

**B. Tech. Automobile Engineering**  
**Course Structure for Semester III [Second Year] w.e.f. 2018-2019**

Course Code	Type of Course	Course Title	Weekly Teaching Scheme			Evaluation Scheme				Credits
			L	T	P	CA	MSE	ESE	Total	
BTBSC301	BSC 7	Engineering Mathematics-III	3	1	--	20	20	60	100	4
BTMEC302	ESC 11	Material Science and Metallurgy	3	1	--	20	20	60	100	4
BTAMC303	PCC 1	Fluid Mechanics and Machines	3	1	--	20	20	60	100	4
BTAMC304	PCC 2	Automotive Component Drawing and Computer Aided Drafting	2	--	--	20	20	60	100	2
BTPRC305	PCC 3	Theory of Machines	2	1	--	20	20	60	100	3
BTHM3401	HSMC 3	Basic Human Rights	2	--	--	--	--	--	--	Audit (AU/ NP)
BTAML307	ESC 12	Material Science and Metallurgy Lab	--	--	2	60	--	40	100	1
BTAML308	PCC 4	Fluid Mechanics and Machines Lab	--	--	2	60	--	40	100	1
BTAML309	PCC5	Automotive Component Drawing and Computer Aided Drafting Lab	--	--	4	60	--	40	100	2
BTAML310	PCC 6	Theory of Machines Lab	--	--	2	60	--	40	100	1
BTAMF311	Project 1	Field Training /Internship/Industrial Training I	--	--	--	--	--	50	50	1
Total			15	4	10	340	100	510	950	23

**B. Tech. Automobile Engineering**  
**Course Structure for Semester IV [Second Year] w.e.f. 2018-2019**

Course Code	Type of Course	Course Title	Weekly Teaching Scheme			Evaluation Scheme				Credits
			L	T	P	CA	MSE	ESE	Total	
BTAMC401	PCC 7	Theory of Automotive Engines	3	1	--	20	20	60	100	4
BTAMC402	PCC 8	Engineering Thermodynamics	3	1	--	20	20	60	100	4
BTMEC403	PCC 9	Strength of Materials	3	1	--	20	20	60	100	4
BTMEC404	BSC 8	Numerical Methods in Mechanical Engineering	2	1	--	20	20	60	100	3
BTID405	PCC 10	Product Design Engineering - I	1	--	2	60	--	40	100	2
BTBSE406A	OEC 1	Physics of Engineering Materials	3	--	--	20	20	60	100	3
BTBSE3405A		Advanced Engineering Chemistry								
BTHM3402		Interpersonal Communication Skill & Self Development								
BTAML407	PCC 11	Theory of Automotive Engines Lab	--	--	2	60	--	40	100	1
BTAML408	PCC 12	Engineering Thermodynamics Lab	--	--	2	60	--	40	100	1
BTAML409	PCC 13	Strength of Materials Lab	--	--	2	60	--	40	100	1
BTAML410	BSC 9	Numerical Methods Lab	--	--	2	60	--	40	100	1
Total			15	4	10	400	100	500	1000	24

Minimum 4 weeks training which can be completed partially in third and fourth semester or in at one time.

**B. Tech. Automobile Engineering**  
**Course Structure for Semester V [Third Year] w.e.f. 2019-2020**

Course Code	Type of Course	Course Title	Weekly Teaching Scheme			Evaluation Scheme				Credits
			L	T	P	CA	MSE	ESE	Total	
BTAPRC501	PCC 14	Design of Machine Elements	3	1	--	20	20	60	100	4
BTAMC502	PCC 15	Automotive Transmission Systems	3	1	--	20	20	60	100	4
BTAMC503	PCC 16	Automotive Chassis and Suspension	2	1	--	20	20	60	100	3
BTAMC504	PCC 17	Manufacturing Processes	2	1	--	20	20	60	100	3
BTMEC505	PCC 18	Metrology and Quality Control	2	1	--	20	20	60	100	3
BTID506	PCC 19	Product Design Engineering - II	1	--	2	60	--	40	100	2
BTAMC506A	OEC 2	Automotive Materials	3	--	--	--	--	--	--	Audit (AU/ NP)
BTMEC506B		Nanotechnology								
BTMEC506C		Energy Conservation and Management								
BTAML507	PCC 20	Machine Design Practice	--	--	2	30	--	20	50	1
BTAML508	PCC 21	Automotive Transmission Systems Lab	--	--	2	30	--	20	50	1
BTAML509	PCC 22	Automotive Chassis and Suspension Lab	--	--	2	30	--	20	50	1
BTAMF510	Project 2	Field Training /Internship/Industrial Training II	--	--	--	--	--	50	50	1
Total			16	5	8	250	100	450	800	23

**B. Tech. Automobile Engineering**  
**Course Structure for Semester VI [Third Year] w.e.f. 2019-2020**

Course Code	Type of Course	Course Title	Weekly Teaching Scheme			Evaluation Scheme				Credits
			L	T	P	CA	MSE	ESE	Total	
BTAMC601	PCC 23	Heat Transfer	3	1	--	20	20	60	100	4
BTAMC602	PCC 24	Automobile Electricals and Electronics	2	1	--	20	20	60	100	3
BTAMC603	PCC 25	Vehicle Dynamics	2	1	--	20	20	60	100	3
BTAMC604A	PEC 1	Design of Experiments	2	1	--	20	20	60	100	3
BTAMC604B		Industrial Engineering and Management								
BTAMC604C		Alternative Fuels for IC Engines								
BTMEC605A	OEC 3	Quantitative Techniques in Project Management	3	--	--	20	20	60	100	3
BTMEC605B		Sustainable Development								
BTMEC605C		Renewable Energy Sources								
BTMEC606A	OEC 4	Biology for Engineers	3	--	--	--	--	--	--	Audit (AU/ NP)
BTMEC606B		Solar Energy								
BTMEC606C		Human Resource Management								
BTAML607	PCC 26	Heat Transfer Lab	--	--	2	30	--	20	50	1
BTAML608	PCC 27	Automobile Electricals and Electronics Lab	--	--	2	30	--	20	50	1
BTAML609	PCC 28	Vehicle Dynamics Lab	--	--	2	30	--	20	50	1
BTAMM610	Project 3	Technical Project for Community Services	--	--	4	30	--	20	50	2
Total			15	4	10	220	100	380	700	21