**Department:** Computer Science & Engineering

**Class:** S. Y. B. Tech Computer Engineering

**Semester:** IV

Course Code	Course	Teaching scheme			Credits	Evaluation Scheme					
		L	T	P		Scheme	Theory (Marks %)		Practical (Marks %)		
							Max	Min for Passing	Max	Min for Passing	
CS2002	Computer Networks	3	-	-	3	ISE	20	40	40	-	-
						UT-1	15			-	-
						UT-2	15	-	-		
						ESE	50	40	-	-	
CS2022	Formal Language & Automata Theory	3	-	-	3	ISE	20	40	40	-	-
						UT-1	15			-	-
						UT-2	15	-	-		
						ESE	50	40	-	-	
CE2262	Engineering Mechanics	2	-	-	2	ISE	20	40	40	-	-
						UT-1	15			-	-
						UT-2	15	-	-		
						ESE	50	40	-	-	
SH2022	Engineering Mathematics - III	3	1	-	4	ISE	20	40	40	-	-
						UT-1	15			-	-
						UT-2	15	-	-		
						ESE	50	40	-	-	
CS2042	Computer Networks Lab	-	-	2	1	ISE	-	-	-	50	50
						ESE	-	-	-	50	50
CS2062	Object Oriented Programming Lab	2	-	4	4	ISE	-	-	-	50	50
						ESE	-	-	-	50	50
CE2282	Engineering Mechanics Lab	-	-	2	1	ISE	-	-	-	50	50
						ESE	-	-	-	50	50
SH*	Open Elective-III Choice-based Soft Skills Program - II	-	-	2	1	ISE	-	-	-	100	50
SH2172	Environmental Science	1*	-	-	1	ISE	50	40	40	-	-
						ESE	50	40		-	-
SH2602	Environmental Science Mini Project	-	-	2	1	ISE	-	-	-	100	50
CS2082	Comprehensive Exam - II	-	-	2	1	ESE	-	-	-	100	50
<b>Total</b>		<b>14</b>	<b>1</b>	<b>14</b>	<b>22</b>						

**Total Contact Hours/week : 29**

**Total Credits : 22**

**Comprehensive Exam Subjects : CS2002, CS2022, SH2022, CS2062**

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

ESE = End Semester Exam

**Note: Students are required to undergo industrial / field training of minimum four weeks in the vacation**

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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.

Sr. No.	Subject Name	Course Code
1.	Personal Effectiveness & Body Language	SH2592
2.	(Open Elective-II & III)	Interpersonal Skills (Work life Balance)
3.		Leadership & Public Speaking
4.	Choice Based Soft Skill Program-I & II	Innovation Tools and Methods for Entrepreneurs
5.		German Language – Basic Level
6.		Japanese Language – Basic Level
7.		German Language – Advanced Level
8.		Japanese Language – Advanced Level

**Note:**

- A student has to complete any two courses out of six choices offered under Choice Based Soft Skills Programme. A course in each semester will be allocated without any repetition.
- The students who have completed 'German Language Lab' or 'Japanese Language Lab' in F.Y. B. Tech should not give their choice for 'German Language – Basic Level' and 'Japanese Language – Basic Level'. Such students may give their choices for 'German Language – Advanced Level' and 'Japanese Language – Advanced Level' (batch sizes 40 each) in the S.Y. B. Tech Sem-IV only.
- The students who will select and will successfully complete 'German Language – Basic Level' and 'Japanese Language – Basic Level' in S.Y. B. Tech Sem-III will by default (mandatorily) appear for Advance Levels of said courses in Semester-IV.





