

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM
CHOICE BASED CREDIT SYSTEM (CBCS)
SCHEME OF TEACHING AND EXAMINATION 2016-2017

M.Tech. (Automotive Engineering)

I SEMESTER

Sl. No	Subject Code	Title	Teaching Hours /Week		Examination				Credit
			Theory	Practical/Field Work/Assignment	Duration	I.A. Marks	Theory/Practical Marks	Total Marks	
1	16MAU11	Applied Mathematics	4	-	3	20	80	100	4
2	16 MAU 12	Automotive Engine and Systems	4	-	3	20	80	100	4
3	16 MAU 13	Noise, Vibration and Harshness	4	-	3	20	80	100	4
4	16 MAU 14	Advanced Machine Design	4	-	3	20	80	100	4
5	16 MAU 15X	Elective-I	3	-	3	20	80	100	3
6	16AUL16	Automotive Engineering Lab-I		3	3	20	80	100	2
7	16AU17	Seminar on current topics	-	3	-	100	-	100	1
TOTAL			19	6	18	220	480	700	22

Elective - I	
16MAU 151	Automotive Materials
16 MAU152	Automatic Control systems
16 MAU153	Vehicle Maintenance and Fleet Management
16 MAU154	Automotive Embedded System

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II SEMESTER

Sl. No	Subject Code	Title	Teaching Hours /Week		Examination				Credit
			Theory	Practical/Field Work/Assignment	Duration	I.A. Marks	Theory/ Practical Marks	Total Marks	
1	16MAU21	Automotive Power trains	4	-	3	20	80	100	4
2	16 MAU 22	Automotive Body Engineering and safety	4	-	3	20	80	100	4
3	16 MAU 23	Automotive Electrical and Autotronics	4	-	3	20	80	100	4
4	16 MAU 24	Vehicle dynamics	4	-	3	20	80	100	4
5	16 MAU 25X	Elective-II	3	-	3	20	80	100	3
6	16 MAU L26	Automotive Engineering Lab- II		3	3	20	80	100	2
7	16 MAU 27	Seminar	-	3	-	100	-	100	1
TOTAL			19	6	18	220	480	700	22

Elective - II	
16 MAU 251	Multi Body Dynamics
16 MAU 252	Design of Automotive Chassis
16 MAU 253	Manufacturing Techniques in Automotive Engineering
16 MAU 254	Simulation of I.C. Engine processes

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III SEMESTER: Internship

Sl. No	Subject Code	Title	Teaching Hours /Week		Examination			Credit	
			Theory	Practical/Field Work/Assignment	Duration	I.A. Marks	Theory/Practical Marks		Total Marks
1	16MAU31	Seminar / Presentation on Internship (After 8 weeks from the date of commencement)	-	-	-	25	-	25	20
2	16MAU32	Report on Internship	-	-	-	25	-	25	
3	16MAU33	Evaluation and Viva-Voce of Internship	-	-	-	-	50	50	
4	16MAU34	Evaluation of Project phase -1	-	-	-	50	-	50	1
TOTAL			-	-	-	100	50	150	21

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IV SEMESTER

Sl. No	Subject Code	Title	Teaching Hours /Week		Examination				Credit
			Theory	Practical/Field Work/Assignment	Duration	I.A. Marks	Theory/Practical Marks	Total Marks	
1	16MAU41	Alternative fuels and Pollution Control	4	-	3	20	80	100	4
2	16MAU42	Elective- III	3	-	3	20	80	100	3
3	16MAU43	Evaluation of Project phase -2	-	-	-	50	-	50	3
4	16MAU44	Evaluation of Project and Viva-Voce	-	-	-	-	100+100	200	10
TOTAL			-	-	6	90	360	450	20

Elective - III	
16MAU421	Vehicle Performance
16MAU422	Hybrid Vehicle Technologies
16MAU423	Off Road Vehicles
16MAU424	Two and Three wheeler Technology

Note:

- 1. Project Phase-1:** 6-week duration shall be carried out between 2nd and 3rd Semester vacation. Candidates in consultation with the guide shall carry out literature survey/ visit industries to finalize the topic of Project.
- 2. Project Phase-2:** 16-week duration during 4th semester. Evaluation shall be done by the committee constituted comprising of HoD as Chairman, Guide and Senior faculty of the department.
- 3. Project Evaluation:** Evaluation shall be taken up at the end of 4th semester. Project work evaluation and Viva-Voce examination shall conducted
- 4. Project evaluation:**
 - a. Internal Examiner shall carry out the evaluation for 100 marks.
 - b. External Examiner shall carry out the evaluation for 100 marks.
 - c. The average of marks allotted by the internal and external examiner shall be the final marks of the project evaluation.
 - d. Viva-Voce examination of Project work shall be conducted jointly by Internal and External examiner for 100 marks.

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TEENVAATIVE