MECHANICAL ENGINEERING

M.I.E.T. ENGINEERING COLLEGE

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)
UG - CSE, EEE & MECH Programs Accredited by NBA, New Delhi.
(An ISO 9001:2015 Certified Institution)
TRICHY – PUDUKKOTTAI ROAD, TIRUCHIRAPPALLI – 620 007.
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Ph: 0431 – 2660 303

Regulation– 2017 - UG

YEAR/SEMESTER : II/III	
C201/MA8353-TRANSFORMS AND PARTIAL DIFFERENTIAL EQUATIONS	
C201.1	Analyze Partial Differential Equations in various methods.
C201.2	Solving Fourier Series for different types of functions.
C201.3	Computing the solutions of the heat equation, wave equation and the Laplace equation subject to boundary conditions
C201.4	Deduce the Gaussian function in Self reciprocal form using Fourier Transforms.
C201.5	Formation of finite difference method in Z-transforms.
C202/ME8391-ENGINEERING THERMODYNAMICS	
C202.1	Apply the basic concepts of thermodynamics for energy conversion phenomenon.
C202.2	Calculate thermal efficiency and coefficient of performance for heat engines, refrigerators and heat pumps.
C202.3	Evaluate the performance of steam power cycles.
C202.4	Derive simple thermodynamic relations of ideal and real gases.
C202.5	Calculate the properties of air vapor mixtures using psychometrics
C202.6	Explain the performance of refrigeration systems and its environmental impacts.
C203/CE8394-FLUID MECHANICS AND MACHINERY	
C203.1	Apply the concept of fluid properties with their effects on fluid flow.
C203.2	Apply the concepts of general energy equations in fluid flow problems.
C203.3	Calculate the major and minor losses in flow through pipes.
C203.4	Apply the mathematical knowledge in boundary layer concepts.
C203.5	Understand the working principle of pumps and turbines.
C203.6	Analyze the various performance characteristics of pumps and turbines.
C204/ME8351-MANUFACTURING TECHNOLOGY - I	
C204.1	Understand the fundamentals of casting, Welding, Forging and Sheet metal process

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C204.2	Understand the basic concepts of Fusion and Non-Fusion Welding process
C204.3	Identify the different defects which occur in welding and casting process.
C204.4	Explain the various forming operations can performed in sheet metal process
C204.5	Compute the casting allowances and time taken for solidification in the process
C204.6	Understand the concepts of thermo and thermo setting plastics used in plastic manufacturing components
C205/EE8353-ELECTRICAL DRIVES AND CONTROLS	
C205.1	Select the rating and classes of duty of machines for particular application.
C205.2	Explain the mechanical and braking characteristics of dc and ac machines.
C205.3	Describe the starting methods of both dc and ac machines.
C205.4	Clarify conventional and solid state speed control of dc drives.
C205.5	Enlighten the speed control of dc and ac drive by conventional and solid state methods.
C205.6	Select the rating and classes of duty of machines for particular application.
C206/ME8361-MANUFACTURING TECHNOLOGY LABORATORY - I	
C206.1	Perform the taper turning operation in conventional lathe machine
C206.2	Perform the various thread operations for the given specification.
C206.3	Estimate the taper angle and machining time calculations in various machining operations.
C206.4	Perform the hexagonal bolts and square studs using shaper machine
C206.5	Calculate the eccentricity value to produce eccentric components
C207/ME8381-COMPUTER AIDED MACHINE DRAWING	
C207.1	Construct the machine drawing as per standards, Fits and Tolerances
C207.2	Identify proper computer graphics techniques for 2D drawing and 3D model.
C207.3	Develop the part model for any machine components by using modeling software.
C207.4	Develop the assembly model for machine components by using modeling software.

C207.5	Develop the program code for CNC machines for simulation
C207.6	Machine the components by using CNC machine
C208/EE8361-ELECTRICAL ENGINEERING LABORATORY	
C208.1	Perform the load test, OCC, load characteristics and speed control of DC shunt and DC series motor
C208.2	Perform the load test, OC and SC test on a single phase transformer
C208.3	Examine the regulation of an alternator by EMF and MMF methods
C208.4	Conduct the load test, speed control on various phase of induction motor
C208.5	Explore the DC and AC starters
C208.6	Perform the load test, OCC, load characteristics and speed control of DC shunt and DC series motor
C209/HS8381-INTERPERSONAL SKILLS / LISTENING & SPEAKING	
C209.1	Take international examination such as IELTS and TOEFL
C209.2	Participate in Group Discussion.
C209.3	Successfully answer questions in Interviews.
C209.4	Make effective Presentations.
C209.5	Participate confidently and appropriately in conversations both formal and informal
YEAR/SEMESTER : II/IV	
C210/MA8452-STATISTICS AND NUMERICAL METHODS	
C210.1	Define null and alternative hypothesis, Apply test statistic, level of significance and decision rule, Distinguish between Type I error and Type II errors to Explain the difference between one and two sided tailed of hypothesis.
C210.2	Explain the concept of analysis of variance to Distinguish between one and two factor analysis of variance tests.
C210.3	Solve Algebraic and Transcendental equations by various methods, Simultaneous linear equations using Direct and Indirect methods. Compute Eigen value of a matrix

	by power method.
C210.4	Interpret the data for Interpolation using various methods and compute the Numerical differentiation for Equal & Unequal intervals. Using Trapezoidal and Simpsons method for Numerical Integration solution.
C210.5	Solving first order differential equations using various types of single and multi step methods.
C210.6	Applying finite difference methods for solving II order differential equations.
C211/ME8492-KINEMATICS OF MACHINERY
C211.1	Understand the various kinematic concepts in different mechanisms.
C211.2	Analyze the velocity and acceleration of links at any point in various mechanisms.
C211.3	Construct the various cam profiles with follower motion.
C211.4	Solve the problems on gear and gear trains
C211.5	Recognize the effect of friction in different friction drives.
C211.6	Design the various motion transmission elements with their relative movements.
C212/ME8451-MANUFACTURING TECHNOLOGY– II
C212.1	Understand the constructional features of lathe and special machines
C212.2	Explain the various mechanism used in special machines
C212.3	Develop the part program in CNC milling and turning centers.
C212.4	Compute the tool nomenclature and tool life calculation in metal cutting process
C212.5	Select the suitable grinding wheels used in different grinding process
C212.6	Identify the suitable process to manufacture simple engineering components
C213/ME8491-ENGINEERING METALLURGY
C213.1	Describe the various phase diagram for engineering metals
C213.2	Identify the different types of engineering materials in industrial applications
C213.3	Understand the various isothermal transformation in heat treatment process
C213.4	Understand the effects of alloying elements on Ferrous and Non-Ferrous materials.

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| C213.5 | Discuss the properties and applications of Polymers, Ceramics and Composite materials |
| C213.6 | Identify the mechanical properties and deformation using various mechanical testing methods. |

C214/ME8395-STRENGTH OF MATERIALS FOR MECHANICAL ENGINEERS	
C214.1	Understand the concept of deformation due to different loading conditions.
C214.2	Understand the fundamentals of various stresses and strains in the structural member.
C214.3	Construct the shear force and bending moment diagram for load transferring mechanism in different beams.
C214.4	Apply the basic equations to design the shaft and helical springs.
C214.5	Determine the slope and deflection in beams using different methods.
C214.6	Design thin and thick cylinders subjected to internal and external pressures

C215/ME8493-THERMAL ENGINEERING-I	
C215.1	Calculate the efficiency of various gas power cycles.
C215.2	Compute the performance test on IC engines
C215.3	Estimate the concert of single and multi stage steam turbines
C215.4	Apply the thermodynamic concepts in various thermal systems.
C215.5	Calculate the properties of air vapor mixtures using psychometrics
C215.6	Explain the importance of efficient energy utilization in engineering practices and its impact on the environment

C216/ME8462-MANUFACTURING TECHNOLOGY LABORATORY–II	
C216.1	Calculate the various cutting forces using tool dynamometers.
C216.2	Generate gears using gear hobbling machines
C216.3	Perform surface finish operations using surface grinding and cylindrical grinding machines.
C216.4	Develop CNC part programming for turning and milling operations

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C216.5	Perform contour milling operation in various milling machine.
C216.6	Perform gear cutting operation using milling machine.
C217/CE8381-STRENGTH OF MATERIALS & FLUID MECHANICS AND MACHINERY LABORATORY	
C217.1	Determine the elastic constants by using tensile and torsion test machine for mild steel (MS) specimen
C217.2	Conduct hardness test for different metals and carry out impact test for MS specimen
C217.3	Determine deflection in beams
C217.4	Determine the discharge coefficients for venture meter & Orifice meter
C217.5	Analyze the flow measurement by using flow measuring equipment
C217.6	Evaluate the performance of hydraulic turbines & pumps under different working conditions.
C218/HS8461-ADVANCED READING AND WRITING	
C218.1	Make effective Presentations.
C218.2	Participate in Group Discussion.
C218.3	Successfully answer questions in Interviews.
C218.4	Take international examination such as IELTS and TOEFL
C218.5	Participate confidently and appropriately in conversations both formal and informal
C218.6	Take international examination such as IELTS and TOEFL
YEAR/SEMESTER : III/V	
C301/ME8595-THERMAL ENGINEERING-II	
C301.1	Understand the basic design parameters of various machine elements
C301.2	Understand the various stresses induce due to different loading conditions.
C301.3	Apply the basic design procedure to design the shafts, bearing and couplings.
C301.4	Apply the basic design steps to design the temporary and permanent joints.
C301.5	Design the various energy storing elements and engine components.

