

ACADEMIC CURRICULA

UNDERGRADUATE DEGREE PROGRAMMES

Bachelor of Technology

(B.Tech. - Four Years)

(Choice Based Flexible Credit System)

Regulations 2018

Volume - 1

(Revised in March 2019)



SRM

INSTITUTE OF SCIENCE & TECHNOLOGY
(Deemed to be University u/s 3 of UGC Act, 1956)

**SRM INSTITUTE OF SCIENCE AND
TECHNOLOGY**

(Deemed to be University u/s 3 of UGC Act, 1956)

**Kattankulathur, Kancheepuram District 603203, Tamil Nadu,
India**

2. B.Tech. in Automobile Engineering

2. (a) Mission of the Department

Mission Stmt - 1	To impart students with quality education centered on altering global requirements and add values to their career desires
Mission Stmt - 2	To enhance the knowledge and skill of students in collaboration with public and private sectors
Mission Stmt - 3	To identify and acknowledge economic, social and environmental issues that influences the quality of life in the vicinity and the globe
Mission Stmt - 4	To inculcate leadership qualities needed for automotive industries through robust curriculum with international outlook for sustainable future
Mission Stmt - 5	To build trust and co-operation at the workplace through effective inter-personal and communication skills

2. (b) Program Educational Objectives (PEO)

PEO - 1	Pursue advanced education, research and development, and other creative and innovative efforts in Automobile engineering
PEO - 2	Successfully apply analytical techniques, problem-solving skills necessary to adapt to technological changes and for a career in the field of automobile and mechanical engineering
PEO - 3	Implement their engineering knowledge acquired from projects, laboratory experimentation, classroom lectures and demonstrations to acknowledge the full range of technical and associated environmental issues
PEO - 4	Efficaciously use their communication skills in oral, written, visual and graphic modes within interpersonal, team, and group environments
PEO - 5	Retain the intellectual curiosity that motivates lifelong learning making them versatile to the rapidly evolving industrial challenges

2. (c) Mission of the Department to Program Educational Objectives (PEO) Mapping

	Mission Stmt. - 1	Mission Stmt. - 2	Mission Stmt. - 3	Mission Stmt. - 4	Mission Stmt. - 5
PEO - 1	H	M	M	L	L
PEO - 2	H	M	M	H	L
PEO - 3	H	H	M	M	H
PEO - 4	M	H	H	M	H
PEO - 5	H	M	H	H	M

H – High Correlation, M – Medium Correlation, L – Low Correlation

2. (d) Mapping Program Educational Objectives (PEO) to Program Learning Outcomes (PLO)

	Program Learning Outcomes (PLO)													Program Specific Outcomes (PSO)		
	Graduate Attributes (GA)															
	Engineering Knowledge	Problem Analysis	Design & Development	Analysis, Design, Research	Modern Tool Usage	Society & Culture	Environment & Sustainability	Ethics	Individual & Team Work	Communication	Project Mgt. & Finance	Life Long Learning	PSO - 1	PSO - 2	PSO - 3	
PEO - 1	H	L	M	M	H	L	L	M	M	H	L	H	H	M	H	
PEO - 2	H	H	M	H	M	L	L	L	H	M	M	H	M	M	H	
PEO - 3	H	H	H	H	H	H	H	H	H	M	M	H	H	H	H	
PEO - 4	L	M	L	L	M	L	M	H	H	H	M	M	M	M	L	
PEO - 5	M	M	M	M	M	H	M	H	H	M	M	M	M	M	M	

H – High Correlation, M – Medium Correlation, L – Low Correlation

PSO – Program Specific Outcomes (PSO)

PSO - 1	Ability to implement the knowledge of the design, manufacture, and maintenance of major subsystems and technologies associated with automobiles for sustainable professional career
PSO - 2	Ability to comprehend and communicate effectively within a multidisciplinary working environment in the context of the emerging technologies.
PSO - 3	Ability to acquire technical and managerial skill that makes them an employable graduate.

