

Course Title	()	()	Semi conducting Materials
--------------	-----	-----	---------------------------

() Lecturer	()	/ / (Course No. /)	005918/ /3
(/HP) Contact No.		/ (Class Hour/Venue)	13:30-15:00 / 210
(Course Prerequisite)		(Target Student)	3
E-mail (E-mail Address)		/Office Hour (Office/Office Hour)	15:00-17:00

(Objectives)	carrier band, charge diode, solar cell, LED (#1) p-n (metal-oxide-semiconductor) transistor (#2) (VLSI) MOS DRAM, SRAM, Flash memory ()
CQI (Continuous Quality Improvement Plan)	-
(Text book & References)	Hu, "Modern Semiconductor Devices for Integrated Circuits", Pearson (2010)
(Assignment book)	Pierret, "Semiconductor Device Fundamentals", Addison-Wesley (1995)
(Lecture Methods)	- - - -
(Assignment)	1) 1 (Electrons and Holes in Semiconductors) 2) 2 (Motion and Recombination of Electrons and Holes) 3) 4 (PN and Metal-Semiconductor Junctions) 4) (www.isedex.org, 10/26-28, COEX) 5) 5 (MOS Capacitor) 6) 가
(Reading Materials)	
가 (Course Grading)	[가] (%) : 40, (%) : 30, 가 (%) : 20, (%) : 10, Midterm 1 (20%), Midterm 2 (20%), Final (30%), 가 (20%), (10%)
(Etc.)	- - - 2 1

(:)

(Week)	(Course Contents)	(Etc.)	
1			
2	Carrier (Ch.1)		
3	Carrier (Ch.1)		
4	Carrier (Ch.2)		
5	Excess Carrier (Ch.2)		
6	1 / PN Junction (Electrostatics) (Ch.4)		
7	PN Junction Diode (Ch.4)		
8	Optoelectronic Devices (Ch.4)		

(:)

(Week)	(Course Contents)	(Etc.)	
9	Metal -Semi conductor Junctions (Ch. 4)		SEDEX
10	2 / MOS Capaci tor (Ch. 5)		
11	MOS Capaci tor (Ch. 5)		
12	MOS Transistor (Ch. 6)		
13	(Team Project)	Team Project	
14	MOS Transistor (Ch. 6)		
15	Memory : SRAM, DRAM, FI ash (Ch. 6)		
16			

<p style="text-align: center;">가 1 (Additional Guide1)</p>	<p style="text-align: center;">()</p> <p>Students who require special assistance (including special needs students) may contact their professors during the first week of the semester to discuss issues related to attendance, lectures, assignments and exams and request learning assistance.</p>
	<p>pdf pptx 1/2</p> <p>가 0 ()</p> <p>가 0 ()</p>
<p style="text-align: center;">가 2 (Additional Guide2)</p>	<p style="text-align: center;">가</p> <p>0</p> <p>term paper '0'</p> <p>'F'</p> <p>()</p>