

(SYLLABUS)

1.

(Course Title)		(Instructor)			
(Year)	2022	(Semester)	2	(Course No.)	2150507501
(Class)	01	(Open to)	2 - IT ()	(Course Classification)	-IT
(Credit)	3.0 (0)		03		100
					(LMS X)
(Office)	302	(Telephone)	02-828-7150	(e-mail)	sungju.ryu@ssu.ac.kr
	(PBL				
	(*) (ABEEK Classification)		(*) (ABEEK Requirement)		
(Course Description)	. Instruction, Computing Unit, Memory, I/O Engaged Learning:				

가	(100)	
	100	40
	100	40
	100	5
	100	15

(Required Texts)		* / ()
	()	* /Computer Organization and Design/David Patterson, John Hennessy/MK/

(SYLLABUS)

2.

(Week)	(Keyword)	(Description)		(Texts)
01	H/W Design	Introduction to H/W Designs	,	01
02	Combinational Logic	Introduction to combinational logic, Implement an encoder	,	02
03	Sequential Logic	Introduction to sequential logic, Clock, Flip flop, Implement a counter	,	03
04	Register File	Introduction to RISC-V, Implement a register file	,	04
05	Arithmetic Logic	Shifter, Arithmetic Logic Unit (ALU)	,	05
06	Instruction Set Architecture	Instruction Memory, Program Counter	,	06
07	Instruction Set Architecture	Decoder, Review(Midterm)	,	07
08	Midterm Exam	Midterm Exam ()		Midterm Exam
09	Instruction	Branch Instruction, Load/Store Instruction	,	08
10	RISC-V	RISC-V Core Integration	,	09
11	AMBA Bus	Introduction to Bus: AHB Master/Slave, AHB Interconnection	,	10
12	IO Device	Introduction to Display panel, LCD Drive, LCD Drive Bus Interface	,	11
13	System Integration	SoC System Integration, Review(Final)	,	12
14			,	13
15	Final Exam	Final Exam ()		Final Exam

(SYLLABUS)

[]

65 2
,
가

,가

가

[]

:
:
:
:
/
:
/

[가]

/ / :
/
:
가

(02-820-0060)

(SYLLABUS)

3. ()

()			
	가/		
	/		
	/		
	/		
	Open-ended problem		
	Teamwork		
	Communication skills		