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**Department:** Computer Science & Engineering

**Class:** T. Y. B. Tech Computer Engineering

**Semester:** V

Course Code	Course	Teaching scheme			Credits	Evaluation Scheme					
		L	T	P		Scheme	Theory (Marks %)		Practical (Marks %)		
							Max	Min for Passing	Max	Min for Passing	
CS3012	Database Management Systems	3	-	-	3	ISE	20	40	40	-	-
						UT-1	15				
						UT-2	15				
						ESE	50	40			
CS3032	System Software	3	-	-	3	ISE	20	40	40	-	-
						UT-1	15				
						UT-2	15				
						ESE	50	40			
CS3052	Design & Analysis of Algorithms	3	-	-	3	ISE	20	40	40	-	-
						UT-1	15				
						UT-2	15				
						ESE	50	40			
PE*	Program Elective-I	2	-	4	4	ISE	-	-	-	50	50
						ESE	-			50	50
CS3152	JAVA Programming Lab	2	-	4	4	ISE	-	-	-	50	50
						ESE	-			50	50
CS3172	Database Management Systems Lab	-	-	2	1	ISE	-	-	-	50	50
						ESE	-			50	50
SH3032	Aptitude Training-I	2*	-	-	2	ISE	20	40	40	-	-
						UT-1	15				
						UT-2	15				
						ESE	50	40			
CS3192	Comprehensive Exam - III	-	-	2	1	ESE	-	-	-	100	50
SH3012	Constitution of India	-	Audit			ISE	100	50	-	-	-
CS3212	Summer Internship/ Professional Certification (4 Weeks)	-	-	-	2	ISE	-	-	-	100	50
<b>Total</b>		<b>15</b>	<b>-</b>	<b>12</b>	<b>23</b>						

**Total Contact Hours/week : 27**

**Total Credits : 23**

**Comprehensive Exam Subjects : CS3012, CS3032, CS3052**

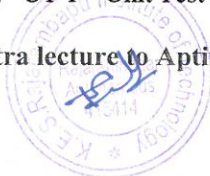
ISE = In Semester Exam, MSE (UT1+UT2) UT-I = Unit Test-I, UT-II = Unit Test-II

ESE = End Semester Exam

Note\*: Department should allot one extra lecture to Aptitude Training-I in time Table.

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**Program Elective-I**

Sr. No.	Course Code	Domain	Course
1	CS3072	Systems and Machine Learning	Open Source Technologies
2	CS3092	Database and Algorithms	Web Technology
3	CS3112	Application Development	Mobile Application Development
4	CS3132	Network technologies	Network Programming





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**Department:** Computer Science & Engineering

**Class:** T. Y. B. Tech Computer Engineering

**Semester:** VI

Course Code	Course	Teaching scheme			Credits	Evaluation Scheme					
		L	T	P		Scheme	Theory (Marks %)			Practical (Marks %)	
							Max	Min for Passing		Max	Min for Passing
PE*	Program Elective-II	3	-	-	3	ISE	20	40	40	-	-
						UT-1	15				
						UT-2	15				
						ESE	50	40			
PE*	Program Elective-III	3	-	-	3	ISE	20	40	40	-	-
						UT-1	15				
						UT-2	15				
						ESE	50	40			
CS3162	Information Security	3	-	-	3	ISE	20	40	40	-	-
						UT-1	15				
						UT-2	15				
						ESE	50	40			
CS3182	Finance & Accounting	3	-	-	3	ISE	20	40	40	-	-
						UT-1	15				
						UT-2	15				
						ESE	50	40			
CS3202	.NET Programming Lab	2	-	2	3	ISE	-	-	-	50	50
						ESE	-	-	-	50	50
PE*	Program Elective-II Lab	-	-	2	1	ISE	-	-	-	50	50
						ESE	-	-	-	50	50
PE*	Program Elective-III Lab	-	-	2	1	ISE	-	-	-	50	50
						ESE	-	-	-	50	50
SH3052	Aptitude Training-II	2*	-	-	2	ISE	20	40	40	-	-
						UT-1	15				
						UT-2	15				
						ESE	50	40			
CS3382	Comprehensive Exam - IV	-	-	2	1	ESE	-	-	-	100	50
CS3402	Mini Project	-	-	2	1	ISE	-	-	-	100	50
<b>Total</b>		<b>16</b>	<b>-</b>	<b>10</b>	<b>21</b>						

**Total Contact Hours/week : 26**

**Total Credits : 21**

**Comprehensive Exam Subjects : Program Elective-II, Program Elective-III**

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

ESE = End Semester Exam

Effective From: Academic Year 2018 - 19





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Note\*: Department should allot one extra lecture to Aptitude Training-II in time Table.