C301.6	Design the various machine members as per standard design catalogues.
C302/ME8593-DESIGN OF MACHINE ELEMENTS	
C302.1	Understand the basic laws of heat transfer in the engineering systems.
C302.2	Compute the temperature distribution in steady and unsteady state heat conduction.
C302.3	Evaluate the heat transfer coefficient for convection
C302.4	Calculate the phase change properties and the heat exchanger performance by varying the methods
C302.5	Calculate radiation heat transfer between black and gray body surfaces.
C302.6	Analyze the diffusion and convective mass transfer occurring in different applications
C303/ME8501-METROLOGY AND MEASUREMENTS	
C303.1	Discuss the concepts of measurements in metrological instruments.
C303.2	Explain the principles of linear and angular measuring instruments for industrial applications.
C303.3	Understand the concepts of various computer aided inspection tools.
C303.4	Explain the different form measurements in industry.
C303.5	Understand the basic concepts of interchangeability and selective assembly.
C303.6	Understand the working principle of measuring equipments to measure intensive and extensive properties.
C304/ME8594-DYNAMICS OF MACHINES	
C304.1	Understand the various force-motion relationships in different mechanisms
C304.2	Apply the principles of statics and dynamics to machinery
C304.3	Analyze the balancing masses in the rotating and reciprocating machines
C304.4	Solve the free vibration problems in longitudinal, transverse and torsional systems
C304.5	Apply the basic principles to reduce the undesirable effects of forced vibrations
C304.6	Apply the principles in mechanisms used for speed control and stability control

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C305/OIM552-LEAN MANUFACTURING (Open Elective-1)	
C305.1	Understand the concept of conventional manufacturing and Lean manufacturing
C305.2	Understand the cellular manufacturing theory, and uses of Lean production tools such as JIT, Kuban & TPM
C305.3	Apply the 'set up time' reduction principles and implementation of TQM & 5S principles
C305.4	Analyze the statistical consideration, variability reduction and design of experiment using SIC-ZIGMA implementation
C305.5	Understand the waste in any process, minimize waste through proper kaizens and other methods
C305.6	To improve the organization's efficiency through the use of LM tools
C306/ME8511-KINEMATICS AND DYNAMICS LABORATORY	
C306.1	Understand the concept of differential gear trains and kinematic links
C306.2	Evaluate the frequency of the vibrating system
C306.3	Analyze the controlling mechanisms
C306.4	Analyze the balancing masses in the rotating and reciprocating machines
C306.5	Determination of mass moment of inertia for different component
C306.6	Use the measuring devices for dynamic testing
C307/ME8512-THERMAL ENGINEERING LABORATORY	
C307.1	Conduct a test to find thermal conductivity of various engineering materials
C307.2	Measure the heat transfer rate in natural and forced convection environment
C307.3	Evaluate radiation heat transfer between black body surfaces and grey body surfaces
C307.4	Analyze the effectiveness of parallel and counter flow heat exchanger
C307.5	Compare the performance of theoretical and experimental refrigeration and air conditioning systems.
C307.6	Evaluate the performance of air compressors.

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colspan	
C308/ME8513-METROLOGY AND MEASUREMENTS LABORATORY	
C308.1	Ability to handle different measurement tools and perform measurements in quality impulsion
C308.2	Identify various gauges for measurement.
C308.3	Demonstrate linear and angular measurement using precision instruments.
C308.4	Apply the load cell to measure the force and torque
C308.5	Use thermocouple and comparator for taking measurement.
C308.6	Measure bore diameter using Bore gauge, telescope gauge and surface roughness using Surface Finish Measuring Equipment
YEAR/SEMESTER : III/VI	
C310/ME8651-DESIGN OF TRANSMISSION SYSTEMS	
C310.1	Select the materials for mechanical transmission system.
C310.2	Apply the design knowledge to design the various flexible drives.
C310.3	Apply the design concepts to design the parallel axis mating gear.
C310.4	Apply the basic design steps to design the perpendicular and oblique axis mating gear.
C310.5	Apply the design procedure to design the gear box.
C310.6	Apply the design principles to design the various friction drives.
C311/ME8691-COMPUTER AIDED DESIGN AND MANUFACTURING	
C311.1	Understand the concept of 2D and 3D transformations and clipping algorithm.
C311.2	Understand the fundamentals of parametric curves, surfaces and Solids
C311.3	Apply the visual realism by using different algorithm
C311.4	Apply the mass property calculations on different parts
C311.5	Understand the different types of CAD Standards.
C311.6	Apply the various CAD algorithms in the area of product design and development.
C312/ME8693-HEAT AND MASS TRANSFER	

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C312.1	Understand the basic laws of heat transfer in the engineering systems.
C312.2	Compute the temperature distribution in steady and unsteady state heat conduction.
C312.3	Evaluate the heat transfer coefficient for convection
C312.4	Calculate the phase change properties and the heat exchanger performance by varying the methods
C312.5	Calculate radiation heat transfer between black and gray body surfaces.
C312.6	Analyze the diffusion and convective mass transfer occurring in different applications
C313/ME8692-FINITE ELEMENT ANALYSIS	
C313.1	Solve Boundary value problems in structural and non-structural application.
C313 .2	Apply finite element methods in one dimensional Problem.
C313 .3	Solve dynamic problem by using finite element procedure.
C313 .4	Apply finite element technique in two dimensional scalar Problems.
C313 .5	Apply finite element method in two dimensional Vector problems.
C313 .6	Apply finite element procedure to solve problems on iso-parametric element
C314/ME8694-HYDRAULICS AND PNEUMATICS	
C314.1	Explain the Fluid power and operation of different types of pumps.
C314.2	Summarize the features and functions of Hydraulic motors, actuators and Flow control valves
C314.3	Explain the different types of Hydraulic circuits and systems
C314.4	Explain the working of different pneumatic circuits and systems
C314.5	Summarize the various trouble shooting methods and applications of hydraulic and pneumatic systems.
C314.6	Design the hydraulic circuit for multi-functional operations
C315/ME8091-AUTOMOBILE ENGINEERING (Professional Elective-1)	
C315.1	To understand basics of Automobile Engineering, conversant with drive train and

	transmission.
C315.2	To make the student conversant with Axles, Steering System & Tyre Wheel assembly and to understand basic and types of steering system
C315.3	To make the student conversant with Suspension and Brake System
C315.4	To make the student conversant with Vehicle Performance & Safety also able to understand basics of Vehicle maintenance.
C315.5	To make the student conversant with Vehicle Maintenance & Garage Practice also able to perform garage practices
C315.6	To understand the various Automobile Electrical System and latest advancement in vehicles
C316/ME8681-C.A.D. / C.A.M. LABORATORY
C316.1	Construct the machine drawing as per standards, Fits and Tolerances
C316.2	Identify proper computer graphics techniques for 2D drawing and 3D model.
C316.3	Develop the part model for any machine components by using modeling software.
C316.4	Develop the assembly model for machine components by using modeling software.
C316.5	Develop the program code for CNC machines for simulation
C316.1	Machine the components by using CNC machine
C317/ME8682-DESIGN AND FABRICATION PROJECT
C317.1	Identify problems with their technical skills
C317.2	Design a product as per requirement
C317.3	Develop the detailed drawing for fabrication product with latest tool
C317.4	Create prototype of a working model
C317.5	Contribute effectively as an individual and as a member in a team
C317.6	Develop detailed report for new product
C318/HS8581-PROFESSIONAL COMMUNICATION
C318.1	Take international examination such as IELTS and TOEFL

C318.2	Participate in Group Discussion.
C318.3	Successfully answer questions in Interviews.
C317.4	Make effective Presentations.
C318.5	Participate confidently and appropriately in conversations both formal and informal
C318.6	Take international examination such as IELTS and TOEFL

