

(SYLLABUS)

1.

(Course Title)		(Instructor)			
(Year)	2025	(Semester)	1	(Course No.)	2150128501
(Class)	01	(Open to)	3, 4	(Course Classification)	-IT / -
/	3.0 / 03 / 3		100	가	가
(Office)	107	(Telephone)	02-828-7164	(e-mail)	yslee@ssu.ac.kr
	(FL), (PBL)		+		2023
	(*) (ABEEK Classification)		(*) (ABEEK Requirement)		
(Course Description)	ARM ARM				

ARM ARM	

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	100	30
	100	30
	100	30
	100	10

## (SYLLABUS)

(Required Texts)		* /ARM System on chip architecture/Steve Furber/Addition-Wesley/2003/2/
	( )	* /ARM System Developer's Guide/A. N. Sloss/Morgan Kaufmann/2004* //2023
	Engaged Learning+	가 “ ” “ ” “ ” 3 가 가 .
	Engaged learning+	. + . 가 .

2.

(Week)	(Keyword)	(Description)		(Texts)
01	Introduction to microprocessor	An introduction to processor design		1
02	Processor example	Design of MU0 processor	, ,	1
03	ARM architecture	Programmers model and development tools	, ,	2
04	Assembly programming	ARM assembly language programming (1) - Data processing, data transfer, control flow		2
05	Assembly programming	ARM assembly language programming (2) - Writing simple assembly language programs Assembly tool	, , , , , ,	3
06	ARM organization	ARM organization and implementation - Pipeline organization, instruction execution, and implementation, data processing	, ,	4
07		(midterm exam)		
08	ARM instruction set	register transfer, program examples	, ,	5
09	ARM instruction set	Exception, branch, SWI	, ,	5
10	High level Language	Architectural support for high level language - Data type, expression, conditional statement, loop, function and procedure	, ,	6
11	System Development	Architectural support for system development (1) - Memory interface, AMBA		8
12	System Development	Architectural support for system development (2) - Reference peripheral specification, DMAC, GPIO	, ,	8
13	Design Example	FIR filter system Coding project for FIR filter system	,	

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14		(Final Exam)		
15	Interrupt	Interrupt mechanism	,	

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3. ( )

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	Open-ended problem		
	Teamwork		
	Communication skills		