



# HANYANG UNIVERSITY

## Hanyang International Summer School

<b>Faculty Information</b>	<b>Name</b>	Hongyun So					
	<b>E-mail</b>	hyso@hanyang.ac.kr					
	<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>	18060	<b>Course Code</b>	MEE4001	<b>Credits</b>	3	
	<b>Course Name</b>	Heat Transfer					
	<b>Lecture Schedule</b>	Mon-Thu /9:00~12:00 AM					
	<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>Week 1</b>	Day 1	Opening Ceremony				
		Day 2	Introduction to heat transfer				
		Day 3	Steady state conduction 1				
		Day 4	Steady state conduction 2				
	<b>Week 2</b>	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
--	--	-------	---

	<b>Week 3</b>	Day 1	Midterm
		Day 2	Transient heat conduction 1
		Day 3	Transient heat conduction 2
		Day 4	Transient heat conduction 3
	<b>Week 4</b>	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