



Tulsiramji Gaikwad-Patil College of Engineering and Technology
Wardha Road, Nagpur-441108
NAAC Accredited with A+ Grade
(An Autonomous Institute Affiliated to RTM Nagpur University, Nagpur)


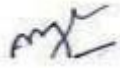

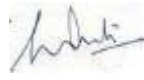


Program: B.Tech. Mechanical Engineering

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

BME32301: Manufacturing Technology and Processes

	Course Outcomes
BME32301.1	Apply the sand moldings technique for the castings.
BME32301.2	Prepare the gating and riser system needed for casting and requirements to achieve defect free casting.
BME32301.3	Examine appropriate welding process based on the type of industrial application.
BME32301.4	Understand the different processes and machine tools for cylindrical surface Machining.
BME32301.5	Differentiate various machining processes and conditions for flat surface machining using Single point cutting tool in a shaper machine.

			
Chairperson	Dean Academics	Vice Principal	Principal



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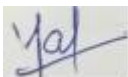
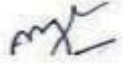




Program: B.Tech. Mechanical Engineering

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

BME32302: Material Engineering

	Course Outcomes
BME32302.1	Analyze the effect of Crystalline nature of metals and Iron-Iron carbide equilibrium diagram.
BME32302.2	Interpret the commercial steels.
BME32302.3	Analyze and implement suitable heat treatment processes.
BME32302.4	Analyze the Cast Iron.
BME32302.5	Apply the basics of powder Metallurgy for powder metallurgical components.

			
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Program: B.Tech. Mechanical Engineering

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

BME32306: Basics of Manufacturing Technology and Processes

	Course Outcomes
BME32306.1	Apply the sand moldings technique for thecastings.
BME32306.2	Prepare the gating and riser system needed for casting and requirements to achieve defect freecasting.
BME32306.3	Examine appropriate welding process basedon the type of industrial application.
BME32306.4	Summarize appropriate type of plastics andplastics processing method.
BME32306.5	Analyze effect of parameters influencingmetal forming and compare hot working and cold working with applications.

			
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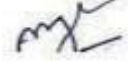




Program: B.Tech. Mechanical Engineering

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

BBA32304: Managerial Economics

	Course Outcomes
BBA32304.1	Recognize the knowledge on concepts and principles of Managerial Economics
BBA32304.2	Describe and relate to the market the concepts of Demand and Supply
BBA32304.3	Identify and recognize the Production Function concept and Cost Analysis.

			
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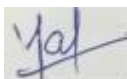
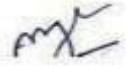




Program: B.Tech. Mechanical Engineering

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

BSH32308: Ethics in Engineering Practice

	Course Outcomes
BSH32308.1	Describe Basic Human Values, Ethics & Importance of Engineering Ethics.
BSH32308.2	Illustrate the Basic Ethics for Engineers, Principles of Engineering Ethics & Fundamental Rights of individuals of society.
BSH32308.3	Discuss Ethics for Engineer Professionals, and their Safety, Responsibility & Rights.

			
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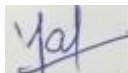





Program: B.Tech. Mechanical Engineering

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

BSH32306: Engineering Mathematics-III

	Course Outcomes
BSH32306.1	Analyze numerical techniques to find the roots of equations of different types of equations.
BSH32306.2	Apply the knowledge of Numerical techniques to solve ordinary differential equations in engineering problems.
BSH32306.3	Apply the concept of Laplace Transform for Solving differential equation.
BSH32306.4	Solve Partial Differential Equation using appropriate method.
BSH32306.5	Apply the knowledge of Fourier series and transform for understanding periodic signals and solve integral equations.

			
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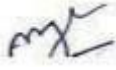

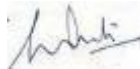


Program: B.Tech. Mechanical Engineering

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

BME32303: Manufacturing Technology and Processes Lab

	Course Outcomes
BME32303.1	Create the sand moldings technique for the castings.
BME32303.2	Prepare the gating and riser system needed for casting and requirements to achieve defect free casting.
BME32303.3	Examine appropriate welding process based on the type of industrial application.
BME32303.4	Develop a job using Lathe Machine.
BME32303.5	Develop a job using Shaper Machine

			
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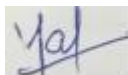
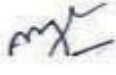




Program: B.Tech. Mechanical Engineering

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

BME32304: Material Engineering Lab

	Course Outcomes
BME32304.1	Distinguish different type of materials, its physical and chemical properties with crystallographic studies.
BME32304.2	Analyze the process of metals solidification with phase diagram.
BME32304.3	Compare the different heat treatment process and planecarbon steel alloys.
BME32304.4	Categories the different types of cast iron and nonferrous alloys with the applications.
BME32304.5	Identify the basic of powder Metallurgy with different Hardness testing method and Advance materials.

			
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