



SCHOOL OF ENGINEERING & TECHNOLOGY

AMBI, TALEGAON, PUNE

B. Tech AUTOMOBILE ENGINEERING

PROGRAMME FOR ACADEMIC YEAR 2020-21

BATCH 2020 - 2024

SUBJECT BASKET

FIRST YEAR SEMESTER - I	FIRST YEAR SEMESTER - II	SECOND YEAR SEMESTER - III	SECOND YEAR SEMESTER - IV
<i>Automobile Engineering</i>	<i>Automobile Engineering</i>	<i>Automobile Engineering</i>	<i>Automobile Engineering</i>
Engineering Mathematics-I	Engineering Mathematics-II	Engineering Mathematics - III	Fluid Mechanics
Engineering Physics / Engineering Chemistry	Engineering Physics / Engineering Chemistry	Manufacturing Technology For Automotive Engineering	Automotive Machine & Mechanisms
Engineering Graphics	Engineering Mechanics	Mechanics of Material	Internal Combustion Engine
Basic Electrical Engineering	C PROGRAMMING	Automotive Material Science & Metallurgy	Metrology and Quality Control
Basic Workshop Practices - I	English for Engineers	Electrical and Electronics Technology	Vehicle Body and Structure
Induction	Basic Workshop Practices - II	Computer Aided Design and Modeling	Software Proficiency
	Environmental Studies		

**The School/College has all the rights to revise the syllabus/curriculum at any time.*

THIRD YEAR SEMESTER - V	THIRD YEAR SEMESTER - VI	FOURTH YEAR SEMESTER - VII	FOURTH YEAR SEMESTER - VIII
<i>Automobile Engineering</i>	<i>Automobile Engineering</i>	<i>Automobile Engineering</i>	<i>Automobile Engineering</i>
Automotive Electrical and Electronics	Stream Core I	Stream Core IV	Project/Internship
Design of Machine Elements	Stream Core II	Stream Elective I	
Computer Oriented Numerical Methods	Stream Core III	Stream Elective II	
Heat Transfer	Technical Elective I	Technical Elective II	
Automotive Chassis and Transmission	Open Elective I	Open Elective II	
	Vehicle Maintenance and Service Practices		
	Mini Project I		

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Stream Core Semester VI & VII	
Automobile Engineering (AE)	
Stream Core I	Design of Engine Components
Stream Core II	Alternative fuels and Emission control
Stream Core III	Vehicle Dynamics
Stream Core IV	Vehicle Performance and Testing

Technical Elective-I(AE)	Technical Elective-II(AE)
Automotive Safety Systems	Automotive NVH
Operation Research	Hybrid electric and fuel cell Vehicle
Engineering Economics and financial management	Automotive Hydraulics and Pneumatics
Auxiliary Vehicle Systems	

Stream Elective I(AE)	Stream Elective II(AE)
CAE & Automation	Special Purpose Vehicle
Automotive Aerodynamics	Transport Management and Motor Industries
Vehicle Maintenance	Automotive Paints & Coatings

Stream Core Semester VI & VII	
HYBRID & ELCTRIC VEHICLES (HEV)	
Stream Core I	Automotive Control System
Stream Core II	Automobile Engine Design
Stream Core III	Architecture of HEV
Stream Core IV	Fuel Cell & HEV Battery Technology

Stream Elective I (HEV)	Stream Elective II (HEV)
Vehicle Maintenance	Automotive Communication Protocols
Vehicle Dynamics	Automotive Embedded System
Automotive Aerodynamics	Artificial Neural Networks and Fuzzy Logic

Technical Elective-I (HEV)	Technical Elective-II (HEV)
Alternative Fuels and Emission Control	Automotive Safety
Automotive Refrigeration & Air Conditioning	Special Purpose Vehicles
Automotive NVH	Automotive Paints & Coatings

Open Elective-I (ALL)
Project Management
Entrepreneurships and Business Start-ups
Cyber and Data Laws
Intellectual Property Rights
Remote Sensing and GIS

Open Elective-II (ALL)
Industrial Psychology
Business Economics and Financial Planning
Disaster Management
Intellectual Property Rights
Basic German, French