2024Year 1st Semester Syllabus

Created Date 2024-01-08 17:			13:52		Last-Modified 2024-01-08 17:13:52				
Course Title	BASIC CIRCUIT THEORY				Course Code-Section	EEE2010-04			
Credit/Time/ Experiment,Lab,Pr actical Technique Time	3/Mon5,6	5,Wed5	5		Department	Electrical and E	ing		
Time	Mon5,6,Wed5				Location	EngHB039			
Exam Date & Time	Midterm exam				Final exam				
Class Language	English				Evaluation Type	Absolute evalua			
	Name		Yu Ki Jun			Telephone			
Instructor's Profile	Department		전기전자공학부		Contact	Mail	kijunyu@yonsel.ac.kr		
	Office			· 	Information	Interview information			
[1		1	1	1		
TA's Name & Contact Name Information				Contact Information	Telephone				
Course Description Brief Introduction of the Course		basic RLC circuits, circuit theorems, Op Amp, sinusoidal steady-state analysis, frequency respons Laplace transform.							
Course Goals			Korean	수동 전기 회로의					
		1.	English	Students will lea	40%				
			Korean	키르히호프의 법칙	닉, RLC 회로, Operat	관한 내용을 배운	<u> </u>		
		2.	English	Students will lea Operational Am	30%				
			Korean	정현파 정상 상태	30%				
		3.	English	Students will lea Response, and L					
		4	Korean	an					
		4.	English						
		5	Korean						
		.ر	English						



Core Competencies		The total measurable competencies must be 100%. Each course objective should set the competency as 25%. The core and major competencies should equal at least 50%.														
		Basic Academic Ability			60% Methe		ema	matical Thinking			20% Logical Thinl		Think	ing	2	.0%
Sub-Competencies/Learning Unit1																
Sub-Compete Unit2	encies/Learning															
Sub-Compete Unit3	encies/Learning															
Core Competencies(Liberal Arts)Major competency(Must reflect the interrelationship between core competencies (elective courses) and major competencies (major studies).														
Basic Academic Ability		This course requires Engineering Mathematics as a preliquisite.														
Sustainable D Goals	evelopment															
Average Reco Amount of Le	ommended earning per	Average Readir Volume	ng				Ave wri		Avera writin	ge amount of g(Based on A4)		of A4)				
Course Methods (%)		Lecture		Practice Trai			Presentatio		tation	Dabat		Dabate	Team Proje		am Project	t
Total Amoun	t 100	10	0%	%		0%			()%			0%		0%	
Course Methods 2		PBL Subject	t	Capstone De		esign	yn CBL, So Innovation		Social n Cour	rse Flipped Cla		d Classro	assroom		Work Experience, Internsh	
	nt items	,								_						
Grading Polic Total Amoun	t 100	Midterm exam	Final exam		Quiz			Individual Assignment A		Team Assignment Attend		tenda	ance Others			
Free Input fo Information	r Other	30%	40%		» 0'		%		20%		0%			10%		0%
		Title of Assignment/Project Name Method of Filling Out				, and		Submission Deadline			Type of Submission and Method					
Assignment/ Report, Project Guide																
Prerequisite		Engineering mathematics, Differential Equations					Oi Ad	Online Course LearnUs Address								
Course Course Mat		aterial Name		Author			Publisher			Publish Year		ear	ISBN			
주교재 Electric Circuits(Global Edition)	Jam Nilss A. R	James W. Nilsson^Susan A. Riedel		Pearsor		n			2019		9781292261041			
부교재 Introduction to I Global Edition		Electric Circuits(Jam Svol Rich	James A. Svoboda & Richard C. Dorf		Wiley				2019		ç	9781119454151			

Main Learner Precautions	2nd year EE students Attendance: 10% Projects and Homework: 20% Midterm Exam: 30% Final Exam: 40%



Attatchment	

Weekly Plan

week	Period	Weekly Topic & Contents	Remarks	
1	2024-03-02 2024-03-08	Introduction Electric circuit variables	(3.2.) Spring semester classes begin (3.6 3.8.) Course add and drop period	
2	2024-03-09 2024-03-15	Circuit Elements		
3	2024-03-16 2024-03-22	Simple Resistive Circuits		
4	2024-03-23 2024-03-29	Techniques of Circuit Analysis		
5	2024-03-30 2024-04-05	The Operational Amplifier		
6	2024-04-06 2024-04-12	Inductance, Capacitance, and Mutual Inductance	(4.8.) First third of the semester ends 04.10 국회의원선거	
7	2024-04-13 2024-04-19	Response of First-Order RL and RC Circuits		
8	2024-04-20 2024-04-26	Natural and Step Responses of RLC Circuits Midterm	(4.20 4.26.) Midterm Examinations	
9	2024-04-27 2024-05-03	Sinusoidal Steady-State Analysis	(4.29 5.1.) Course withdrawal period (5.2 5.3.) Application period for S/U evaluation	
10	2024-05-04 2024-05-10	Sinusoidal steady-state analysis	(5.2 5.4.) Application period for S/U evaluation (5.5.) Children's day (5.6.) Alternative holiday for Children's Day 05.05 어린이날, 05.06 대체공휴일(어린 이날)	
11	2024-05-11 2024-05-17	Sinusoidal Steady-State Power Calculations	(5.15.) The day of Buddha's coming, Second third of the semester ends 05.15 부처님오신날	
12	2024-05-18 2024-05-24	Frequency response		
13	2024-05-25 2024-05-31	Frequency response		
14	2024-06-01 2024-06-07	Laplace transform	(6.6.) Memorial day 06.06 현충일	
15	2024-06-08 2024-06-14	Review	(6.8 6.14.) Self-study	
16	2024-06-15 2024-06-21	Final exam	(6.15 6.21.) Final Examinations	



• Students with disabilities(SWDs) can request accommodations related to lectures, assignments, or tests by contacting t

he course professor at the beginning of semester.

(However, accommodations may vary depending on the essentiality of lecture and discretion of professors.) [Lecture]

- Visual Impairment: alternative, braille, enlarged reading materials, note-taker
- Physical Impairment: alternative reading materials, access to classroom, note-taker, assigned seat
- Hearing Impairment: note-taker/stenographer, recording lecture
- Intellectual Disability/Autism: note-taker
- [Assignments and Test]

- Visual/Physical/Hearing Impairment: (reasonable) extra days for submission, alternative type of assignment, extende

- d test time, alternative type of test, arranging separate test room, and proctors, test ghostwriter
- Intellectual Disability/Autism: (reasonable) extra days for submission, alternative type of assignment

