



K.E. Society's
Rajarambapu Institute of Technology, Sakharale
 (An Autonomous Institute, affiliated to Shivaji University, Kolhapur)
Curriculum Structure and Evaluation Scheme
 (To be implemented from Academic Year 2018-19)

Rev: Auto Course Structure/RIT/02/2018-19

Department: Automobile Engineering

Class: S. Y. B. Tech.

Semester: III

Course Code	Course	Teaching Scheme				Evaluation Scheme					
		L	T	P	Credits	Scheme	Theory (Marks %)		Practical (Marks %)		
							Maxi.	Min. for passing	Maxi.	Min. for passing	
SH2032	Engineering Mathematics – III	3	1	-	4	ISE	20	40	40	----	----
						UT1	15			----	----
						UT2	15	----	----		
						ESE	50	40	----	----	
AE2032	Applied Thermodynamics	3	-	-	3	ISE	20	40	40	----	----
						UT1	15			----	----
						UT2	15	----	----		
						ESE	50	40	----	----	
CE2032	Engineering Mechanics	3	-	-	3	ISE	20	40	40	----	----
						UT1	15			----	----
						UT2	15	----	----		
						ESE	50	40	----	----	
AE2052	Fluid Mechanics & Fluid Machinery	3	-	-	3	ISE	20	40	40	----	----
						UT1	15			----	----
						UT2	15	----	----		
						ESE	50	40	----	----	
AE2072	Material Science and Metallurgy	3	-	-	3	ISE	20	40	40	----	----
						UT1	15			----	----
						UT2	15	----	----		
						ESE	50	40	----	----	
SH2172	Environmental Science	1*	-	-	1	ISE	100	50	----	----	
AE2092	Workshop Practice - I	-	-	2	1	ISE	----	----	100	50	
CE2172	Engineering Mechanics Lab.	-	-	2	1	ISE	----	----	50	50	
AE2112	Thermal Engg. Lab.	-	-	2	1	ISE	----	----	50	50	
						ESE	----	----	50	50	
AE2132	Fluid Mechanics & Fluid Machinery Lab.	-	-	2	1	ISE	----	----	50	50	
						ESE	----	----	50	50	
AE2152	Comprehensive Exam. - I	-	-	-	1	ESE	100	50	----	----	
	Open Elective – II Choice Based Soft Skill Program - I	-	-	2	1	ISE	----	----	100	50	
SH2602	Environmental Science Project	-	-	2	1	ISE	100	50	----	----	
	TOTAL	16	1	12	24						

Total Contact Hours/week: 29

Total Credits: 24

Comprehensive Exam. Courses: Applied Thermodynamics, Fluid Mechanics & Fluid Machinery, Engineering Mechanics, Material Science & Metallurgy

ISE = In Semester Evaluation, UT1 = Unit Test-I, UT2 = Unit Test-II, ESE = End Semester Examination

Note*: Department should allot one extra lecture to Environment Science in time Table.





K.E. Society's
Rajarambapu Institute of Technology, Sakharale
(An Autonomous Institute, affiliated to Shivaji University, Kolhapur)
Curriculum Structure and Evaluation Scheme
(To be implemented from Academic Year 2018-19)

Rev: Auto Course Structure/RIT/02/2018-19

Open Elective – II: Students should select any one course form the list of Choice Based Soft Skill Program – I.

Open Elective – II

Choice Based Soft Skill Program-I

Sr. No.	Course 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

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.





K.E. Society's
Rajarambapu Institute of Technology, Sakharale
 (An Autonomous Institute, affiliated to Shivaji University, Kolhapur)
Curriculum Structure and Evaluation Scheme
 (To be implemented from Academic Year 2018-19)

Rev: Auto Course Structure/RIT/02/2018-19

Department: Automobile Engineering
Class: S. Y. B. Tech.

