Program : B.Tech- Mechanical Engineering	Academic Year : 2020-21	Semester : I & II

S.No	Year/ Sem	Course Code	Course Name	Course Outcomes (After completion of the course student can able to :)
1	II/I	MA301BS	Probability and Statistics & Complex Variables	**CO1:** Describe the use of Baye's theorem techniques when solving the problems.
				CO2: Solve the problems on Binomial and Geometric Distributions.
				CO3: Determine the testing of Hypothesis by using Type-I and Type-II errors.
				CO4: Identify the Different types of Hypothesis.
				CO5: Describe the complex function with their analyticity. integration using Cauchy's Integral and Residue theorem.
				CO6: Discuss the Taylor's and Laurent series expansions.
2	II/I	ME302PC	Mechanics of Solids	**CO1:** Define the fundamental of stress and strain and the relationship between both equations in order to solve problems for simple tri-dimensional elastic solids & thermal stress. strain energy.
				CO2: Differentiate the different type of beams & loads and also calculate the sheer force and bending moments diagram and their relations.
				CO3: Explain the Flexural Stresses, Assumptions & equations and also Shear stress distribution across various beams sections.
				CO4: Analyze Principal Stresses and Strains problem identification. formulation and solution using a range of analytical methods and also calculate the Various theories of failure.
				CO5: Apply the loads Torsion of Circular Shafts and also calculate Theory of pure torsion, Assumptions & Thin Cylinders Derivation of formula for stress & strain.
3	II/I	ME303PC	Material Science and Metallurgy	**CO1**: Analyze the Structure of materials at different levels. basic concepts of crystalline materials like unit cell, FCC, BCC, HCP, APF (Atomic Packing Factor), Co-ordination Number etc.
				CO2: Identify concept of mechanical behaviours, strength & properties of different metallic materials.
				CO3: Differentiate different phase& phase diagram & understand the basic terminologies associated with metallurgy. Construction and identification of phase diagrams and reactions.

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				CO4: Identify and suggest the heat treatment process & types. Significance of properties Vs microstructure . Surface hardening & its types. Introduce the concept of harden ability & demonstrate the test used to find harden ability of steels.
				CO5: Summarize the different classification & application of advanced materials like ceramics, polymers & composites.
				CO6: Study the different classification & application of advanced materials like composites, polymers & ceramics.
4	II/I	ME304PC	Production Technology	**CO1:** Formulate the process of casting and different allowances occurred during the casting and also different material selection for the patterns.
				CO2: Design core, core print and Gating System in metal Casting System.
				CO3: Describe different types of welding process for joining of similar and dis-similar metals.
				CO4: Analyze the welding defects by different processes.
				CO5: Classify the different types of joining process like Hot working, cold working Blanking and piercing – Bending and forming wire drawing and Tube drawing.
				CO6: Apply the different types Extrusion process & Forging process.
5	II/I	ME305PC	Thermo Dynamics	**CO1:** Differentiate between different thermodynamic systems and processes and compare Macroscopic and Microscopic Approaches of Thermodynamics.
				CO2: Apply the laws of thermodynamics to different types of systems. Undergoing various processes and flow system. prepare efficiency of Heat Engine and COP of Heat Pump. Refrigerator.
				CO3: Define the various properties of pure substances. the concept of perfect Gas laws. Carnot engine and also draw the P-V.T-S.P-T and H-S diagrams of pure substance.
				CO4: Define the various non-flow processes. flow processes heat & work Transfer, Vader Waals equation, dryness fraction, Dalton's law of partial pressure, Avogadro's law, enthalpy and entropy.
				CO5: Define the various non-flow processes, flow processes heat & work Transfer, Vader Waals equation, dryness fraction, Dalton's law of partial pressure, Avogadro's law, enthalpy and entropy.
				CO6: Analyze the thermodynamic cycles and evaluate performances Parameters.
				CO1: Understand the properties of moulding sands.
				CO2: Understand the properties of Pattern making.

