

PROGRAMME STRUCTURE
FOR
DIPLOMA PROGRAMME IN
AUTOMOBILE ENGINEERING
UNDER RATIONALISED SEMESTER SYSTEM
(IMPLEMENTED FROM ACADEMIC YEAR 2020-2021)



BOARD OF TECHNICAL EDUCATION, GOA STATE

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Directorate of Technical Education, Goa State

DIPLOMA IN AUTOMOBILE ENGINEERING CURRICULUM STRUCTURE											
Semester	Code	Subjects	L	T	P	H	TH	TM	PR	TW	TOT
FIRST	GC103	Applied Physics I	3	0	2	5	75	25	-	25	125
	GC102	Engineering Maths I	4	2	0	6	75	25	-	25	125
	GC203	Environmental Studies	4	0	0	4	75	25	-	-	100
	GC101	Communication Skills	0	0	2	2	-	-	25	25	50
	GC107	Basic Engineering Practice (Electronic & Computer)	0	0	4	4	-	-	50	50	100
			11	2	8	21					500
Semester	Code	Subjects	L	T	P	H	TH	TM	PR	TW	TOT
SECOND	GC202	Applied Physics II	3	0	2	5	75	25	-	25	125
	GC104	Applied Chemistry	3	0	2	5	75	25	-	25	125
	GC201	Engineering Maths II	4	2	0	6	75	25	-	25	125
	GC205	Engineering Materials	3	0	0	3	75	25	-	-	100
	GC106	Basic Engineering Practice (Mechanical & Electrical)	0	0	5	5	-	-	50	75	125
	GC204	Engineering Drawing	0	0	5	5	-	-	50	50	100
			13	2	14	29					700
Semester	Code	Subjects	L	T	P	H	TH	TM	PR	TW	TOT
THIRD	CC301	Engineering Mechanics	3	1	1	5	75	25	-	25	125
	MC302	Manufacturing Processes	3	0	2	5	75	25	-	25	125
	MC301	Machine Drawing	2	0	4	6	75	25	-	50	150
	MC303	Thermal Engineering	3	1	1	5	75	25	-	25	125
	AU301	Garage Equipment	3	0	2	5	75	25	-	25	125
	MC304	Computer Aided Drafting	0	0	4	4	-	-	50	50	100
			14	2	14	30					750
Semester	Code	Subjects	L	T	P	H	TH	TM	PR	TW	TOT
FOURTH	MC401	Strength of Materials	3	1	1	5	75	25	-	25	125
	MC402	Mechanical W/S practice	0	0	4	4	-	-	50	50	100
	AU401	Automobile Engines	3	0	2	5	75	25	25	25	150
	AU402	Automobile Transmission Systems	3	0	2	5	75	25	25	25	150
	MC404	Fluid Machinery	3	0	2	5	75	25	-	25	125
	AU403	Organisational Behaviour	4	0	0	4	75	25	-	-	100
			16	1	11	28					750

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Semester	Code	Subjects	L	T	P	H			PR	TW	TOT
FIFTH	TR501	Auto Training I							100	100	200
											Grade
Semester	Code	Subjects	L	T	P	H	TH	TM	PR	TW	TOT
SIXTH	AU601	Automotive Electrical & Electronics Systems	3	0	2	5	75	25	25	25	150
	AU602	Advanced Automobile Engines	3	0	2	5	75	25	25	25	150
	AU603	Automobile Chassis & Body Systems	3	0	2	5	75	25	-	25	125
	AU604	Modern Automotive Systems	3	0	0	3	75	25	-	-	100
		Elective I	3	0	2	5	75	25	25	25	150
	AU605	Automobile Workshop Practice	0	0	5	5	-	-	50	50	100
			15	0	13	28					775
Semester	Code	Subjects	L	T	P	H	TH	TM	PR	TW	TOT
SEVENTH		Elective II	3	0	2	5	75	25	25	25	150
		Elective III	3	0	2	5	75	25	25	25	150
	AU701	Road Transport Management	3	0	2	5	75	25	-	25	125
	AU702	Automobile Component Design	3	2	0	5	75	25	25	-	125
	AU703	Automobile Project	0	0	8	8	-	-	50	100	150
	CC501	Entrepreneurship Development	0	0	2	2	-	-	-	25	25
			12	2	16	30					725
Semester	Code	Subjects	L	T	P	H			PR	TW	TOT
EIGHTH	TR801	Auto Training II							100	100	200
											Grade
L- Lecturers T – Tutorial P – Practical C-Credits TH – Theory Marks TM – Test Marks PR – Practical Marks TW- Term Work Marks											

LIST OF ELECTIVES (AS PER CAREER OPTIONALS/VERTICALS)

Elective Groups	Course code	Elective I / Elective II / Elective III
Elective Group I	AU611	Automotive Quality Systems
	MC627	Materials Management
	MC628	Supply Chain Management
	AU612	Alternate Energy sources & management
Elective Group II	AU613	Automotive Sales
	AU614	Garage Organisation & Vehicle Laws
	AU615	Automotive Safety & Ergonomics
	AU616	Automotive Insurance
Elective Group III	AU617	Electric & Hybrid Vehicles
	AU618	Special Purpose Vehicles
	AU619	Automobile Air conditioning
	AU620	Automotive Pollution & Control
	AU621	Vehicle Aerodynamics & Design
Elective Group IV	MC631	Lean Manufacturing
	MC614	Advanced Manufacturing Processes
	MC615	Fibre Reinforced Polymers