Semester: IV

Course Code	Course	Teaching Scheme				Evaluation Scheme					
		L	T	P	Credits	Scheme	Theory (Marks %)		Practical (Marks %)		
							Maxi.	Min. for passing	Maxi.	Min. for passing	
AE2022	Theory of Machines	3	-	-	3	ISE	20	40	40	----	----
						UT1	15			----	----
						UT2	15	----	----		
						ESE	50	40	----	----	
AE2042	Heat Transfer	3	-	-	3	ISE	20	40	40	----	----
						UT1	15			----	----
						UT2	15	----	----		
						ESE	50	40	----	----	
AE2062	Electric Drives and Controls	3	-	-	3	ISE	20	40	40	----	----
						UT1	15			----	----
						UT2	15	----	----		
						ESE	50	40	----	----	
AE2082	Mechanics of Materials	3	-	-	3	ISE	20	40	40	----	----
						UT1	15			----	----
						UT2	15	----	----		
						ESE	50	40	----	----	
AE2122	Electric Drives and Controls Lab.	-	-	2	1	ISE	----	----	100	50	
AE2142	Kinematics & Dynamics of Machines Lab.	-	-	2	1	ISE	----	----	50	50	
						ESE	----	----	50	50	
AE2162	Heat Transfer Lab.	-	-	2	1	ISE	----	----	50	50	
						ESE	----	----	50	50	
AE2182	Software Skills Laboratory - I	-	-	2	1	ISE	---	---	100	50	
AE2102	Workshop Practice - II	-	-	2	1	ISE	----	----	100	50	
AE2202	Comprehensive Exam.- II	-	-	-	1	ESE	100	50	----	----	
AE2222	Computer Programming C++	-	-	4	2	ISE	----	----	50	50	
						ESE	----	----	50	50	
	Open Elective – III Choice Based Soft Skill Program - II	-	-	2	1	ISE	----	----	100	50	
	TOTAL	12	-	16	21						

Total Contact Hours/week : 28
Total Credits : 21

Comprehensive Exam. Subjects : Theory of Machines, Strength of Materials, Heat Transfer

ISE = In Semester Evaluation, UT1 = Unit Test-I, UT2 = Unit Test-II, ESE = End Semester Examination
 Open Elective – IV: Students should select any one course form the list of Choice Based Soft Skill Program – II.

Note: Students are required to undergo Summer Internship –I (Garage Training) of minimum four weeks in the vacation of Semester-IV and its evaluation will be carried out in the Semester-V





K.E. Society's
Rajarambapu Institute of Technology, Sakharale
(An Autonomous Institute, affiliated to Shivaji University, Kolhapur)
Curriculum Structure and Evaluation Scheme
(To be implemented from Academic Year 2018-19)

Rev: Auto Course Structure/RIT/02/2018-19

Open Elective – III

Choice Based Soft Skill Program- II

Sr. No.	Course 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 – Advanced Level	SH2642
6.	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.





K.E. Society's
Rajarambapu Institute of Technology, Sakharale
 (An Autonomous Institute, affiliated to Shivaji University, Kolhapur)
Curriculum Structure and Evaluation Scheme
 (To be implemented from Academic Year 2018-19)

Rev: Auto Course Structure/RIT/02/2018-19

Department: Automobile Engineering

Class: T. Y. B. Tech.

Semester: V

Course Code	Course	Teaching Scheme				Evaluation Scheme					
		L	T	P	Credits	Scheme	Theory (Marks %)		Practical (Marks %)		
							Maxi.	Min. for passing	Maxi.	Min. for passing	
AE3012	Internal Combustion Engines	3	-	-	3	ISE	20	40	40	----	----
						UT1	15			----	----
						UT2	15	----	----		
						ESE	50	40	----	----	
AE3032	Automotive Systems	3	-	-	3	ISE	20	40	40	----	----
						UT1	15			----	----
						UT2	15	----	----		
						ESE	50	40	----	----	
AE3052	Automotive Electrical & Electronics	3	-	-	3	ISE	20	40	40	----	----
						UT1	15			----	----
						UT2	15	----	----		
						ESE	50	40	----	----	
AE3072	Manufacturing Technology	3	-	-	3	ISE	20	40	40	----	----
						UT1	15			----	----
						UT2	15	----	----		
						ESE	50	40	----	----	
	Program Elective-I	3	-	-	3	ISE	20	40	40	----	----
						UT1	15			----	----
						UT2	15	----	----		
						ESE	50	40	----	----	
AE3232	I. C. Engine Lab.	-	-	2	1	ISE	----	----	50	50	
AE3252	Automobile Engineering Lab.	-	-	2	1	ESE	----	----	50	50	
						ISE	----	----	50	50	
AE3272	Workshop Practice - III	-	-	2	1	ESE	----	----	50	50	
						ISE	----	----	50	50	
SH3032	Aptitude Training -I	2*	-	-	2	ISE	20	40	40	----	----
						UT-1	15			----	----
						UT-2	15	----	----		
						ESE	50	40	----	----	
SH3012	Constitution of India	2	-	-	Audit	ISE	100	50	----	----	
AE3292	Comprehensive Exam. - III	-	-	2	1	ESE	100	50	----	----	
AE3312	Summer Internship - I	-	-	-	2	ISE	----	----	100	50	
TOTAL		19	-	08	23				100	50	

