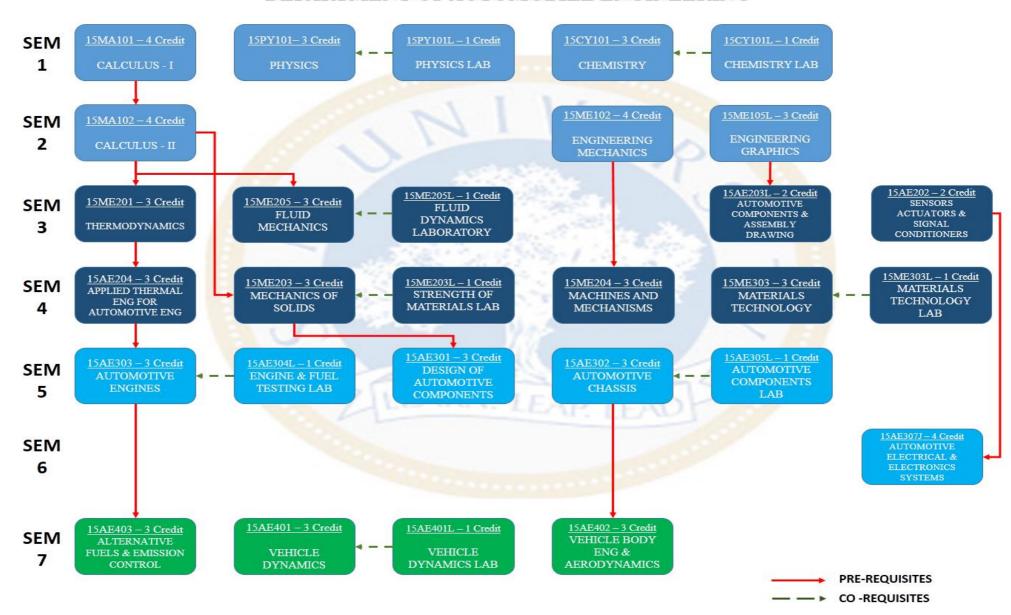
DEPARTMENT OF AUTOMOBILE ENGINEERING



Automotive Control

System

Microcontrollers for

Automotive Applications

Model Based System

Vehicle Stability and

DEPARTMENT OF AUTOMOBILE ENGINEERING					
Course Code	Course title	Pre- requisites	Co-requisites		
	SEMESTER - I		-		
15PD101	Soft Skills				
15MA101	Calculus And Solid Geometry				
15PY101	Physics				
15PY101L	Physics Lab		15PY101		
15CS101L	Programming Lab				
15CY101	Chemistry				
15CY101L	Chemistry Lab		15CY101		
15BT101	Biology For Engineers				
15EE101	Basic Electrical Engineering				
15CE101	Basic Civil Engineering				
151 E101	SEMESTER - II	T	1		
15LE101	English				
15LE102	Value Education				
15PD102	Soft Skills - II				
15NC/NS/SP/YG101	NSS/NCC/Yoga/Sports	15751101			
15MA102	Advanced Calculus And Complex Analysis	15MA101			
15PY102	Material Science				
15CY102	Principles Of Environmental Science				
15EC101	Basic Electronics Engineering				
15ME101	Basic Mechanical Engineering				
15ME104L	Workshop Practice				
15ME105L	Engineering Graphics				
15ME102	Engineering Mechanics				
15AE101L	Artifact Dissection				
	SEMESTER - III	1			
	Language				
15PD201	Aptitude				
15MA202	Fourier Series, Partial Differential Eqn & Its Applications				
15ME201	Thermodynamics	15MA102			
15ME205	Fluid Mechanics	15MA102			
15AE201J	Manufacturing Technology For Automotive Engineers				
15AE202	Sensors Actuators And Signal Conditioners				
15AE203L	Automotive Components Assembly Drawing	15ME105L			
15ME205L	Fluid Dynamics Lab		15ME205		
	SEMESTER - IV	ī			
4.5DD 202	Language				
15PD202	Aptitude-II				
15MA206	Numerical Methods	15351100			
15ME203	Mechanics Of Solids	15MA102	1		
15ME303	Materials Technology	153 571 05	-		
15ME204	Machines And Mechanisms	15ME102	-		
15AE204	Applied Thermal Engineering For Automotive Engineers	15ME201	153 573 33		
15ME203L	Strength Of Materials Laboratory		15ME203		
15ME303L	Materials Technology Laboratory		15ME303		
15AE375L	Minor Project I		-		
15AE380L	Seminar I				
15AE385L	MOOCs I		1		
15AE490L	Industry Modules I		1		
	Dep Elective I				
15DD201	SEMESTER - V				
15PD301	Aptitude-III				
15MA301	Probability And Statistics	153 (E202	1		
15AE301	Design Of Automotive Components	15ME203	1		
15AE302	Automotive Chassis	15 4 5 2 0 4	1		
15AE303	Automotive Engines	15AE204			

