



Modi Institute of Technology, Kota

An Engg. College Approved by AICTE & Affiliated to RTU

Branches: B.Tech- ME / EE / ECE / CS / AI&DS& M.Tech – DC/ BBA/ BCA

Nayagaon, Rawatbhata Road, Kota – 324010, Raj. M. No- 7665439788,

Website: www.mitkota.com Email: mitkota1@gmail.com

Department of Mechanical Engineering


List of Course Outcomes

II Year – III Semester

3ME2 – 01 : Advance Engineering Mathematics

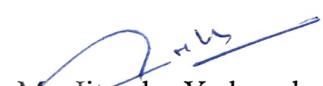
After completion of the course, students would be able to:

- CO1: Understand numerical difference method, interpolation techniques, numerical differentiation and integration.
- CO2: Use numerical methods to solve first and second order differential equations, polynomial and transcendental equations.
- CO3: Know the concept of Laplace Transformation and its application for real world problem.
- CO4: Calculate Fourier Transformation to solve field problems.
- CO5: Apply the Z-transform and its application to differential equation.



Mr. Vijay Varshney
(O/C Exam)


Mr. Pankaj Jain
HOD (First Year)


Mrs. Seema Arya
HOD (CSE)


Mr. Jitendra Yadavendra
HOD (EE)


Mr. Abhishek Chattri
Dy. Registrar


Dr. Barkha Gupta
HOD (ME)


Dr. Vikas Soni
Principal

Cc to:-

Hon'ble Vice-Chairman Sir for kind information.

Hon'ble Group Director Sir for kind information.

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HOD's & I/C's. / First Year Coordinator.

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List of Course Outcomes

II Year – III Semester


3ME1-02/4ME1-02 : Technical Communication

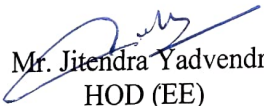
After completion of the course, students would be able to:

- CO1: Develop effective technical communication skills in listening, speaking, reading and writing using different technical tools.
- CO2: Critically read different kinds of technical documents; analyze, organize and summarize them.
- CO3: Write effective academic texts, e.g. Official Notes, Letters, E-mail, Resume, Job Application, and Minutes of Meetings in good English with regards to both language and style.
- CO4: Present relevant scientific content in advance technical writing of reports, project proposals and technical article
- CO5: Give technical and scientific presentations in order to improve the written and oral communication of colleagues through peer response.



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**II Year – III Semester
3ME3 – 04 :Engineering Mechanics**

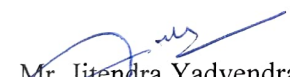
After completion of the course, students would be able to:


- CO1: Solve system of forces and trusses by applying principles of equilibrium condition and virtual work.
- CO2: Determine centroid, moment of inertia and solve problems related to lifting machines.
- CO3: Compute friction of ladder, wedge, and belt; evaluate power transmission by belt drives.
- CO4: Calculate position, velocity and acceleration of particles and rigid bodies using principles of kinematics and kinetics.
- CO5: Use work energy principle, impulse momentum principle, law of energy conservation to solve the problems of linear and angular motion.



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II Year – III Semester

3ME4 – 05 :Engineering Thermodynamics

After completion of the course, students would be able to:


CO1: Describe concept of thermodynamics; Zeroth and First law and its applications.


CO2: Explain second law of thermodynamics, Entropy, Availability and their applications.


CO3: Estimate thermodynamic properties of substances in steam and gas of ideal and real mixture.


CO4: Derive various thermodynamic relations and analyze different power cycle.

CO5: Compute COP of vapour compression cycle with reheat, regeneration, bleeding extraction and cogeneration cycle.

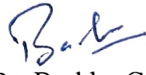

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II Year – III Semester

3ME4 – 06 :Material Science and Engineering

After completion of the course, students would be able to:

CO1: Sketch crystal structure, crystal imperfection and their effect on materials.

CO2: Analyze different phases transformation of materials and draw various types of equilibrium diagram.

CO3: Explain concept of heat treatment and its various processes.

CO4: Describe polymers, their properties and constitution of alloy steels.

CO5: Illustrate testing for mechanical properties of materials, classification of steels. Discuss the concept of ceramics and nanomaterial.

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List of Course Outcomes

II Year – III Semester


3ME4 – 07 :Mechanics of Solids

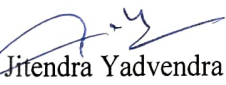
After completion of the course, students would be able to:

- CO1: Define the various types of stresses and strains and derive their relationships to solve problems.
- CO2: Draw SFD, BMD for different support and loading conditions of beam. Evaluate shear stress distribution for various cross sections of beam.
- CO3: Discuss members having combined loading, calculate principal planes, stress and strain. Also discuss the theories of elastic failure.
- CO4: Compute torsional shear stress and power transmission for various shafts. Calculate crippling load of column for different end conditions.
- CO5: Determine deflection of beams using area moment method and direct integration method. Evaluate the stresses in thin walled pressure vessels.