Total Contact Hours/week : 27

Total Credits : 23

Comprehensive Exam. Courses: Internal Combustion Engines, Automotive Systems, Manufacturing Technology

ISE = In Semester Evaluation, UT1 = Unit Test-I, UT2 = Unit Test-II, ESE = End Semester Examination

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





K.E. Society's

Rajarambapu Institute of Technology, Sakharale

(An Autonomous Institute, affiliated to Shivaji University, Kolhapur)

Curriculum Structure and Evaluation Scheme

(To be implemented from Academic Year 2018-19)

Rev: Auto Course Structure/RIT/02/2018-19

Program Elective – I:

Sr. No.	Course Code	Domain	Course
1	AE3092	Vehicle Design & Development	Automotive Styling and Design
2	AE3112	Production and Manufacturing	Automotive Production Systems
3	AE3132		Welding and Joining Technology
4	AE3152	Current & Future Technology	Hydraulics and Pneumatics
5	AE3172		Painting Technology
6	AE3192	Product Life cycle Management & Services	Tribology
7	AE3212		Recycling of Automobile





K.E. Society's
Rajarambapu Institute of Technology, Sakharale
 (An Autonomous Institute, affiliated to Shivaji University, Kolhapur)
Curriculum Structure and Evaluation Scheme
 (To be implemented from Academic Year 2018-19)

Rev: Auto Course Structure/RIT/02/2018-19

Department: Automobile Engineering

Class: T. Y. B. Tech.

Semester: VI

Course Code	Course	Teaching Scheme				Evaluation Scheme					
		L	T	P	Credits	Scheme	Theory (Marks %)		Practical (Marks %)		
							Maxi.	Min. for passing	Maxi.	Min. for passing	
AE3022	Machine & Engine Design	3	1	-	4	ISE	20	40	40	----	----
						UT1	15			----	----
						UT2	15	----	----		
						ESE	50	40	----	----	
AE3042	Automotive Embedded Systems	2	-	-	2	ISE	20	40	40	----	----
						UT1	15			----	----
						UT2	15	----	----		
						ESE	50	40	----	----	
AE3062	Electric & Hybrid Vehicles	2	-	-	2	ISE	20	40	40	----	----
						UT1	15			----	----
						UT2	15	----	----		
						ESE	50	40	----	----	
	Program Elective - II	3	-	-	3	ISE	20	40	40	----	----
						UT1	15			----	----
						UT2	15	----	----		
						ESE	50	40	----	----	
SH3022	Biology For Engineers	2	-	-	2	ISE	20	40	40	----	----
						UT1	15			----	----
						UT2	15	----	----		
						ESE	50	40	----	----	
AE3202	Electric & Hybrid Vehicles Lab.	-	-	2	1	ISE	----	----	50	50	
AE3222	Automotive Diagnostic 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	----	----	
AE3242	Mini Project	-	-	2	1	ISE	----	----	100	50	
AE3262	Software Skills Laboratory - II	-	-	2	1	ISE	----	----	100	50	
AE3282	Comprehensive Exam.- IV	-	-	-	1	ESE	100	50	----	----	
TOTAL		14	1	08	20						

Total Contact Hours/week : 23

Total Credits : 20

Comprehensive Exam. Courses: Machine & Engine Design, Electric & Hybrid Vehicles, Automotive Embedded Systems

ISE = In Semester Evaluation, UT1 = Unit Test-I, UT2 = Unit Test-II, ESE = End Semester Examination

Note: Students are required to undergo Summer Internship – II (Industrial Training) of minimum four weeks in the vacation of Semester-VI and its evaluation will be carried out in the Semester-VII





K.E. Society's
Rajarambapu Institute of Technology, Sakharale
(An Autonomous Institute, affiliated to Shivaji University, Kolhapur)
Curriculum Structure and Evaluation Scheme
(To be implemented from Academic Year 2018-19)

Rev: Auto Course Structure/RIT/02/2018-19

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

Program Elective - II:

Sr. No.	Course Code	Domain	Course
1	AE3082	Vehicle Design & Development	Product Design and Development
2	AE3102	Production and Manufacturing	Product Life Cycle Management
3	AE3122		Jigs and Fixture
4	AE3142	Current & Future Technology	Engine & Battery Management Systems
5	AE3162		Automotive Sensors and Applications
6	AE3182	Product Life cycle Management & Services	Automotive Diagnostics





K.E. Society's
Rajarambapu Institute of Technology, Sakharale
 (An Autonomous Institute, affiliated to Shivaji University, Kolhapur)
Curriculum Structure and Evaluation Scheme
 (To be implemented from Academic Year 2018-19)

Rev: Auto Course Structure/RIT/02/2018-19

Department: Automobile Engineering
Class: Final Year B. Tech.