<table>
<tr><td colspan="2" align="center">YEAR/SEMESTER : IV/VII</td></tr>
<tr><td colspan="2" align="center">C401/ME8792-POWER PLANT ENGINEERING</td></tr>
<tr><td>C401.1</td><td>Understand the layout and components of various power plants</td></tr>
<tr><td>C401.2</td><td>Understand different types of cycles and it's efficiencies in various power plants.</td></tr>
<tr><td>C401.3</td><td>Understand the sources and concepts of renewable energy</td></tr>
<tr><td>C401.4</td><td>Calculate the factors associated with power plant economics.</td></tr>
<tr><td>C401.5</td><td>Select the suitability of site for a power plant.</td></tr>
<tr><td>C401.6</td><td>Identify safety aspects of power plants</td></tr>
<tr><td colspan="2" align="center">C402/ME8793-PROCESS PLANNING AND COST ESTIMATION</td></tr>
<tr><td>C402.1</td><td>Introduce the process planning concepts to make cost estimation for various products after process planning</td></tr>
<tr><td>C402.2</td><td>Identify the documents required for the process planning</td></tr>
<tr><td>C402.3</td><td>Calculate the material cost of a product.</td></tr>
<tr><td>C402.4</td><td>Explain the various associated in manufacturing shops.</td></tr>
<tr><td>C402.5</td><td>Calculate the machining time for various machining operations.</td></tr>
<tr><td>C402.6</td><td>Analyzing and approving subcontractor's capabilities and their quality plans.</td></tr>
<tr><td colspan="2" align="center">C403/ME8791-MECHATRONICS</td></tr>
<tr><td>C403.1</td><td>Explain mechatronics design process</td></tr>
<tr><td>C403.2</td><td>Choose sensors based on their working principle.</td></tr>
<tr><td>C403.3</td><td>Discuss the working of various actuators.</td></tr>
<tr><td>C403.4</td><td>Discuss the architecture of microprocessors and microcontroller.</td></tr>
</table>

C403.5	Explain the architecture of PLC and contrast it from PC and relay systems.
C403.6	Discuss the various case studies.
C404/OIE751 ROBOTICS (Open Elective-2)	
C404.1	To develop the student's knowledge in various robot structures and their workspace
C404.2	To develop student's skills in performing spatial transformations associated with rigid body motions
C404.3	To develop student's skills in perform kinematics analysis of robot systems
C404.4	To provide the student with knowledge of the singularity issues associated with the operation of robotic systems
C404.5	To provide the student with some knowledge and analysis skills associated with trajectory planning
C404.6	To provide the student with some knowledge and skills associated with robot control
C405/GE 8077 TOTAL QUALITY MANAGEMENT (Professional Elective-2)	
C405.1	Describe the dimensional barrier regarding Quality.
C405.2	Summarize the Total quality principles.
C405.3	Demonstrate the tools utilization for quality improvement.
C405.4	Discover the new decision of principle in real time projects.
C405.5	Analyze the various types of techniques are used to measure quality.
C405.6	Apply the various quality systems in implementation of Total quality management.
C406/ME8097 NON DESTRUCTIVE TESTING AND EVALUATION (Professional Elective-3)	
C406.1	The student shall be able to select an appropriate NDT technique as per requirement
C406.2	The student shall be able to set various process parameters and control the NDT process for the desired output parameters
C406.3	The student shall be able to find the internal flaws in the material by NDT and take measures to eliminate them
C406.4	The student shall be able to solve various problems encountered like leakage, cracks,

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	blowholes etc with the manufacturing process by analyzing the data.
C406.5	The student shall be competent enough to make use of modern tools and softwares for analyzing and solving real life problems
C406.6	The student shall be able to introduce environmental friendly solutions to achieve organizational sustainability
C407/ME8711-SIMULATION AND ANALYSIS LABORATORY	
C407.1	Simulate the dynamic system by using MAT lab software.
C407.2	Simulate the mechanism by using multi-body dynamic software
C407.3	Analyze the stresses for trusses and beams using analysis software
C407.4	Analyze the stresses for axis-symmetric components by using analysis software
C407.5	Analyze the response of vibrating system analysis software
C407.6	Analyze the Thermal stress and heat transfer analysis of plates and cylindrical shells analysis software
C408/ME8781-MECHATRONICS LABORATORY	
C408.1	Simulate Hydraulic, Pneumatic circuit using software tool.
C408.2	Simulate Electro pneumatic circuits using trainer kits.
C408.3	Design and test various fluid power circuits using software tool
C408.4	Interface stepper motor with 8051micro controller
C408.5	Conduct experiments using servo controller and stepper motor.
C408.6	Conduct experiments PID Controller interfacing
C409/ME8712-TECHNICAL SEMINAR	
C409.1	Enrich the communication skills of the student technical topics of interest
C409.2	Familiarize the preparation of content of technical writing
C409.3	Enrich the presentations skills of the student technical topics of interest
C409.4	Participate confidently and appropriately in conversations both formal and informal
C409.5	Participate in technical group discussion.
C409.6	Participate in technical quiz programs

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YEAR/SEMESTER : IV/VIII	
C410/ME8591-PRINCIPLES OF MANAGEMENT	
C410.1	Identifies the global context for taking managerial organization.
C410.2	Predict the global opportunity that will impact the management of an organization.
C410.3	Prepare the management principles into management practices.
C410.4	Analyze the managerial problem with ethical practice standards.
C410.5	Breakdown the managerial task executed in the variety of circumstances.
C410.6	Identify the most effective Action to take in the specific situation of addressing issues.
C411/IE8693-PRODUCTION PLANNING AND CONTROL (Professional Elective– IV)	
C411.1	Understand the production planning processes to convert the raw material into finished product.
C411.2	Prepare the production planning activities chart for work study to reduce the production time.
C411.3	Improve the market sale of existing product by changing the product planning
C411.4	Select the suitable process planning for manufacturing of a product.
C411.5	Analyze the production schedule for the given product.
C411.6	Analyze the inventory for a new product with help of latest software.
C412/ME8811-PROJECT WORK	
C412.1	Identify real world problems of core engineering and related systems
C412.2	Formulate new set of problems
C412.3	Take on with industrial changes
C412.4	Evaluate to obtain solution for problems in mechanical engineering systems
C412.5	Adapt to work as a team for the successful completion of the project
C412.6	Document preparation and communication very clearly

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Course Outcome	Programme Outcomes II to IV YEAR SUBJECTS												PSOs	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2
C201/MA8353-TRANSFORMS AND PARTIAL DIFFERENTIAL EQUATIONS														
C201.1	3	2	3	2	2	-	-	-	-	-	-	2	2	3
C201.2	3	2	3	2	2	-	-	-	-	-	-	2	2	3
C201.3	3	2	3	2	2	-	-	-	-	-	-	2	2	3
C201.4	3	2	3	2	2	-	-	-	-	-	-	2	2	3
C201.5	3	2	3	2	2	-	-	-	-	-	-	2	2	3
C202/ME8391-ENGINEERING THERMODYNAMICS														
C202.1	3	3	2	2	-	-	-	-	-	-	-	-	3	2
C202.2	3	3	2	2	-	-	-	-	-	-	-	-	3	2
C202.3	3	3	2	2	-	-	-	-	-	-	-	-	3	2
C202.4	3	3	2	2	-	-	-	-	-	-	-	-	3	2
C202.5	3	3	2	2	-	-	-	-	-	-	-	-	3	2
C202.6	3	3	2	2	-	-	-	-	-	-	-	-	3	2
C203/CE8394-FLUID MECHANICS AND MACHINERY														
C203.1	3	3	2	2	-	-	-	-	-	-	-	-	3	2
C203.2	3	3	2	2	-	-	-	-	-	-	-	-	3	2
C203.3	3	3	2	2	-	-	-	-	-	-	-	-	3	2
C203.4	3	3	2	2	-	-	-	-	-	-	-	-	3	2
C203.5	3	3	2	2	-	-	-	-	-	-	-	-	3	2
C203.6	3	3	2	2	-	-	-	-	-	-	-	-	3	2
C204/ME8351-MANUFACTURING TECHNOLOGY - I														
C204.1	3	3	2	2	-	-	-	-	-	-	-	-	3	2
C204.2	3	3	2	2	-	-	-	-	-	-	-	-	3	2