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List of Course Outcomes

II Year – III Semester


3ME4 – 21 :Machine Drawing Practice

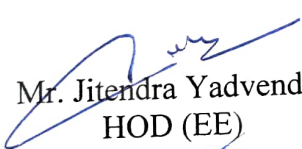
After completion of the course, students would be able to:

- CO1: Interpret the drawings of machine components and develop assembly drawing and bill of materials.
- CO2: Prepare part drawing of machine using the standard conventions regarding fits, tolerances and surface finish.
- CO3: Demonstrate the knowledge of CAD software and its features.
- CO4: Create two dimensional objects, modify and dimension them to form more complex machine parts of engineering importance.
- CO5: Develop three dimensional models on software.



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II Year – III Semester

3ME4 – 22 :Material Testing Lab

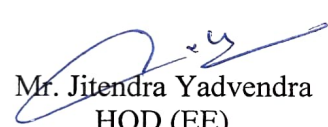
After completion of the course, students would be able to:

- CO1: Explore crystal structures, crystal defects and identification of material.
- CO2: Compare and examine microstructure and conduct hardness and impact test.
- CO3: Operate UTM to perform tensile, compressive and bending test of given material to find elastic constant.
- CO4: Find torsional rigidity and fatigue strength via machines.
- CO5: Understand various heat treatments and their effect on material properties.

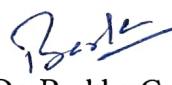

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List of Course Outcomes


II Year – III Semester

3ME4 – 23 :Basic Mechanical Engineering Lab

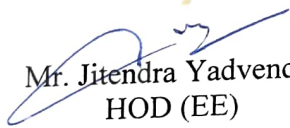
After completion of the course, students would be able to:

- CO1: Explain the application of mechanical engineering systems.
- CO2: Learn about various tools and fixtures using hands on assembly and dis-assembly of machines.
- CO3: Elaborate the mechanical construction of machines.
- CO4: Understand the complex mechanical systems via cut section, animation and industrial visit.
- CO5: Identify the specification of machines and materials.

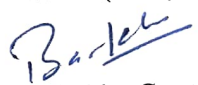

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II Year – III Semester

3ME4 – 24 :Programming using MATLAB

After completion of the course, students would be able to:


CO1: Use MATLAB as an effective tool in science and engineering.

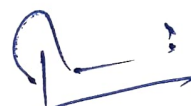
CO2: Create and troubleshoot basic m scripts. Explore problems of arrays and matrix.

CO3: Plot datasets.

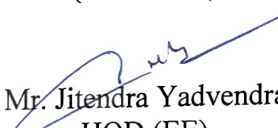
CO4: Solve differential equation. File handling and data analyzing.

CO5: Apply MATLAB tool box and graphic function.



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II Year – III Semester

3ME7-30 : Industrial Training

After completion of this course, students will be able to:

- CO1: Demonstrate competency in the field of Mechanical engineering through problem identification, formulation and solution.
- CO2: Develop the ability to work as an individual and in group with the capacity to be a leader or manager as well as an effective team member.
- CO3: Test the theoretical learning in practical situations by accomplishing the tasks assigned during the internship period.
- CO4: Analyze the functioning of internship organization and recommend changes for improvement in processes.
- CO5: Practice the use of Resource optimization techniques.

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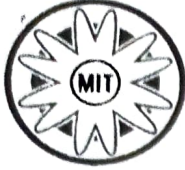
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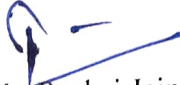
II Year – III Semester


FEC07 : Financial Literacy

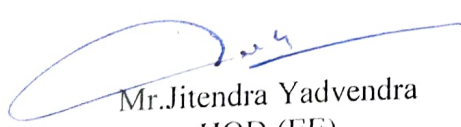
After completion of the course, students would be able to:

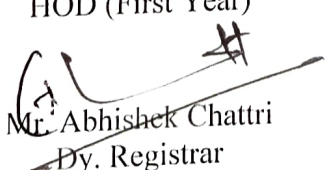
- CO1: Understand the operational aspects of the banking system, functions of banks, banking product and services and monetary policies.
- CO2: Gain the requisite knowledge to handle various aspects of investment and wealth management.
- CO3: Develop the ability to understand the financial planning and the financial statements.
- CO4: Acquire an insight into the Indian tax structure and its filing process.
- CO5: Identify the scam, fraud schemes and its redressal.


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II Year – IV Semester

4ME2 – 01: Data Analytics

After completion of the course, students would be able to:


CO1: Understand multivariate statistics and data screening.