Semester: VII

Course Code	Course	Teaching Scheme				Evaluation Scheme					
		L	T	P	Credits	Scheme	Theory (Marks %)		Practical (Marks %)		
							Maxi.	Min. for passing	Maxi.	Min. for passing	
AE4012	Automotive System Design	3	-	-	3	ISE	20	40	40	----	----
						UT1	15			----	----
						UT2	15			----	----
						ESE	50			40	----
AE4032	Vehicle Dynamics	3	-	-	3	ISE	20	40	40	----	----
						UT1	15			----	----
						UT2	15			----	----
						ESE	50			40	----
	Program Elective - III	2	-	-	2	ISE	20	40	40	----	----
						UT1	15			----	----
						UT2	15			----	----
						ESE	50			40	----
	Program Elective - IV	3	-	-	3	ISE	20	40	40	----	----
						UT1	15			----	----
						UT2	15			----	----
						ESE	50			40	----
	Open Elective - IV	3	-	-	3	ISE	20	40	40	----	----
						UT1	15			----	----
						UT2	15			----	----
						ESE	50			40	----
AE4312	Vehicle Performance Evaluation & Emission Testing Lab.	-	-	2	1	ISE	----	----	50	50	
						ESE	----	----	50	50	
	Program Elective - IV Lab.	-	-	2	1	ISE	----	----	50	50	
						ESE	----	----	50	50	
	Phase -I	-	-	2	1	ISE	----	----	100	50	
AE4702	Summer Internship - II	-	-	-	2	ISE	---	---	100	50	
TOTAL		14	-	6	19				100	50	

Total Contact Hours/week : 20
Total Credits : 19

ISE = In Semester Evaluation, UT1 = Unit Test-I, UT2 = Unit Test-II, ESE = End Semester Examination

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	AE4332

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





K.E. Society's
Rajarambapu Institute of Technology, Sakharale
 (An Autonomous Institute, affiliated to Shivaji University, Kolhapur)
Curriculum Structure and Evaluation Scheme
 (To be implemented from Academic Year 2018-19)

Rev: Auto Course Structure/RIT/02/2018-19

Program Elective – III:

Sr. No.	Course Code	Domain	Course
1	AE4052	Vehicle Design & Development	Design of Vehicle Operated Farm Equipments
2	AE4072	Production and Manufacturing	Sheet Metal Manufacturing
3	AE4092		Advanced Automotive Materials
4	AE4112	Current & Future Technology	Intelligent Transport System
5	AE4132		Automotive HVAC
6	AE4152	Product Life cycle Management & Services	Dealership Management

Program Elective – IV:

Sr. No.	Course Code	Domain	Course
1	AE4172	Vehicle Design & Development	Finite Element Methods
2	AE4192		Automotive NVH
3	AE4212	Production and Manufacturing	Reverse Engineering
4	AE4232		Nano and Micro Technology
5	AE4252	Current & Future Technology	Automotive Safety
6	AE4272		Automotive Emission Control
7	AE4292	Product Life cycle Management & Services	Motor Vehicle Insurance Practices

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





K.E. Society's
Rajarambapu Institute of Technology, Sakharale
(An Autonomous Institute, affiliated to Shivaji University, Kolhapur)
Curriculum Structure and Evaluation Scheme
(To be implemented from Academic Year 2018-19)

Rev: Auto Course Structure/RIT/02/2018-19

Program Elective – IV Lab.:

Sr. No.	Course Code	Domain	Course
1	AE4332	Vehicle Design & Development	Finite Element Methods Lab.
2	AE4352		Automotive NVH Lab.
3	AE4372	Production and Manufacturing	Reverse Engineering Lab.
4	AE4392		Nano and Micro Technology Lab.
5	AE4412	Current & Future Technology	Automotive Safety Lab.
6	AE4432		Automotive Emission Control Lab.
7	AE4452	Product Life cycle Management & Services	Motor Vehicle Insurance Practices Lab.





