2024Year 2nd Semester Syllabus

Created Date	2024-08-	14 10:3	33:18		Last-Modified	2024-09-26 13:24:29				
Course Title	DATA STRUCTURE AND ALGORITHMS				Course Code-Section	EEE2020-01				
Credit/Time/ Experiment,Lab,Pr actical Technique Time	3/Tue7,Th	าน6,7			Department	Electrical and	Electronics Enginee	ring		
Time	Tue7,Thu6,7				Location	EngHB039				
Exam Date & Time	Midterm exam				Final exam					
Class Language	English	English			Evaluation Type	ation				
	Name Department		Kim Jongyoo			Telephone				
Instructor's Profile			전기전자공학부	 P	Contact Information	Mail	JY.KIM@YONSEI.AC.KR			
	Office		MMAI Lab		_	Interview information	Thursday from 9-11 AM or by appointment.			
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TA's Name & Contact Information	Name		김재훈		Contact Information	Telephone				
Course Description Brief Introduction of the Course		techniques. The course includes C++ programming assignments and projects. * Please note that the course is taught using the C++ language. * The audience is assumed to be familiar with basic programming concepts. * 본 강좌는 PBL (Project-Based Learning) 기반으로, 학습자 중심의 학습이며 학습자의 문제해결을 중심수강생들은 프로젝트 목표를 달성하기 위해 직접 분석적이고 비판적으로 사고해야 한다. * This course is based on Project-Based Learning (PBL), focusing on learner-centered education problem-solving by the learners. To achieve the project goals, students must engage in analytic critical thinking directly.								
	Citico	Korean								
Course Goals		1.	English	Understand C+	30%					
			Korean	다양한 자료구조	35%					
		2.	English	Understand var searching, trees						
		3.	Korean	각 자료구조 및 일	35%					
			English	Performance analysis on each data structure and algorithm						
		4.	Korean			- 0%				
	4.	English		U %						
		5	Korean					0%		
		5.		1			<u> </u>	0%		

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		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%.														
		Logical Thinking		50%		Basic Aca		ademic Ability			30%	Problem-solvi		ing Abi	lity	20%
Sub-Competencies/Learning Unit1																
Sub-Competencies/Learning Unit2																
Sub-Competencies/Learning Unit3																
Core Competencies(Liberal Arts)Major competency(Must reflect the interrelationship between core competencies (elective courses) and major competencies (major studies).														
Logical Think	ng															
Sustainable D Goals	evelopment															
Average Reco	ommended earning per	Average Reading Volume							Avera writin	ige a	amount of	of A4)				
Course Meth		Lecture		Practice Trair		ning	Presenta		tation		Dabat			Team Project		ect
Total Amoun	t 100	85		%		5%			10	0%	%		0%		0%	
Course Meth		PBL Subject		Capstone De		esign			CBL, Social novation Course		Flipped Class		sroom Experience		Work ience,Int	ternsh
Select Releva	nt Items															
Grading Police Total Amoun	t 100	Midterm exam	Fina	Final exam		Quiz		Individual Assignment		А	Team Assignment		Attendance Others		ers	
Free Input for Information	Other	25%	6 25%		0'		% 40%			0%		10% 0%		0%		
		Title of Assig Met	nment nod of	ent/Project Name, d of Filling Out		, and	Submissio Deadline				Type of Su		ubmission and Method			
Assignment/ Report, Project Guide																
Prerequisite		Introduction to C/C++ programming						Online Course Address								
Course Material Course Mate		terial Name		Author		Publisher			Publish Year		ar	ISBN				
Main Learner	Precautions	Please note that the course is taught using the C++ language. The audience is assumed to be familiar with basic programming concepts.														
Attatchment												_				



Weekly Plan

week	Period	Weekly Topic & Contents	Remarks
1	2024-09-02 2024-09-08	Course overview & Introduction to C++ programming	(9.2.) Fall semester classes begin (9.4 9.6.) Course add and drop period
2	2024-09-09 2024-09-15	Introduction to C++ programming	
3	2024-09-16 2024-09-22	Introduction to C++ programming	(9.16 9.18.) Chuseok Holidays 09.16 추석, 09.17 추 석, 09.18 추석
4	2024-09-23 2024-09-29	Struct & Class	
5	2024-09-30 2024-10-06	Constructor & Destructor	(10.3.) National Foundation Day 10.03 개천절
6	2024-10-07 2024-10-13	Array List	(10.8.) First third of the semester ends (10.9.) Hangul Proclamation Day 10.09 한글날
7	2024-10-14 2024-10-20	Linked List	
8	2024-10-21 2024-10-27	Midterm Exam	(10.21 10.27.) Midterm Examinations
9	2024-10-28 2024-11-03	Inheritance, Polymorphism	(10.28 10.30.) Course withdrawal period (10.31 11.1.) Application Period for S/U evaluation
10	2024-11-04 2024-11-10	Queue and Stack	
11	2024-11-11 2024-11-17	Student Project Presentation	(11.14.) Second third of the semester ends
12	2024-11-18 2024-11-24	Trees	
13	2024-11-25 2024-12-01	Sorting	
14	2024-12-02 2024-12-08	Operator Overloading	
15	2024-12-09 2024-12-15	Self-study	(12.9 12.15.) Self-study
16	2024-12-16 2024-12-22	Final Exam	(12.16 12.22.) 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.

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(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