CO2: Analyze different techniques of regression and variance.


CO3: Apply logistic regression and Discriminant Analysis with classification accuracy.

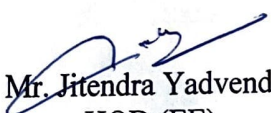
CO4: Explain principal component analysis and cluster analysis.

CO5: Develop variable models for data analysis.



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II Year – IV Semester

3ME1-03/4ME1-03: Managerial Economics and Financial Accounting

After completion of the course, students would be able to:


CO1: Define basic concept of economics and its associated problems.


CO2: Analyze demand and supply functions and forecast.


CO3: Describe theory of production and cost analysis.

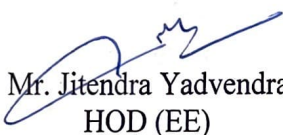
CO5: Understand market structure and pricing policies.

CO6: Create financial statements like balance sheet, PLS etc. and analyze them.



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II Year – IV Semester

4ME3 – 04: Digital Electronics

After completion of the course, students would be able to:


CO1: Explain semiconductor devices and their application in engineering and science.


CO2: Describe Operational amplifier and its applications.

CO3: Explore Timing Circuits and Oscillators.


CO4: Apply fundamentals of digital electronics.

CO5: Understand electronic communication system.

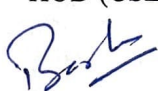

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Mr. Abhishek Chattri
By. Registrar


Dr. Barkha Gupta
HOD (ME)


Dr. Vikas Soni
Principal

Cc to:-

Hon'ble Vice-Chairman Sir for kind information.

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Department of Mechanical Engineering

List of Course Outcomes

II Year – IV Semester

4ME4 – 05: Fluid Mechanics and Fluid Machines

After completion of the course, students would be able to:

- CO1: Define fluid properties and describe its statics and flow characteristic to solve problems related to manometers, buoyancy and submerged bodies.
- CO2: Analyze boundary layer, laminar flow and flow through pipes.
- CO3: Formulate dimensional analysis and dimensionless parameters.
- CO4: Explain Euler's equation; centrifugal pump and reciprocating pump.
- CO5: Understand different turbines, their working principal and performance characteristic.

Mr. Vijay Varshney
(O/C Exam)

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List of Course Outcomes


II Year – IV Semester
4ME4 – 06: Manufacturing Processes


After completion of the course, students would be able to:

- CO1: Classification of manufacturing process.
- CO2: Describe preparation of mould and casting process.
- CO3: Explain different forming processes like forging, rolling, extrusion, drawing etc.
- CO4: Illustrate methods of metal joining process.
- CO5: Elaborate powder metallurgy process and its application



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List of Course Outcomes

II Year – IV Semester


4ME4 – 07: Theory of Machines


After completion of the course, students would be able to:

- CO1: Know about mechanism and machines; inversions of mechanism and calculate velocity and acceleration using different methods.
- CO2: Understand the concept of friction devices, clutch and brakes.
- CO3: Classify gears and solve numerical of gear and gear trains.
- CO4: Draw cam profile for different type of motion and follower; learn principle of gyroscope and its application.
- CO5: Examine balancing of rotating and reciprocating masses.



Mr. Vijay Varshney
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Department of Mechanical Engineering


List of Course Outcomes


II Year – IV Semester


4ME3 – 21: Digital Electronics Lab


After completion of the course, students would be able to:


- CO1: Verify truth table of basic logic gates.
- CO2: Realize an SOP and POS expression; realize various adder/ Subtractor using different gates.
- CO3: Analyze truth tables of multiplexer.
- CO4: Design a combinational circuit and derive display; realize the R-S, J-K and D-flip flops with and without clock signal.
- CO5: Construct various counters; Perform input/output operations on registers using clock.



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List of Course Outcomes

II Year – IV Semester

4ME4 – 22: Fluid Mechanics Lab

After completion of the course, students would be able to:


CO1: Learn fluid properties measurement techniques; verify Bernoulli's theorem.

CO2: Calibrate flow rate measuring devices in pipes and open channel.


CO3: Find head loss, minor/major loss in pipes.

CO4: Analyze boundary layer phenomenon and calculate Reynold's number.

CO5: Conducting experiments and drawing characteristic curve of pumps and turbines.



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List of Course Outcomes

II Year – IV Semester

4ME4 – 23: Production Practice Lab

After completion of the course, students would be able to:


CO1: Operate Lathe machine and perform various operations on it.

CO2: Use grinding machine for making single point cutting tool and shaper to cut keyways and grooves.

CO3: Explain milling machine, milling cutters and perform indexing to cut hexagonal nut/gear.