15AE304L	Engine And Fuel Testing Laboratory		15AE303
15AE305L	Automotive Components Laboratory		15AE302
15AE390L	Industrial TrainingI		
	Dep Elective - II		
	Open Elective - I		
	GDI ATRONDO ATR		
150000	SEMESTER - VI		T
15PD302	Aptitude - IV		
15ME304	Fluid Power Control		
15AE307J	Automotive Electrical And Electronic Systems	15AE202	
15AE308J	Cad Analysis For Automotive Engineers		
15AE309	Automotive Transmission		
15AE375L/	Minor Project-II		
15AE381L/	Seminar-II		
15AE386L/	Massive Open Online Courses (MOOCs)-II		
15AE491L	Industrial Module -II		
	Dep Elective - III		
	Open Elective - II		
	CEMECAED VIII		
15 A E 401	SEMESTER - VII		1
15AE401	Vehicle Dynamics	15 A E 202	
15AE402	Vehicle Body Engineering And Aerodynamics	15AE302	
15AE403	Alternative Fuels And Emission Control	15AE303	
15AE404M	Multi Disciplinary Design		
15AE401L	Vehicle Dynamics Laboratory		
			15AE401
15AE405L	Vehicle Testing Laboratory		
15AE391L	Industrial Training II		
	Dep.Elective IV		
	Dep.Elective V		
	Dep.Elective VI		
1515105	SEMESTER - VIII		T
15AE496L	Major Project/Practice School		

DEPARTMENT OF AUTOMOBILE ENGINEERING DEPARTMENTAL ELECTIVES					
Course Code	Course Title	Pre- requisites	Co-requisites		
	DESIGN				
	Automotive Driveline Design				
	Design For Safety And Comfort				
	Design For Race Cars				
	New Product Development	15AE301			
15AE345E	Automotive Chassis Component Design	15AE301			
15AE441E	Vehicle Design Data Characteristics	15AE301			
	Finite Element Analysis	15ME203 15ME204			
15AE443E	Concept Of Engineering Design MANUFACTURING				
15AE221E	Welding And Joining Techniques				
15AE222E	Automotive Component Manufacturing				
15AE321E	Non Destructive Testing				
	Composite Materials And Structures				
15AE323E	Non Traditional Machining Techniques	15AE201J			
	Industrial Engineering And Operations Research	137112013			
	Agile Manufacturing				
15AE326E	Advanced Manufacturing Process	15AE201J			
	Computer Integrated Manufacturing	137122013			
	Process Planning And Cost Estimation	15AE201J			
	Manufacturing Systems And Simulation	15AE201J			
	Automotive Quality System	131122010			
137121212	VEHICLE TECHNOLOGY				
15AE331E	Auxiliary Vehicle Systems				
15AE332E	Automotive NVH				
	Two And Three Wheeler Technology				
15AE334E	Special Types Of Vehicles				
15AE335E	Vehicle Performance And Testing	15AE303			
15AE336E	Advanced Vehicle Technology	13712303			
15AE431E	Automotive Safety And Ergonomics				
15AE432E	Vehicle Maintenance				
	Tyre Technology				
	Automotive Standards And Regulations				
	Motorsport Technology				
13/12/1332	ENGINE				
15AE361E	HVAC	15AE204			
	Design Of Automotive Thermal System	15AE204			
15AE363E	Engine Testing And Validation	13/12201			
15AE364E	Advanced Engine Technology				
	Simulation Of IC Engine	15AE303			
15AE462E	Automotive Emission Formation And Control	15AE303			
	Fuel Testing And Standards	101112303			
15AE464E	Automotive Exhaust System Development	15AE303			
	Engine Auxiliary Systems	15AE303			
	VEHICULAR ELECTRONICS AND CONTROL		1		
15AE251E	Automotive Control System	15AE202			
15AE252E	Microcontrollers For Automotive Applications	15AE202			
15AE351E	Automotive Fault Diagnostics				
15AE352E	Automotive Communication Protocols	15AE252E			
15AE353E	Artificial Neural Network And Fuzzy Logic	10112222			
15AE354E	Electric And Hybrid Vehicle				
15AE451E	Intelligent Vehicle Technology				
	Model Based System Design	15AE251E			
15AE453E	Vehicle Stability And Control	15AE251E			
1JAE4J3E	venicle Stability And Condoi	IJAEZJIE			