2024Year 2nd Semester Syllabus

Created Date	2024-07-21 21:11:56	Last-Modified	2024-09-03 09:47:13
Course Title	OPERATING SYSTEMS	Course Code-Section	EEE3535-01
Credit/Time/ Experiment,Lab,Practical Technique Time	3/Tue2,3,Thu3	Department	Electrical and Electronics Engineering
Time	Tue2,3,Thu3	Location	EngHD603
Exam Date & Time	Midterm exam	Final exam	
Class Language	English	Evaluation Type	Absolute evaluation

Instructor's Profile	Name	Ro Won Woo	Contact Information	Telephone	02-2123-5769
	Department	전기전자공학부		Mail	WRO@YONSEI.AC.KR
	Office	C619		Interview information	Tueday, 3PM ~ 4PM

TA's Name & Contact Information	Name	Mingu Jung, Wonho Cho, Seunghyun Lee, Jiho Park	Contact Information	Telephone	02-2123-7452

Course Description Brief Introduction of the Course	The main goals of the course include: 1. To learn various aspects of modern operating systems. 2. To learn both theory and pratice for modern operating systems. 3. To learn basic operating system concepts including process management, memory management, storage management, and I/O subsystems.

Course Goals	1.	Korean	운영체제의 여러 측면을 폭 넓게 학습	40%
		English	To learn various aspects of modern operating systems	
	2.	Korean	이론적인 면과 상용성 양쪽 측면을 모두 학습	30%
		English	To learn both theory and practice for modern operating systems	
	3.	Korean	프로세스 관리, 메모리 관리, 저장 장치 관리를 포함한 운영체제 전반에 대한 학습	30%
		English	To learn basic operating system concepts including process management, memory management, storage management, and I/O subsystems.	
	4.	Korean		0%
		English		
	5.	Korean		0%
		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%.				
	Methematical Thinking 50%	Basic Academic Ability 30%	Logical Thinking 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).**				
Methematical Thinking					
Sustainable Development Goals					

Average Recommended Amount of Learning per	Average Reading Volume		Average amount of writing(Based on A4)	

Course Methods (%) Total Amount 100	Lecture	Practice Training	Presentation	Dabate	Team Project
	70%	20%	0%	10%	0%

Course Methods 2 Select Relevant Items	PBL Subject	Capstone Design	CBL, Social Innovation Course	Flipped Classroom	Work Experience,Internsh

Grading Policy(%) Total Amount 100 Free Input for Other Information	Midterm exam	Final exam	Quiz	Individual Assignment	Team Assignment	Attendance	Others
	20%	30%	0%	15%	30%	5%	0%

Assignment/ Report, Project Guide	Title of Assignment/Project Name, and Method of Filling Out	Submission Deadline	Type of Submission and Method

Prerequisite	1. Digital Logic Circuit 2. Data Structures 3. Computer Architecture	Online Course Address	LearnUs

Course Material	Course Material Name	Author	Publisher	Publish Year	ISBN
주교재	Operating systems : three easy pieces	Arpaci-Dusseau, Remzi H	Arpaci-Dusseau Books	2014	

Main Learner Precautions	Junior or senior levelengineering students, who are interested in computer systems, operating systems, programming, and applications.
Attatchment	

Weekly Plan

week	Period	Weekly Topic & Contents	Remarks
1	2024-09-02 2024-09-08	- Course overview and review on computer systems and system software	(9.2.) Fall semester classes begin (9.4. - 9.6.) Course add and drop period
2	2024-09-09 2024-09-15	Virtualization: Processes and Processes API	
3	2024-09-16 2024-09-22	Direct Execution	(9.16. - 9.18.) Chuseok Holidays 09.16 추석, 09.17 추석, 09.18 추석
4	2024-09-23 2024-09-29	CPU Scheduling	
5	2024-09-30 2024-10-06	CPU Scheduling	(10.3.) National Foundation Day 10.03 개천절
6	2024-10-07 2024-10-13	Address Spaces & Memory API	(10.8.) First third of the semester ends (10.9.) Hangul Proclamation Day 10.09 한글날
7	2024-10-14 2024-10-20	Address Translation, Segmentation	
8	2024-10-21 2024-10-27		(10.21. - 10.27.) Midterm Examinations
9	2024-10-28 2024-11-03	Paging and TLB	(10.28. - 10.30.) Course withdrawal period (10.31. - 11.1.) Application Period for S/U evaluation
10	2024-11-04 2024-11-10	Concurrency and Threads	
11	2024-11-11 2024-11-17	Thread API	(11.14.) Second third of the semester ends
12	2024-11-18 2024-11-24	Locks	
13	2024-11-25 2024-12-01	Condition Variables, Semaphores	
14	2024-12-02 2024-12-08	I/O Devices	
15	2024-12-09 2024-12-15	Files and Directories	(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 the 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, extended 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