



Symbiosis Skills and Open University

**B.Tech –Automobile Engineering
(Bachelor of Technology-Automobile
Engineering)**

**Programme Structure
2018-19**

Symbiosis Skills and Open University

School of Automobile Engineering

Course Structure of B. Tech(Automobile Engineering)

Semester-I

Sr No	Subject Code	Subject Name	Hours						Credits				
			C	CL	T	P	S	H	L	T	P	S	C
1	APSC101	Applied Mathematics I	4	1	1	2	1	5	1	1	1	1	4
2	APSC103	Applied Chemistry	4	2	0	2	1	5	2	0	1	1	4
3	ENGG104	Applied Thermodynamics	4	2	0	2	1	5	2	0	1	1	4
4	ENGG102	Computer Programming	3	1	0	2	1	4	1	0	1	1	3
5	ENGG103	Engineering Mechanics	4	2	0	2	1	5	2	0	1	1	4
6	ENGG101	Engineering Drawing	4	0	0	2	3	5	0	0	1	3	4
7	IDCS101	IDSC-I [Life Coping Skills]	3	0	0	0	3	3	0	0	0	3	3
8	IEVS100	Environment studies	3	2			1						3
				10	2	12	11	33	8	2	7	9	29

Semester-II

Sr No	Subject Code	Subject Name	Hours						Credits				
			C	CL	T	P	S	H	L	T	P	S	C
1	APSC104	Applied Mathematics II	4	1	1	2	1	5	1	1	1	1	4
2	APSC102	Applied Physics	4	2	0	2	1	5	2	0	1	1	4
3	ENGG105	Basic of Electrical and Electronics Engineering	3	1	0	2	1	4	1	0	1	1	3
4	ENGG107	Strength of Materials	3	1	0	2	1	4	1	0	1	1	3
5	ENGG106	Material Science and Engineering	4	2	0	2	1	5	2	0	1	1	4
6	AUTO101	Automotive Engineering Fundamentals	3	1	0	2	1	4	1	0	1	1	3
7	ENGG108	Workshop Practice (Lab)	3	0	0	2	2	4	0	0	1	2	3

8	IDSC102	IDSC-2 [Life Coping Skills]	3	0	0	0	3	3	0	0	0	3	3
		INTERNSHIP-I	8										8
				8	1	14	11	34	8	1	8	9	35

Semester-III														
Sr No	Subject Code	Subject Name	Hours							Credits				
			C	CL	T	P	S	H	L	T	P	S	C	
1	APSC201	Applied Mathematics III	4	1	1	2	1	5	1	1	1	1	4	
2	MTRX201	Analog and Digital Electronics	4	2	0	2	1	5	2	0	1	1	4	
3	AUTO201	Theory of Mechanism	3	1	0	2	1	4	1	0	1	1	3	
4	AUTO202	Manufacturing Technology	3	1	0	2	1	4	1	0	1	1	3	
5	AUTO203	Vehicle Electronics I	4	2	0	2	1	5	2	0	1	1	4	
6	ENGG204	Fluid Mechanics	3	1	0	2	1	4	1	0	1	1	3	
7	MTRX202	Matlab and Simulink (Lab)	3	0	0	2	2	4	0	0	1	2	3	
8	IDSC201	IDSC-3 [Life Coping Skills]	3	0	0	0	3	3	0	0	0	3	3	
				8	1	14	11	34	8	1	8	9	27	
Semester-IV														
Sr No	Subject Code	Subject Name	Hours							Credits				
			C	CL	T	P	S	H	L	T	P	S	C	
1	MTRX203	Control Engineering	4	2	0	2	1	5	2	0	1	1	4	
2	ENGG202	Computer Aided Design	4	1	1	2	1	5	1	1	1	1	4	
3	AUTO204	IC Engines	4	1	1	2	1	5	1	1	1	1	4	
4	ENGG203	Dynamics of Machinery	4	1	1	2	1	5	1	1	1	1	4	
5	ENGG201	Heat and Mass Transfer	4	2	0	2	1	5	2	0	1	1	4	
6	AUTO205	Vehicle Electronics II	4	1	1	2	1	5	1	1	1	1	4	
7	IDSC202	IDSC-4 [Life Coping Skills]	3	0	0	0	3	3	0	0	0	3	3	
		INTERNSHIP-II	8										8	
				8	4	12	9	33	8	4	7	7	35	

Semester-V													
Sr No	Subject Code	Subject Name	Hours						Credits				
			C	CL	T	P	S	H	L	T	P	S	C
1	AUTO301	Automotive Engineering	4	1	1	2	1	5	1	1	1	1	4
2	ENGG301	Reliability Engineering	4	2	0	2	1	5	2	0	1	1	4
3	AUTO303	Robotics and Automation	4	1	1	2	1	5	1	1	1	1	4
4	AUTO304	Design of Automotive Element	4	2	0	2	1	5	2	0	1	1	4
5	AUTO302	Finite Element Method and Analysis	4	1	1	2	1	5	1	1	1	1	4
6	AUTO305/6/7	Elective I a. Automotive Engine Design b. Advanced Manufacturing Process c. Digital Signal Processing	4	1	1	2	1	5	1	1	1	1	4
7	IDSC301	IDSC-5 [Life Coping Skills]	3	0	0	0	3	3	0	0	0	3	3
	AUDIT COURSE	Disaster Management											
				8	4	12	9	33	8	4	7	7	27
Semester-VI													
Sr No	Subject Code	Subject Name	Hours						Credits				
			C	CL	T	P	S	H	L	T	P	S	C
1	AUTO308	Auto Product Development	4	1	1	2	1	5	1	1	1	1	4
2	AUTO309	Regulatory Requirements	4	2	0	2	1	5	2	0	1	1	4
3	AUTO310	Hybrid and Electric Vehicle	4	1	1	2	1	5	1	1	1	1	4
4	AUTO311	Vehicle Dynamics	4	2	0	2	1	5	2	0	1	1	4
5	AUTO312/13/14	Elective II a. Noise Vibrations & Harshness b. Vehicle Assembly c. Powertrain Electronics	4	1	1	2	1	5	1	1	1	1	4