### Program Elective-II

Sr. No.	Course Code	Domain	Course
1	CS3002	Systems and Machine Learning	Linux Operating System – II
2	CS3222		Linux Operating System – II Lab
3	CS3022	Database and Algorithms	Advanced Algorithms
4	CS3242		Advanced Algorithms Lab
5	CS3042	Application Development	Parallel Programming
6	CS3262		Parallel Programming Lab
7	CS3062	Network technologies	Cloud Computing
8	CS3282		Cloud Computing Lab

### Program Elective-III

Sr. No.	Course Code	Domain	Course
1	CS3082	Systems and Machine Learning	Soft Computing
2	CS3302		Soft Computing Lab
3	CS3102	Database and Algorithms	Advanced Database System
4	CS3322		Advanced Database System Lab
5	CS3122	Application Development	Object Oriented Modelling and Design
6	CS3342		Object Oriented Modelling and Design Lab
7	CS3142	Network technologies	Technology Trends
8	CS3362		Technology Trends Lab







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**Department:** Computer Science & Engineering

**Class:** B. Tech Computer Engineering

**Semester:** VII

Course Code	Course	Teaching scheme			Credits	Evaluation Scheme					
		L	T	P		Scheme	Theory (Marks %)		Practical (Marks %)		
							Max	Min for Passing	Max	Min for Passing	
OE*	Open Elective-IV	3	-	-	3	ISE	20	40	40	-	-
						UT-1	15				
						UT-2	15				
						ESE	50	40			
CS4012	Machine Learning	3	-	-	3	ISE	20	40	40	-	-
						UT-1	15				
						UT-2	15				
						ESE	50	40			
PE*	Program Elective-IV	2	-	-	2	ISE	20	40	40	-	-
						UT-1	15				
						UT-2	15				
						ESE	50	40			
PE*	Program Elective-V	2	-	-	2	ISE	20	40	40	-	-
						UT-1	15				
						UT-2	15				
						ESE	50	40			
SH3022	Biology for Engineers	3	-	-	3	ISE	20	40	40	-	-
						UT-1	15				
						UT-2	15				
						ESE	50	40			
CS4192	Machine Learning Lab	-	-	2	1	ISE	-	-	-	50	50
						ESE	-	-	-	50	50
PE*	Program Elective-IV Lab	-	-	2	1	ISE	-	-	-	50	50
						ESE	-	-	-	50	50
PE*	Program Elective-V Lab	-	-	2	1	ISE	-	-	-	50	50
						ESE	-	-	-	50	50
*	Phase-I	-	-	2	1	ISE	-	-	-	100	50
<b>Total</b>		<b>13</b>	<b>-</b>	<b>8</b>	<b>17</b>						

Sr. No.	Choice Based Track	Phase –I Details	Course Code
1	Internship & Project (IIP)	Liberal Learning	IP4012
2	Undergraduate Research Experience (URE)	URE Synopsis	RE4012
3	Entrepreneurship Development (ED)	Prefeasibility Report	ED4012
4	Regular Capstone Project (CP)	CP Synopsis	CS4352





Note: Students will work on Phase-I of choice-based track allotted to them.

**Total Contact Hours/week** : 21

**Total Credits** : 17

**Comprehensive Exam Subjects** :

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

ESE = End Semester Exam

### Open Elective-IV

Sr. No.	Branch	Course Code	Semester-VII Open Elective-IV Courses
1	Automobile	OE4012	Reliability Engineering
2	Automobile	OE4032	Product Design and Development
3	Automobile	OE4052	Design Thinking & Innovation
4	Civil	OE4072	Metro Systems and Engineering.
5	Civil	OE4092	Engineering Economics.
6	Civil	OE4112	Industrial Safety and Risk Management.
7	Computer	OE4132	Cyber Laws
8	Computer	OE4152	Database Administration
9	Electrical	OE4172	Optimization Techniques
10	Electrical	OE4192	Electrical Materials
11	E&TC	OE4212	Mechatronics
12	IT	OE4232	Open Source Software
13	Mechanical	OE4252	Aircraft Systems
14	Mechanical	OE4272	Supply Chain Management
15	Mechanical	OE4292	Non-conventional Energy Sources
16	Mechanical	OE4312	New Product Design and Development
17	MBA	OE4332	Marketing for Engineers

