

**RTM Nagpur University- Mechanical Engineering**  
**5<sup>TH</sup> SEM-Heat Transfer-BEME501T**  
**Syllabus (Theory)**

Semester	Course Title (Subject)	Hours / Week			Cre dits	Maximum Marks			Exam Duration (Hrs.)
		L	T	P		Continu al Assess ment	Univer sity Exam ination	Total	
<b>B.Tech 5<sup>th</sup> Sem Mechanical</b>	<b>Heat Transfer</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>04</b>	<b>30</b>	<b>70</b>	<b>100</b>	<b>3</b>

<b>Sr. No.</b>	<b>Course Objective</b> <b>The objective of this course is—</b>
<b>1</b>	This course is designed to learn the different modes of heat transfer like conduction, convection & Radiation and formulation of problem based on required application.
<b>2</b>	It will help students to distinguish between steady and unsteady state heat transfer and their applications will enable to calculate heat transfer rate from different geometry of the system under free and forced convection.
<b>3</b>	It also aims to impart knowledge to analyse radiation with and without radiation shield. In addition, it also discusses methods to analyse & design heat exchangers.
<b>4</b>	In all to generate interest in learning to develop in depth understanding in Heat Transfer.

**Course Outcomes**

After successful completion of this course the student will be able to:

<b>CO1</b>	Students will be able to define and compare the different modes of heat transfer and calculation of thermal resistance and heat transfer through plane and composite wall, cylinder and sphere with and without thermal contact resistances.
<b>CO2</b>	Students will be able to apply the concept of internal heat generation for the calculation of heat transfer for plane wall, cylinder and sphere and also learn about various types of fins and their significance in steady state conduction heat transfer calculations. It will also help them to understand the concept of unsteady state heat transfer.
<b>CO3</b>	Students will be able to select and apply appropriate empirical correlations to estimate forced convection and free convection heat transfer, for internal and external flows.
<b>CO4</b>	Students will be able to evaluate heat transfer rate by radiation from ideal and actual surfaces and enclosures of different geometries.
<b>CO5</b>	Students will be able to evaluate heat exchanger performance for the given geometry and boundary conditions and design suitable heat exchanger geometry to deliver a desired heat transfer rate.

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**Xiaolong Qi**

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