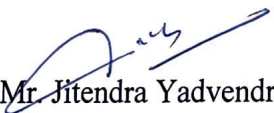
CO4: Prepare mould of given patterns; perform sand testing methods and welding.

CO5: Know about capstan lathe and its tool layout.

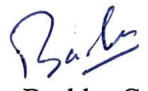

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List of Course Outcomes

II Year – IV Semester

4ME4 – 24: Theory of Machine Lab

After completion of the course, students would be able to:

- CO1: Illustrate types of mechanism and its inversions with application.
- CO2: Describe and plot profile for cam-follower arrangements.
- CO3: Explain dynamometers, brakes, clutches, different gear boxes.
- CO3: Verify torque relationship for gyroscope.
- CO5: Perform wheel balancing, static and dynamic balancing.

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List of Course Outcomes

II Year – IV Semester

FEC16 : Business Communication and Presentation Skills

After completion of the course, students would be able to:

- CO1: Enhance the proficiency and competencies in verbal and non- verbal communication skills with a holistic long-term perspective.
- CO2: Demonstrate technical communication skills.
- CO3: Manage cross cultural communication in group discussion.
- CO4: Prepare and present effective presentations aided by ICT tools.
- CO5: Develop a resume for oneself and able to handle the interview process confidently.

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Department of Mechanical Engineering


List of Course Outcomes


III Year – V Semester

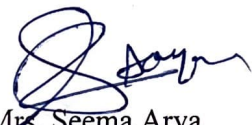
5ME3 – 01: Mechatronic Systems


After completion of the course, students would be able to:

- CO1: Identity components of the mechatronics system, and its representation as a block diagram.
- CO2: Get familiar with the idea of signal processing and use interfaces like ADC, DAC, and digital I/O.
- CO3: Explore sensors and actuators for different applications.
- CO4: Analyze and control physical system and calculate stability analysis.
- CO5: Describe microprocessor, microcontrollers, PLCs and other mechatronics systems.



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Department of Mechanical Engineering

List of Course Outcomes

III Year – V Semester

5ME4 – 02: Heat Transfer

After completion of the course, students would be able to:

CO1: Recognize the fundamental rules of heat transport.

CO2: Investigate steady and unsteady state heat conduction for different geometries.

CO3: Find numerical solutions to heat transfer problems of forced and natural convection.

CO4: Calculate the heat flow from heat exchanger.

CO5: Describe heat transfer using thermal radiation and concept of black body.

Mr. Vijay Varshney
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List of Course Outcomes


III Year – V Semester
5ME4 – 03: Manufacturing Technology

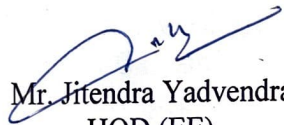
After completion of the course, students would be able to:

- CO1: Comprehend and contrast the purposes and uses of various metal cutting instruments.
- CO2: Describe different metal removal tools and the forces involved in machining.
- CO3: Examine the characteristics and tool life.
- CO4: Recognize different machining tools and their working. Also learn special purpose machines tools.
- CO5: Categorize different high-velocity forming and grinding operations.



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List of Course Outcomes


III Year – V Semester

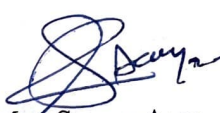
5ME4 – 04: Design of Machine Elements I

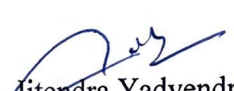
After completion of the course, students would be able to:

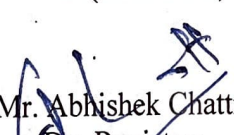
- CO1: Apply the understanding of engineering principles such as choice of materials and manufacturing factors as well as knowledge of Indian Standard norms to design.
- CO2: Know the manufacturing considerations for engineering components and design the different parts that are subject to direct stress.
- CO3: Design members for bending such as beams, levers, and laminated springs.
- CO4: Design different torsion-sensitive machine parts such shafts, thereby shaft couplings and keys.
- CO5: Compute dimensions of threaded fasteners, Power screws and curved beams.



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List of Course Outcomes

III Year – V Semester


5ME4 – 05: Principles of Management


After completion of the course, students would be able to:

- CO1: Learn variety of management principles, including Managerial Grid and planning, organizing, implementing, staffing, coordinating, managing, and motivating.
- CO2: Elaborate contribution of management thinkers.
- CO3: Explain appraisal strategy, organizational development, decision making etc.
- CO4: Understand managerial practices of various renowned business leaders of India.
- CO5: Describe organizational structure and leadership quality.