### Program Elective-IV

Sr. No.	Course Code	Domain	Course
1	CS4052	Database and Algorithms	Data Mining
2	CS4212		Data Mining Lab
3	CS4072	Application Development	Software Testing and Quality Assurance
4	CS4232		Software Testing and Quality Assurance Lab
5	CS4092	Network technologies	Wireless Networks
6	CS4252		Wireless Networks Lab





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**Program Elective-V**

Sr. No.	Course Code	Domain	Course
1	CS4112	Systems and Machine Learning	Artificial Intelligence
2	CS4272		Artificial Intelligence Lab
3	CS4132	Database and Algorithms	Software Engineering
4	CS4292		Software Engineering Lab
5	CS4152	Application Development	Advanced Software Engineering
6	CS4312		Advanced Software Engineering Lab
7	CS4172	Network technologies	Internet of Things
8	CS4332		Internet of Things Lab





**Track I: Industry Internship & Projects (IIP)**

**Department:** Computer Science & Engineering

**Class:** Final Year B. Tech

**Semester:** VIII

Sr. No	Course Code	Course	Teaching Scheme			Credits	Evaluation Scheme				
			L	T	P		Scheme	Theory (Marks %)		Practical (Marks %)	
								Max	Min. for passing	Max	Min. for passing
1	IPCS4YYY	Online Course- I/Self learning course-I	-	-	-	3	ESE*	-	-	100	50
2	OE4362	Engineering Management & Economics	-	-	-	2	ESE*	-	-	100	50
3	IP4022	Internship & Project	-	-	-	11	ISE	-	-	50	50
							ESE	-	-	50	50
<b>Total</b>			-	-	-	<b>16</b>					

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

ISE = In Semester Evaluation, ESE = End Semester Exam

**Note:**

1) Online or self-learning course may be:

A) Online Certification Course

B) Self-study course approved by Dean Academics

All courses should be related to Industry project.

2) Engineering Management is Compulsory online course.

\* Indicates that, student needs to produce certificate of online or certification course at the time of ESE. If student fails to produce this certificate, he or she will not be eligible to give ESE of Online course.

3) **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.**





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**Guidelines for subject code of Self-study or online course:**

**1] XX is abbreviation of the department. Abbreviations are given below.**

Mechanical Engineering-ME

Automobile Engineering-AE

Electrical Engineering-EE

Civil Engineering-CE

Information Technology-IT

Computer Science and Engineering-CS

Electronics and Telecommunication Engineering-EC

**2] YYY is individual subject number. Department has to decide this number. While giving the number YYY to the subject following care must be taken**

A] Number should start with 002

B] It should be even number.





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**Track II: Undergraduate Research Experience (URE)**

**Department:** Computer Science & Engineering

**Class:** Final Year B. Tech

**Semester:** VIII

Sr. No	Course Code	Course	Teaching Scheme			Credits	Evaluation Scheme					
			L	T	P		Scheme	Theory (Marks %)		Practical (Marks %)		
								Max	Min. for passing	Max	Min. for passing	
1	RE4022	Research Methodology	3	-	-	3	ISE	20	40	40	-	-
							UT-1	15				
							UT-2	15				
							ESE	50	40			
2	RE4062	Research Methodology Lab	-	-	2	1	ISE	-	-	-	100	50
3	OE4362	Engineering Management & Economics (Online Course)	-	-	-	2	ESE*	-	-	-	100	50
4	RE4042	Research Project	-	-	10	10	ISE	-	-	-	50	50
							ESE	-	-	-	50	50
<b>Total</b>			<b>3</b>	<b>-</b>	<b>12</b>	<b>16</b>						

**Total Contact Hours/week : 15**

**Total Credits : 16**

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

**Note:**

1] Engineering Management is Compulsory online course.

