



HANYANG UNIVERSITY

Hanyang International Summer School

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	Department	Mechanical Engineering					
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Course Information	Class No.	TBA	Course Code	MEE4001	Credits	3	
	Course Name	Heat Transfer					
	Lecture Schedule	Mon-Thu /					
	Course Description	The transport mechanisms of heat can be classified as conduction, convection (forced and natural), radiation, and combination of these. With the concept on transport mechanisms of heat, the method of setting-up energy balance equation for given engineering systems and the mathematical solution of each energy balance equation will be studied.					
	Course Objective	Understanding of basic concepts of heat transfer mechanism including conduction, convection, and radiation.					
	Prerequisite						
	Materials/Textbooks	Heat and Mass Transfer / Yunus A. Cengel / McGraw-Hill					
Evaluation	Attendance	10%	Quiz	%			
	Assignment	%	Mid-term Exam	40%			
	Presentation	%	Final Exam	40%			
	Group Project	%	Participation	10%			
	Etc.	Evaluation Item			Ratio		
					%		
			%				
Daily Lecture Plan	Week 1	Day 1	Orientation				
		Day 2	Introduction to heat transfer				
		Day 3	Steady state conduction 1				
		Day 4	Steady state conduction 2				
	Week 2	Day 1	Steady state conduction 3				
		Day 2	Steady state conduction 4				
		Day 3	Steady state conduction 5				



		Day 4	Applications of steady state conduction
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	Week 3	Day 1	Midterm
		Day 2	Transient heat conduction 1
		Day 3	Transient heat conduction 2
		Day 4	Transient heat conduction 3
	Week 4	Day 1	Numerical Methods in Heat Conduction
		Day 2	Numerical Simulation of Heat Transfer 1
		Day 3	Numerical Simulation of Heat Transfer 2
		Day 4	Final Exam