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III Year – V Semester

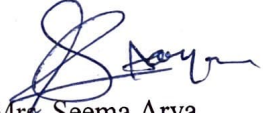
SME4 – 12: Automobile Engineering

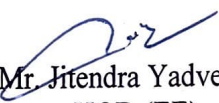
After completion of the course, students would be able to:

- CO1: Describe and compare the structure, function, features, relative advantages and applications of various types of car chassis, body, frame, clutch and brakes and use a suitable diagram to illustrate their description.
- CO2: Explain the elements of power transmission of an automobile such as gear boxes and drives i.e. front and all wheel drive, propeller shaft and differential etc.
- CO3: Define steering geometry and mechanism; construction and features of various tyres; suspension system with neat sketches.
- CO4: Discuss automotive electrical and electronic system; ignition system and automatic lighting.
- CO5: Understand automotive air conditioning and various safety devices. the environmental implications of automobile emissions.


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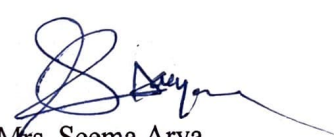
III Year – V Semester 5ME3 – 21: Mechatronic Lab

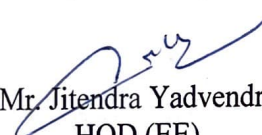
After completion of the course, students would be able to:

- CO1: Use transducers kit having LVDT, Strain gauge amplifier, reflective Opto transducer.
- CO2: Understand the Mobile Robot working and programming.
- CO3: Apply PLC programming for gates, timers, counters, sensors and different control system.
- CO4: Make MATLAB Program for sample problems.
- CO5: Learn simulation and analysis of PID controller using SIMULINK.

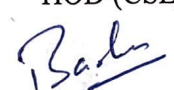

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III Year – V Semester
5ME4 – 22: Heat Transfer lab

After completion of the course, students would be able to:


CO1: Gain insight into the performance of thermal systems and calculate thermal constants.


CO2: Measure emissivity and determine Stefan Boltzmann Constant for radiation.


CO3: Understand the different ways in which heat and mass are transferred; Determine Critical Heat Flux in Saturated Pool Boiling.

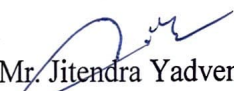
CO4: Calculate the heat transfer coefficients for convection and condensation.

CO5: Compare effectiveness of heat exchangers.

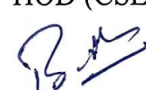

Mr. Vijay Varshney
(O/C Exam)


Mr. Pankaj Jain
HOD (First Year)


Mrs. Seema Arya
HOD (CSE)


Mr. Jitendra Yadvendra
HOD (EE)


Mr. Abhishek Chattri
Dy. Registrar


Dr. Barkha Gupta
HOD (ME)


Dr. Vikas Soni
Principal

Cc to:-

Hon'ble Vice-Chairman Sir for kind information.

Hon'ble Group Director Sir for kind information.

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Department of Mechanical Engineering

List of Course Outcomes

III Year – V Semester

SME4 – 23: Production Engineering Lab

After completion of the course, students would be able to:


CO1: Illustrate the vital abilities for calibration and testing of diverse gauges.


CO2: Illustrate the vital aptitudes to gather information, perform investigation and translate comes about to draw substantial conclusions through standard test methods utilizing different metrology disobedient.

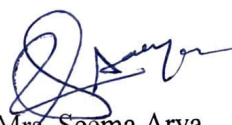
CO3: Utilize sine bar, bore gauge and slip gauges to measure required measurements.


CO4: Measure flatness, surface defects and degree of accuracy of surfaces.

CO5: Utilize suitable strategies to degree the cutting strengths amid turning, drilling and milling operations and degree chip-tool interface temperature amid turning utilizing thermocouple.



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Department of Mechanical Engineering

List of Course Outcomes

III Year – V Semester

5ME4 – 24: Machine Design Practice I

After completion of the course, students would be able to:

CO1: Illustrate the information of selection of materials, properties, fits and tolerance.

CO2: Apply Indian Standard and manufacturing considerations to design machine elements under direct stresses.

CO3: Plan different machine components beneath bending stresses.

CO4: Design different machine components beneath twisting and torsion.

CO5: Plan different machine components beneath combined stresses.

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List of Course Outcomes


III Year – V Semester **5ME7-30 : Industrial Training**


After completion of this course, students will be able to:

- CO1: Demonstrate competency in the field of Mechanical engineering through problem identification, formulation and solution.
- CO2: Develop the ability to work as an individual and in group with the capacity to be a leader or manager as well as an effective team member.
- CO3: Test the theoretical learning in practical situations by accomplishing the tasks assigned during the internship period.
- CO4: Analyze the functioning of internship organization and recommend changes for improvement in processes.
- CO5: Practice the use of Resource optimization techniques.

