



HANYANG UNIVERSITY

Hanyang International Summer School

Faculty Information	Name	Sang-Gyu Park				
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	Home University	Hanyang University				
	Department	Department of Electronic Engineering				
	Homepage	http://cas.hanyang.ac.kr				
Course Information	Class No.	18080	Course Code	ISS1171	Credits	3
	Course Name	Introduction to Microelectronics				
	Lecture Schedule	Mon-Thu /13:00~16:00				
	Course Description	This is an introductory course on microelectronics, which covers basic semiconductor physics, semiconductor devices and circuits..				
	Course Objective	To understand the operational principles of semiconductor devices To understand the operation principles of electronic circuits and become and learn how to design them				
	Prerequisite	-				
	Materials/Textbooks	Fundamentals of Microelectronics, 3rd ed., Razavi, Wiley				
Evaluation	Attendance	10%	Quiz	%		
	Assignment	%	Mid-term Exam	40%		
	Presentation	%	Final Exam	50%		
	Group Project	%	Participation	%		
	Etc.	Evaluation Item			Ratio	
Daily Lecture Plan	Week 1	Day 1	Opening Ceremony			
		Day 2	Chapter 2: Basic Semiconductor Physics			
		Day 3	Chapter 2: Basic Semiconductor Physics			
		Day 4	Chapter 3: Diode Models and Circuits			
	Week 2	Day 1	Chapter 4: Physics of Bipolar Transistor			
		Day 2	Chapter 6: Physics of MOS Transistors			
		Day 3	Chapter 6: Physics of MOS Transistors			
		Day 4	Midterm Exam			
	Week	Day 1	Chapter 7: CMOS Amplifiers			



	3	Day 2	Chapter 7: CMOS Amplifiers
		Day 3	Chapter 7: CMOS Amplifiers
		Day 4	Chapter 5: BJT Amplifiers
	Week 4	Day 1	Chapter 5: BJT Amplifiers
		Day 2	Chapter 8: Operational amplifier as a black box
		Day 3	Chapter 8: Operational amplifier as a black box
		Day 4	Final Exam