

## B.E. AUTOMOBILE ENGINEERING

### V SEMESTER

Sl. No	Subject Code	Title	Teaching Dept.	Teaching Hours /Week		Examination				Credits
				Theory	Practical / Drawing	Duration	Theory/ Practical Marks	I.A. Marks	Total Marks	
1	15AU51	Management and Entrepreneurship	Auto. Engg.	04		03	80	20	100	4
2	15AU52	Dynamics of Machines	Auto. Engg.	04+1T		03	80	20	100	4
3	15AU53	Design of Machine Elements-I	Auto. Engg.	04+ 1T		03	80	20	100	4
4	15AU54	Automotive Fuels and Combustion	Auto. Engg.	04		03	80	20	100	4
5	15AU55X	Professional Elective*	Auto. Engg.	03		03	80	20	100	3
6	15XX56X	Open Elective**	Concerned Branch	03		03	80	20	100	3
7	15AUL57	Automotive Engine Component Lab	Auto. Engg.		1I+2P	03	80	20	100	2
8	15 AUL58	Fluid Mechanics and Fuel Testing Lab	Auto. Engg.		1I+2P	03	80	20	100	2
<b>TOTAL</b>				<b>24</b>	<b>06</b>		<b>640</b>	<b>160</b>	<b>800</b>	<b>26</b>

Professional Elective			Open Elective
15 AU551	CAD/CAM	15XX56X	To be published later by VTU
15 AU552	Vehicle Transport Management		
15 AU553	Automotive Air Conditioning and Refrigeration		
15 AU554	Hydraulics and Pneumatics		

**\*Only one Professional Elective to be chosen.**

**\*\* Students have to select one open Elective as per norms mentioned in list of open electives published by University**

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### VI SEMESTER

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				Theory	Practical/ Drawing	Duration	Theory/ Practical Marks	I.A. Marks	Total Marks	
1	15AU61	Automotive Chassis & Suspension	Auto. Engg.	04		03	80	20	100	4
2	15AU62	Heat and Mass transfer	Auto. Engg.	04 +1T		03	80	20	100	4
3	15AU63	Design of Machine Elements-II	Auto. Engg.	4+ 1T		03	80	20	100	4
4	15AU64	Automotive Transmission	Auto. Engg.	04		03	80	20	100	4
5	15AU65X	Professional Elective	Auto. Engg.	03		03	80	20	100	3
6	15XX66X	Open Elective	Concerned branch	03		03	80	20	100	3
7	15AUL67	Automotive Chassis Components Lab	Auto. Engg.		1I+2P	03	80	20	100	2
8	15 AUL68	Engine Testing and Emission Measurement Lab.	Auto. Engg.		1I+2P	03	80	20	100	2
<b>TOTAL</b>				<b>23</b>	<b>06</b>		<b>640</b>	<b>160</b>	<b>800</b>	<b>26</b>

Professional Elective		Open Elective	
15 AU651	Robotics	15XX66X	To be published later by VTU
15 AU652	Experimental Stress analysis		
15 AU653	Composite Materials		
15 AU654	Automotive Pollution and Control		

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### VII SEMESTER

Sl. No	Subject Code	Title	Teaching Dept.	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Drawing	Duration	Theory / Practical Marks	I.A. Marks	Total Marks	
1	15AU71	Automotive Electrical and Electronic Systems	Auto. Engg.	04		03	80	20	100	4
2	15AU72	Automotive Engine Components Design and Auxiliary Systems	Auto. Engg	04		03	80	20	100	4
3	15AU73	Finite Element Modeling and Analysis	Auto. Engg	04		03	80	20	100	4
4	15AU74X	Professional Elective	Auto. Engg	03		03	80	20	100	3
5	15AU75X	Professional Elective	Auto. Engg	03		03	80	20	100	3
6	15AUL76	Automobile Scanning and Re-conditioning lab	Auto. Engg		1I+2P	03	80	20	100	2
7	15AUL77	Modeling and Analysis Lab	Auto. Engg		1I+2P	03	80	20	100	2
8	15 AUP78	Project Phase- I + Project seminar	Auto. Engg	---	03	---	---	100	100	2
<b>TOTAL</b>				<b>18</b>	<b>09</b>		<b>560</b>	<b>240</b>	<b>800</b>	<b>24</b>

Professional Elective		Professional Elective	
15 AU741	Earthmoving Equipment & Tractors	15 AU751	Control Engineering
15 AU742	Computer Integrated Manufacturing	15 AU752	Plant layout and Material handling
15 AU743	Tribology	15 AU753	Operations Research
15 AU744	Engineering system Design	15 AU754	Two and three wheeled Vehicle

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### VIII SEMESTER

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				Theory	Practical/ Drawing	Duration	Theory/ Practical Marks	I.A. Marks	Total Marks	
1	15AU81	Vehicle Body Engineering and Safety	Auto. Engg.	04		03	80	20	100	4
2	15AU82	Mechanical Vibrations and Vehicle Dynamics	Auto. Engg	04		03	80	20	100	4
3	15AU83X	Professional Elective	Auto. Engg.	03		03	80	20	100	3
4	15AU84	Internship/Professional Practice	Auto. Engg	Industry Oriented		03	50	50	100	2
5	15AUP85	Project work Phase II	Auto. Engg.		6	03	100	100	200	6
6	15AUS86	Seminar*	Auto. Engg		4			100	100	1
<b>TOTAL</b>				<b>11</b>	<b>10</b>		<b>390</b>	<b>310</b>	<b>700</b>	<b>20</b>

Professional Elective	
15 AU831	Total Quality Management
15 AU832	Simulation of I. C. Engines
15 AU833	Advanced I.C. Engines
15 AU834	Maintenance Engineering

\*Seminar on current trends in Automotive Engineering