



HEAT TRANSFER

Course Number	MET 421
Course Name	Heat Transfer
Credit Value (Breakdown of theory and lab credits)	3T+0L
Catalog Course Description	The focus of this course is on learning the fundamentals of heat transfer mechanisms and to apply them on practical engineering problems. Students will study different modes of heat transfer such as conduction, convection and radiation and apply them to solve engineering problems. They will be introduced to both steady and unsteady heat conduction problems. Students will also study different heat exchangers and analyze their performance.
Student Learning Outcomes/Objectives /Competencies of the Course	<ul style="list-style-type: none"> • Knowledge of different heat transfer modes and their applications. • Ability to analyze practical conduction heat transfer problems for steady and unsteady applications. • Understanding of convective heat transfer processes for internal and external flows and knowledge of free convection heat transfers. • Analysis and performance calculation of various heat exchangers. • Knowledge of radiation heat transfer processes, ability to calculate radiation exchange between surfaces.
College-Wide Student Learning Outcomes	Critical Thought

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