2. (e) Program Structure: B.Tech. in Automobile Engineering

Humanities & Social Sciences including Management Courses (H)				
Course Code	Course Title	Hours/ Week		
		L	T	P
18LEH101J	English	2	0	2
18LEH102J	Chinese			
18LEH103J	French			
18LEH104J	German	2	0	2
18LEH105J	Japanese			
18LEH106J	Korean			
18PDH101T	General Aptitude	0	0	2
18PDH102T	Management Principles for Engineers	2	0	0
18PDH103T	Social Engineering	2	0	0
18PDH201T	Employability Skills & Practices	0	0	2
Total Learning Credits				12
Engineering Science Courses (S)				
Course Code	Course Title	Hours/ Week		
		L	T	P
18MES101L	Engineering Graphics and Design	1	0	4
18MES102J	Basic Civil and Mechanical Engineering	3	1	2
18EES102L	Electrical and Electronics Eng. Workshop	1	0	4
18CSS101J	Programming for Problem Solving	3	0	4
18AUS101L	Artifact Dissection Laboratory	0	0	2
18MES201T	Engineering Mechanics	3	1	0
Total Learning Credits				21
Project Work, Seminar, Internship In Industry / Higher Technical Institutions (P)				
Course Code	Course Title	Hours/ Week		
		L	T	P
18AUP101L	Massive Open Online Course - I			
18AUP102L	Industrial Training-I	0	0	2
18AUP103L	Seminar - I			
18AUP104L	Massive Open Online Course - II			
18AUP105L	Industrial Training-II	0	0	2
18AUP106L	Seminar - II			
18AUP107L	Minor Project	0	0	6
18AUP108L	Internship (4-6 weeks)			
18AUP109L	Project	0	0	20
18AUP110L	Semester Internship			
Total Learning Credits				15
Open Elective Courses (Any 3 Courses)				
Course Code	Course Title	Hours/ Week		
		L	T	P
18AUO101T	Hybrid and Electric Vehicles	3	0	0
18AUO102T	Renewable Sources of Energy	3	0	0
18AUO103T	Special Type of Vehicles	3	0	0
18AUO104T	Fuel Cells and Applications	3	0	0
18AUO105T	Transport Management	3	0	0
18AUO106T	Composite Materials for Automotive Applications	3	0	0
18AUO107T	Non Destructive Testing and evaluation	3	0	0
18AUO108T	Advanced engine technology	3	0	0
18AUO109T	New Product Development	3	0	0
18AUO110T	Automotive standards and regulations	3	0	0
18AUO111T	Automotive Sciences	3	0	0
18AUO112T	Intelligent Vehicle Technology	3	0	0
Total Learning Credits				9
Basic Science Courses (B)				