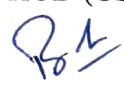

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List of Course Outcomes

III Year – V Semester

5ME8-00 : Social Outreach, Discipline & Extra Curricular Activities

After completion of the course, students would be able to:

- CO1: Develop qualities of focus, discipline, taking care of one's teammates, healthy competitive spirit, and selfless giving.
- CO2: Appraise priority setting, time management, problem solving, looking at different perspectives, analytical thinking, optimism, self-confidence and camaraderie.
- CO3: Participate in national /state level social and cultural activities.
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List of Course Outcomes


III Year – VI Semester

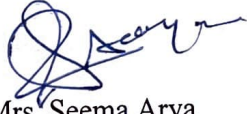
6ME3 – 01: Measurement and Metrology

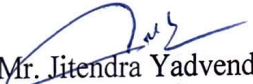
After completion of the course, students would be able to:

- CO1: Understand the concept of measurement, errors and calibration of measuring tools.
- CO2: Explain linear and angular measurement instruments and comparators.
- CO3: Describe form measurement and surface finish measurement.
- CO4: Apply methods of power and torque measurement; explain working of CMM.
- CO5: Outline various tools and methods for measurement of flow and temperature related properties.



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List of Course Outcomes

III Year – VI Semester

6ME4 – 02: Computer Integrated Manufacturing Systems (CIMS)

After completion of the course, students would be able to:


CO1: Describe the automation in production and importance of computers in manufacturing.


CO2: Explore CNC system and part programming.

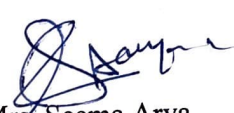
CO3: Illustrate the use of computers in CAPP, production management and ERP.


CO4: Explain computer aided quality control and material handling system.

CO5: Describe the group technology, concurrent engineering, FMS, simulation, and AI concepts in CIM systems.



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Department of Mechanical Engineering

List of Course Outcomes


III Year – VI Semester
6ME4 – 03: Mechanical Vibrations


After completion of the course, students would be able to:

- CO1: Explain the basic concepts of sound, noise, and vibration and its regulation.
- CO2: Identify situations involving free, forced, damped, undamped vibrations and derive equations of motion for undamped one-dimensional vibrations.
- CO3: Compute principal mode and modeshapes for 2 DOF undamped forced system with harmonic excitation. Explain various vibration absorbers.
- CO4: Use frequency response curves, phase angle graphs, vibration isolation, and transmissibility analysis to evaluate and resolve forced vibration problems.
- CO5: Investigate and resolve issues concerning the vibration of systems with multiple degrees of freedom and continuous system.



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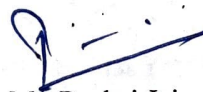
List of Course Outcomes


III Year – VI Semester
6ME4 – 04: Design of Machine Elements II

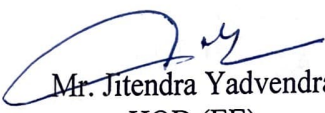
After completion of the course, students would be able to:

- CO1: Design under variable loading by considering fatigue strength.
- CO2: Design Piston, cylinder, connecting rod, and crankshaft for internal combustion engines.
- CO3: Find dimensions of helical and torsional springs in tension, compression and variable stresses. Design belt drives.
- CO4: Use Lewis and Buckingham equations to design spur, helical, bevel, and worm gears while taking wear and dynamic load into account.
- CO5: Explain design procedure of sliding and journal bearing; selection of Anti-friction joint for various loads and load cycles, installation of the bearings, and maintenance technique.

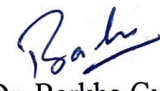

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Department of Mechanical Engineering


List of Course Outcomes


III Year – VI Semester


6ME4 – 05: Quality Management


After completion of the course, students would be able to:

- CO1: Understand the meaning of quality management, control, policies and methods.
- CO2: Utilize a variety of visual and mathematical techniques to model process quality using control charts, probability distributions, sampling distributions etc.
- CO2: Describe different charts for variables, attributes and SQC for quality management.
- CO4: Address quality assurance and standards, acceptance sampling and OC curve.
- CO5: Explain the procedures for reliability of the product analysis, concept of Taguchi method.

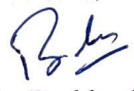

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List of Course Outcomes

III Year – VI Semester

6ME5 – 12: NON Conventional Machining Methods

After completion of the course, students would be able to:

- CO1: Classify advance machining process and their selection for required application.
- CO2: Describe finishing processes and metal removal processes using AJM, WJC, USM.
- CO3: Explain working of advance thermo electric machining process, LBM, PAM, EBM.
- CO4: Elaborate principle of Electrochemical and chemical advanced machining process like ECM, ECG, ESD, Chemical machining.
- CO5: Understand the concept of micro and nano machining.