6	II/I	ME306PC	Production Technology Lab	CO3: Understand Fabricate joints using gas welding and arc welding.
				CO4: Evaluate the quality of welded joints.
				CO5: Basic idea of press working tools.
				CO6: Perform molding studies on plastics.
7	II/I	ME307PC	Machine Drawing Practice	CO1: Prepare engineering and working drawings with dimensions and bill of material during design and development. Develop assembly drawings using part drawings of machine components.
				CO2: Understand representation of materials, common machine elements and parts such as screws, nuts, bolts, keys, gears, webs, ribs.
				CO3: Analyze types of sections – selection of section planes and drawing of sections and auxiliary sectional views.
				CO4: Understand Methods of dimensioning, general rules for sizes and placement of dimensions for holes, centers, curved and tapered features.
				CO5: Analyze title boxes, their size, location and details – common abbreviations and their liberal usage.
				CO6: Compare types of Drawings – working drawings for machine parts.
8	II/I	ME308PC	Material Science and Mechanics of Solids Lab	CO1: Students will be able to understand basic concepts of stress, strain and their relations based on linear elasticity. Material behaviours due to different types of loading will be discussed.
				CO2: Predict the behaviour of the material under impact conditions.
				CO3: Understand the procedure of doing hardness test for different materials.
				CO4: Analyze the different materials applying loads due to compression, tension, shear, torsion.
				CO5: Understand to beams of different type loads duo to the bending moment.
9	II/I	MC309	Constitution of India	CO1: Understand meaning, features, characteristics of constitution law and constitutionalism.
				CO2: Describe fundamental rights, fundamental duties and its legal status.
				CO3: Describe The constitution powers and status of the President of India.
				CO4: Understand Emergency Provisions: National Emergency, President Rule, And Financial Emergency.
				CO5: Understand Fundamental Right to Equality, Fundamental Right to certain Freedom under Article 19.
				CO6: Describe the Scope of the Right to Life and Personal Liberty under Article 21.

10	II/II	EE401ES	Basic Electrical and Electronics Engineering	**CO1:** Understand the basic electrical circuit elements and different ac circuits.
				CO2: Understand the installation of different electrical equipments.
				CO3: Describe the working of different transformers.
				CO4: Understand the principles of DC motors.
				CO5: Analyze the different diodes, rectifiers and filters.
				CO6: Understand the principle, applications of BJT and FET.
11	II/II	ME402PC	Kinematics of Machinery	**CO1:** Differentiate suitable mechanisms like four bar chain mechanism, crank slatter quick return motion mechanism for different applications (shaping machine and slotting machine.
				CO2: Draw velocity and displacement diagrams by applying different methods such as instantaneous centre method, graphical method and analysis of mechanism.
				CO3: Different mechanisms in different situations like straight line mechanisms and steering gear mechanisms.
				CO4: Knowledge of the principles to draw the different CAM profiles with different followers.
				CO5: Select the gear and gear trains for the various applications Pinion &gear& pinion and rock arrangement.
12	II/II	ME403PC	Thermal Engineering - I	**CO1:** Explain the working principle and the components of Internal Combustion engines.
				CO2: Analyze the losses occurs during combustion process and expertise in the concept of combustion process.
				CO3: Describe the operations of reciprocating air compressor and apply their knowledge in compressed air applications.
				CO4: Gain the knowledge in working principles of rotary air compressors such as single and multiple vane, roots, screw and scroll type.
				CO5: Explain and Analyze the various gas turbine power plant and its cycles.
13	II/II	ME404PC	Fluid Mechanics and Hydraulic Machines	**CO1:** Classify the effect of fluid properties on a flow system and also point out pressure and its measurements.
				CO2: Classify type of fluid flow patterns and apply continuity equation, momentum equation, Euler's and Bernoulli's equations for flow along a stream line.
				CO3: Classify boundary layer concepts and submerged objects and also point out drag and lift Force.
				CO4: Develop a variety of practical fluid flow and flow measuring devices and utilize fluid mechanics principles in flow through pipes design.
				CO5: To develop an appropriate turbine with reference

