



Second Year Teaching Scheme

Admission Year 2026-27

**Bachelor of Technology
Automobile Engineering**

Faculty of Engineering & Technology

Parul University

Vadodara, Gujarat, India

Semester – 3

NCrF Credit Level	Subject Code	Subject Name	Credit	Teaching Scheme			Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
				(Hours / Week)	Lect	Lab	Tut	T	P	CE	T	P	Int.+Ext.	
5.5	03010203PC01	Vehicle Kinematics and Machines	3	3		-	20		20	60		40		100
	03010203PC02	Vehicle Kinematics and Machines lab	1	-	2	-		20	-	-	30		25	50
	03010203PC03	Automotive chassis & components	2	2		-	20		20	60		40		100
	03010203PC04	Automotive chassis & components lab	1	-	2	-		20	-	-	30		25	50
	03010203PC05	Fundamentals of Thermodynamics	4	3	-	1	20		20	60		40		100
	03019103BS03	Theory of Complex Variable, Partial Differential Equations	3	3	-	-	20	-	20	60	-	40	-	100
	03010203ES01	Basic Automotive Electronics	3	3		-	20		20	60		40		100
	03010203ES02	Basic Automotive Electronics Lab	1	-	2	-		20	-	-	30		25	50
	03010203ES03	Design Thinking	1	1					20			10		20
	03010203ES04	Design Thinking Lab	1	-	2	-		50	-	-	-		25	50
	03010003HM01	Functional Communication Skills	2	1	2	-		20			30		25	50
	17013003MC01	Introduction to Sustainability, Climate Change and ESG		1	-	-	-		50	-		25		50
		Total credits	22											

Lect - Lecture, Tut - Tutorial, Lab - Lab, T - Theory, P - Practical, CE - CE, T - Theory, P – Practical

Theory Passing % : 40 Practical Passing % : 50

Semester – 4

			Teaching Scheme			Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks	
			(Hours / Week)											
NCrF Credit Level	Subject Code	Subject Name	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int.+Ext.	Int.+Ext.	
5.5	03010204PC01	Mechanics of Materials for Automobiles	3	3		-	20		20	60		40		100
	03010204PC02	Mechanics of Materials for Automobiles Lab	1	-	2	-		20	-	-	30		25	50
	03010204PC03	Automobile Engines	3	3		-	20		20	60		40		100
	03010204PC04	Automobile Engines Lab	1	-	2	-		20	-	-	30		25	50
	03010204PC05	Fluid Mechanics	3	3		-	20		20	60		40		100
	03010204PC06	Fluid Mechanics Lab	1	-	2	-		20	-	-	30		25	50
	03010204PE01	Sustainable Fuels for Conventional Engines	2	2		-	20		20	60		40		100
	03010204PE02	Sustainable Fuels for Conventional Engines Lab	1	-	2	-		20	-	-	30		25	50
	03010204PE03	Special Purpose Vehicles	2	2		-	20		20	60		40		100
	03010204PE04	Special Purpose Vehicles Lab	1	-	2	-		20	-	-	30		25	50
	03010204PE05	Automotive Certification & Homologation	2	2		-	20		20	60		40		100
	03010204PE06	Automotive Certification & Homologation Lab	1	-	2	-		20	-	-	30		25	50
	03010204PE07	Two & Three wheeler Technology	2	2		-	20		20	60		40		100
	03010204PE08	Two & Three wheeler Technology Lab	1	-	2	-		20	-	-	30		25	50
	15M10504UE01	Introduction to Cognitive Psychology	3	3	-	-	-	-	40	60	-	40		100
	15M10504UE02	Human Behaviour	3	3	-	-	-	-	40	60	-	40		100
	15M10504UE03	Emotional Intelligence	3	3	-	-	-	-	40	60	-	40		100
	19M10004UE01	Psychiatry: An overview	3	3	-	-	-	-	40	60	-	40		100
	19M10004UE02	Philosophy and Critical Thinking	3	3	-	-	-	-	40	60	-	40		100

03010004HM01	Professional Soft Skills - I	1	-	-	2	40	20		60	30	40	25	150
03010004MC01	NCC	-	1	-	-	-	-	50	-	-	25		50
03010004MC02	NSS	-	1	-	-	-	-	50	-	-	25		50
03010004MC03	Sports	-	1	-	-	-	-	50	-	-	25		50
03M10004MC01	Yoga and Positive Psychology for Managing Career and Life		1	-	-	-	-	50	-	-	25		50
03M10004MC02	The Science of Happiness and Wellbeing	-	1	-	-	-	-	50	-	-	25		50
	Total credits	19											

Lect - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **T** - Theory, **P** – Practical

Theory Passing % : 40 Practical Passing % : 50