



# HANYANG UNIVERSITY

## Hanyang International Winter School

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	<b>Home University</b>	Hanyang University					
	<b>Department</b>	Mechanical Engineering					
	<b>Homepage</b>	<a href="https://microsystemhy.wixsite.com/mind">https://microsystemhy.wixsite.com/mind</a>					
<b>Course Information</b>	<b>Class No.</b>	18531	<b>Course Code</b>	MEE4001	<b>Credits</b>	3	
	<b>Course Name</b>	Heat Transfer					
	<b>Lecture Schedule</b>	Mon-Fri / 13:00~17:30					
	<b>Course Description</b>	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.					
	<b>Course Objective</b>	Understanding of basic concepts of heat transfer mechanism including conduction, convection, and radiation.					
	<b>Prerequisite</b>						
	<b>Materials/Textbooks</b>	Heat and Mass Transfer / Yunus A. Cengel / McGraw-Hill					
<b>Evaluation</b>	<b>Attendance</b>	10%	<b>Quiz</b>	%			
	<b>Assignment</b>	%	<b>Mid-term Exam</b>	40%			
	<b>Presentation</b>	%	<b>Final Exam</b>	40%			
	<b>Group Project</b>	%	<b>Participation</b>	10%			
	<b>Etc.</b>	<b>Evaluation Item</b>			<b>Ratio</b>		
					%		
			%				
<b>Daily Lecture Plan</b>	<b>Day 1</b>	Orientation & Introduction to Heat Transfer					
	<b>Day 2</b>	Steady-State Conduction 1					



	<b>Day 3</b>	Steady-State Conduction 2
	<b>Day 4</b>	Steady-State Conduction 3
	<b>Day 5</b>	Midterm
	<b>Day 6</b>	Numerical Methods in Heat Conduction1
	<b>Day 7</b>	Numerical Methods in Heat Conduction2 / Heat Convection
	<b>Day 8</b>	Hands-on Experience 1
	<b>Day 9</b>	Hands-on Experience 2
	<b>Day 10</b>	Final Exam