C204.3	3	3	2	2	-	-	-	-	-	-	-	-	3	2
C204.4	3	3	2	2	-	-	-	-	-	-	-	-	3	2
C204.5	3	3	2	2	-	-	-	-	-	-	-	-	3	2
C204.6	3	3	2	2	-	-	-	-	-	-	-	-	3	2
C205/EE8353-ELECTRICAL DRIVES AND CONTROLS														
C205.1	3	2	-	-	-	-	-	-	-	-	-	-	3	3
C205.2	3	2	-	-	-	-	-	-	-	-	-	-	3	3
C205.3	3	2	-	-	-	-	-	-	-	-	-	-	3	3
C205.4	3	2	-	-	-	-	-	-	-	-	-	-	3	3
C205.5	3	2	-	-	-	-	-	-	-	-	-	-	3	3
C205.6	3	2	-	-	-	-	-	-	-	-	-	-	3	3
C206/ME8361-MANUFACTURING TECHNOLOGY LABORATORY - I														
C206.1	3	2	2	-	-	-	-	-	-	-	-	-	3	-
C206.2	3	2	2	-	-	-	-	-	-	-	-	-	3	-
C206.3	3	2	2	-	-	-	-	-	-	-	-	-	3	-
C206.4	3	2	2	-	-	-	-	-	-	-	-	-	3	-
C206.5	3	2	2	-	-	-	-	-	-	-	-	-	3	-
C207/ME8381-COMPUTER AIDED MACHINE DRAWING														
C207.1	3	-	2	-	-	-	-	-	-	-	-	-	3	2
C207.2	3	-	2	-	-	-	-	-	-	-	-	-	3	2
C207.3	3	-	2	-	-	-	-	-	-	-	-	-	3	2
C207.4	3	-	2	-	-	-	-	-	-	-	-	-	3	2
C207.5	3	-	2	-	-	-	-	-	-	-	-	-	3	2
C207.6	3	-	2	-	-	-	-	-	-	-	-	-	3	2
C208/EE8361-ELECTRICAL ENGINEERING LABORATORY														

CO														
C208.1	3	2	-	2	-	-	-	-	-	-	-	-	3	2
C208.2	3	2	-	2	-	-	-	-	-	-	-	-	3	2
C208.3	3	2	-	2	-	-	-	-	-	-	-	-	3	2
C208.4	3	2	-	2	-	-	-	-	-	-	-	-	3	2
C208.5	3	2	-	2	-	-	-	-	-	-	-	-	3	2
C208.6	3	2	-	2	-	-	-	-	-	-	-	-	3	2

C209/HS8381-INTERPERSONAL SKILLS / LISTENING & SPEAKING

CO														
C209.1	3	2	3	-	-	-	-	-	-	-	-	-	3	2
C209.2	3	2	3	-	-	-	-	-	-	-	-	-	3	2
C209.3	3	2	3	-	-	-	-	-	-	-	-	-	3	2
C209.4	3	2	2	-	-	-	-	-	-	-	-	-	3	2
C209.5	3	2	2	-	-	-	-	-	-	-	-	-	3	-

C210/MA8452-STATISTICS AND NUMERICAL METHODS

CO														
C210.1	3	2	3	2	2	-	-	-	-	-	-	2	2	3
C210.2	3	2	3	2	2	-	-	-	-	-	-	2	2	3
C210.3	3	2	3	2	2	-	-	-	-	-	-	2	2	3
C210.4	3	2	3	2	2	-	-	-	-	-	-	2	2	3
C210.5	3	2	3	2	2	-	-	-	-	-	-	2	2	3
C210.6	3	2	3	2	2	-	-	-	-	-	-	2	2	3

C211/ME8492-KINEMATICS OF MACHINERY

CO														
C211.1	3	3	2	-	-	-	-	-	-	-	-	-	3	2
C211.2	3	3	2	-	-	-	-	-	-	-	-	-	3	2
C211.3	3	3	2	-	-	-	-	-	-	-	-	-	3	2
C211.4	3	3	2	-	-	-	-	-	-	-	-	-	3	2
C211.5	3	3	2	-	-	-	-	-	-	-	-	-	3	2

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C211.6	3	3	2	-	-	-	-	-	-	-	-	-	3	2
C212/ME8451-MANUFACTURING TECHNOLOGY– II														
C212.1	3	2	-	-	-	-	-	-	-	-	-	-	3	3
C212.2	3	2	-	-	-	-	-	-	-	-	-	-	3	3
C212.3	3	2	-	-	-	-	-	-	-	-	-	-	3	3
C212.4	3	2	-	-	-	-	-	-	-	-	-	-	3	3
C212.5	3	2	-	-	-	-	-	-	-	-	-	-	3	3
C212.6	3	2	-	-	-	-	-	-	-	-	-	-	3	3
C213/ME8491-ENGINEERING METALLURGY														
C213.1	3	-	-	-	-	-	-	-	-	-	-	-	3	2
C213.2	3	-	-	-	-	-	-	-	-	-	-	-	3	2
C213.3	3	-	-	-	-	-	-	-	-	-	-	-	3	2
C213.4	3	-	-	-	-	-	-	-	-	-	-	-	3	2
C213.5	3	-	-	-	-	-	-	-	-	-	-	-	3	2
C213.6	3	-	-	-	-	-	-	-	-	-	-	-	3	2
C214/ME8395-STRENGTH OF MATERIALS FOR MECHANICAL ENGINEERS														
C214.1	2	3	-	-	-	-	-	-	-	-	-	-	2	-
C214.2	2	3	-	-	-	-	-	-	-	-	-	-	2	-
C214.3	2	3	-	-	-	-	-	-	-	-	-	-	2	-
C214.4	2	3	-	-	-	-	-	-	-	-	-	-	2	-
C214.5	2	3	-	-	-	-	-	-	-	-	-	-	2	-
C214.6	2	3	-	-	-	-	-	-	-	-	-	-	2	-
C215/ME8493-THERMAL ENGINEERING-I														
C215.1	3	3	2	-	-	-	2	-	-	-	-	-	3	2
C215.2	3	3	2	-	-	-	2	-	-	-	-	-	3	2

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C215.3	3	3	2	-	-	-	2	-	-	-	-	-	3	2
C215.4	3	3	2	-	-	-	2	-	-	-	-	-	3	2
C215.5	3	3	2	-	-	-	2	-	-	-	-	-	3	2
C215.6	3	3	2	-	-	-	2	-	-	-	-	-	3	2
C216/ME8462-MANUFACTURING TECHNOLOGY LABORATORY–II														
C216.1	3	-	2	-	-	-	-	-	-	-	-	-	3	2
C216.2	3	-	2	-	-	-	-	-	-	-	-	-	3	2
C216.3	3	-	2	-	-	-	-	-	-	-	-	-	3	2
C216.4	3	-	2	-	-	-	-	-	-	-	-	-	3	2
C216.5	3	-	2	-	-	-	-	-	-	-	-	-	3	2
C216.6	3	-	2	-	-	-	-	-	-	-	-	-	3	2
C217/CE8381-STRENGTH OF MATERIALS & FLUID MECHANICS AND MACHINERY LABORATORY														
C217.1	3	2	-	2	-	-	2	-	-	-	-	-	3	2
C217.2	3	2	-	2	-	-	2	-	-	-	-	-	3	2
C217.3	3	2	-	2	-	-	2	-	-	-	-	-	3	2
C217.4	3	2	-	2	-	-	2	-	-	-	-	-	3	2
C217.5	3	2	-	2	-	-	2	-	-	-	-	-	3	2
C217.6	3	2	-	2	-	-	2	-	-	-	-	-	3	2
C218/HS8461-ADVANCED READING AND WRITING														
C218.1	3	3	2	2	-	-	-	-	-	-	-	-	3	2
C218.2	3	3	2	2	-	-	-	-	-	-	-	-	3	2
C218.3	3	3	2	2	-	-	-	-	-	-	-	-	3	2
C218.4	3	3	2	2	-	-	-	-	-	-	-	-	3	2
C218.5	3	3	2	2	-	-	-	-	-	-	-	-	3	2

