Department of Mechanical Engineering					
	Semester 3				
Sl.No.	Name of the Subject	CO Code	Course Outcomes		
		MA 201.1	Identify analytic functions and Harmonic functions		
			Identify conformal mapping and to find the regions that are mapped under certain		
		MA 201.2	transformations.		
		MA 201.3	Evaluate real definite integrals as application of Residue theorem		
1	Linear Algebra And Complex	MA 201 4	Solve any given system of linear equations and to find the Eigen values of a matrix and how		
1	Anarysis	MA 201.4	A cquaint with the basic concents of stress and deformation in solids		
		ME 201 .1	Analyze stress and strain in simple structural members		
		ME 201.2 ME 201.3	Determine the stresses in simple structural members such as shafts beams, columns etc.		
2	Machanias Of Salids	ME 201.3	Understand principal planes and stresses, and apply the results to combined leading access		
		ME 201.4	Idea on the mechanics of fluid motion		
		IVIL 203.1	Establish fundamental knowledge of basic fluid mechanics and address specific topics		
		ME 203.2	relevant to simple applications involving fluids		
		ME 203.3	Familiarize students with the relevance of fluid dynamics to many engineering systems		
3	Mechanics Of Fluids	ME 203.4	Disseminate the ideas on Dimensionless analysis and similitude		
		ME 205 .1	Understand basic thermodynamic principles and laws		
		ME 205 .2	Develop the skills to analyze and design thermodynamic systems		
		ME 205 .3	Provide a better understanding of energy and energy related engineering systems.		
4	Thermodynamics	ME 205 .4	Provide the students a feel for how thermal sciences are applied in engineering practice		
		ME 210.1	Familiarize with the crystal structures of metallic materials.		
		ME 210.2	Examine the characteristics of metal's microstructure by visual inspection techniques.		
			Analyze the binary phase diagrams, heat treat treatment process and strengthening		
		ME 210.3	procedure of Fe-C alloys.		
-	Metallurgy And Materials		Recognize the stages that will lead to failures of metals on structural/thermal loading and		
5	Engineering	ME 210.4	characteristics of materials namely composites, modern engineering materials, ceramics		
		HS200.1	Familarise perspective engineers with elementary principles of business economics		
		HS200.2	Apply business analysis to the firm under different market conditions.		
		HS200 3	addressing economic issues		
		110200.5	Prepare and analyse various business tools like balance shet, cost benefit analysis and rate		
6	Business Economics	HS200.4	of return at an elementary level.		
			Semester 4		
Sl.No.	Name of the Subject	CO Code	Course Outcomes		
		MA202.1	Discrete and continuous probability density functions and special probability distributions.		

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		MA202.2	Laplace and Fourier transforms and apply them in their Engineering
		MA202.3	Numerical methods and their applications in solving engineering problems
			Introduce the concept of random variables, probability distributions, specific discrete and
1	And Numerical Methods	MA 202 4	continuous distributions with practical application in various Engineering and social life
1	And Numerical Methods	MA202.4	A maly concents of strong and stroin analyzes in solids
		ME202.1	Lies the precedures in theory of electicity at a basic level
		ME202.2	C she severel has the methods
		ME202.3	Solve general bending problems
2	Advanced Mechanics Of Solids	ME202.4	Apply energy methods in structural mechanics problems
		ME204 .1	into analysis of cyclic processes
			To apply the thermodynamic concepts into various thermal application like IC
		ME204 .2	engines, steam turbines, compressors.
		ME204 .3	understand air pollution from IC engines and its remedies
3	Thermal Engineering	ME204 .4	acquire knowledge on the working of steam turbines, IC engines and gas turbines
		ME206.1	Discuss the characteristics of centrifugal pump and reciprocating pumps.
		ME206.2	Calculate forces and work done by a jet on fixed or moving plate and curved plates.
		ME206.3	Know the working of turbines and select the type of turbine for an application.
4	Fluid Machinery	ME206.4	Do the analysis of air compressors and select the suitable one for a specific application.
		ME220.1	Acquire knowledge in various casting processes and technology related to them
		ME220.2	Understand the rolling passes required for getting required shapes of rolled products.
		ME220.3	Discuss the important aspects of forging techniques and sheet metal working processes.
5	Manufacturing Technology	ME220.4	Acquire knowledge in various types of welding processes
		HS210.1	Communicate effectively.
		HS210.2	Face interview & group discussion
		HS210.3	Handle Engineering Ethics and Human Values.
6	Life Skills	HS210.4	Write different types of reports
		•	Semester 5
Sl.No.	Name of the Subject	CO Code	Course Outcomes
		ME301.1	Ability to evaluate kinematics and mechanics of various mechanisms
		ME301.2	Make aware of various mechanisms and its involvement in daily life.
		ME301.3	Determination of design parameters for gears and cams.
1	MECHANICS OF MACHINERY	ME301.4	Synthesis of mechanisms
		ME303.1	Introduce students to the scientific principles underlying material behavior during manufacturing process so as to enable them to undertake calculations of forces, tool stress and MMR.

