Mahatma Gandhi University Revised Scheme For
B Tech Syllabus Revision 2010
Automobile Engineering
Common for All Branches
SCHEME S1&S2

Code	Subject	Hours/week			Marks		End-sem duration-hours	Credits
		L	T	P/D	Inte-rnal	End-sem		
EN010 101	Engineering Mathematics I	2	1	-	50	100	3	5
EN010 102	Engineering Physics	1	1	-	50	100	3	4
EN010 103	Engineering. Chemistry & Environmental Studies	1	1	-	50	100	3	4
EN010 104	Engineering Mechanics	3	1	-	50	100	3	6
EN010 105	Engineering Graphics	1	3	-	50	100	3	6
EN010 106	Basic Civil Engineering	1	1	-	50	100	3	4
EN010 107	Basic Mechanical Engineering	1	1	-	50	100	3	4
EN010 108	Basic Electrical Engineering	1	1	-	50	100	3	4
EN010 109	Basic Electronics Engineering. & Information Technology	2	1	-	50	100	3	5
EN010 110	*Mechanical Workshop*	-	-	3	50	-	3	1
EN110 111	*Electrical and Civil Workshops*	-	-	3	100	-	3	1
	Total	**13**	**11**	**6**			**30**	**44**

3rd Semester

Code	Subject	Hours/week			Marks		End-sem duration hours	Credits
		L	T	P/D	Inte-rnal	End-sem		
EN010 301	Engineering Mathematics II	2	2	-	50	100	3	4
EN010 302	Economics and Communication Skills	2	2	-	50	100	3	4 (3+1)
AU010 303	Fluid Mechanics and Hydraulic Machinery	2	2	-	50	100	3	4
AU010 304(ME)	Metallurgy & Material Science	3	1	-	50	100	3	4
AU010 305(ME)	Programming in C	3	1	-	50	100	3	4
AU010 306(CE)	Strength of Materials & Structural Engineering	3	1	-	50	100	3	4
AU010 307	*Computer Lab*	-	-	3	50	100	3	2
AU010 308(ME)	*Fluid Mechanics Lab*	-	-	3	50	100	3	2
	Total	**15**	**9**	**6**				**28**

4th Semester

Code	Subject	Hours/week			Marks		End-sem duration-hours	Credits
		L	T	P/D	Inte-rnal	End-sem		
EN010 401	Engineering Mathematics III	2	2	-	50	100	3	4
EN010 402(ME)	Principles of Management	3	1	-	50	100	3	4
AU010 403	Auto Power Plant	2	2	-	50	100	3	4
AU010 404(ME)	Manufacturing Process	3	1	-	50	100	3	4
AU010 405	Machine Drawing	3	1	-	50	100	3	4
AU010 406(EE)	Electrical Technology	3	1	-	50	100	3	4
AU010 407	*Auto Workshop I*	-	-	3	50	100	3	2
AU010 408(CE)	*Strength of Materials Lab*	-	-	3	50	100	3	2
	Total	**16**	**8**	**6**				**28**

5th Semester

Code	Subject	Hours/week			Marks		End-sem duration-hours	Credits
		L	T	P/D	Inte-rnal	End-sem		
EN010 501A	Engineering Mathematics IV	**2**	**2**	-	**50**	**100**	3	4
AU010 502	Computer Aided Design & Manufacturing	**3**	**1**		**50**	**100**	3	4
AU010 503	Auto Chassis	2	2	-	50	100	3	4
AU010 504(ME)	Kinematics of Machinery	3	1	-	50	100	3	4
AU010 505(ME)	I C Engines & Combustion	3	1	-	50	100	3	4
AU010 506(ME)	Thermodynamics	3	1	-	50	100	3	4
AU010 507	*Computer Graphics & Drafting*	-	-	3	50	100	3	2
AU010 508(EE)	*Electrical & Electronics Lab*	-	-	3	50	100	3	2
	Total	**16**	**8**	**6**				**28**