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C218.6	3	3	2	2	-	-	-	-	-	-	-	-	3	2
C301/ME8595-THERMAL ENGINEERING-II														
C301.1	3	3	2	-	-	-	-	-	-	-	-	-	3	2
C301.2	3	3	2	-	-	-	-	-	-	-	-	-	3	2
C301.3	3	3	2	-	-	-	-	-	-	-	-	-	3	2
C301.4	3	3	2	-	-	-	-	-	-	-	-	-	3	2
C301.5	3	3	2	-	-	-	-	-	-	-	-	-	3	2
C301.6	3	3	2	-	-	-	-	-	-	-	-	-	3	2
C302/ME8593-DESIGN OF MACHINE ELEMENTS														
C302.1	3	3	2	2	-	-	2	-	-	-	-	-	3	2
C302.2	3	3	2	2	-	-	2	-	-	-	-	-	3	2
C302.3	3	3	2	2	-	-	2	-	-	-	-	-	3	2
C302.4	3	3	2	2	-	-	2	-	-	-	-	-	3	2
C302.5	3	3	2	2	-	-	2	-	-	-	-	-	3	2
C302.6	3	3	2	2	-	-	2	-	-	-	-	-	3	2
C303/ME8501-METROLOGY AND MEASUREMENTS														
C303.1	3	3	3	2	-	-	-	-	-	-	-	-	3	2
C303.2	3	3	3	2	-	-	-	-	-	-	-	-	3	2
C303.3	3	3	3	2	-	-	-	-	-	-	-	-	3	2
C303.4	3	3	3	2	-	-	-	-	-	-	-	-	3	2
C303.5	3	3	3	2	-	-	-	-	-	-	-	-	3	2
C303.6	3	3	3	2	-	-	-	-	-	-	-	-	3	2
C304/ME8594-DYNAMICS OF MACHINES														
C304.1	3	2	-	-	-	-	-	-	-	-	-	-	3	2
C304.2	3	2	-	-	-	-	-	-	-	-	-	-	3	2

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C304.3	3	2	-	-	-	-	-	-	-	-	-	-	3	2
C304.4	3	2	-	-	-	-	-	-	-	-	-	-	3	2
C304.5	3	2	-	-	-	-	-	-	-	-	-	-	3	2
C304.6	3	2	-	-	-	-	-	-	-	-	-	-	3	2
C305/OIM552-LEAN MANUFACTURING (Open Elective-1)														
C305.1	3	2	-	-	-	-	-	-	-	-	-	-	2	3
C305.2	3	2	-	-	-	-	-	-	-	-	-	-	2	3
C305.3	3	2	-	-	-	-	-	-	-	-	-	-	2	3
C305.4	3	2	-	-	-	-	-	-	-	-	-	-	2	3
C305.5	3	2	-	-	-	-	-	-	-	-	-	-	2	3
C305.6	3	2	-	-	-	-	-	-	-	-	-	-	2	3
C306/ME8511-KINEMATICS AND DYNAMICS LABORATORY														
C306.1	3	3	2	2	-	-	-	-	-	-	-	-	3	2
C306.2	3	3	2	2	-	-	-	-	-	-	-	-	3	2
C306.3	3	3	2	2	-	-	-	-	-	-	-	-	3	2
C306.4	3	3	2	2	-	-	-	-	-	-	-	-	3	2
C306.5	3	3	2	2	-	-	-	-	-	-	-	-	3	2
C306.6	3	3	2	2	-	-	-	-	-	-	-	-	3	2
C307/ME8512-THERMAL ENGINEERING LABORATORY														
C307.1	2	-	-	-	-	-	3	3	-	-	-	-	2	2
C307.2	2	-	-	-	-	-	3	3	-	-	-	-	2	2
C307.3	2	-	-	-	-	-	3	3	-	-	-	-	2	2
C307.4	2	-	-	-	-	-	3	3	-	-	-	-	2	2
C307.5	2	-	-	-	-	-	3	3	-	-	-	-	2	2

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C307.6	2	-	-	-	-	-	3	3	-	-	-	-	2	2
C308/ME8513-METROLOGY AND MEASUREMENTS LABORATORY														
C310.1	3	3	-	2	2	-	-	-	-	-	-	-	3	2
C310.2	3	3	-	2	2	-	-	-	-	-	-	-	3	2
C310.3	3	3	-	2	2	-	-	-	-	-	-	-	3	2
C310.4	3	3	-	2	2	-	-	-	-	-	-	-	3	2
C310.5	3	3	-	2	2	-	-	-	-	-	-	-	3	2
C310.6	3	3	-	2	2	-	-	-	-	-	-	-	3	2
C311/ME8691-COMPUTER AIDED DESIGN AND MANUFACTURING														
C311.1	3	2	-	2	-	-	2	-	-	-	-	-	3	2
C311.2	3	2	-	2	-	-	2	-	-	-	-	-	3	2
C311.3	3	2	-	2	-	-	2	-	-	-	-	-	3	2
C311.4	3	2	-	2	-	-	2	-	-	-	-	-	3	2
C311.5	3	2	-	2	-	-	2	-	-	-	-	-	3	2
C311.6	3	2	-	2	-	-	2	-	-	-	-	-	3	2
C312/ME8693-HEAT AND MASS TRANSFER														
C312.1	3	3	3	2	-	-	-	-	-	-	-	-	3	2
C312.2	3	3	3	2	-	-	-	-	-	-	-	-	3	2
C312.3	3	3	3	2	-	-	-	-	-	-	-	-	3	2
C312.4	3	3	3	2	-	-	-	-	-	-	-	-	3	2
C312.5	3	3	3	2	-	-	-	-	-	-	-	-	3	2
C312.6	3	3	3	2	-	-	-	-	-	-	-	-	3	2
C313/ME8692-FINITE ELEMENT ANALYSIS														
C313.1	2	-	-	-	2	-	-	3	-	-	3	-	2	2
C313 .2	2	-	-	-	2	-	-	3	-	-	3	-	2	2

C313 .3	2	-	-	-	2	-	-	3	-	-	3	-	2	2
C313 .4	2	-	-	-	2	-	-	3	-	-	3	-	2	2
C313 .5	2	-	-	-	2	-	-	3	-	-	3	-	2	2
C313 .6	2	-	-	-	2	-	-	3	-	-	3	-	2	2
C314/ME8694-HYDRAULICS AND PNEUMATICS														
C314.1	3	-	-	-	-	-	-	-	-	-	-	-	3	2
C314.2	3	-	-	-	-	-	-	-	-	-	-	-	3	2
C314.3	3	-	-	-	-	-	-	-	-	-	-	-	3	2
C314.4	3	-	-	-	-	-	-	-	-	-	-	-	3	2
C314.5	3	-	-	-	-	-	-	-	-	-	-	-	3	2
C314.6	3	-	-	-	-	-	-	-	-	-	-	-	3	2
C315/ME8091-AUTOMOBILE ENGINEERING (Professional Elective-1)														
C315.1	3	3	-	-	-	-	-	-	-	-	-	-	3	2
C315.2	3	3	-	-	-	-	-	-	-	-	-	-	3	2
C315.3	3	3	-	-	-	-	-	-	-	-	-	-	3	2
C315.4	3	3	-	-	-	-	-	-	-	-	-	-	3	2
C315.5	3	3	-	-	-	-	-	-	-	-	-	-	3	2
C315.6	3	3	-	-	-	-	-	-	-	-	-	-	3	2
C316/ME8681-C.A.D. / C.A.M. LABORATORY														
C316.1	3	2	-	-	-	-	-	-	-	-	-	-	3	2
C316.2	3	2	-	-	-	-	-	-	-	-	-	-	3	2
C316.3	3	2	-	-	-	-	-	-	-	-	-	-	3	2
C316.4	3	2	-	-	-	-	-	-	-	-	-	-	3	2
C316.5	3	2	-	-	-	-	-	-	-	-	-	-	3	2

C316.6	3	2	-	-	-	-	-	-	-	-	-	-	3	2
C317/ME8682-DESIGN AND FABRICATION PROJECT														
C317.1	3	3	2	2	2	-	-	-	-	-	-	-	3	2
C317.2	3	3	2	2	2	-	-	-	-	-	-	-	3	2
C317.3	3	3	2	2	2	-	-	-	-	-	-	-	3	2
C317.4	3	3	2	2	2	-	-	-	-	-	-	-	3	2
C317.5	3	3	2	2	2	-	-	-	-	-	-	-	3	2
C317.6	3	3	2	2	2	-	-	-	-	-	-	-	3	2
C318/HS8581-PROFESSIONAL COMMUNICATION														
C318.1	3	3	3	-	3	-	-	-	-	-	-	-	3	3
C318.2	3	3	3	-	3	-	-	-	-	-	-	-	3	3
C318.3	3	3	3	-	3	-	-	-	-	-	-	-	3	3
C317.4	3	3	3	-	3	-	-	-	-	-	-	-	3	3
C318.5	3	3	3	-	3	-	-	-	-	-	-	-	3	3
C318.6	3	3	3	-	3	-	-	-	-	-	-	-	3	3
C401/ME8792-POWER PLANT ENGINEERING														
C401.1	3	2	-	-	-	-	2	-	-	-	-	-	3	2
C401.2	3	2	-	-	-	-	2	-	-	-	-	-	3	2
C401.3	3	2	-	-	-	-	2	-	-	-	-	-	3	2
C401.4	3	2	-	-	-	-	2	-	-	-	-	-	3	2
C401.5	3	2	-	-	-	-	2	-	-	-	-	-	3	2
C401.6	3	2	-	-	-	-	2	-	-	-	-	-	3	2
C402/ME8793-PROCESS PLANNING AND COST ESTIMATION														
C402.1	3	-	-	-	2	3	2	-	-	-	-	-	3	2
C402.2	3	-	-	-	2	3	2	-	-	-	-	-	3	2