			Understand various machine tools such as lathe, drilling mc, reciprocating mc, and their
		ME303.2	operations.
		ME303.3	Impart knowledge of appropriate parameters to be used for various machining operations.
	MACHINE TOOLS AND DIGITAL		Develop knowledge on the importance of milling grinding and super finishing in metal
2	MANUFACTURING	ME303.4	cutting process, and to introduce to DM
		ME 305.1	Students will be able to write Computer Programs.
		ME 305.2	Study how to solve the numerical solutions for engineering problems.
	COMPUTER PROGRAMMING	ME 305.3	Able to solve the system of equation and heat equations.
3	AND NUMERICAL METHODS	ME 305.4	Able to solve the algoritham and design of various programmes
		EE311.1	Give a strong foundation on all electrical machines including DC machines, transformers,
		EE311.2	Give a strong foundation on induction motors and synchronous motors.
	ELECTRICAL DRIVES AND	EE311.3	Good grasp on working of electrical machines and transformers, and their applications.
4	CONTROL FOR AUTOMATION	EE311.4	Gives a basic idea about traction and welding.
			Develop ability to critically analyze and evaluate a variety of management practices in the
		HS300.1	contemporary context;
		HS300 .2	Understand and apply a variety of management and organizational theories in practice.
			Able to mirror existing practices or to generate their own innovative management
		HS300 .3	competencies, required for today's complex and global workplace:
5	DDINCIDI ES OF MANAGEMENT	US200 4	Able to critically reflect on ethical theories and social responsibility ideologies to create
5	FRINCIPLES OF MANAGEMENT	115500.4	Present the basic concepts methods equipment applications and limitations of NDT
			methods such as Visual Penetrant Testing Magnetic Particle Testing Ultrasonic Testing
		ME367.1	Radiography, Eddy Current.
		ME367.2	Facilitate selection of appropriate NDT methods
		ME367.3	Understand advantages and limitations of nondestructive testing methods
6	NON DESTRUCTIVE TESTING	ME367.4	Study the developments and future trends in NDT.
		•	Semester 6
Sl.No.	Name of the Subject	CO Code	Course Outcomes
		ME302 .1	Introduce the various modes of heat transfer
		ME302 .2	Develop methodologies for solving a wide variety of practical heat transfer problems
			Provide useful information concerning the performance and design of simple heat transfer
		ME302 .3	systems
1	HEAT AND MASS TRANSFER	ME302 .4	Introduce mass transfer
			Impart knowledge on force analysis of machinery, balancing of rotating and reciprocating
		ME304.1	masses and Gyroscopes
		ME304.2	Give basic understanding of energy fluctuation in Machines.
		ME304 2	Introduce the rundamentals in vibration, vibration analysis of single degree of freedom
		LIVIE 304.3	jsystems.