Course Code	Course Title	Hours/ Week		
		L	T	P
18PYB101J	Physics: Electromagnetic Theory, Quantum Mechanics, Waves and Optics	3	1	2
18CYB101J	Chemistry	3	1	2
18MAB101T	Calculus and Linear Algebra	3	1	0
18MAB102T	Advanced Calculus and Complex Analysis	3	1	0
18MAB201T	Transforms and Boundary Value Problems	3	1	0
18MAB202T	Numerical Methods for Engineers	3	1	0
18BTB101T	Biology	2	0	0
Total Learning Credits				28
Professional Core Courses (C)				
Course Code	Course Title	Hours/ Week		
		L	T	P
15MEC101T	Thermodynamics	3	1	0
18AUC201J	Manufacturing Technology for Automotive Engineers	3	0	2
18AUC204L	Automotive Components and Assembly drawing	0	0	4
18MEC106T	Mechanics of Solids	3	1	0
18AUC203T	Applied Thermal Engineering for Automotive Engineers	3	1	0
18MEC102T	Fluid Mechanics	3	1	0
18MEC109L	Strength of Materials Laboratory	0	0	2
18MEC104T	Fluid Dynamics Laboratory	0	0	2
18AUC301J	Automotive Engines	3	0	2
18MEC108T	Materials Technology	3	0	0
18MEC201T	Machines and Mechanisms	3	1	0
18AUC302J	Vehicular Structures and Driveline Systems	3	0	2
18MEC111L	Materials Technology Laboratory	0	0	2
18AUC303J	Automotive Electrical and Electronic Systems	3	0	2
18AUC304J	CAD Analysis for Automotive Engineers	3	0	2
18AUC305T	Design of Automotive Components	3	0	0
18AUC401J	Vehicle Dynamics	3	0	2
18AUC402L	Vehicle Testing Laboratory	0	0	2
18AUC350T	Comprehension	0	1	0
Total Learning Credits				57
Mandatory Courses (M)				
Code	Course Title	Hours/ Week		
		L	T	P
18PDM101L	Professional Skills and Practices	0	0	2
18PDM201L	Competencies in Social Skills	0	0	2
18PDM203L	Entrepreneurial Skill Development			
18PDM202L	Critical and Creative Thinking Skills	0	0	2
18PDM204L	Business Basics for Entrepreneurs			
18PDM301L	Analytical and Logical Thinking Skills	0	0	2
18PDM302L	Entrepreneurship Management			
18LEM101T	Constitution of India	1	0	0
18LEM102J	Value Education	1	0	1
18GNM101L	Physical and Mental Health using Yoga	0	0	2
18GNM102L	NSS			
18GNM103L	NCC	0	0	2
18GNM104L	NSO			
18LEM109T	Indian Traditional Knowledge	1	0	0
18LEM110L	Indian Art Form	0	0	2
18CYM101T	Environmental Science	1	0	0