\* For Online Certification course, student needs to produce certificate of online course at the time of ESE. If student fails to produce this certificate, he or she will not be eligible to give ESE of Online course.

All courses should be related to research project.





**Track III: Entrepreneurship Development (ED)**

**Department:** Computer Science & Engineering

**Class:** Final Year B. Tech

**Semester:** VIII

Sr. No	Course Code	Course	Teaching Scheme			Credits	Evaluation Scheme					
			L	T	P		Scheme	Theory (Marks %)			Practical (Marks %)	
								Max	Min. for passing	Max	Min. for passing	
1	ED4102	Project Management	3	-	-	3	ISE	20	40	40	-	-
						UT-1	15					
						UT-2	15					
						ESE	50					
2	ED4042	Commercial Aspects of the Project	3	-	-	3	ISE	20	40	40	-	-
						UT-1	15					
						UT-2	15					
						ESE	50					
3	ED4062	Entrepreneurship Development Program (EDP)	-	-	-	1	ISE	-	-	-	100	50
4	ED4082	Entrepreneurship Development Project	-	-	9	9	ISE	-	-	-	50	50
							ESE	-	-	-	50	
<b>Total</b>			<b>6</b>	<b>-</b>	<b>9</b>	<b>16</b>						

**Total Contact Hours/week : 15**

**Total Credits : 16**

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





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**Track IV: Regular Capstone Project (CP)**

**Department:** Computer Science & Engineering

**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	
PE*	Program Elective-VI	3	-	-	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15	-	-		
						ESE	50	40	-	-	
OE*	Open Elective-V	3	-	-	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15	-	-		
						ESE	50	40	-	-	
OE4362	Engineering Management & Economics (Online Course)	-	-	-	2	ESE*	-	-	-	100	50
CS4082	Capstone Project	-	-	8	8	ISE	-	-	-	50	50
						ESE	-	-	-	50	50
<b>TOTAL</b>		<b>6</b>	<b>-</b>	<b>8</b>	<b>16</b>						

**Total Contact Hours/week : 14**

**Total Credits : 16**

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

1] Engineering Management is Compulsory online course.

\* For Online Certification course, student needs to produce certificate of online course at the time of ESE. If student fails to produce this certificate, he or she will not be eligible to give ESE of Online course







**K.E. Society's**  
**Rajarambapu Institute of Technology, Sakharale**  
(An Autonomous Institute, affiliated to Shivaji University, Kolhapur)  
Curriculum Structure and Evaluation  
To be implemented by **2018 - 2019**  
Rev: CSE Course Structure/RIT/02/2018-19

### Program Elective-VI

Sr. No.	Course Code	Domain	Course
1	CS4002	Systems and Machine Learning	Natural Language Processing
2	CS4022	Database and Algorithms	Big Data Analytics
3	CS4042	Application Development	Principles and Practices for IT Management
4	CS4062	Network technologies	Computer Graphics and Virtual Reality

### Open Elective-V

Sr. No.	Branch	Course Code	Semester-VIII Open Elective-V Courses
1	Automobile	OE4022	Renewable Energy Sources
2	Automobile	OE4042	Transport Management
3	Automobile	OE4062	Electric and Hybrid Electrical Vehicle
4	Civil	OE4082	Smart Cities and Sustainable Development.
5	Civil	OE4102	Material Management.
6	Computer	OE4122	Network Administration
7	Computer	OE4142	Information Technology Foundation Program
8	Electrical	OE4162	Finance Management
9	Electrical	OE4182	Electrical Installations and Maintenance
10	E&TC	OE4202	Image Processing
11	IT	OE4222	Information Technology and Business Management
12	Mechanical	OE4242	Computational Fluid Dynamics
13	Mechanical	OE4262	Entrepreneurship Development
14	Mechanical	OE4282	Hybrid Vehicles
15	Mechanical	OE4302	Maintenance Management
16	Mechanical	OE4322	Reverse Engineering and Benchmarking
17	MBA	OE4342	Finance for Engineers

