

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

M.Tech. (Automobile 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 MAU12	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 MAU 152	Automotive Control systems
16 MAU 153	Vehicle Maintenance and Fleet Management
16 MAU 154	Automotive Embedded System

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

M.Tech. (Automobile Engineering)

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 Electronic Systems	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 on current topics	-	3	-	100	-	100	1
TOTAL			19	6	18	220	480	700	22

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

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

M.Tech. (Automobile Engineering)

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

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

M.Tech. (Automobile Engineering)

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.

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

Sl. No.	Board	Courses
1	Automobile Engineering	1. Automotive Engineering