Professional Elective Courses (E) (Any 6 Courses)								Professional Elective Courses (E)							
Course Code	Course Title	Hours/ Week				C	Course Code	Course Title	Hours/ Week				C		
		L	T	P					L	T	P				
	Sub-stream: Manufacturing							Sub-stream: Design							
18AUE321T	Automotive Components Manufacturing	3	0	0	3		18AUE341T	Automotive Driveline Design	3	0	0	3			
18AUE322T	Welding and Joining Technique	3	0	0	3		18AUE342T	Automotive Chassis Component Design	3	0	0	3			
18AUE323T	Automotive Surface Engineering	3	0	0	3		18AUE344T	Concepts of Engineering Design	3	0	0	3			
18AUE324T	Agile Manufacturing	3	0	0	3		18AUE345T	Rapid prototyping and tooling	3	0	0	3			
18AUE325T	Manufacturing Systems and Simulation	3	0	0	3		18AUE346T	Modeling and Control of Vibration in Mechanical Systems	3	0	0	3			
18AUE326T	Composite Materials and Structures	3	0	0	3		18AUE347T	Geometrical Dimensioning and Tolerance	3	0	0	3			
18AUE327T	Metrology and Measurements	3	0	0	3		18AUE348T	Design for Manufacture	3	0	0	3			
18AUE421T	Advanced Manufacturing Process	3	0	0	3		18AUE441T	Optimization techniques in Engineering Design	3	0	0	3			
18AUE422T	Computer Integrated Manufacturing	3	0	0	3		18AUE442T	Multibody Dynamics	3	0	0	3			
18AUE423T	Process Planning and Cost Estimation	3	0	0	3		18AUE443T	Finite Element Analysis	3	0	0	3			
18AUE424T	Automotive Quality Systems	3	0	0	3		18AUE444T	Design of Experiments	3	0	0	3			
18AUE425T	Industrial Engineering and Operational Research	3	0	0	3		18AUE445T	Product Life Cycle Management	3	0	0	3			
	Sub-stream: Engine							Sub-stream : Vehicular Technologies							
18AUE331T	Heat ventilation and air conditioning	3	0	0	3		18AUE351T	Auxiliary vehicle systems	3	0	0	3			
18AUE332T	Engine testing and validation	3	0	0	3		18AUE352T	Two and three wheeler technology	3	0	0	3			
18AUE333T	Fuel testing and standards	3	0	0	3		18AUE353T	Vehicle performance and testing	3	0	0	3			
18AUE334T	Automotive exhaust system development	3	0	0	3		18AUE354T	Tyre technology	3	0	0	3			
18AUE335T	Engine auxiliary systems	3	0	0	3		18AUE355T	Motorsport technology	3	0	0	3			
18AUE431T	Design of automotive thermal system	3	0	0	3		18AUE356T	Automotive NVH	3	0	0	3			
18AUE432T	Simulation of Internal Combustion engines	3	0	0	3		18AUE451T	Advanced vehicle technology	3	0	0	3			
18AUE433T	Automotive emission formation and controls	3	0	0	3		18AUE452T	Automotive safety and ergonomics	3	0	0	3			
18AUE434T	Alternative fuels and energy systems	3	0	0	3		18AUE453T	Vehicle maintenance	3	0	0	3			
							18AUE454T	Vehicle body engineering and Aerodynamics	3	0	0	3			
							18AUE455T	Machine Learning Approach for Automotive Applications	3	0	0	3			
							18AUE202T	Sensors, Actuators and Signal Conditioners	3	0	0	3			
							18AUE317J	Automotive Control Engineering	2	0	2	3			