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C402.3	3	-	-	-	2	3	2	-	-	-	-	-	3	2
C402.4	3	-	-	-	2	3	2	-	-	-	-	-	3	2
C402.5	3	-	-	-	2	3	2	-	-	-	-	-	3	2
C402.6	3	-	-	-	2	3	2	-	-	-	-	-	3	2
C403/ME8791-MECHATRONICS														
C403.1	3	2	-	2	-	-	-	-	-	-	-	-	3	2
C403.2	3	2	-	2	-	-	-	-	-	-	-	-	3	2
C403.3	3	2	-	2	-	-	-	-	-	-	-	-	3	2
C403.4	3	2	-	2	-	-	-	-	-	-	-	-	3	2
C403.5	3	2	-	2	-	-	-	-	-	-	-	-	3	2
C403.6	3	2	-	2	-	-	-	-	-	-	-	-	3	2
C404/OIE751 ROBOTICS (Open Elective-2)														
C404.1	3	2	2	2	-	-	-	-	-	-	-	-	3	2
C404.2	3	2	2	2	-	-	-	-	-	-	-	-	3	2
C404.3	3	2	2	2	-	-	-	-	-	-	-	-	3	2
C404.4	3	2	2	2	-	-	-	-	-	-	-	-	3	2
C404.5	3	2	2	2	-	-	-	-	-	-	-	-	3	2
C404.6	3	2	2	2	-	-	-	-	-	-	-	-	3	2
C405/GE 8077 TOTAL QUALITY MANAGEMENT (Professional Elective-2)														
C405.1	3	3	2	-	2	-	-	-	-	-	2	-	3	3
C405.2	3	3	2	-	2	-	-	-	-	-	2	-	3	3
C405.3	3	3	2	-	2	-	-	-	-	-	2	-	3	3
C405.4	3	3	2	-	2	-	-	-	-	-	2	-	3	3
C405.5	3	3	2	-	2	-	-	-	-	-	2	-	3	3
C405.6	3	3	2	-	2	-	-	-	-	-	2	-	3	3

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	C406/ME8097 NON DESTRUCTIVE TESTING AND EVALUATION													
	(Professional Elective-3)													
C406.1	3	2	-	2	-	-	2	-	-	-	-	-	3	2
C406.2	3	2	-	2	-	-	2	-	-	-	-	-	3	2
C406.3	3	2	-	2	-	-	2	-	-	-	-	-	3	2
C406.4	3	2	-	2	-	-	2	-	-	-	-	-	3	2
C406.5	3	2	-	2	-	-	2	-	-	-	-	-	3	2
C406.6	3	2	-	2	-	-	2	-	-	-	-	-	3	2
	C407/ME8711-SIMULATION AND ANALYSIS LABORATORY													
C407.1	2	-	-	-	3	3	3	3	-	3	3	-	2	3
C407.2	2	-	-	-	3	3	3	3	-	3	3	-	2	3
C407.3	2	-	-	-	3	3	3	3	-	3	3	-	2	3
C407.4	2	-	-	-	3	3	3	3	-	3	3	-	2	3
C407.5	2	-	-	-	3	3	3	3	-	3	3	-	2	3
C407.6	2	-	-	-	3	3	3	3	-	3	3	-	2	3
	C408/ME8781-MECHATRONICS LABORATORY													
C408.1	3	3	2	-	-	2	-	-	-	-	-	-	3	2
C408.2	3	3	2	-	-	2	-	-	-	-	-	-	3	2
C408.3	3	3	2	-	-	2	-	-	-	-	-	-	3	2
C408.4	3	3	2	-	-	2	-	-	-	-	-	-	3	2
C408.5	3	3	2	-	-	2	-	-	-	-	-	-	3	2
C408.6	3	3	2	-	-	2	-	-	-	-	-	-	3	2
	C409/ME8712-TECHNICAL SEMINAR													
C409.1	3	3	2	2	3	-	-	-	-	-	-	-	3	2
C409.2	3	3	2	2	3	-	-	-	-	-	-	-	3	2

C409.3	3	3	2	2	3	-	-	-	-	-	-	-	3	2
C409.4	3	3	2	2	3	-	-	-	-	-	-	-	3	2
C409.5	3	3	2	2	3	-	-	-	-	-	-	-	3	2
C409.6	3	3	2	2	3	-	-	-	-	-	-	-	3	2
C410/ME8591-PRINCIPLES OF MANAGEMENT														
C410.1	3	2	-	-	-	-	-	-	-	-	2	-	3	2
C410.2	3	2	-	-	-	-	-	-	-	-	2	-	3	2
C410.3	3	2	-	-	-	-	-	-	-	-	2	-	3	2
C410.4	3	2	-	-	-	-	-	-	-	-	2	-	3	2
C410.5	3	2	-	-	-	-	-	-	-	-	2	-	3	2
C410.6	3	2	-	-	-	-	-	-	-	-	2	-	3	2
C411/IE8693-PRODUCTION PLANNING AND CONTROL (Professional Elective– IV)														
C411.1	3	3	2	-	2	-	-	-	-	-	2	-	3	3
C411.2	3	3	2	-	2	-	-	-	-	-	2	-	3	3
C411.3	3	3	2	-	2	-	-	-	-	-	2	-	3	3
C411.4	3	3	2	-	2	-	-	-	-	-	2	-	3	3
C411.5	3	3	2	-	2	-	-	-	-	-	2	-	3	3
C411.6	3	3	2	-	2	-	-	-	-	-	2	-	3	3
C412/ME8811-PROJECT WORK														
C412.1	3	2	2	2	2	-	-	-	-	-	-	-	3	-
C412.2	3	2	2	2	2	-	-	-	-	-	-	-	3	-
C412.3	3	2	2	2	2	-	-	-	-	-	-	-	3	-
C412.4	3	2	2	2	2	-	-	-	-	-	-	-	3	-
C412.5	3	2	2	2	2	-	-	-	-	-	-	-	3	-
C412.6	3	2	2	2	2	-	-	-	-	-	-	-	3	-

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Regulation – 2017 - PG

M.E. – MANUFACTURING ENGINEERING

YEAR/SEMESTER : I/I
S.No	**Course Outcome**
C101/ MA5160-APPLIED PROBABILITY AND STATISTICS
C101.1	Apply the concept to find moments and moment generating functions of distributions using the definition of a random variable.
C101.2	Find marginal, conditional distribution, statistical average for the standard probability function.
C101.3	For the standard probability function, find the marginal, conditional distribution, statistical average.
C101.4	Find the M.L.E. and fit curves and regression lines using the least squares principle.
C101.5	Small and large samples should be identified, and hypothesis testing should be used.
C101.6	The students should have the ability to use the appropriate and relevant, fundamental and applied mathematical and statistical knowledge, methodologies and modern computational tools.
C102/MF5101-ADVANCES IN MANUFACTURING TECHNOLOGY
C102.1	To generate useful test results in the machining of a variety of materials.
C102.2	Create hybrid machining techniques using this experience.
C102.3	Use of this experience to solve problems on the shop floor.
C102.4	To gain a better understanding of special machining methods, unconventional machining processes, and micromachining.
C102.5	To gain a better understanding of nano fabrication and rapid prototyping.
C103/MF5102 - COMPUTER INTEGRATED MANUFACTURING SYSTEMS
C103.1	To achieve useful research results in the field of computer-assisted manufacturing.