				to given situation in power plants and also develop impact of jet on vanes.
				CO6: To summarize performance parameters of a given Centrifugal and Reciprocating pumps.
14	II/II	ME405PC	Instrumentation and Control Systems	**CO1:** Understand knowledge of filed instrumentations.
				CO2: Understand the study of measurement of displacement, temperature, pressure measurements.
				CO3: Understand measurement of liquid level and flow, speed, acceleration, vibration measurement.
				CO4: Understand the application of strain gauges.
				CO5: Understand the measurement of humidity, force, torque and power.
				CO6: Understand the study of control systems in processes.
15	II/II	ME407PC	Fluid Mechanics & Hydraulic Machines Lab	**CO1:** Identify importance of various fluid properties at rest and in transit.
				CO2: Apply general governing equations for various fluid flows.
				CO3: Understand the concept of boundary layer theory and flow separation.
				CO4: Plot velocity and pressure profiles for any given fluid flow.
				CO5: Evaluate the performance characteristics of hydraulic turbines.
				CO6: Evaluate the performance characteristics of pumps.
16	II/II	ME408PC	Instrumentation & Control Systems Lab	**CO1:** Characterize and calibrate measuring devices.
				CO2: Identify and analyze errors in measurement.
				CO3: Analyze measured data using regression analysis.
				CO4: Calibration of Pressure Gauges, temperature, LVDT, capacitive transducer and rotameter.
				CO5: Analyze use of a Seismic pickup for the measurement of vibration amplitude of an engine bed at Various loads.
				CO6: Understand the SCADA system.
17	II/II	EE409ES	Basic Electrical and Electronics Engineering Lab	**CO1:** Understand behavior of different electrical components.
				CO2: Formulate and solve AC.DC circuits.
				CO3: Realize the requirement of transformers.
				CO4: Explain the properties of electromagnetic circuit.
				CO5: Understand the principles of various electrical circuits.
				CO6: Understand working principles of various analogue electrical measuring instruments.
				CO1: Develop sensibility with regard to issues of gender in contemporary India.
				CO2: Provide a critical perspective on the socialization of men and women.
				CO3: Determine information about some key biological

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18	II/II	MC409	Gender Sensitization Lab	aspects of genders.
				CO4: Debate on the politics and economics of work.
				CO5: Reflect critically on gender violence.
				CO6: Expose more egalitarian interactions between men and women.
19	III/I	ME501PC	Dynamics of Machinery	**CO1:** Assess the effect of Gyroscopic couple in a dynamic body such as aero plane, 4-wheeler etc.
				CO2: Perform static and dynamic analysis to attain equilibrium in mechanisms.
				CO3: Analyze friction clutches, brakes dynamometer and Governors.
				CO4: Determine balancing mass for rotating and reciprocating mass systems.
				CO5: Perform analysis of the response of one degree freedom system with free and forced vibrations.
20	III/I	ME502PC	Design of Machine Members-1	**CO1:** Apply fundamental design practices with regard to material selection, material properties, manufacturing considerations and standards and codes.
				CO2: Apply stress analysis theory, fatigue theory and appropriate criteria of failure to the design of machine elements.
				CO3: Design and analyze the temporary joints (bolted joints) and permanent joints (riveted and welded joints) under various load conditions.
				CO4: Design solid and hollow shafts under various load conditions.
				CO5: Analyze compression, tension and torsion springs under various load conditions.
21	III/I	ME503PC	Metrology & Machine Tools	**CO1:** Differentiate Understand working of lathe, shaper, planner, drilling, milling and grinding machines.
				CO2: Differentiate Comprehend speed and feed mechanisms of machine tools.
				CO3: Estimate machining times for machining operations on machine tools.
				CO4: Identify techniques to minimize the errors in measurement.
				CO5: Identify methods and devices for measurement of length, angle, and gear& thread parameters, surface roughness and geometric features of parts.
				CO6: Handle the various measuring instruments in quality assurance department of industries.
22	III/I	SM504MS	Business Economics and Financial Analysis	**CO1:** Understand the various forms of Business and impact of economics.
				CO2: Analysis the demand, supply, production, cost.
				CO3: Analyze production, Types of production functions.
				CO4: Understand the market structure and pricing types.

