

		K.S.R. COLLEGE OF ENGINEERING (Autonomous) (Approved by AICTE & Affiliated to Anna University) K.S.R. Kalvi Nagar, Tiruchengode – 637 215				CURRICULUM UG R - 2016	
Department		Automobile Engineering					
Programme		B.E. - Automobile Engineering					
SEMESTER - I							
Sl. No.	Course Code	Course Name	Hours/ Week			Credit	
			L	T	P	C	
THEORY							
1.	16HS1101	Technical English – I	3	0	0	3	
2.	16MA1102	Engineering Mathematics – I	3	1	0	4	
3.	16PH1103	Engineering Physics	3	0	0	3	
4.	16CY1104	Engineering Chemistry	3	0	0	3	
5.	16CS1105	Computer Programming	3	0	0	3	
6.	16ME2106	Engineering Drawing	1	3	0	4	
PRACTICAL							
7.		Physics and Chemistry Laboratory - I *	-	-	3	-	
8.	16CS1110	Computer Practices Laboratory	0	0	3	2	
9.	16AU2111	Computer Aided Drawing Laboratory	0	0	3	2	
Total credits						24	

* Laboratory Examination only in the II Semester


SEMESTER - II						
Sl. No.	Course Code	Course Name	Hours/ Week			Credit
			L	T	P	C
THEORY						
1.	16HS1201	Technical English – II	3	0	0	3
2.	16MA1202	Engineering Mathematics – II	3	1	0	4
3.	16PH1203	Material Science	3	0	0	3
4.	16CY1204	Environmental Science and Engineering	3	0	0	3
5.	16EE2205	Basics of Electrical and Electronics Engineering	3	1	0	4
6.	16CE2206	Engineering Mechanics	3	1	0	4
PRACTICAL						
7.	16GE1210	Physics and Chemistry Laboratory – II	0	0	3	2
8.	16EE2201	Basics of Electrical and Electronics Engineering Laboratory	0	0	3	2
9.	16GE1212	Engineering Practices Laboratory	0	0	3	2
Total credits						27

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Department		Automobile Engineering					
Programme		B.E. - Automobile Engineering					
SEMESTER - III							
Sl. No.	Course Code	Course Name	Hours/ Week			Credit	
			L	T	P	C	
THEORY							
1.	16MA2301	Engineering Mathematics - III	3	1	0	4	
2.	16AU3302	Fluid Mechanics and Machinery	3	0	0	3	
3.	16AU3303	Mechanics of Materials	3	1	0	4	
4.	16AU3304	Thermodynamics and Thermal Engineering	3	1	0	4	
5.	16AU3305	Automotive Manufacturing Technology	3	0	0	3	
6.	16AU3306	Automotive Chassis	3	0	0	3	
PRACTICAL							
7.	16AU3310	Manufacturing Technology Laboratory	0	0	3	2	
8.	16AU3311	Strength of Materials Laboratory	0	0	3	2	
9.	16AU3312	Fluid Mechanics and Machinery Laboratory	0	0	3	2	
Total credits						27	

SEMESTER - IV						
Sl. No.	Course Code	Course Name	Hours/ Week			Credit
			L	T	P	C
THEORY						
1.	16MA2401	Numerical Methods	3	1	0	4
2.	16AU3402	Automotive Fuels and Lubricants	3	0	0	3
3.	16AU3403	Mechanics of Machines	3	1	0	4
4.	16AU3404	Automotive Computer Controlled Systems	3	0	0	3
5.	16AU3405	Automotive Engines	3	0	0	3
6.	16AU3406	Automotive Materials and Metallurgy	3	0	0	3
PRACTICAL						
7.	16AU3410	Automotive Chassis and Engine Components Laboratory	0	0	3	2
8.	16AU3411	Automotive Electronics and Microprocessor Laboratory	0	0	3	2
9.	16AU3412	Fuels and Lubricants Laboratory	0	0	3	2
Total credits						26

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Programme		B.E. - Automobile Engineering					
SEMESTER - V							
Sl. No.	Course Code	Course Name	Hours/ Week			Credit	
			L	T	P	C	
THEORY							
1.	16AU3501	Automotive Transmission	3	0	0	3	
2.	16AU3502	Machine Elements Design	3	1	0	4	
3.	16AU3503	Vehicle Design and Data Characteristics	3	1	0	4	
4.	16AU3504	Fluid Power systems	3	0	0	3	
5.	16AU3505	Two and Three Wheelers	3	0	0	3	
6.	16AU3506	Automotive Electrical and Electronics Systems	3	0	0	3	
PRACTICAL							
7.	16AU3510	Automotive Electrical and Electronics Laboratory	0	0	3	2	
8.	16AU3511	Automotive Components Modeling Laboratory	0	0	3	2	
9.	16AU3512	Engine Testing and Emission Measurement Laboratory	0	0	3	2	
Total credits						26	