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List of Course Outcomes

**III Year – VI Semester
6ME4 – 21: CIMS Lab**

After completion of the course, students would be able to:

- CO1: Understand the different components of the CNC machine, their functions and safety measures, use of reference point for machining.
- CO2: Learn different types of G and M codes used in CNC lathes / milling machines.
- CO3: Prepare part programming for Lathe operations.
- CO4: Prepare part programming for milling machine.
- CO5: Understand how to simulate the part program for a given drawing on the cut viewer turn / mill software.

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Department of Mechanical Engineering


List of Course Outcomes


**III Year – VI Semester
6ME4 – 22: Vibration Lab**


After completion of the course, students would be able to:

- CO1: Analyze forced vibrations using a virtual laboratory simulator.
- CO2: Determine time intervals and natural frequencies of free oscillations of different systems and compare theoretical and experimental results.
- CO3: Determine a fluid's damping constant in case of freedampened torsional oscillations.
- CO4: Verify rule for basic frequency of multi-degree of freedom systems.
- CO5: Determine gyration radius and mass moment inertia of objects

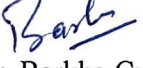

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Department of Mechanical Engineering


List of Course Outcomes


III Year – VI Semester


6ME4 – 23: Machine Design Practice II


After completion of the course, students would be able to:

- CO1: Use data hand book for standards related to design of mechanical components.
- CO2: Solve problems of fatigue loading.
- CO3: Design helical and other springs, bolts under variable stresses.
- CO4: Design belt, rope, chain drive, gears etc.
- CO5: Plan of Sliding contact bearing and Anti-friction bearing under different load conditions.



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List of Course Outcomes

III Year – VI Semester

6ME4 – 24: Thermal Engineering Lab I

After completion of the course, students would be able to:

CO1: Recognize and clarify the distinctive parts of petrol and diesel engines and their working.

CO2: Draw valve timing charts for single cylinder diesel engine.

CO3: Clarify and separate different sorts of boilers, its mounting and accessories.

CO4: Illustrate the working of steering system of vehicle.

CO5: Illustrate the working of braking and transmission frameworks of vehicle and examine the most recent improvement.

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III Year – VI Semester


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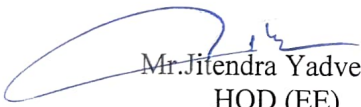
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List of Course Outcomes

**IV Year – VII Semester
7ME5 – 11: I. C. Engines**

After completion of the course, students would be able to:

CO1: Use the thermodynamic cycle to explain the operation and performance of IC engines.

CO2: Describe the combustion phenomenon and to interpret the various factors that impact combustion, alternative fuel.

CO3: Explain different Engine systems and components with working.

CO4: Contrast hybrid engines and special engines.

CO5: Investigate commonly used fuels interact with recent trends, modification in IC Engine.

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Ex. Registrar

Dr. Barkha Gupta
HOD (ME)

Dr. Vikas Soni
Principal

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Department of Mechanical Engineering


List of Course Outcomes

IV Year – VII Semester

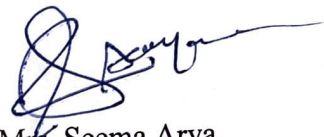
7AG6-60.2: Environmental Engineering and Disaster Management

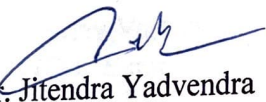
After completion of the course, students would be able to:

- CO1: Recognize water sources, domestic water and its transportation phenomenon.
- CO2: Explain standards of drinking water and water treatment.
- CO3: Describe domestic waste water and its treatment.
- CO4: Characterizesolid waste and its disposal for urban and rural areas.
- CO5: Discuss air pollution, BIS standards for pollutants in air and their abetments, disaster and its management

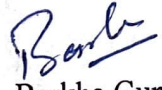

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Department of Mechanical Engineering

List of Course Outcomes


**IV Year – VII Semester
7ME4 – 21: FEA Lab**


After completion of the course, students would be able to:

- CO1: Recognize the principles underlying FEM formulation techniques.
- CO2: Determine the use and properties of FEA components such bars, beams, planes, and iso-parametric components.
- CO3: Create a global equation and an equation for each element's characteristic.
- CO4: To address issues involving bars, trusses, beams, circular shafts, heat transfer, fluid flow, axis symmetry, and dynamics by applying the proper boundary conditions to a global equation.
- CO5: A useful way to Understand basic kinematics concepts – displacement, velocity and acceleration (and their angular counterparts).



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Department of Mechanical Engineering

List of Course Outcomes

IV Year – VII Semester

7ME4 – 22: Thermal Engineering Lab II

After completion of the course, students would be able to:

- CO1: Perform load test and create heat balance sheet.
- CO2: Conduct Morse tests; Analyze engine exhaust gases.
- CO3: Determine COP of refrigeration, heat pump.
- CO4: Draw performance characteristics curve for turbines and pumps.
- CO5: Learn commercial refrigeration and air conditioning systems.