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C103.2	Make use of your skills to create programming techniques.
C103.3	Use of this expertise to make computer-aided planning more practical
C103.4	For a typical production system, design automated material handling and storage systems.
C103.5	Create a cellular manufacturing device and a manufacturing cell.
C104/MF5103-ADVANCES IN CASTING & WELDING	
C104.1	Understanding of casting style
C104.2	Understanding of casting metallurgy
C104.3	Understanding of current casting and foundry layout patterns
C104.4	Understanding of welding metallurgy and architecture
C104.5	Understanding of welding most current patterns
C105/ MF5104-METAL CUTTING THEORY AND PRACTICE	
C105.1	Ability to comprehend how material removal processes function.
C105.2	Understanding of the tool nomenclature scheme
C105.3	Understanding of machining thermal dimensions
C105.4	Awareness of tool materials, tool life, and tool wear
C105.5	Understanding of machining wear mechanisms and chatter
C106/ MF5003-MICRO MANUFACTURING (Professional Elective-I)	
C106.1	The aim is to familiarize students with the concepts, basic machine tools, and innovations in the micro manufacturing process, as well as research trends in the field.
C106.2	To disseminate information on micromachining using beam energy.
C106.3	to gain knowledge of the nano polishing process used on micro machined components
C106.4	To gain a better understanding of the micro forming and welding processes
C106.5	To gain a better understanding of the metrology and calculation methods used on

	micro machined surfaces. to learn about the most current developments in the sector
C107/ MF5111-CAD/CAM LAB	
C107.1	In sketcher mode, create complex geometries of system components.
C107.2	Ability to use modeling software to build 2D and 3D part models.
C107.3	Create complex engineering assemblies using acceptable assembly constraints.
C107.4	Ability to Understand the CNC Control in Modern Manufacturing System.
C107.5	Ability to Prepare CNC Part Programming and Produce
C110/MF5201- OPTIMIZATION TECHNIQUES IN MANUFACTURING	
C110.1	The student has a basic understanding of the history of optimization problems, their formulation, classification, and solutions. application in a variety of engineering fields
C110.2	Ability to approach and solve linear equations in organizational research problems that apply to real-world engineering problems.
C110.3	Ability to approach and solve non-linear equations of operational research problems that are relevant to real-world engineering business problems.
C110.4	Ability to solve various experimental experiments using various optimization methods in order to achieve the best objective function value.
C110.5	The student understands various simulation methods and how to apply them to various experimental experiments in order to achieve the best objective function value.
C111/CM5251- ADVANCES IN METROLOGY AND INSPECTION	
C111.1	Ability to comprehend metrology principles and measurement errors
C111.2	Understanding of the applications of surface roughness calculation
C111.3	Ability to comprehend the fundamentals of interferometer and its significance.
C111.4	Understanding of measurement devices and laser metrology
C111.5	Image processing capability for metrology

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C112/ MF5202-THEORY OF METAL FORMING	
C112.1	Enable students to be exposed to the concepts of plasticity and the representation of stress states in various coordinate systems
C112.2	Understanding of the different bulk forming processes that are used
C112.3	Ability to teach students about the various sheet metal forming processes that are used
C112.4	Awareness of powder metallurgy techniques and special forming processes is transferable.
C112.5	Understanding of surface treatment for different processes
C113/MF5203-TOOLING FOR MANUFACTURING	
C113.1	To achieve practical research results in the form of tool design for various manufacturing processes.
C113.2	Ability to demonstrate how metal removal procedures are carried out using tooling
C113.3	Ability to demonstrate how metal forming processes use tooling
C113.4	To gain a better understanding of the tooling used in metal casting and joining processes
C113.5	To be able to state the state of the art in manufacturing and inspection tooling
C114/ME5009-NON DESTRUCTIVE TESTING & EVALUATION (NDT) **(Professional Elective-II)**	
C114.1	Be able to List and define different defects that occur in welding shown through Non-Destructive Examination/Destructive Testing.
C114.2	Be able to identify the types of equipment used for each Non-Destructive and Destructive Examination
C114.3	Be able to explain the purpose of the Equipment, Application, and standard techniques required to perform major non-destructive and destructive examinations of weld

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C114.4	Be able to go to specific Code, Standard, or Specification related to each testing method
C114.5	Have the knowledge and essential skills to identify strengths and weaknesses in materials used in fabrication
C115/MF5071-LEAN MANUFACTURING (Professional Elective-III)	
C115.1	The student must have a clear understanding of manufacturing production, classification, and lean manufacturing techniques
C115.2	Understanding of the fundamental concepts of job requirements, 5S, and layouts in production and productive maintenance
C115.3	Ability to comprehend the JIT and Kanab implementation approaches with a pull method
C115.4	Understanding of the Autonomy and Poke Yoke Processes in Lean Implementation
C115.5	The student is familiar with a variety of quality principles as well as a structured planning approach
C116/MF5211-AUTOMATION AND METAL FORMING LABORATORY	
C116.1	Ability to design and implement pneumatic circuits using trainer kits
C116.2	Understanding of metal forming techniques and the evaluation of associated parameters
C116.3	Ability to use hydro-pneumatic software to plan and conduct pneumo-hydraulic circuits
C116.4	Ability to assess and understand material strain hardening
C116.5	Understanding of sheet metal formability and shaping techniques
C117/MF5212-TECHNICAL SEMINAR	
C117.1	Develop reading, writing, comprehension, and presentation skills for research papers
C117.2	To assess the breadth of knowledge and coverage of recent areas of manufacturing engineering research

C117.3	To assess the consistency of presentation content (PPT/OHP) on recent manufacturing engineering research topics
C117.4	To improve the student's communication skills by presenting topics on recent engineering/technology advances
C117.5	To establish an analysis of current research problems and developments
YEAR/SEMESTER : II/III	
C201/MF5014-MANUFACTURING MANAGEMENT (Professional Elective-IV)	
C201.1	The student must have a basic understanding of manufacturing plant layout, classification, and material handling techniques.
C201.2	Understanding of the fundamental concepts of motion economy, as well as the tools and methods used in work studies and measurements
C201.3	Understanding of process planning and forecasting models is a must
C201.4	Understanding of project management and scheduling methods
C201.5	Personnel management and marketing methods have been studied and understood by the student.
C202/MF5072-RESEARCH METHODOLOGY (Professional Elective-V)	
C202.1	Understand some basic concepts of research and its methodologies
C202.2	Identify appropriate research topics
C202.3	Select and define appropriate research problem and parameters
C202.4	Prepare a project proposal, write a research report and thesis, write a research proposal (grants)
C202.5	organize and conduct research (advanced project) in a more appropriate manner
C203/MF5016-MATERIAL TESTING & CHARACTERIZATION TECHNIQUES (Professional Elective-VI)	

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C203.1	To determine the grain size and classify the crystal structure.
C203.2	Students will be able to learn about electron microscopic characterization techniques.
C203.3	Chemical and thermal analysis approaches include the ability to comprehend their working concepts and instrumentation. The characterization analysis must be deciphered
C203.4	The aim of this course is to learn how to perform mechanical testing under static loading and to recognise the various testing codes for metallic and composite materials
C203.5	Mechanical research under complex loading conditions: ability to comprehend
C204/MF5311-PROJECT PHASE - I	
C204.1	Choose a subject in Manufacturing Engineering's advanced areas. Determine how to conduct tests and what materials to use
C204.2	Review the literature to find differences and describe the work's goals and scoop
C204.3	Create and incorporate new social-benefit concepts
C204.4	Analyze and explain the findings in order to draw sound conclusions
C204.5	Restructure procedures with a focus on culture, the community, and ethics
YEAR/SEMESTER : II/IV	
C210/MF5411-PROJECT PHASE - II	
C210.1	Determine a subject in advanced Manufacturing Engineering. Determine experimental methods and materials
C210.2	Review the literature to find differences and describe the work's goals and scope
C210.3	Restructure procedures with a focus on culture, the community, and ethics
C210.4	Create and incorporate new social-benefit concepts
C210.5	Analyze and explain the findings in order to draw sound conclusions

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Course Outcome	Programme Outcomes I & II YEAR PG SUBJECTS												PSOs	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2
C101/ MA5160-APPLIED PROBABILITY AND STATISTICS														
C101.1	3	2	-	-	-	-	-	-	-	-	-	-	2	2
C101.2	3	2	-	-	-	-	-	-	-	-	-	-	2	2
C101.3	3	2	-	-	-	-	-	-	-	-	-	-	2	2
C101.4	3	2	-	-	-	-	-	-	-	-	-	-	2	2
C101.5	3	2	-	-	-	-	-	-	-	-	-	-	2	2
C101.6	3	2	-	-	-	-	-	-	-	-	-	-	2	2
C102/MF5101-ADVANCES IN MANUFACTURING TECHNOLOGY														
C102.1	2	2	-	-	-	-	-	-	-	-	-	-	3	2
C102.2	3	2	-	-	-	-	-	-	-	-	-	-	3	2
C102.3	3	2	-	-	-	-	-	-	-	-	-	-	3	2
C102.4	3	3	-	-	-	-	-	-	-	-	-	-	3	2
C102.5	2	3	-	-	-	-	-	-	-	-	-	-	2	2
C103/MF5102 - COMPUTER INTEGRATED MANUFACTURING SYSTEMS														
C103.1	3	2	2	-	-	-	-	-	-	-	-	-	3	3
C103.2	2	3	2	-	-	-	-	-	-	-	-	-	3	3
C103.3	2	2	2	-	-	-	-	-	-	-	-	-	2	2
C103.4	3	2	2	-	-	-	-	-	-	-	-	-	2	2
C103.5	2	2	2	-	-	-	-	-	-	-	-	-	2	2
C104/MF5103-ADVANCES IN CASTING & WELDING														
C104.1	2	2	-	-	-	-	-	-	-	-	-	-	2	2
C104.2	2	2	-	-	-	-	-	-	-	-	-	-	2	2
C104.3	2	2	-	-	-	-	-	-	-	-	-	-	2	2