6th Semester

Code	Subject	Hours/week			Marks		End-sem duration hours	Credits
		L	T	P/D	Inte-rnal	End-sem		
AU010 601	Mechanics of Machines	2	2	-	50	100	3	4
AU010 602(ME)	Heat & Mass Transfer	2	2	-	50	100	3	4
AU010 603	Automotive Transmission	3	1	-	50	100	3	4
AU010 604(ME)	Metrology & Machine Tools	3	1	-	50	100	3	4
AU010 605(ME)	Mechatronics & Control Systems	3	1	-	50	100	3	4
AU010 606Lxx	Elective I	2	2	-	50	100	3	4
AU010 607	Heat Engines Lab	-	-	3	50	100	3	2
AU010 608	*Machine Tool Lab*	-	-	3	50	100	3	2
	Total	**15**	**9**	**6**				**28**

Elective I

AU010 606L01 Vehicle Transport Management
AU010 606L02 Computer Aided vehicle Design
AU010 606L03 Computer Simulation of I C Engines
AU010 606L04 Tribology
AU010 606L05 Alternate Fuels and Energy systems
AU010 606L06 Quantitative Techniques

7th Semester

Code	Subject	Hours/week			Marks		End-sem duration -hours	Credits
		L	T	P/D	Inte-rnal	End-sem		
AU010 701(ME)	Design of Machine Elements	2	1	1	50	100	3	4
AU010 702	Advanced Automotive Technology	2	2	-	50	100	3	4
AU010 703	Auto Electrical & Electronics	2	1	-	50	100	3	3
AU010 704(ME)	Refrigeration & Air Conditioning	2	1	-	50	100	3	3
AU010 705(ME)	Industrial Engineering	2	1	-	50	100	3	3
AU010 706Lxx	Elective II	2	2	-	50	100	3	4
AU010 707(ME)	Mechanical Measurements Lab	-	-	3	50	100	3	2
AU010 708	*Auto Workshop II*	-	-	3	50	100	3	2
AU010 709	Seminar	-	-	2	50	-	-	2
AU010 710	*Project*	-	-	1	50	-	-	1
	Total	**12**	**8**	**10**				**28**

Elective II

AU010 706L01 Vehicle Body Engineering
AU010 706L02 Vehicle Performance and Testing
AU010 706L03 Automotive Pollution and Control
AU010 706L04 Project Management
AU010 706L05 Industrial Safety
AU010 706L06 Non Traditional Machining Processes

8th Semester

Code	Subject	Hours/week			Marks		End-sem duration-hours	Credits
		L	T	P/D	Inte-rnal	End-sem		
AU010 801(ME)	Design of Transmission Elements	2	2	1	50	100	3	4
AU010 802(ME)	Operations Management	2	2	-	50	100	3	4
AU010 803	Special Types of Vehicles	2	2	-	50	100	3	4
AU010 804Lxx	Elective III	2	2	-	50	100	3	4
AU010 805Gxx	Elective IV	2	2	-	50	100	3	4
AU010 806	Auto Workshop III	-	-	3	50	100	3	2
AU010 807	Project	-	-	6	100	-	-	4
AU010 808	Viva Voce	-	-	-	-	50	-	2
	Total	**10**	**10**	**10**				**28**

Electives III

AU010 804L01 Transport Refrigeration and Air Conditioning
AU010 804L02 Engineering Economics and Automotive Cost Estimation
AU010 804L03 Vehicle Dynamics
AU010 804L04 Finite Element Method
AU010 804L05 Microprocessor Application in Automobiles
AU010 804L06 Foundry and Welding Technology

Electives IV

AU010 805G01 System Modeling and Simulation
AU010 805G02 Robotics and Robot Application
AU010 805G03 Farm Machinery and Equipment
AU010 805G04 Aerospace Engineering
AU010 805G05 Management Information systems
AU010 805G06 Petrochemical Engineering