

Course Title	( )	( )	Semiconductor nanodevices
--------------	-----	-----	---------------------------

( ) Lecturer	( )	/ / (Course No. /)	009020/ /3
( /HP) Contact No.		/ (Class Hour/Venue)	
(Course Prerequisite)		(Target Student)	3~4th grade
E-mail (E-mail Address)		/Office Hour (Office/Office Hour)	10:00 am ~ 8:00 pm

(Objectives)	가 physics MOSFET, Bipolar transistor, FINFET 가 The purpose of this class is to understand the basic physics of semiconductor devices. Those students who want to get a job in the semiconductor, displays, optoelectronics, or general electronic fields are strongly encouraged to take this class since the physics of semiconductor devices are very important for those job.
CQI (Continuous Quality Improvement Plan)	
(Text book & References)	Semiconductor Physics and Devices (basic principles) -Third edition Author: Donald A. Neamen : McGRAW-HILL
(Assignment book)	
(Lecture Methods)	Powerpoint presentation. The lecture will be given in English ( )
(Assignment)	1. 2. 3. 4. 5.
(Reading Materials)	
가 (Course Grading)	[ 가] (%) : 30, (%) : 40, 가 (%) : 20, (%) : 10, (30)%, (40)%, 가 ( )%, (10)%, (20) %
(Etc.)	The lecture will be given in English ( )

( : )

(Week)	(Course Contents)	(Etc.)	
1	Introduction Review of semiconductor physics 1		
2	Review of semiconductor physics 2		
3	Ch. 10 Basics of MOSFET		
4	Ch. 10 Basics of MOSFET		
5	Ch. 11 Extension of MOSFET		
6	Ch. 11 Extension of MOSFET		
7	Ch. 11 Extension of MOSFET		
8	Midterm test		

( : )

(Week)	(Course Contents)	(Etc.)	
9	Ch.12 Bipolar transistor		
10	Ch.12 Bipolar transistor		
11	Ch. 13 Junction Field Effect transistor		
12	Ch. 13 Junction Field Effect transistor		
13	Ch.14 Optical devices		
14	Ch. 15 Semiconductor RF and Power devices		
15	Modern Semiconductor devices (FINFET..)		
16	Final term test		

<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 style="text-align: center;">가 2 (Additional Guide2)</p>	