				CO5: Describe the accounting concepts.
				CO6: Understand the ratio analysis.
23	III/I	ME505PC	Thermal Engineering-II	**CO1:** Develop state – space diagrams based on the schematic diagrams of process flow of steam and gas turbine plants.
				CO2 : Apply the laws of Thermodynamics to analyze thermodynamic cycles.
				CO3: Differentiate between vapour power cycles and gas power cycles.
				CO4: Infer from property charts and tables and to apply the data for the evaluation of performance parameters of the steam and gas turbine plants.
				CO5: Understand the functionality of major components of steam and gas turbine plants and to do the analysis of these components.
24	III/I	ME506PC	Operations Research	**CO1:** Understand operations research models.
				CO2: Understand the problem.
				CO3: Describe sequencing.
				CO4: Explain about replacement.
				CO5: Differentiate Theory of games and Inventory.
				CO6: Describe waiting lines and dynamic programming.
25	III/I	ME507PC	Thermal Engineering Lab	**CO1:** Mention working principles of different engines.
				CO2: Evaluate the performance of IC engines and compressors under the given operating conditions.
				CO3: Test the power in the engine cylinder.
				CO4: Find the efficiencies of different engines.
				CO5: Test the frictional power of the engine.
				CO6: Draw timing diagrams for SI/CI engines.
26	III/I	ME508PC	Metrology & Machine Tools Lab	**CO1:** Understand step turning, Taper turning on lathe machine.
				CO2: Measure cutting forces on lathe.
				CO3: Explain the measurement of lengths, heights by venire callipers.
				CO4: Understand the thread measurement by 2-wire , 3-wire methods.
				CO5: Describe the measurement of gear cutting on milling machine.
				CO6: Understand the use of mechanical comparator.
27	III/I	ME509PC	Kinematics & Dynamics Lab	**CO1:** Understand types of motion.
				CO2: Analyze forces.
				CO3: Analyze torques of components in linkages.
				CO4: Differentiate static and dynamic balance.
				CO5: Understand forward and inverse kinematics of open loop mechanisms.
				CO1: Analyze different types of intellectual property.
				CO2: Express function of trademarks.

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28	III/I	MC510	Intellectual Property Rights	**CO3:** Understand law of copy rights.
				CO4: Understand law of patents.
				CO5: Explain trade secrets.
29	III/II	ME601PC	Design of Machine Members-II	**CO1:** Gain the Knowledge on journal bearing design using different empirical relations.
				CO2: Select and design a rolling contact bearing for different types of loads and estimate the life of rolling contact bearings.
				CO3: Design the various internal combustion engine components like connecting rod, piston.
				CO4: Design the helical coil springs for different applications under fatigue loading condition.
				CO5: Compare the belts and rope ways based on their power transmission and Application.
				CO6: Knowledge on the strength of gears and various places used different gears depend upon various applications.
30	III/II	ME602PC	Heat Transfer	**CO1:** Explain the basic modes and mechanisms of heat transfer.
				CO2: Analyze one dimensional steady state and unsteady state conduction heat transfer.
				CO3: Solve convective heat transfer problems of natural and forced convection heat transfer.
				CO4: Design the different heat exchanger for various industrial applications like Chemical industry, food processing and refrigeration plants.
				CO5: Compare the boiling, Condensation and radiation heat transfer.
				CO6: Apply the knowledge of heat transfer in aerospace industries.
31	III/II	ME603PC	CAD & CAM	**CO1:** Development Of Part Drawings For Various Components In The Form Of Orthographic And Isometric. Representation Of Dimensioning And Tolerances.
				CO2: Generation Of Various 3D Models Through Protrusion. Revolve. Sweep Creation Of Various Features Study Of Boolean Based Modeling And Assembly Modeling. Study Of Various Standard Translators. Design Of Simple Components. Differentiate Surfaces And Curves.
				CO3: Apply G- Codes and M-Codes for various applications.
				CO4: Able To Study Of Various Post Processors Used In NC Machines. Development Of NC Code For Free Form And Sculptured Surfaces Using CAM Software.
				CO5: Able To Study Of Group Technology And Machining Operations Flexible Manufacturing.

