Dr. Mahalingam College of Engineering and Technology, Pollachi

[Autonomous Institution]

Department of Automobile Engineering

Course Exit Survey

Name & Roll No : _____ Batch : 20 __ --20 __

Course Code & Title: **140AU0301- ENGINEERING MATHEMATICS- III**

Course Outcome	Very Well Accomplished	Well Accomplished	Moderately Accomplished	Poorly Accomplished
CO1: Compute the Fourier series expansion for given periodic functions.				
CO2: Compute the Fourier transform for periodic functions.				
CO3: Determine the solution of first and second order PDE				
CO4: Solve the one dimensional wave equation				
CO5: Solve one dimensional and two dimensional heat flow equations.				

Course Code & Title: **140AU0302 - ENGINEERING THERMODYNAMICS**

Course Outcome	Very Well Accomplished	Well Accomplished	Moderately Accomplished	Poorly Accomplished
CO1: Explain the basic concepts of thermodynamics and gas properties.				
CO2: Apply the first law of thermodynamics to closed and open systems viz. Nozzle, diffuser, compressor, turbine, pump and heat exchanger.				
CO3: Use second law of thermodynamics and the concept of entropy for evaluating the performance of heat engine, refrigerator and eat pump.				
CO4: Evaluate the performance of vapor power cycles viz. Rankine, reheat and regenerative cycles.				
CO5: Estimate the heating and cooling loads for automotive, domestic and industrial air conditioning systems.				

Course Code & Title: **140AU0303 - MANUFACTURING PROCESSES – II**

Course Outcome	Very Well Accomplished	Well Accomplished	Moderately Accomplished	Poorly Accomplished
CO1: Select appropriate metal cutting processes which involve Lathe, Automat, Drilling and Milling machines to manufacture a machined part.				
CO2:Select the metal finishing processes like grinding, honing, burnishing and lapping for the given design requirement				
CO3: Develop process sequence for the given machined part				
CO4: Use Lathe, Automat, Drilling and Milling machines to manufacture a machined part				
CO5: Describe modern manufacturing systems like CNC, RP & PM				

Course Code & Title: **140AU0304 - FLUID MECHANICS AND MACHINERY**

Course Outcome	Very Well Accomplished	Well Accomplished	Moderately Accomplished	Poorly Accomplished
CO1: Calculate the properties of fluids.				
CO2: Apply the principles of kinematics and dynamics of fluid.				
CO3: Determine flow rates and head losses in viscous and turbulent flows.				
CO4: Evaluate the performance of turbines				
CO5: Evaluate the performance of pumps				

Course Code & Title: **140AU0305 - IC ENGINES**

Course Outcome	Very Well Accomplished	Well Accomplished	Moderately Accomplished	Poorly Accomplished
CO1: Compare the construction and working principles of IC Engines.				
CO2: Compare the thermodynamic parameters of engine operating cycles (Otto & Diesel).				
CO3: Explain the working principle of subsystems of IC engines.				
CO4: Describe the influences of combustion chamber geometry on combustion.				
CO5: Select the appropriate cooling and lubrication system for low power and high power application.				
CO6: Choose the suitable IC engines for ON road vehicles based on load and speed.				

Course Code & Title: **140AU0306 - AUTOMOTIVE ELECTRICAL AND ELECTRONICS - I**

Course Outcome	Very Well Accomplished	Well Accomplished	Moderately Accomplished	Poorly Accomplished
CO1:Calculate the electrical parameters in a given circuit				
CO2: Describe and differentiate the architecture of Microprocessor and Microcontroller.				
CO3: Explain the construction, working and characteristics of battery charging system in Automobile.				
CO4: Calculate the torque of DC Electrical motors that drive automotive systems				
CO5: Explain the characteristics of AC Electrical motors				
CO6: Choose the Electrical wires, fuses and lighting systems for given load rating in an automotive vehicle				

Signature