2. (f) Program Articulation: B.Tech. in Automobile Engineering

Course Code	Course Name	Program Learning Outcomes (PLO)												
		Graduate Attributes										PSO		
		Engineering Knowledge	Problem Analysis	Design & Development	Analysis, Design, Research	Modern Tool Usage	Society & Culture	Environment & Sustainability	Ethics	Individual & Team Work	Communication	Project Mgt. & Finance	Life Long Learning	
18AUS101L	Artifact Dissection Laboratory	H	M	L	H	H	L	M	M	H	M	L	H	H
18AUC201J	Manufacturing Technology for Automotive Engineers	H	M	M	M	H	L	M	M	H	M	M	H	H
18AUC203T	Applied Thermal Engineering for Automotive Engineers	H	M	L	L	M	L	M	M	H	H	M	H	H
18AUC204L	Automotive Components and Assembly drawing	H	L	H	L	M	L	L	M	H	H	L	H	H
18AUC301J	Automotive Engines	H	H	M	M	M	L	M	L	M	H	L	H	H
18AUC302J	Vehicular Structures and Driveline Systems	H	H	M	M	M	L	M	L	M	H	L	H	H
18AUC303J	Automotive Electrical and Electronic Systems	H	H	M	M	M	L	M	M	H	M	M	H	H
18AUC304J	CAD Analysis for Automotive Engineers	H	H	H	H	L	L	L	L	M	H	L	M	H
18AUC305T	Design of Automotive Components	H	H	H	H	M	L	L	L	M	M	L	M	H
18AUC401J	Vehicle Dynamics	H	H	H	H	M	M	M	M	H	M	M	H	H
18AUC402L	Vehicle Testing Laboratory	H	H	H	H	M	M	M	M	H	M	M	H	H
18AUE321T	Automotive Components Manufacturing	H	H	M	H	H	L	M	H	H	M	M	H	H
18AUE322T	Welding & Joining Technique	H	M	L	L	H	L	M	M	L	L	H	H	H
18AUE323T	Automotive Surface Engineering	H	M	M	M	H	L	M	M	M	M	L	M	H
18AUE324T	Agile Manufacturing	H	H	L	H	M	M	H	M	H	H	H	H	M
18AUE325T	Manufacturing systems and simulation	H	H	M	M	H	M	M	M	M	M	M	H	H
18AUE326T	Composite Materials and Structures	H	H	H	H	H	H	H	H	M	M	M	H	H
18AUE327T	Metrology and Measurements	H	H	H	H	H	H	M	M	M	M	L	H	H
18AUE421T	Advanced Manufacturing Process	H	M	M	L	H	L	H	M	M	M	M	H	H
18AUE422T	Computer Integrated Manufacturing	H	H	H	M	H	L	H	M	M	H	H	H	M
18AUE423T	Process Planning & Cost Estimation	H	H	M	L	H	L	H	M	M	M	M	H	H
18AUE424T	Automotive Quality Systems	H	L	L	M	M	L	M	M	M	M	M	H	H
18AUE425T	Industrial Engineering & Operational Research	H	H	H	M	H	L	M	M	H	H	H	H	M
18AUE331T	Heat ventilation and air conditioning	H	H	H	M	H	L	M	M	H	H	H	H	M
18AUE332T	Engine testing and validation	H	H	M	H	M	M	M	M	M	L	H	H	M
18AUE333T	Fuel testing and standards	H	M	L	M	L	M	M	L	M	L	M	H	M
18AUE334T	Automotive exhaust system development	H	H	M	M	M	M	M	M	M	M	M	H	M
18AUE335T	Engine auxiliary systems	H	H	M	M	M	M	M	M	M	M	L	H	M
18AUE431T	Design of automotive thermal system	H	H	M	M	L	M	M	M	M	M	M	H	M
18AUE432T	Simulation of Internal Combustion engines	H	H	M	H	M	L	M	M	M	L	M	H	M
18AUE433T	Automotive emission formation and controls	H	H	M	H	M	L	M	M	M	L	M	H	M
18AUE434T	Alternative fuels and energy systems	H	M	M	H	L	H	M	L	M	L	H	H	M
18AUE341T	Automotive Driveline Design	H	H	H	H	M	L	M	L	M	H	M	H	M
18AUE342T	Automotive Chassis Component Design	H	H	H	H	M	L	L	L	M	L	M	H	M
18AUE344T	Concepts of Engineering Design	H	H	H	H	M	M	M	L	M	M	H	H	M