K.E. Society's

Rajarambapu Institute of Technology, Sakharale
(An Autonomous Institute, affiliated to Shivaji University, Kolhapur)
Curriculum Structure and Evaluation Scheme
(To be implemented from Academic Year 2018-19)

Rev: Auto Course Structure/RIT/02/2018-19

Track I: Industry Internship & Projects (IIP)

Department: Automobile 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 %)	
								Maxi.	Min. for passing	Maxi.	Min. for passing
1	IPAE4022	Online Course- I/Self Learning Course - I	-	-	-	3	ESE*	----	----	100	50
2	OE4362	Engineering Management & Economics (Online Course)	-	-	-	2	ESE*	----	----	100	50
3	IP4022	Internship & Project	-	-	-	11	ISE	----	----	50	50
							ESE	----	----	50	50
Total			-	-	-	16					

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 AcademicsAll 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.





K.E. Society's
Rajarambapu Institute of Technology, Sakharale
 (An Autonomous Institute, affiliated to Shivaji University, Kolhapur)
Curriculum Structure and Evaluation Scheme
 (To be implemented from Academic Year 2018-19)

Rev: Auto Course Structure/RIT/02/2018-19

Track II: Undergraduate Research Experience (URE)

Department: Automobile 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 %)		
								Maxi.	Min. for passing	Maxi.	Min. for passing	
1	RE4022	Research Methodology	3	-	-	3	ISE	20	40	40	----	----
						UT-1	15					
						UT-2	15					
						ESE	50					
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	
Total			3	-	12	16						

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 & Economics 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.





K.E. Society's
Rajarambapu Institute of Technology, Sakharale
 (An Autonomous Institute, affiliated to Shivaji University, Kolhapur)
Curriculum Structure and Evaluation Scheme
 (To be implemented from Academic Year 2018-19)

Rev: Auto Course Structure/RIT/02/2018-19

Track III: Entrepreneurship Development (ED)

Department: Automobile 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 %)		
								Maxi.	Min. for passing	Maxi.	Min. for passing	
1	ED4102	Project Management	3	-	-	3	ISE	20	40	40	----	----
							UT-1	15				
							UT-2	15				
							ESE	50	40			
2	ED4042	Commercial Aspects of the Project	3	-	-	3	ISE	20	40	40	----	----
							UT-1	15				
							UT-2	15				
							ESE	50	40			
3	ED4062	Entrepreneurship Development Program (EDP)	-	-	-	1	ISE	----	----	100	50	
4	ED4082	Entrepreneurship Development Project	-	-	9	9	ISE	----	----	50	50	
							ESE	----	----	50		
Total			6	-	9	16						

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





K.E. Society's
Rajarambapu Institute of Technology, Sakharale
 (An Autonomous Institute, affiliated to Shivaji University, Kolhapur)
Curriculum Structure and Evaluation Scheme
 (To be implemented from Academic Year 2018-19)

Rev: Auto Course Structure/RIT/02/2018-19

Track IV: Regular Capstone Project (CP)

Department: Automobile Engineering

Class: Final Year B. Tech.

Semester: VIII

Course Code	Course	Teaching Scheme				Evaluation Scheme					
		L	T	P	Credits	Scheme	Theory (Marks %)		Practical (Marks %)		
							Maxi.	Min. for passing	Maxi.	Min. for passing	
	Program Elective-V	3	-	-	3	ISE	20	40	40	----	----
						UT1	15			----	----
						UT2	15			----	----
						ESE	50			40	----
	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	
AE4202	Capstone Project			8	8	ISE	----	----	50	50	
						ESE	----	----	50	50	
TOTAL		6	-	08	16						

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 & Economics 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 Scheme
(To be implemented from Academic Year 2018-19)

Rev: Auto Course Structure/RIT/02/2018-19

Program Elective – V:

Sr. No.	Course Code	Domain	Course
1	AE4022	Vehicle Design & Development	Computational Fluid Dynamics
2	AE4042		Experimental Stress Analysis
3	AE4062	Production and Manufacturing	Operations Research
4	AE4082		Inventory Management
5	AE4102	Current & Future Technology	Special Purpose Vehicle
6	AE4122		Vehicle Aerodynamics
7	AE4142	Product Life cycle Management & Services	Reliability Centered Maintenance
8	AE4162		Transport Management

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

