



**Tulsiramji Gaikwad-Patil College of Engineering and  
Technology**

Wardha Road, Nagpur-441 108

NAAC Accredited (A+ Grade)




**Third Year (Semester-V) B. Tech. Mechanical Engineering**


**Fifth Semester Autonomous Course Outcome (Cos)**

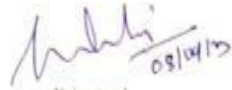
**BME3501:Heat and Mass Transfer**

BME3501	Course Outcomes
BME3501.1	<b>Compare</b> the different modes of heat transfer and calculation of thermal resistance and Thermal Conductivity
BME3501.2	<b>Apply</b> the concept of internal heat generation for the calculation of heat transfer rate. Also learn about various types of fins and their significance in steady state conduction.
BME3501.3	<b>Apply</b> appropriate empirical correlations to estimate forced convection and free convection heat transfer, for internal and external flows.
BME3501.4	<b>Evaluate</b> heat transfer rate by radiation from ideal and actual surfaces and enclosures of different geometries.
BME3501.5	<b>Evaluate</b> heat exchanger performance for the given geometry and knowledge of mass transfer by applying principles of diffusion, mass transfer coefficients and interphase mass transfer.

  
BoS Chairman  
Head  
Department of Mechanical Engineering  
Tulsiramji Gaikwad Patil College of  
Engineering & Technology, NAGPUR.

  
Director/Dean Academics  
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Vice Principal  
Tulsiramji Gaikwad Patil  
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Technology Nagpur.

  
Principal  
Principal  
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