18AUE345T	Rapid prototyping and tooling	M	M	H	H	M	M	M	M	H	M	M	H	H	M
18AUE346T	Modeling and Control of Vibration in Mechanical Systems	H	H	M	H	M	L	L	L	H	M	M	M	H	M
18AUE347T	Geometrical Dimensioning and Tolerance	H	H	H	H	H	H	H	H	M	M	H	H	H	H
18AUE348T	Design for Manufacture	H	H	H	H	H	H	M	M	M	L	H	H	H	H
18AUE441T	Optimization techniques in Engineering Design	H	H	H	H	H	H	L	H	H	M	H	H	H	M
18AUE442T	Multi-body Dynamics	H	H	H	H	H	L	L	M	H	H	M	M	H	M
18AUE443T	Finite Element Analysis	H	H	H	H	H	L	L	M	H	H	M	M	H	M
18AUE444T	Design of Experiments	H	H	H	H	H	H	H	H	M	M	M	H	H	H
18AUE445T	Product Life Cycle Management	H	H	H	H	H	H	H	M	M	M	L	H	H	H
18AUE351T	Auxiliary vehicle systems	H	M	L	M	H	M	M	M	M	M	M	H	H	M
18AUE352T	Two and three wheeler technology	H	H	H	H	M	M	M	M	M	M	L	H	H	H
18AUE353T	Vehicle performance and testing	H	H	H	H	H	M	H	M	M	M	L	H	H	H
18AUE354T	Tyre technology	H	H	H	M	M	L	H	M	M	M	L	H	H	M
18AUE355T	Motorsport technology	H	H	H	H	H	H	H	H	M	M	M	H	H	H
18AUE356T	Automotive NVH	H	H	H	H	H	H	M	M	M	M	L	H	H	H
18AUE451T	Advanced vehicle technology	H	H	H	H	H	M	H	M	M	M	L	H	H	M
18AUE452T	Automotive safety and ergonomics	H	H	H	H	H	H	H	M	M	M	L	H	H	H
18AUE453T	Vehicle maintenance	H	H	M	M	H	H	H	H	M	M	M	H	H	H
18AUE454T	Vehicle body engineering and Aerodynamics	H	H	H	H	H	M	H	M	M	M	L	H	H	H
18AUE455T	Machine Learning Approach for Automotive Applications	H	H	H	H	H	L	H	H	M	M	H	H	H	M
18AUE202T	Sensors, Actuators and Signal Conditioners	H	H	H	H	H	H	H	H	M	M	M	H	H	H
18AUE317J	Automotive Control Engineering	H	H	H	H	H	H	M	M	M	M	L	H	H	H
18AUO101T	Hybrid and Electric Vehicles	H	H	H	H	M	M	M	M	M	M	L	M	H	M
18AUO102T	Renewable Sources of Energy	H	M	H	H	M	L	H	M	M	M	L	H	H	M
18AUO103T	Special Type of Vehicles	H	H	H	H	M	M	M	M	M	M	L	M	H	M
18AUO104T	Fuel Cells and Applications	H	M	H	H	M	L	H	M	M	M	L	H	H	M
18AUO105T	Transport Management	H	H	H	H	M	M	M	M	M	M	L	M	H	M
18AUO106T	Composite Materials for Automotive Applications	H	M	H	H	M	L	H	M	M	M	L	H	H	M
18AUO107T	Non Destructive Testing and evaluation	H	H	H	H	M	M	M	M	M	M	L	M	H	M
18AUO108T	Advanced engine technology	H	H	H	H	M	L	H	M	M	M	L	H	H	M
18AUO109T	New Product Development	H	H	H	H	M	M	M	M	M	M	L	M	H	M
18AUO110T	Automotive standards and regulations	H	H	H	H	H	M	H	M	H	M	M	H	H	M
18AUO111T	Automotive Sciences	H	H	H	H	H	M	H	M	M	M	M	H	H	M
18AUO112T	Intelligent Vehicle Technology	H	L	L	L	H	H	H	M	M	M	M	M	M	M
18AUP101L	Massive Open Online Course - I	H	M	M	M	M	M	M	M	M	M	H	H	M	H
18AUP102L	Industrial Training-I	H	M	M	M	M	M	M	M	M	H	H	M	H	H
18AUP103L	Seminar - I	H	H	H	H	H	M	M	M	H	H	H	H	M	M
18AUP104L	Massive Open Online Course - II	H	M	M	M	M	M	M	M	M	H	H	M	H	H
18AUP105L	Industrial Training-II	H	H	H	H	H	M	M	H	H	H	H	H	M	M
18AUP106L	Seminar - II	H	H	H	H	H	M	M	H	H	H	H	H	M	M
18AUP107L	Minor Project	H	M	M	M	M	M	M	M	M	H	H	M	H	H
18AUP108L	Internship (4-6 weeks)	H	M	M	M	M	M	M	M	H	H	M	M	H	H
18AUP109L	Project	H	M	M	M	M	M	M	M	H	H	M	M	H	H
18AUP110L	Semester Internship	H	M	M	M	M	M	M	M	H	H	M	M	H	H
	Program Average	H	H	H	M	H	H	M	M	M	M	M	H	H	M