SEMESTER - VI						
Sl. No.	Course Code	Course Name	Hours/ Week			Credit
			L	T	P	C
THEORY						
1.	16AU3601	Automotive Chassis Components Design	3	1	0	4
2.	16AU3602	Automotive Engines Components Design	3	1	0	4
3.	16AU3603	Finite Element Analysis	3	1	0	4
4.	16AU3604	Emission, Vibration and Noise Control	3	0	0	3
5.		Professional Elective - I	3	0	0	3
6.		Open Elective - I	3	0	0	3
PRACTICAL						
7.	16AU3610	Design and Analysis Laboratory	0	0	3	2
8.	16AU3611	Computer Aided Chassis and Engine Design Laboratory	0	0	3	2
9.	16HR1513	Communication Skills – Laboratory Based	0	2	0	2
Total credits						27

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Programme		B.E. - Automobile Engineering					
SEMESTER - VII							
Sl. No.	Course Code	Course Name	Hours/ Week			Credit	
			L	T	P	C	
THEORY							
1.	16HS1701	Engineering Ethics and Human Values	3	0	0	3	
2.	16AU3702	Vehicle Dynamics	3	0	0	3	
3.	16AU3703	Vehicle Maintenance and Testing	3	0	0	3	
4.		Professional Elective -II	3	0	0	3	
5.		Professional Elective -III	3	0	0	3	
6.		Open Elective -II	3	0	0	3	
PRACTICAL							
7.	16AU3710	Vehicle Maintenance and Reconditioning Laboratory	0	0	3	2	
8.	16AU3711	Vehicle Dynamics Laboratory	0	0	3	2	
9.	16AU3712	Industrial Training and Seminar	0	0	4	2	
Total credits						24	

SEMESTER - VIII						
Sl. No.	Course Code	Course Name	Hours/ Week			Credit
			L	T	P	C
THEORY						
1.	16HS2821	Total Quality Management	3	0	0	3
2.		Elective -IV	3	0	0	3
3.		Elective -V	3	0	0	3
PRACTICAL						
4.	16AU3810	Project Work	0	0	12	6
Total credits						15

Total Credit = 24 + 27 + 27 + 26 + 26 + 27 + 24 + 15 = 196

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Department		Automobile Engineering					
Programme		B.E. - Automobile Engineering					
ELECTIVE - I (SEMESTER – VI)							
Sl. No.	Course Code	Course Name	Hours/ Week			Credit	
			L	T	P		
THEORY							
1.	16AU4601	Automotive Air-Conditioning (T)	3	0	0	3	
2.	16AU4602	Alternate Fuels and Energy Systems (T)	3	0	0	3	
3.	16AU4603	Automotive Sensors (A)	3	0	0	3	
4.	16AU4604	Design of Automotive Jigs, Fixtures and Press Tools	3	0	0	3	
5.	16AU4605	Intelligent Vehicle Technology (A)	3	0	0	3	
6.	16AU4606	Intellectual Property Rights (IPR)	3	0	0	3	
7.	16AU4607	Computational Fluid Dynamics (D)	3	0	0	3	
8.	16AU4608	Metrology and Measurements (M)	3	0	0	3	
9.	16AU4609	Vehicle Body Engineering (A)	3	0	0	3	
ELECTIVE - II & III (SEMESTER – VII)							
Sl. No.	Course Code	Course Name	Hours/ Week			Credit	
			L	T	P		
THEORY							
1.	16AU4701	Automotive Aerodynamics (D)	3	0	0	3	
2.	16AU4702	Automotive Materials (M)	3	0	0	3	
3.	16AU4703	Advanced Theory and Simulation of I.C. Engines	3	0	0	3	
4.	16AU4704	Virutal Instrumentation in Automobile Engineering	3	0	0	3	
5.	16AU4705	Industrial Robotics and Expert Systems (M)	3	0	0	3	
6.	16AU4706	Combustion Thermodynamics and Heat Transfer	3	0	0	3	
7.	16AU4707	Reliability in Automotive Engineering (M)	3	0	0	3	
8.	16AU4708	Automotive Vehicle Safety	3	0	0	3	
9.	16AU4709	Manufacturing of Automotive Components	3	0	0	3	
10.	16AU4710	Hybrid and Electric Vehicles	3	0	0	3	

ELECTIVE - IV & V (SEMESTER – VIII)						
Sl. No.	Course Code	Course Name	Hours/ Week			Credit
			L	T	P	C
THEORY						
1.	16AU4801	Operations Research and Vehicle Routing	3	0	0	3
2.	16AU4802	Machine Drawing, Dimensioning and Tolerance	3	0	0	3
3.	16AU4803	Engineering Optimization	3	0	0	3
4.	16AU4804	Special Purpose Vehicles	3	0	0	3
5.	16AU4805	Entrepreneurship Development	3	0	0	3
6.	16AU4806	Indian Constitution and Society	3	0	0	3
7.	16AU4807	Fuel Cells and Applications	3	0	0	3
8.	16AU4808	Flexible and Lean Manufacturing	3	0	0	3
9.	16AU4809	Transport Management	3	0	0	3

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Department		Automobile Engineering					
Programme		B.E. - Automobile Engineering					
ONE Credit Courses							
Sl. No.	Course Code	Course Name	Hours/ Week			Credit C	
			L	T	P		
THEORY							
1.		Overview of Motor Sports Engineering					
2.		Automotive Styling					
3.		Electronic Engine Management System					
4.		Vehicle Service Management					