

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI										
Scheme of Teaching and Examination – 2018-19										
M.Tech Automotive Engineering(MAU)										
Choice Based Credit System (CBCS)										
I SEMESTER										
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credits
				Theory	Field work/ Assignment	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	PCC	18 MAU11	Applied Mathematics	04	--	03	40	60	100	4
2	PCC	18 MAU12	Automotive Engine and Systems	04	--	03	40	60	100	4
3	PCC	18 MAU13	Noise, Vibration and Harshness	04	--	03	40	60	100	4
4	PCC	18 MAU14	Automotive Chassis	04	--	03	40	60	100	4
5	PCC	18 MAU15	Alternative Fuels and Pollution Control	04	--	03	40	60	100	4
6	PCC	18MAUL16	Automotive Engineering Lab -I	-	04	03	40	60	100	2
7	PCC	18RMI17	Research Methodology and IPR	02	--	03	40	60	100	2
TOTAL				22	04	21	280	420	700	24
Note: PCC: Professional core, PEC: Professional Elective.										
Internship: All the students shall have to undergo mandatory internship of 6 weeks during the vacation of I and II semesters and /or II and III semesters. A University examination will be conducted during III semester and prescribed credit shall be included in the III semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up/complete the internship shall be declared as failed and have to complete during subsequent University examination after satisfy the internship requirements.										

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II SEMESTER										
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Field work/ Assignment	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	PCC	18 MAU21	Automotive Powertrains	04	--	03	40	60	100	4
2	PCC	18MAU22	Automotive Electrical and Electronic Systems	04	--	03	40	60	100	4
3	PEC	18MAU23	Automotive Body Engineering and Safety	04	--	03	40	60	100	4
4	PEC	18MAU24X	Professional Elective-1	04	--	03	40	60	100	4
5	PEC	18MAU25X	Professional Elective-2	04	--	03	40	60	100	4
6	PCC	18MAUL26	Automotive Engineering Lab -II	--	04	03	40	60	100	2
7	PCC	18MAU27	Technical Seminar	--	02	--	100	--	100	2
TOTAL				20	06	18	340	360	700	24
Note: PCC: Professional core, PEC: Professional Elective, OEC: Open Elective, Aud: Audit Course										
Professional Elective- 1				Professional Elective- 2						
Course Code under 18MAU23X		Course title		Course Code under 18MAU24X		Course title				
18MAU241		Vehicle Dynamics		18MAU251		Advanced Machine Design				
18MAU242		Vehicle Performance		18MAU252		Simulation of I. C. Engine Processes				
18MAU243		Automotive Control Systems		18MAU253		Off road Vehicles				
Note:										
<p>1. Technical Seminar: CIE marks shall be awarded by a committee comprising of HOD as Chairman, Guide/co-guide in any and a senior faculty of the department. Participation in seminar by all postgraduate students of the same and other semesters of the programme shall be mandatory. The CIE marks awarded for Technical Seminar shall be based on the evaluation of Seminar Report, Presentation skill and Question and Answer session in the ratio 50:25:25.</p> <p>2. Internship: All the students shall have to undergo mandatory internship of 6 weeks during the vacation of I and II semesters and /or II and III semesters. A University examination will be conducted during III semester and prescribed credit shall be included in the III semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up/complete the internship shall be declared as failed and have to complete during subsequent University examination after satisfy the internship requirements.</p>										

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III SEMESTER											
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credits	
				Theory	Field work/ Assignment	Duration in hours	CIE Marks	SEE Marks	Total Marks		
1	PCC	18MAU31	Two and Three Wheeler Technology	04	--	03	40	60	100	4	
2	PEC	18MAU32X	Professional Elective- 3	04	--	03	40	60	100	4	
		18MAU33X	Professional Elective- 4	04		03	40	60	100	4	
4	Proj	18MAU34	Evaluation of Project phase -1	--	02	--	100	--	100	2	
5	INT	18MAUI35	Internship	(Completed during the intervening vacation of I and II semesters and /or II and III semesters.)		03	40	60	100	6	
TOTAL				12	02	12	260	240	500	20	
Note: PCC: Professional core, PEC: Professional Elective, Proj: Project, INT: Internship,											
Professional Elective- 3						Professional Elective- 4					
Course Code under 18MAU32X			Course title	Course Code under 18MAU33X							
18MAU321			Hybrid Vehicle Technology	18MAU331		Vehicle Aerodynamics					
18MAU322			Automotive Embedded Systems	18MAU332		Automotive Materials					
18MAU323			Manufacturing Techniques in Automotive Engineering.	18MAU333		Finite Element Method					
Note:											
1. Project Phase-1: Students in consultation with the guide/co-guide if any shall pursue literature survey and complete the preliminary requirements of selected Project work. Each student shall prepare relevant introductory project document, and present a seminar.											
CIE marks shall be awarded by a committee comprising of HOD as Chairman, Guide and a senior faculty of the department. The CIE marks awarded for project work phase -1, shall be based on the evaluation of Project Report, Project Presentation skill and Question and Answer session in the ratio 50:25:25.											
SEE (University examination) shall be as per the University norms.											
2. Internship: Those, who have not pursued /completed the internship, shall be declared as failed and have to complete during subsequent University examinations after satisfy the internship requirements.											
Internship SEE (University examination) shall be as per the University norms.											

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IV SEMESTER

Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credits
				Theory	Field work/ Assignment	Duration in hours	CIE Marks	SEE Marks Viva voce	Total Marks	
1	Proj	18MAU41	Project Work phase -2	--	04	03	40	60	100	18
TOTAL				--	04	03	40	60	100	18

Note: Proj: Project.

Note:

1. Project Phase-2:

CIE marks shall be awarded by a committee comprising of HOD as Chairman, Guide/co-guide, if any and a Senior faculty of the department. The CIE marks awarded for project work phase -2, shall be based on the evaluation of Project Report subjected to plagiarism check, Project Presentation skill and Question and Answer session in the ratio 50:25:25.

SEE shall be at the end of IV semester. Project work evaluation and Viva-Voce examination (SEE), after satisfying the plagiarism check, shall be as per the University norms.