H – High Correlation, M – Medium Correlation, L – Low Correlation

2. (g) Implementation Plan: B.Tech. in Automobile Engineering

Semester - I					Semester - II							
Code	Course Title	Hours/ Week			C	Code	Course Title	Hours/ Week			C	
		L	T	P				L	T	P		
18LEH10XJ	Chinese / French / German / Japanese/ Korean	2	0	2	3	18LEH101J	English	2	0	2	3	
18MAB101T	Calculus and Linear Algebra	3	1	0	4	18MAB102T	Advanced Calculus and Complex Analysis	3	1	0	4	
18CYB101J	Chemistry	3	1	2	5	18PYB101J	Physics: Electromagnetic Theory, Quantum Mechanics, Waves and Optics	3	1	2	5	
18CSS101J	Programming for Problem Solving	3	0	4	5	18MES101L	Engineering Graphics and Design	1	0	4	3	
18EES102L	Electrical and Electronics Eng. Workshop	1	0	4	3	18MES102J	Basic Civil and Mechanical Engineering	3	1	2	5	
18PDM101L	Professional Skills and Practices	0	0	2	0	18AUS101L	Artifact Dissection Laboratory	0	0	2	1	
18LEM102J	Value Education	1	0	1	0	18PDH101T	General Aptitude	0	0	2	1	
18GNM102L	NSS	0	0	2	0	18LEM101T	Constitution of India	1	0	0	0	
18GNM103L	NCC					18GNM101L	Physical and Mental Health using Yoga	0	0	2	0	
18GNM104L	NSO					Total Learning Credits				22		
Total Learning Credits					20							
Semester - III					Semester - IV							
Code	Course Title	Hours/ Week			C	Code	Course Title	Hours/ Week			C	
		L	T	P				L	T	P		
18MAB201T	Transforms and Boundary Value Problems	3	1	0	4	18MAB202T	Numerical Methods for Engineers	3	1	0	4	
18MES201T	Engineering Mechanics	3	1	0	4	18BTB101T	Biology	2	0	0	2	
18MEC101T	Thermodynamics	3	1	0	4	18AUC203T	Applied Thermal Engineering for Automotive Engineers	3	1	0	4	
18AUC201J	Manufacturing Technology for Automotive Engineers	3	0	2	4	18MEC106T	Mechanics of Solids	3	1	0	4	
18AUC204L	Automotive Components and Assembly drawing	0	0	4	2	18MEC102T	Fluid Mechanics	3	1	0	4	
18PDH103T	Social Engineering	2	0	0	2	18MEC104L	Fluid Dynamics Laboratory	0	0	2	1	
18PDM201L	Competencies in Social Skills	0	0	2	0	18MEC109L	Strength of Materials Laboratory	0	0	2	1	
18PDM203L	Entrepreneurial Skill Development	1	0	0	0	18PDH102T	Management Principles for Engineers	2	0	0	2	
18CYM101T	Environmental Science					18PDM202L	Critical and Creative Thinking Skills	0	0	2	0	
Total Learning Credits					20	Total Learning Credits						22
Semester - V					Semester - VI							
Code	Course Title	Hours/ Week			C	Code	Course Title	Hours/ Week			C	
		L	T	P				L	T	P		
18AUC301J	Automotive Engines	3	0	2	4	18AUC302J	Vehicular Structures and Driveline systems	3	0	2	4	
18MEC201T	Machines and Mechanisms	3	1	0	4	18AUC303J	Automotive Electrical and Electronic Systems	3	0	2	4	
18MEC108T	Materials Technology	3	0	0	3	18AUC304J	CAD Analysis for Automotive Engineers	3	0	2	4	
18MEC111L	Materials Technology Laboratory	0	0	2	1	18AUC305T	Design of Automotive Components	3	0	0	3	
	Professional Elective – 1	3	0	0	3	18AUC350T	Comprehension	0	1	0	1	
	Professional Elective – 2	3	0	0	3		Professional Elective – 3	3	0	0	3	
	Open Elective – 1	3	0	0	3		Open Elective – 2	3	0	0	3	
18AUP101L	Massive Open Online Course - I	0	0	2	1	18AUP104L	Massive Open Online Course - II	0	0	2	1	
18AUP102L	Industrial Training-I					18AUP105L	Industrial Training-II					
18AUP103L	Seminar - I					18AUP106L	Seminar - II					
18PDM301L	Analytical and Logical Thinking Skills	0	0	2	0	18PDH201T	Employability Skills and Practices	0	0	2	1	
18PDM302L	Entrepreneurship Management	0	0	2	0	18LEM109T	Indian Traditional Knowledge	1	0	0	0	
18LEM110L	Indian Art Form	0	0	2	0	Total Learning Credits				24		
Total Learning Credits					22	Total Learning Credits						24
Semester - VII					Semester - VIII							
Code	Course Title	Hours/ Week			C	Code	Course Title	Hours/ Week			C	
		L	T	P				L	T	P		
18AUC401J	Vehicle Dynamics	3	0	2	4	18AUP109L	Project	0	0	20	10	
18AUC402L	Vehicle Testing laboratory	0	0	2	1	18AUP110L	Semester Internship					
	Professional Elective – 4	3	0	0	3							
	Professional Elective – 5	3	0	0	3							
	Professional Elective – 6	3	0	0	3							
	Open Elective – 3	3	0	0	3	Total Learning Credits				10		
18AUP107L	Minor Project	0	0	6	3							
18AUP108L	Internship (4-6 weeks)											
Total Learning Credits					20							