

(Syllabus)

[1] (Basic Information)					
<u>(Course Information)</u>					
/	2023 / 1	(Campus)		(Seoul Campus)	
(Year/Semester)					
(Course No.)	56734	(Class No.)	01	(Credit)	3
(Course Title)	(QUANTUM ELECTRONICS)	/		(Time/Room)	
(Course Classification)	(elective major course)	(Lecture Type)		(Lone-teaching course)	
(Course Type)	(Theoretical course)	(Medium of Instruction)			
(Accreditation)		(Accreditation of Engineering Education)			
(College)	ICT (College of ICT Engineering)	() (Department)		ICT	
e - class (Usage of e - class)	Yes				
<u>(Instructor Information)</u>					
(Name)	(Min - Hwi Kim)	(Department)		(School of Electrical and Electronics Engineering)	
(Office Phone No.)	02 - 820 - 5574	(Contact No.)		02 - 820 - 5574	
E - mail (E - mail)	minhwi@cau.ac.kr	(Department Phone No.)		02 - 820 - 5285	
가 (Office Hour)	14 - 15 (1)	(Office Location)		310 625	
(Course Web - site)	http://eclass3.cau.ac.kr				

[2] / (Learning Objectives/Outcomes)		
<u>(Course Description)</u>		
/ / , , .		
<u>(Prerequisites and Co-requisites)</u>		
<u>(Learning Objectives)</u>		
, , PN , MOSFET		
<u>(Learning Outcomes)</u>		
[3] (Course Methods)		
<u>(Teaching and Learning Methods)</u>		
(Teaching and Learning Methods)	가 (Additional Description)	
(Lecture)		
<u>(Assignments)</u>		
(Assignments)	(No.)	(, ,)(Assignments Description)
(Practice)	3	
<u>(Textbooks, Reading, and other Materials)</u>		

[4] 가 (Student Assessment)		
가 (Assessment Item)	가 (%) (Assessment Ratio)	가 (Additional Description)
/ (Participation/Attitude)	10	/ /
(Assignment)	20	
(Mid - term Exam)	30	
(Final Exam)	40	

[5] (Course Schedule)				
(Week)	(Instructor)	(Topic & Content)	(Student Assignment)	가 (Additional Description & Instructor Assignment)
1	(Min - Hwi Kim)	Quantum Mechanics (1)		
2	(Min - Hwi Kim)	Quantum Mechanics (2)		
3	(Min - Hwi Kim)	Quantum Mechanics (3)		
4	(Min - Hwi Kim)	Energy Bands and Charge Carriers (1)		
5	(Min - Hwi Kim)	Energy Bands and Charge Carriers (2)		
6	(Min - Hwi Kim)	Carrier Transport in Semiconductors (1)		
7	(Min - Hwi Kim)	Carrier Transport in Semiconductors (2)		
8	(Min - Hwi Kim)	Miterm Exam.		
9	(Min - Hwi Kim)	Semiconductor Junction (1) Introduction		
10	(Min - Hwi Kim)	Semiconductor Junction (2) P/N Type		
11	(Min - Hwi Kim)	Semiconductor Junction (3) Metal/Semiconductor Type		
12	(Min - Hwi Kim)	Field-Effect Transistor (1)		
13	(Min - Hwi Kim)	Field-Effect Transistor (2)		
14	(Min - Hwi Kim)	Quantum Computing (1)		
15	(Min - Hwi Kim)	Quantum Computing (2)		
16	(Min - Hwi Kim)	Final Exam.		
[6] (Guide to Learning)				
e - class .				
(Previous Exam Samples)				
< 가 >(<Download Additional Sample>)				
가 .				

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(In pursuant to the Article 71 "Discipline " of the Chung-Ang University Regulations, and Article 47 "Punishment for Cheating during Examination " under Chapter 6 of the Academic Affairs Management Rules, any student caught engaging in academic misconduct during an exam will be subject to disciplinary action.)

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2. : , , 가
3. / : 가 , 가
4. : 02-820-6577~9(), 031-670-4816()
(cauable)

In this class, students with disabilities are eligible for reasonable accommodations depending on the type and severity of disability. If you wish to receive accommodations listed below, please contact the Support Center for Students with Disabilities.

1. Visual Impairment: Braille, large print, electronic class materials, volunteer note-taker, adjustments in assessment practices, etc.
 2. Hearing Impairment: Volunteer note-taker, stenographer, adjustments in assessment practices, etc.
 3. Physical Disabilities/Brain Lesions: Classrooms with wheelchair access, volunteer note-taker, adjustments in assessment practices, etc.
 4. Accommodations for students with other psychiatric disabilities or health impairments can be arranged through the Support Center for Students with Disabilities after consultation.
- Inquiry: 02-820-6577~9 (Seoul Campus), 031-670-4816 (Anseong Campus)
- KakaoTalk Plus Friend ID: @cauable