Tamkang University Academic Year 110, 2nd Semester Course Syllabus

Course Title	OPERATING SYSTEMS	Instructor	HUANG-WEN HUANG	
Course Class	TEIDB2B DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION ENGINEERING (ENGLISH-TAUGHT PROGRAM), 2B	Details	◆ General Course◆ Required◆ One Semester	
Relevance to SDGs	SDG4 Quality education elevance SDG9 Industry, Innovation, and Infrastructure			
	Departmental Aim of Educ	ation		
I. Compr	ehend professional knowledge.			
П. Acquir	e mastery of Practical Skills.			
Ⅲ. Establi	sh creative achievement.			
	Subject Departmental core competenc	es		
C. Impleme	enting computer systems ability.(ratio:100.00)			
	Subject Schoolwide essential virtues			
2. Informa	tion literacy. (ratio:100.00)			
Course Introduction				

The correspondences between the course's instructional objectives and the cognitive, affective, and psychomotor objectives.

Differentiate the various objective methods among the cognitive, affective and psychomotor domains of the course's instructional objectives.

I. Cognitive: Emphasis upon the study of various kinds of knowledge in the cognition of the course's veracity, conception, procedures, outcomes, etc.

II. Affective: Emphasis upon the study of various kinds of knowledge in the course's appeal, morals, attitude, conviction, values, etc.

III.Psychomotor: Emphasis upon the study of the course's physical activity and technical manipulation.

No.	Teaching Objectives	objective methods
1	Students are able to get familiar with all "managers" in operating systems	Cognitive
2	Students are able to understand operation principles of all managers in operating systems.	Affective
3	Students are able to analyze manager's functionalities in operating systems.	Cognitive
4	Students are able to integrate or understand all parts in operating systems as a whole.	Cognitive
5	Students are able to understand the importance of resource management from operating systems and their performance.	Cognitive
6	Students are able to get familiar with recent technologies in operating systems.	Cognitive
7	Enhancing students' ability to write read and speak technical English especially in the operating systems theory.	Psychomotor

The correspondences of teaching objectives: core competences, essential virtues, teaching methods, and assessment

No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1	С	2	Lecture, Discussion, Imitation	Testing, Study Assignments, Report(including oral and written)
2	С	2	Lecture	Study Assignments, Report(including oral and written)
3	С	2	Lecture, Discussion	Testing, Study Assignments, Report(including oral and written)
4	С	2	Lecture, Discussion	Testing, Study Assignments, Report(including oral and written)

5	С		2	Lecture, Discussion	Testing, Study Assignments, Report(including oral and written)
6	С		2	Lecture	Testing
7	С		2	Lecture	Testing, Study Assignments, Report(including oral and written)
				Course Schedule	
Week	Date		Соц	urse Contents	Note
1	111/02/21 ~ 111/02/25		Introduction to operating systems(1.1);A Brief Story of Machine Hardware(1.8)		
2	111/02/28 ~ 111/03/04	Memory Management: Early Systems (2.1); Single-User Contiguous Scheme(2.2)			
3	111/03/07 ~ 111/03/11	Fixed Partitions (2.3); Dynamic Partitions (2.4);			
4	111/03/14 ~ 111/03/18	Memory Management: Virtual Memory (3.1)			Shown in the Parentheses are corresponding sections in the textbook.
5	111/03/21 ~ 111/03/25	Page Replacement Policies (3.4);Segmented Memory Allocation (3.5)Segmented/Demand Paged Memory Allocation (3.6)			
6	111/03/28 ~ 111/04/01	Processor Management(4.1); Job Scheduling (4.2);			
7	111/04/04 ~ 111/04/08	Process Scheduling Policies (4.4); Process Scheduling Algorithms (4.5)			
8	111/04/11 ~ 111/04/15	Process Management (5.1); Deadlock (5.2)			
9	111/04/18 ~ 111/04/22	In-Class Exercises			
10	111/04/25 ~ 111/04/29	Midterm Exam Week			
11	111/05/02 ~ 111/05/06	Solutions to midterm; Concurrent Processes (6.1)			
12	111/05/09 ~ 111/05/13	Device Management (7.1)			
13	111/05/16 ~ 111/05/20	RAID (7.2)			
14	111/05/23 ~ 111/05/27	FILE Management (8.1)			
15	111/05/30 ~ 111/06/03	Access Methods (8.2)			
16	111/06/06 ~ 111/06/10	UNIX			

17	111/06/13 ~ 111/06/17	In-class exercises		
18	111/06/20 ~ 111/06/24	Final Exam Week		
Re	quirement	1.平時評量 means term project or small test. 10%		
Tea	Teaching Facility Computer, Projector			
Textbooks and Teaching Materials		Ida M. Flynn, Ann McIver McHoes, Understanding Operating Systems, Fourth Edition, Course Technology, 2006, ISBN 0-534-42366-3.		
R	References	Jose M. Garrido, and Richard Schlesinger, Principles of Modern Operating Systems, Jones and Bartlett Publications, Inc. 2008.		
Number of Assignment(s) 3 (Fi		3 (Filled in by assignment instructor only)		
Grading Policy		 Attendance: 10.0 % → Mark of Usual: 10.0 % → Midterm Exam: 25.0 % Final Exam: 25.0 % Other ⟨project and Homework⟩: 30.0 % 		
Note		This syllabus may be uploaded at the website of Course Syllabus Management System at http://info.ais.tku.edu.tw/csp or through the link of Course Syllabus Upload posted on the home page of TKU Office of Academic Affairs at http://www.acad.tku.edu.tw/CS/main.php . ** Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.		

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