2	DVNAMICS OF MACHINERY	MF304.4	Understand the physical significance and design of vibration systems with desired
		ME306 1	Introduce machining principles and processes in the manufacturing of precision components and products that use conventional and perconventional technologies
		WIE500.1	Give basic understanding of the machining capabilities limitations and productivity of
		ME306.2	advanced manufacturing processes.
		ME306.3	Describe how PLC's operate and how they control automated equipment and systems
	ADVANCED MANUFACTURING		Introduce CNC programming and to demonstrate tool path simulations with CNC powered
3	TECHNOLOGY	ME306.4	equipment
		ME308.1	Gain a basic knowledge on Computer Aided Design methods and procedures.
		ME308.2	Understand the fundamentals of solid modeling.
	COMPUTER AIDED DESIGN &	ME308.3	Have a basic knowledge in finite element analysis procedures.
4	ANALYSIS	ME308.4	Learn various analysis methods and solution procedures.
		ME312.1	Understand the working of linear and angular measuring equipments, their principles of operations and application basic principles of measurements.
		ME312.2	Familiarize the working of optical measuring instruments, fundamentals of limits and limit gauges, fundamentals of screw thread parameters.
		ME312.3	Give an exposure to advanced measuring devices.
5	METROLOGY AND INSTRUMENTATION	ME312.4	Learn various comparators, transducers and devices used for measuring force, torque, stress- strain and temperature.
		ME368.1	State the role and functions of marketing management
		ME368.2	Describe key Marketing concepts, theories and Techniques for analyzing and variety marketing situations
		ME368.3	Identify and demonstrate the dynamic nature of the environment in which marketing decisions are taken.
6	MARKETING MANAGEMENT	ME368.4	Synthesize ideas into a marketing plan
			Semester 7
Sl.No.	Name of the Subject	CO Code	Course Outcomes
		ME401.1	To review concepts of statics and strength of materials.
		ME401.2	To introduce fundamental approaches to failure prevention of components.
			To provide knowledge in the design of common machine elements such
	DESIGN OF MACHINE	ME401.3	as fasteners, shafts
1	ELEMENTS - I	ME401.4	To provide knowledge in the design springs cotter joints and couplings.
		ME403.1	To give an idea about global energy scenario
		ME403.2	To give an idea of conventional energy sources
		ME403.3	To understand solar, wind , Biomass energy and concepts of other renewable energy sources
2	ADVANCED ENERGY ENGINEERING	ME403.4	To create awareness on the impacts of energy conversion and importance of sustainable energy

		ME405.1	To introduce vapour compression and vapour adsorption systems
		ME405.2	To impart knowledge on refrigeration cycles and methods to improve performance
	REFRIGERATION &	ME405.3	To familiarize the components of refrigeration systems & air conditioning systems
3	AIRCONDITIONING	ME405.4	To know the applications of refrigeration and air conditioning systems
		ME407.1	To introduce the features of various sensors used in CNC machines and robots
		ME407.2	To study the fabrication and functioning of MEMS pressure and inertial sensors
		ME407.3	To develop hydraulic/pneumatic circuit
4	MECHATRONICS	ME407.4	PLC program for simple applications
		ME409.1	To familiarize with behavior of compressible gas flow.
		ME409.2	To understand the subsonic flow
		ME409.3	To understand the supersonic flow
5	COMPRESSIBLE FLUID FLOW	ME409.4	To familiarize with high speed test facilities
		ME467.1	To provide the knowledge of evolution of low temperature science
		ME467.2	To provide knowledge on the properties of materials at low temperature
		ME467.3	To familiarize with various gas liquefaction systems
6	CRYOGENIC ENGINEERING	ME467.4	To provide design aspects of cryogenic storage and transfer lines
		ME463.5	The anatomy of the automobile in general
		ME463.6	To study working of different automotive systems and subsystems
		ME463.7	The functioning of the engine and its accessories, gear box, clutch, brakes, steering, suspension etc
7	AUTOMOBILE ENGINEERING	ME463.8	Study latest developments in automobiles
			Semester 8
Sl.No.	Name of the Subject	CO Code	Course Outcomes
		ME402.1	Provide basic design skills with regard to clutches.
		ME402.2	Provide basic design skills with regard to brakes, belt drives, bearings.
	DESIGN OF MACHINE	ME402.3	Provide basic design skills with regard to gears and connecting rod.
1	ELEMENTS - II	ME402.4	Understand the design modifications to be considered for the ease of manufacturing.
		ME404.1	To impart theoretical knowledge about various tools and techniques of Industrial Engineering.
		ME404.2	To create awareness about various safety procedures to be followed in carrying out different types of projects.
		ME404.3	To get acquainted with the Inventory management Principles and Techniques.
2	INDUSTRIAL ENGINEERING	ME404.4	To equip the students with the theoretical knowledge of Quality control practices and testing methods.
		ME476.1	To provide understanding of the overall facilities planning process
	Material Handling & Easilities	ME476.2	To educate product, process and schedule design and their effects on the facility layout

3	Planning	ME476.3	To introduce concepts of material handling and safety in industries.
	ENVIRONMENTAL IMPACT	CE482.1	To study the various types of environmental pollution
4	ASSESSMENT	CE482.2	To study the impact of various types of pollutants and their assessment techniques