



Second Year -Fourth Semester- Course Outcomes (NEP-2020) BME32401: Mechanics of Materials

	Course Outcomes	
BME32401.1	Apply the concepts of simple stresses and strains, and their relationships based on the principles of linear elasticity, to analyze material behavior under different types of loading.	
BME32401.2	Apply shear force and bending moment diagrams to a beam and analyze the resulting bending and shear stresses.	
BME32401.3	Analyze the deflection of beams using Macaulay's method and estimate the strain energy and impact loading in mechanical elements.	
BME32401.4	Analyze the torsional behavior of a circular shaft.	
BME32401.5	Analyze the Strength criterion for design of Column & Struts.	

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Second Year -Fourth Semester- Course Outcomes (NEP-2020)

BME32402: Fluids Mechanics and Hydraulic Machines

	Course Outcomes		
BME32402.1	Classify fluid properties, types of flow & flow measuring devices, pressure and pressure measuring devices.		
BME32402.2	Apply the Principle of Bernoulli's equation to the various fluid flow measuring devices and Elaborate behavior of fluid in motion condition.		
BME32402.3	Apply Darcy Weisbach and Chezy's Equation to determine different losses of fluid flow through pipes.		
BME32402.4	Analyze design characteristics of hydraulic machines i.e. turbines (impulse and reaction).		
BME32402.5	Analyze the principles of operation, classification, constructional components, performance characteristics, and design aspects of centrifugal and reciprocating pumps.		

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Second Year -Fourth Semester- Course Outcomes (NEP-2020)

BME32403: Engineering Thermodynamics

	Course Outcomes
BME32403.1	Define the basic concepts of thermodynamics, represent different thermodynamic processes on P-V and T-s plots and analyze them using gas laws and compute associated heat and work interactions.
BME32403.2	Explain First Law of thermodynamics and apply it to non-flow and flow processes.
BME32403.3	Explain Second Law of thermodynamics and entropy; analyze the performance of heat pump, heat engine and refrigerator.
BME32403.4	Describe the formation of steam, its characteristics and determine properties of steam using steam tables and Mollier chart.
BME32403.5	Represent various air standard cycles and vapour power cycles such as Carnot, Otto, Diesel, and Rankine cycles on P-v and T-s plots.

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Second Year -Fourth Semester- Course Outcomes (NEP-2020)

BME32406: Basics of CNC Programming

	Course Outcomes		
BME 32406.1	Identify different metal removal processes.		
BME 32406.2	Explain application and advantage of CNC machines and technology.		
BME 32406.3	Demonstrate the controls of different CNC machines.		
BME 32406.4	Explain the construction and working principle of CNC system.		
BME 324056.5	Identify different axes, machine zero, home position of CNC turning machine.		

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Second Year -Fourth Semester- Course Outcomes (NEP-2020) BME32405:Fluids Mechanics and Hydraulic Machines Lab

	Course Outcomes		
BME32405.1	Demonstrate the concept of Buoyancy and Metacentric Height.		
BME32405.2	Demonstrate the application of Bernoulli's Theorem.		
BME32405.3	Estimate various losses of energy in pipe.		
BME32405.4	Evaluate performance characteristics of Impulse and Reaction turbine.		
BME32405.5	Evaluate performance characteristics of various types of pumps.		

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Second Year -Fourth Semester- Course Outcomes (NEP-2020)

BEC32306: Basic Electronics and Communication

	Course Outcomes		
BEC32306.1	Examine the fundaments behavior of diode in rectifiers, filter circuits.		
BEC32306.2	Illustrate I/O characteristics of CE, CB, CC bipolar junction transistor.		
BEC32306.4	Infer the basic fundaments of communication system.		

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Second Year -Fourth Semester- Course Outcomes (NEP-2020)

BSH32403: Human Values for Professional Society

	Course Outcomes		
BSH32403.1	Define and explain the importance of value education in life.		
BSH32403.2	Understand and explain the significance of harmony in family and society.		
BSH32403.3 Apply ethics in personal and professional life and benefits organization but also contributes to broader societal well-being			

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Second Year -Fourth Semester- Course Outcomes (NEP-2020)

BSH32404: Leadership and Team Dynamics

	Course Outcomes		
BSH32404.1	Explain how global leadership skills contribute to leadership effectiveness.		
BSH32404.2	Understand the leader's role in team-based organizations.		
BSH32404.3	Classify the potential contribution of outdoor training to the development of team leadership.		

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Second Year -Fourth Semester- Course Outcomes (NEP-2020)

BMEXX10:Automobile Engineering (Open Elective II)

	Course Outcomes		
BMEXX10.1	BMEXX10.1 Identify the components and layout of automobile.		
BMEXX10.2 Analyze the mechanics of transmission system.			
BMEXX10.3 Compute the importance of suspension and braking system.			

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Second Year -Fourth Semester- Course Outcomes (NEP-2020)

BME32410: ADVANCE MANUFACTURING TECHNOLOGY

	Course Outcomes	
BME32410.1	Interpret the importance of nontraditional machining processes	
BME32410.2	Illustrate the concept of Electro-Chemical Machining, Electrochemical Grinding. Electric Discharge Machining	
BME32410.3	Discuss about Unconventional welding techniques such as Inert Gas MIG & TIG	

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