				CO6: Able To Study Of Computer Integrated Technology And Quality Of Control.
32	III/II	ME612PE	Machine Tool Design (Professional Elective-I)	CO1: Understand basic motions involved in machine tool.
				CO2: Design machine tool structures.
				CO3: Design and analyze systems for specified speeds and feeds.
				CO4: Select subsystems for achieving high accuracy in machining.
				CO5: Understand control strategies for machine tool operations and apply appropriate quality tests.
33	III/II	MS611OE	Fundamentals of Management for Engineers (Open Elective-I)	CO1: Identify the areas to control and Selecting the Appropriate controlling methods/Techniques
				CO2: Develop the process of management's four functions: planning, organizing, leading, and controlling.
				CO3: Analyze and evaluate the influence of historical forces on the current practice of management
				CO4: Examine the circumstances that lead to management evolution and how it will affect future managers
				CO5: Evaluate leadership styles to anticipate the consequences of each leadership style.
34	III/II	ME604PC	Finite Element Methods	CO1: Apply finite element method to solve problems in solid mechanics.
				CO2: Formulate and solve the problems in one dimensional structures including trusses, beams and frames.
				CO3: Formulate FE characteristic equations for 2D elements and analyze plain stress, plain strain, axi symmetric and plate bending problems.
				CO4: Understand the basics of finite element analysis.
				CO5: Understand the basics of dynamic analysis.
35	III/II	ME605PC	Heat Transfer Lab	CO1: Perform steady state conduction experiments to estimate thermal conductivity of different materials.
				CO2: Perform transient heat conduction experiment.
				CO3: Estimate heat transfer coefficients in forced convection, free convection, condensation and correlate with theoretical values.
				CO4: Obtain variation of temperature along the length of the pin fin under forced and free convection.
				CO5: Perform radiation experiments: Determine surface emissivity of a test plate and Stefan-Boltzmann's constant and compare with theoretical value.
				CO6: Study of heat pipe and its demonstration.
				CO1 : Find out the different between CAD and CAM
				CO2: Learn the modified and zoom commands under

36	III/II	ME606PC	CAD & CAM Lab	the given design conditions.
				CO3: Design different components of automobile.
				CO4: Test the part program in the CNC machine.
				CO5: Observe the group technology.
				CO6: Test the quality of SI /CI engines parts.
37	III/II	EN608HS	Advanced Communication Skills Lab	**CO1:** Speak effectively.
				CO2: Express and communicate fluently and appropriately in social professional contexts.
				CO3: Develop the comprehensive ability through English language enables the students in understanding and assimilating other engineering subjects.
				CO4: The awareness of English lab enriches their communication and soft skills contributing to their overall development and success.
				CO5: Draft various letters and reports for all official purpose.
				CO6: Take part in social and professional communication.
38	III/II	MC609	Environmental Science	**CO1:** Get the information about ecosystem and also about its functions like Food chain, Ecological pyramids etc..
				CO2: Get the knowledge about the different types of resources like land, water, mineral and energy and also about the effects of environment by the usage of these resources.
				CO3: Gain the knowledge about the ecosystem diversity, its values and also about the importance of the endemic species and different techniques involved in its conservation
				CO4: Gain the knowledge about the different types of pollutions and their control technologies, Waste water treatment, Bio medical waste management etc..
				CO5: Get the complete information about EIA- Environmental Impact Assessment.
				CO6: Gain the knowledge about environmental policies and regulations.
39	IV/I	ME701PC	CAD/CAM	**CO1:** Development Of Part Drawings For Various Components In The Form Of Orthographic And Isometric. Representation Of Dimensioning And Tolerances.
				CO2: Generation Of Various 3D Models Through Protrusion, Revolve, Sweep Creation Of Various Features Study Of Boolean Based Modeling And Assembly Modeling. Study Of Various Standard Translators. Design Of Simple Components. Differentiate Surfaces And Curves.
				CO3: Apply G- Codes and M-Codes for various applications.
				CO4: Able To Study Of Various Post Processors Used In NC Machines. Development Of NC Code For Free Form And Sculptured Surfaces Using CAM Software.
				CO5: Able To Study Of Group Technology And Machining