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List of Course Outcomes

IV Year – VII Semester

7ME4 – 23: Quality Control Lab

After completion of the course, students would be able to:


CO1: Understand and use various control charts for industry process and capability analysis.

CO2: Plot the OC curve and find the nature of distributions.


CO3: Verify normal and Poisson distribution using experiments

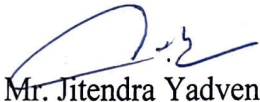
CO4: Evaluate control limits and verify central limit theorem.

CO5: Use SPC software MINITAB and Excel to solve QC problems.



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List of Course Outcomes


IV Year – VII Semester


7ME7-40 : Seminar


After completion of this course, students will be able to:


- CO1: Review, prepare and present technological developments.
- CO2: Rereading the existing literature on selected topics and understanding the research done by different researchers.
- CO3: Improve the research and development Knowledge.
- CO4: Develop effective communication skills, presentation skills, self-management and report writing skills.
- CO5: Understand the Listening and responding appropriately.

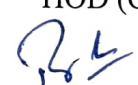

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List of Course Outcomes

IV Year – VII Semester

7ME7-30 : Industrial Training


After completion of this course, students will be able to:

- CO1: Demonstrate competency in the field of Mechanical engineering through problem identification, formulation and solution.
- CO2: Develop the ability to work as an individual and in group with the capacity to be a leader or manager as well as an effective team member.
- CO3: Test the theoretical learning in practical situations by accomplishing the tasks assigned during the internship period.
- CO4: Analyze the functioning of internship organization and recommend changes for improvement in processes.
- CO5: Practice the use of Resource optimization techniques.

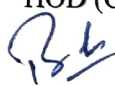

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List of Course Outcomes


IV Year – VII Semester


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- CO2: Appraise priority setting, time management, problem solving, looking at different perspectives, analytical thinking, optimism, self-confidence and camaraderie.
- CO3: Participate in national /state level social and cultural activities.
- CO4: Demonstrate various forms of arts, including music, dance, drama, painting and photography.
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List of Course Outcomes


IV Year – VIII Semester
8ME5 – 13: Additive Manufacturing


After completion of the course, students would be able to:

- CO1: Explore rapid prototyping and additive manufacturing technology..
- CO2: Describe several RP strategies.
- CO3: Discuss various indirect and direct rapid tooling(RT) Processes.
- CO4: Explain the basics of reverse engineering.
- CO5: Process Polyhedral Data using STL files and RP software.



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List of Course Outcomes

IV Year – VIII Semester

8TT6 – 60.2: Disaster Mangement

After completion of the course, students would be able to:


CO1: Acknowledge the value and necessity of learning catastrophe management.


CO2: Recognize the many types of disasters and their causes.

CO3: Learn about the effects of disasters on the environment and society.

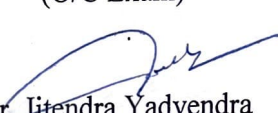
CO4: Analyze and evaluate a region's susceptibility.

CO5: Explain numerous techniques for risk mitigation and risk reduction.

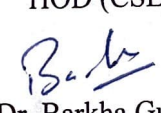

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List of Course Outcomes

IV Year – VIII Semester

8ME4 – 21: Industrial Engineering Lab

After completion of the course, students would be able to:


CO1: Prepare various process charts and time study charts.

CO2: Plan, test, analyze a system layout, inventory and order.

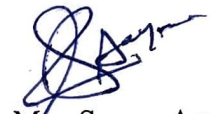
CO3: Solve operation research problems using OR softwares.


CO4: Simulate different system using Monte-Carlo method.

CO5: Understand sales forecasting, project management, plant layout and capacity planning.

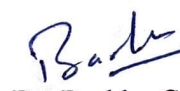

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List of Course Outcomes

IV Year – VIII Semester 8ME4 – 22: Metrology Lab

After completion of the course, students would be able to:


CO1: Use different measuring devices to measure length such as calipers and micrometers.

CO2: Explain various extenders like standard bevel protractor, sine bar, slip gauges, tooth caliper, profile projector, optical flat etc.

CO3: Use hardness tester to measure hardness of different material.


CO4: Assess the surface quality of a given sample, which is important in any production.

CO5: Express the error and correction coefficients of various measuring instruments.



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List of Course Outcomes


IV Year – VIII Semester

8ME7-50 : Project


After completion of the course, students would be able to:

- CO1: Identify appropriate topic for study and clearly formulate a research problem.
- CO2: Design a solution of the problem using latest tools & techniques.
- CO3: Compile relevant data, interpret & analyze and then create simulation or prototype.
- CO4: Demonstrate ethical and professional sustainability while working in a team and communicate effectively for the benefit of the society.
- CO5: Understand the engineering, finance and management principles.



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