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C104.4	2	2	-	-	-	-	-	-	-	-	-	-	2	2
C104.5	2	2	-	-	-	-	-	-	-	-	-	-	2	2
C105/ MF5104-METAL CUTTING THEORY AND PRACTICE														
C105.1	3	2	-	-	-	-	-	-	-	-	-	-	3	2
C105.2	2	2	-	-	-	-	-	-	-	-	-	-	2	2
C105.3	3	2	-	-	-	-	-	-	-	-	-	-	3	2
C105.4	3	2	-	-	-	-	-	-	-	-	-	-	3	2
C105.5	3	2	-	-	-	-	-	-	-	-	-	-	3	2
C106/ MF5003-MICRO MANUFACTURING (Professional Elective-I)														
C106.1	3	3	2	-	-	-	-	-	-	-	-	-	2	2
C106.2	2	2	-	-	-	-	-	-	-	-	-	-	2	2
C106.3	2	2	-	-	-	-	-	-	-	-	-	-	2	2
C106.4	3	2	-	-	-	-	-	-	-	-	-	-	3	2
C106.5	3	3	-	-	-	-	-	-	-	-	-	-	3	3
C107/ MF5111-CAD/CAM LAB														
C107.1	3	3	3	-	3	-	-	-	-	-	-	-	3	3
C107.2	3	3	3	-	3	-	-	-	-	-	-	-	3	3
C107.3	3	3	3	-	3	-	-	-	-	-	-	-	3	3
C107.4	3	3	3	-	3	-	-	-	-	-	-	-	3	3
C107.5	3	3	3	-	3	-	-	-	-	-	-	-	3	3
C110/MF5201- OPTIMIZATION TECHNIQUES IN MANUFACTURING														
C110.1	3	3	3	-	-	-	-	-	-	-	-	-	2	3
C110.2	3	3	3	-	-	-	-	-	-	-	-	-	2	3
C110.3	3	3	3	-	-	-	-	-	-	-	-	-	2	3
C110.4	3	3	3	-	-	-	-	-	-	-	-	-	2	3
C110.5	3	3	3	-	-	-	-	-	-	-	-	-	2	3

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C111/CM5251- ADVANCES IN METROLOGY AND INSPECTION													
C111.1	2	2	-	-	-	-	-	-	-	-	-	-	2	2
C111.2	2	2	-	-	-	-	-	-	-	-	-	-	2	2
C111.3	2	2	-	-	-	-	-	-	-	-	-	-	2	2
C111.4	2	2	-	-	-	-	-	-	-	-	-	-	2	2
C111.5	2	2	-	-	-	-	-	-	-	-	-	-	2	2
C112/ MF5202-THEORY OF METAL FORMING													
C112.1	3	2	-	-	-	-	-	-	-	-	-	-	3	2
C112.2	3	2	-	-	-	-	-	-	-	-	-	-	3	2
C112.3	3	2	-	-	-	-	-	-	-	-	-	-	3	2
C112.4	3	2	-	-	-	-	-	-	-	-	-	-	3	2
C112.5	3	2	-	-	-	-	-	-	-	-	-	-	3	2
C113/MF5203-TOOLING FOR MANUFACTURING													
C113.1	2	2	3	-	-	-	-	-	-	-	-	-	3	2
C113.2	2	2	3	-	-	-	-	-	-	-	-	-	3	2
C113.3	2	2	3	-	-	-	-	-	-	-	-	-	3	2
C113.4	2	2	3	-	-	-	-	-	-	-	-	-	3	2
C113.5	2	2	3	-	-	-	-	-	-	-	-	-	3	2
C114/ME5009-NON DESTRUCTIVE TESTING & EVALUATION (NDT) (Professional Elective-II)													
C114.1	2	2	-	-	-	-	-	-	-	-	-	-	2	2
C114.2	2	2	-	-	-	-	-	-	-	-	-	-	2	2
C114.3	2	2	-	-	-	-	-	-	-	-	-	-	2	2
C114.4	2	2	-	-	-	-	-	-	-	-	-	-	2	2
C114.5	2	2	-	-	-	-	-	-	-	-	-	-	2	2
C115/MF5071-LEAN MANUFACTURING (Professional Elective-III)													

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C115.1	3	2	-	-	-	-	-	-	-	-	-	-	3	2
C115.2	3	2	-	-	-	-	-	-	-	-	-	-	3	2
C115.3	3	2	-	-	-	-	-	-	-	-	-	-	3	2
C115.4	3	2	-	-	-	-	-	-	-	-	-	-	3	2
C115.5	3	2	-	-	-	-	-	-	-	-	-	-	3	2
C116/MF5211-AUTOMATION AND METAL FORMING LABORATORY														
C116.1	3	3	3	-	-	-	-	-	-	-	-	-	3	3
C116.2	3	3	3	-	-	-	-	-	-	-	-	-	3	3
C116.3	3	3	3	-	-	-	-	-	-	-	-	-	3	3
C116.4	3	3	3	-	-	-	-	-	-	-	-	-	3	3
C116.5	3	3	3	-	-	-	-	-	-	-	-	-	3	3
C117/MF5212-TECHNICAL SEMINAR														
C117.1	3	3	2	2	3	-	-	-	-	-	-	-	3	2
C117.2	3	3	2	2	3	-	-	-	-	-	-	-	3	2
C117.3	3	3	2	2	3	-	-	-	-	-	-	-	3	2
C117.4	3	3	2	2	3	-	-	-	-	-	-	-	3	2
C117.5	3	3	2	2	3	-	-	-	-	-	-	-	3	2
C201/MF5014-MANUFACTURING MANAGEMENT (Professional Elective-IV)														
C201.1	3	3	-	-	-	-	-	-	-	-	-	-	3	2
C201.2	3	3	-	-	-	-	-	-	-	-	-	-	3	2
C201.3	3	3	-	-	-	-	-	-	-	-	-	-	3	2
C201.4	3	3	-	-	-	-	-	-	-	-	-	-	3	2
C201.5	3	3	-	-	-	-	-	-	-	-	-	-	3	2
C202/MF5072-RESEARCH METHODOLOGY (Professional Elective-V)														
C202.1	2	3	2	-	-	-	-	-	-	-	-	-	2	2

C202.2	2	3	2	-	-	-	-	-	-	-	-	-	2	2
C202.3	2	3	2	-	-	-	-	-	-	-	-	-	2	2
C202.4	2	3	2	-	-	-	-	-	-	-	-	-	2	2
C202.5	2	3	2	-	-	-	-	-	-	-	-	-	2	2
C203/MF5016-MATERIAL TESTING & CHARACTERIZATION TECHNIQUES (Professional Elective-VI)														
C203.1	2	2	-	-	-	-	-	-	-	-	-	-	2	2
C203.2	2	2	-	-	-	-	-	-	-	-	-	-	2	2
C203.3	2	2	-	-	-	-	-	-	-	-	-	-	2	2
C203.4	2	2	-	-	-	-	-	-	-	-	-	-	2	2
C203.5	2	2	-	-	-	-	-	-	-	-	-	-	2	2
C204/MF5311-PROJECT PHASE – I														
C204.1	3	3	3	3	3	2	3	2	3	3	3	3	3	3
C204.2	3	3	3	3	3	2	3	2	3	3	3	3	3	3
C204.3	3	3	3	3	3	2	3	2	3	3	3	3	3	3
C204.4	3	3	3	3	3	2	3	2	3	3	3	3	3	3
C204.5	3	3	3	3	3	2	3	2	3	3	3	3	3	3
C210/MF5411-PROJECT PHASE – II														
C210.1	3	3	3	3	3	2	3	2	3	3	3	3	3	3
C210.2	3	3	3	3	3	2	3	2	3	3	3	3	3	3
C210.3	3	3	3	3	3	2	3	2	3	3	3	3	3	3
C210.4	3	3	3	3	3	2	3	2	3	3	3	3	3	3
C210.5	3	3	3	3	3	2	3	2	3	3	3	3	3	3

PRINCIPAL