2015   2

Course Title	( )		( )	Semiconductor Processing for Nano Technology

( ) Lecturer	( )	/ / (Course No. /)	007272/ /3	
(/HP) Contact No.		/ (Class Hour/Venue)		
(Course Prerequisite)	Semiconductor nanodevices ( )	(Target Student)	Students interested in semiconductor devices and process	
E-mail (E-mail Address)		/Office Hour (Office/Office Hour)	810 , 403	

(Objectives)	The aim of this class is to learn several module process and integration process for making semiconductor devices.
	
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CQI (Continuous Quality Improvement Plan)	
(Text book & References)	Fundamentals of Semiconductor Fabrication (Gary S.May. Simon M.Sze, Wiley International Edition)
(Assignment book)	
(Lecture Methods)	The class is to be taught based on the contents of the refernce book. .
(Assignment)	
(Reading Materials)	Semiconductor Physics and Devices (basic principles) -Third edition Author: Donald A. Neamen Publisher: McGRAW-HILL
(Course Grading)	[ ] (%) : 30, (%) : 40, (%) : 20, (%) : 10, Midterm Exam(30~40%), Finalterm Exam. (40~50%), Project(0~20%), Attention (10~20%)
(Etc.)	This class is taught in english.

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(Week)	(Course Contents)	(Etc.)	
1	1ch. Introduction		
2	2ch. Crystal Growth		
3	3ch. Silicon Oxidation		
4	3ch. Silicon Oxidation 4ch. Lithography		
5	4ch. Lithography		
6	5ch. Etching		
7	6ch. Diffusion		
8	Midterm examination		

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(Week)	(Course Contents)	(Etc.)	
9	6ch. Diffusion		
10	7ch. Ion Implantation		
11	7ch. Ion Implantation 8ch. Film Deposition		
12	8ch. Film Deposition		
13	9ch. Process Integration		
14	10ch. IC manufacturing		
15	10ch. IC manufacturing		
16	Final term examination		

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	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.
1 (Additional Guide1)	Those who would like to work in the fields like, semicoductor industry, solar cell, LED, display industry should take this class. , , LED .
2 (Additional Guide2)	