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				Operations Flexible Manufacturing.
				CO6: Able To Study Of Computer Integrated Technology And Quality Of Control.
40	IV/I	ME702PC	Instrumentation & Control Systems	**CO1:** Characterize and calibrate measuring devices.
				CO2: Identify and analyze errors in measurement.
				CO3: Analyze measured data using regression analysis.
				CO4: Calibration of Pressure Gauges, temperature. LVDT, capacitive transducer and rotameter.
				CO5: Analyze use of a Seismic pickup for the measurement of vibration amplitude of an engine bed at Various loads.
				CO6: Understand the SCADA system.
41	IV/I	ME723PE	Power Plant Engineering (Professional Elective-II)	**CO1:** Understand the concept of Rankine Cycle.
				CO2: Understand the working of boilers including water tube , fire tube and high pressure boilers.
				CO3: Analyze the flow of steam through nozzles.
				CO4: Evaluate the performance of condensers and steam turbines.
				CO5: Evaluate the performance of gas turbines.
42	IV/I	ME733PE	Robotics (Professional Elective-III)	**CO1:** Understand basic components of robots.
				CO2: Differentiate types of robots and robot grippers.
				CO3: Model forward and inverse kinematics of robot manipulators.
				CO4: Analyze forces in links and joints of a robot.
				CO5: Programme a robot to perform tasks in industrial applications.
				CO6: Design intelligent robots using sensors.
43	IV/I	ME741PE	Mechanical Vibrations (Professional Elective-IV)	**CO1:** Understand the causes and effects of vibration in mechanical systems.
				CO2: Develop schematic models for physical systems and formulate governing equations of motion.
				CO3: Understand the role of damping. stiffness and inertia in mechanical systems.
				CO4: Analyze rotating and reciprocating systems and compute critical speeds.
				CO5: Analyze and design machine supporting structures. vibration isolators and absorbers.
44	IV/I	ME703PC	CAD/CAM Lab	**CO1 :** Find out the different between CAD and CAM
				CO2: Learn the modified and zoom commands under the given design conditions.
				CO3: Design different components of automobile.
				CO4: Test the part program in the CNC machine.
				CO5: Observe the group technology.
				CO6: Test the quality of SI /CI engines parts.
				CO1: Characterize and calibrate measuring devices.
				CO2: Identify and analyze errors in measurement.
				CO3: Analyze measured data using regression analysis.

S.No	Year/Sem	Code	Subject	Course Outcomes
45	IV/I	ME704PC	Instrumentation & Control Systems Lab	**CO4:** Calibration of Pressure Gauges, temperature, LVDT, capacitive transducer and rotameter.
				CO5: Analyze use of a Seismic pickup for the measurement of vibration amplitude of an engine bed at Various loads.
				CO6: Understand the SCADA system.
46	IV/I	ME705PC	Industry Oriented Mini Project	**CO1:** Able to collaborate with others as they work on intellectual projects.
				CO2: Plan, analyze, design and implement using different tools.
				CO3: Learn to work as a team and to focus on getting a working project done within a stipulated period of time.
47	IV/I	ME706PC	Seminar	**CO1:** Learn public speaking skills by presentations.
				CO2: Understand new technologies in all engineering fields.
				CO3: Improve problem solving skills.
48	IV/II	ME852PE	Fluid Power System (Professional Elective-V)	**CO1:** Understand the Properties of fluids, Fluids for hydraulic systems.
				CO2: Understand governing laws, distribution of fluid power, Design and analysis of typical hydraulic Circuits.
				CO3: Know accessories used in fluid power system, Filtration systems.
				CO4: Understand Maintenance of Fluid Power System.
				CO5: Describe oil hydraulics and pneumatics.
49	IV/II	ME863PE	Unconventional Machining Processes (Professional Elective-VI)	**CO1:** Understand the basic techniques of machining processes modeling.
				CO2: Understand the mechanical aspects of orthogonal cutting mechanics.
				CO3: Understand the thermal aspects of orthogonal cutting mechanics.
				CO4: Ability to extend, through modeling techniques, the single point, multiple point and abrasive machining processes.
				CO5: Estimate the material removal rate and cutting force, in an industrially useful manner, for practical machining processes.
50	IV/II	ME801PC	Major Project	**CO1:** Apply fundamental concepts of areas of study to solve a problem.
				CO2: Use effectively oral, written and visual communication.
				CO3: Work with teams to meet the requirement and to reach the targets.

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