

Automobile Engineering

Semester III

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
	Advanced Engineering Mathematics	3	2	0	5	70	30	30	20	150	2
	Mechanics of Solid	4	0	2	6	70	30	30	20	150	2
	Engineering Thermodynamics	4	1	0	5	70	30	30	20	150	2
	Kinematics of Machines	3	1	0	4	70	30	30	20	150	2
	Material Science and Metallurgy	3	0	2	5	70	30	30	20	150	2
	Manufacturing Process-1	3	0	2	5	70	30	30	20	150	2
	Total	20	4	6	30						

Semester IV

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
	Complex Variables and Numerical Methods	3	2	0	5	70	30	30	20	150	2
	Engineering Economics and Management	3	0	0	3	70	30	0	0	100	2
	Machine Design & Industrial Drafting	3	0	2	5	70	30	30	20	150	2
	Fluid Mechanics	4	0	2	6	70	30	30	20	150	2
	Automobile Engines	4	0	2	6	70	30	30	20	150	2
	Dynamics of Machines	3	0	2	5	70	30	30	20	150	2
	Total	20	2	8	30						

Semester V

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
	Automobile Heat Transfer	3	0	2	5	70	30	30	20	150	2
	Mechanical Measurement & Metrology	3	0	2	5	70	30	30	20	150	2
	Automobile Systems	4	0	2	6	70	30	30	20	150	2
	Automotive manufacturing	4	0	2	6	70	30	30	20	150	2
	Automobile Transmission	3	0	0	3	70	30	0	0	100	2
	Open Elective / Institute Elective	3	0	2	5	70	30	30	20	150	2
	Total	20	0	10	30						

Semester VI

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
	Automobile Component Design	4	0	2	6	70	30	30	20	150	2
	Transport Management and Laws	4	0	0	4	70	30	0	0	100	2
	Vehicle Maintenance and Garage Practice	2	0	4	6	70	30	30	20	150	2
	Automobile Chassis and Body Engineering	3	0	0	3	70	30	0	0	100	2
	Automotive computer controlled systems	3	0	2	5	70	30	30	20	150	2
	Automotive Electrical & Electronics	3	0	2	5	70	30	30	20	150	2
	Total	19	0	10	29						

Semester VII

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
	Automobile Air Conditioning System	3	0	2	5	70	30	30	20	150	2
	Automobile System Design	4	0	2	6	70	30	30	20	150	2
	Vehicle Dynamics	3	0	0	3	70	30	0	0	100	2
	Automotive Aero dynamics	4	0	2	6	70	30	30	20	150	2
	Department Elective-I	4	0	2	6	70	30	30	20	150	2
	Project-I	0	0	4	4	0	0	100	50	150	2
	Total	18	0	12	30						

Semester VIII

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
	Alternate fuels and engines	3	0	2	5	70	30	30	20	150	2
	Special Purpose Vehicles	3	1	0	4	70	30	30	20	150	2
	Department Elective II	3	1	0	4	70	30	30	20	150	2
	Department Elective III	3	0	2	5	70	30	30	20	150	2
	Project II	0	0	12	12	0	0	100	50	150	2
	Total	12	2	16	30						

Note: ALA Component, OEP Component and Design Module I, II and III (to be offered in 2nd Year , 3rd year and 4th year respectively) shall be displayed in the final teaching scheme