

(SYLLABUS)

1.

(Course Title)		(Instructor)			
(Year)	2026	(Semester)	2	(Course No.)	2150083201
(Class)	01	(Open to)	2, 3, 4	(Course Classification)	-
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(Office)	214	(Telephone)	02-829-8228	(e-mail)	mju20@ssu.ac.kr
	(PBL)				
	(*) (ABEEK Classification)		(*) (ABEEK Requirement)		
(Course Description)					

가	(100)	(100%)
	100	5
	100	20
	100	25
	100	7
EL	100	12
EL	100	25
EL	100	6

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(Required Texts)		
	()	* /Basic Engineering Circuit Analysis, 12th ed./J. David Irwin & R. Mark Nelms/Wiley/12th edition * // /2023
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2.

(Week)	(Keyword)	(Description)		(Texts)
01	Ch1. Overview, Ch2.Resistors			
02	Ch3. Nodal analysis, Ch4. Analysis technique	Resistor Nodal analysis, Source superposition		
03	Ch5. 가	Thevenin 가		
04	Ch6. Op amp, Ch7. Capacitors, Inductors	Op amp가 C, L		
05	Ch8. 1st order transient circuits, Ch9. 2nd order transient circuits part1	C L transient response		
06	Ch9. 2nd order transient circuits part2	C L transient response		
07	Ch10 Impulse response	Impulse response		
08	EL /	EL ,		
09	Ch11 Phasor, Impedance	Phasor Impedance		
10	Ch12 Frequency response Bode plot	Frequency response Bode plot		
11	Ch13(1) inverse Laplace transform, PSPICE	Laplace transform , PSPICE	, , ,	
12	Ch13(2) inverse Laplace transform	Laplace transform inverse transform		
13	Ch14 S-domain	S-domain Engaged Learning: , ,		
14	Engaged Learning Project	Engaged Learning: ,		
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3. ()

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	Open-ended problem		
	Teamwork		
	Communication skills		