

(SYLLABUS)

1.

(Course Title)		(Instructor)			
(Year)	2026	(Semester)	2	(Course No.)	2150128701
(Class)	01	(Open to)	2, 3, 4	(Course Classification)	-
/	3.0 / 03 / 3		100	가	가
(Office)	408	(Telephone)	02-820-0976	(e-mail)	roger@ssu.ac.kr
	(PBL), (FL), (TBL)				
	(*) (ABEEK Classification)		(*) (ABEEK Requirement)		
(Course Description)	IC Interface, (D, NAND, SSD) Flow (3DIC, CPU, GPU, CIS, DDI, AI)				

가	(100)	(100%)
	15	15
	35	35
	40	40
	10	10

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(Required Texts)		* / (pdf)/ /2024
	()	* / / /2024
	- Engaged Learning + (1) - , Q&A() - - , 가	

2.

(Week)	(Keyword)	(Description)		(Texts)
01		- () - - Supply Chain -	,	PPT 22 50
02		- : MOSFET, FinFET, GAA - : EUV - Mechanism	,	PPT 31 62
03		- 가 -	,	PPT 23 72
04	Automatic Design Methodology	- EDA - F/E B/E Design (Synthesis/STA/ATPG/CTS) -	,	PPT 27 62
05	SOC	- SOC - CPU - GPU, NPU, MCU, SOC Integration	,	PPT 35 70
06	3D IC	- Chiplet 3D IC Packaging Technology - HBM - Packaging	, ,	PPT 29 70
07	DRAM	- DRAM - DRAM HBM - CXL	, ,	PPT 33 74
08	NAND Flash	- NAND Flash - SSD - NVM	, ,	PPT 36 55
09		Engaged Learning Project ()	,	
10	Image Sensor	- Camera Image Sensor - Image Signal Processing - Image Sensor	, ,	PPT 31 74
11	IC	- Display Panel (LCD) - Mobile DDI, Panel DDI, TCON - OLED OLEDoS	, ,	PPT 26 55

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12	AI	- AI - AI가 - AI	, ,	PPT 25 85
13	Security IC Engaged Learning Project	- Cryptography Security Protection - Security - Security - Engaged Learning Project	, , ,	PPT 25 61
14	Engaged Learning Project	Engaged Learning Project	,	
15		가		

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3. ()

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	Open-ended problem		
	Teamwork		
	Communication skills		