

**VII<sup>th</sup> Sem**

<b>SUBJECT NAME- AUTOMOBILE ENGINEERING</b>	
<b>SUBJECT CODE-ME-401E</b>	
<b>COURSE OUTCOMES</b>	
CO1	Ability to identify the different parts of the automobile
CO2	Knowledge of working and mechanism of various parts like engine, transmission, clutch, brakes, and ability to explain them.
CO3	Knowledge of electronic system used in recent automobiles.
CO4	Ability to describe operation of steering and the suspension systems.
CO5	Knowledge of environmental implications of automobile emissions and social responsibility.
CO6	Develop a strong base for understanding future developments in the automobile industry.

<b>SUBJECT NAME- MECHANICAL MEASUREMENT &amp; CONTROL</b>	
<b>SUBJECT CODE-ME-403E</b>	
<b>COURSE OUTCOMES</b>	
CO1	Ability to identify and select proper measuring instrument for specific application.
CO2	Knowledge of working principle of measuring instruments.
CO3	Knowledge of errors and uncertainty in relation to measuring instruments.
CO4	Identify sensors for measurement of vibration, thermo-physical properties and radiation properties of surfaces.
CO5	Knowledge of different control systems, characteristics and application.
CO6	Mathematically model and analyze system/process for standard input responses.

<b>Advanced Manufacturing Technology</b>	
<b>ME-419E</b>	
<b>COURSE OUTCOMES</b>	
CO 1	Able to understand different types of composite material characteristics,
CO 2	Knowledge of different surface coating and treatment processes.
CO 3	Knowledge of plastics, moulding, casting and machining of plastics.
CO 4	Knowledge of thread manufacturing, their inspection and measurement.
CO5	Knowledge of metal forming, rolling, die casting and design of dies.
CO6	Ability of cost estimation and preparation of report with representation skills.

<b>MAINTENANCE ENGINEERING</b>	
<b>ME-437E</b>	
<b>COURSE OUTCOMES</b>	
CO1	Knowledge of the maintenance function and its objectives.
CO2	Knowledge about the types of maintenance and know how to use them.
CO3	Knowledge about the maintenance planning and control system and documentation.
CO4	Knowledge of non-destructive testing techniques and their selection.
CO5	Knowledge of the techniques of reliability improvement.
CO6	Ability to prepare the maintainability checklist, fault diagnosis diagrams their interpretation and communication.

<b>STATISTICAL QUALITY CONTROL &amp; RELIABILITY</b>	
<b>ME 405 E</b>	
<b>COURSE OUTCOMES</b>	
CO 1	Knowledge of the Quality Management philosophy's.
CO 2	Knowledge of statistical control tools.
CO3	Ability to prepare, interpret and communicate the quality control charts.
CO 4	Knowledge of current practices used to measure quality in industrial processes and manufacture products.
CO5	Evaluation of performance indicators of an organization i.e. reliability, maintainability and availability.
CO6	Ability to explain and discuss how procedures for statistical quality control can be implemented and contribute to development in industrial organisations.

<b>SUBJECT NAME- MEASUREMENT &amp; CONTROL LAB</b>	
<b>ME-407E</b>	
<b>COURSE OUTCOMES</b>	
CO1	Knowledge of the LVDT system and its applications.
CO2	Knowledge of torque and pressure pick-ups and its applications and measuring ability.
CO3	Knowledge of thermocouple and its applications.
CO4	Knowledge of non-contact type measuring devices such as LDR (light dependent resistor) and speed pick-ups.
CO5	Knowledge and ability to use load cell and perform measurement.
CO6	Knowledge of strain gauges and ability to perform measurements.

**VIII<sup>th</sup> Sem**

<b>ENTREPRENEURSHIP</b>	
<b>ME-402E</b>	
<b>COURSE OUTCOMES</b>	
CO1	Ability to recognize distinct entrepreneurial traits
CO2	Ability to assess parameters of opportunities and constraints for new business ideas.
CO3	Student will be able to attain leadership and managerial skill.
CO4	Ability to understand and prepare a feasibility project report and to communicate them effectively both orally and in writing.
CO5	Knowledge of current theories, models, techniques and tools used in areas of finance, Information Technologies, Marketing.
CO6	Knowledge of the ethical environment impacting business organizations.

<b>NON CONVENTIONAL MANUFACTURING</b>	
<b>ME-402E</b>	
<b>COURSE OUTCOMES</b>	
CO1	Knowledge of the principle of working of NCM process
CO2	Knowledge of the need for NCM processes and impact on society.
CO3	Knowledge of the working principle and mechanism of metal removal in the various unconventional machining process.
CO4	Ability to identify the process parameters of NCM processes and their effect on different processes.
CO5	Knowledge of application of various non-conventional manufacturing process.
CO6	Ability to select a suitable modern machining process for given applications.

<b>MANAGEMENT INFORMATION SYSTEM</b>	
<b>ME-420E</b>	
<b>COURSE OUTCOMES</b>	
CO1	Understand the basic concepts and technologies used in the field of Management information systems.
CO2	Develop an understanding of how various information systems work together i.e. ERP system to accomplish the information objectives of an organization;
CO3	Awareness of the ethical, social, and security issues of information systems.
CO4	Understand the role of information systems in organizations, the strategic management processes.
CO5	Ability to create professional documentation and interpret with written and oral skills.
CO6	Interpret how to use information technology to solve business problems

<b>OPERATIONAL RESEARCH</b>	
<b>ME-406E</b>	
<b>COURSE OUTCOMES</b>	
CO 1	Knowledge of basic concepts, models and statements of the operations research theory and application in industry.
CO 2	Ability to formulate and solve linear programming problems using appropriate techniques and optimization solvers.
CO 3	<b>Ability to solve</b> problems of transporting the products from origins to destinations with least transportation cost.
CO 4	Develop mathematical skills to analyze and solve network model analysis and interpret and communicate the reports.
CO5	Knowledge of simulation, its applications to solve engineering problems along with its merits and demerits.
CO6	Ability to apply decision making process to solve the real world situations.

<b>POWER PLANT ENGINEERING</b>	
<b>ME-404 N</b>	
<b>OUTCOMES</b>	
CO1	Knowledge of conventional and unconventional sources of energy.
CO2	Knowledge of hydro power plants, working, parameters and terminology.
CO3	Knowledge of steam power cycles and different boilers, mountings and accessories.
CO4	Knowledge of coal and diesel plants with environmental issues.
CO5	Knowledge of nuclear power plants.
CO6	Knowledge of load curves, performance parameters and power plant economics and environmental hazards

<b>ENTREPRENEURSHIP (PR)</b>	
<b>ME-408E</b>	
<b>COURSE OUTCOMES</b>	
CO1	Ability to assess parameters of opportunities and constraints for new business ideas.
CO2	Ability to understand and prepare a feasibility project report and data interpretation.
CO3	Ability to work in groups or as individual.
CO4	Student will be able to attain leadership and managerial skill.
CO5	Knowledge of current theories, models, techniques and tools used in areas of finance, Information Technologies, Marketing.
CO6	Ability to communicate effectively both orally and in writing.