Tamkang University Academic Year 104, 2nd Semester Course Syllabus

Course Title	OPERATING SYSTEM PRACTICES	Instructor	LIOU, AY-HWA ANDY
Course Class	TLMXB2A DEPARTMENT OF INFORMATION MANAGEMENT, 2A	Details	RequiredOne Semester2 Credits

Departmental Aim of Education

- I. Refining information management skills.
- II. Enhancing information technology capabilities.
- III. Thinking independently with logic analysis.
- IV. Reinforcing team-working spirit.
- V. Valuing business and information ethics.
- VI. Cultivating global view.

Departmental core competences

- A. Refining information management skills.
- B. Functional business Areas and business practices.
- C. Independent thinking and logical analysis.
- D. Computer programming.
- E. Information ethics.
- F. Database design and management.
- G. Analysis, design and integration of information system.
- H. Project management.

Course Introduction

After the students have basic concepts about the computer hardware and process scheduling from previous course of Operating Systems, this course focuses on advanced concepts of process synchronization, memory management, deadlocks, file systems, and secondary storage structures. Some examples of related system programs will be demonstrated too.

The Relevance among Teaching Objectives, Objective Levels and Departmental core competences

I.Objective Levels (select applicable ones):

(i) Cognitive Domain : C1-Remembering, C2-Understanding, C3-Applying, C4-Analyzing, C5-Evaluating, C6-Creating

(ii) Psychomotor Domain: P1-Imitation, P2-Mechanism, P3-Independent Operation, P4-Linked Operation, P5-Automation, P6-Origination

(iii) Affective Domain : Al-Receiving, A2-Responding, A3-Valuing, A4-Organizing, A5-Charaterizing, A6-Implementing

II.The Relevance among Teaching Objectives, Objective Levels and Departmental core competences:

- (i) Determine the objective level(s) in any one of the three learning domains (cognitive, psychomotor, and affective) corresponding to the teaching objective. Each objective should correspond to the objective level(s) of ONLY ONE of the three domains.
- (ii) If more than one objective levels are applicable for each learning domain, select the highest one only. (For example, if the objective levels for Cognitive Domain include C3,C5, and C6, select C6 only and fill it in the boxes below. The same rule applies to Psychomotor Domain and Affective Domain.)
- (iii) Determine the Departmental core competences that correspond to each teaching objective. Each objective may correspond to one or more Departmental core competences at a time. (For example, if one objective corresponds to three Departmental core competences: A,AD, and BEF, list all of the three in the box.)

	Teaching Objectives		Relevance	
No.			Departmental core competences	
1	Aware of the principle of the Operating Systems and its methods of operation.	C2	А	
2	Understand the evolvement of Operating Systems and its current trend of development.	C2	G	
3	Apply the knowledge of Operating Systems to give suggestions or analysis for the work and problems facing.	C4	С	

Teaching Objectives, Teaching Methods and Assessment

No.	Teaching Objectives	Teaching Methods	Assessment
1	Aware of the principle of the Operating Systems and its methods of operation.	Lecture, Demo, Q&A	Written test
2	Understand the evolvement of Operating Systems and its current trend of development.	Lecture, Demo, Q&A	Written test
3	Apply the knowledge of Operating Systems to give suggestions or analysis for the work and problems facing.	Lecture, Demo, Q&A	Written test

	Essential	Qualities of TKU Students	Descrip	Description	
		pective	Helping students develop a broader perspective from which to understand international affairs and global development.		
◆ Information literacy		teracy	Becoming adept at using information technology and learning the proper way to process information.		
\Diamond	A vision for th	e future	Understanding self-growth, social change, and technological development so as to gain the skills necessary to bring about one's future vision.		
		у	Learning how to interact with others, practicing empathy and caring for others, and constructing moral principles with which to solve ethical problems.		
\Diamond	Independent :	thinking	Encouraging students to keenly observe and seek out the source of their problems, and to think logically and critically.		
A cheerful attitude and healthy lifestyle		itude and healthy lifestyle	Raising an awareness of the fine balance between one's body and soul and the environment; helping students live a meaningful life.		
		mwork and dedication	Improving one's ability to communicate and cooperate so as to integrate resources, collaborate with others, and solve problems.		
		sthetic appreciation	Equipping students with the ability to se aesthetic beauty, to express themselves the creative process.	nse and appreciate clearly, and to enjoy	
			Course Schedule	,	
/eek	Date	9	Subject/Topics	Note	
1	105/02/15 ~ 105/02/21	Synchronization			
2	105/02/22 ~ 105/02/28	Synchronization			
3	105/02/29 ~ 105/03/06	Synchronization			
4	105/03/07 ~ 105/03/13	Synchronization			
5	105/03/14 ~ 105/03/20	Synchronization			
6	105/03/21 ~ 105/03/27	Deadlocks			
7	105/03/28 ~ 105/04/03	Deadlocks			
8	105/04/04 ~ 105/04/10	Deadlocks			
9	105/04/11 ~ 105/04/17	Memory Management Strategies			
10	105/04/18 ~ 105/04/24	Midterm Exam Week			
	105/04/25 ~ 105/05/01	Memory Management Strat	tegies		
11	103/03/01				

13	105/05/09 ~ 105/05/15	Virtual Memory Management		
14	105/05/16 ~ 105/05/22	Virtual Memory Management		
15	105/05/23 ~ 105/05/29	File System		
16	105/05/30 ~ 105/06/05	File System		
17	105/06/06 ~ 105/06/12	File System		
18	105/06/13 ~ 105/06/19	Final Exam Week		
Re	quirement			
Tea	eaching Facility Computer, Projector			
Te	extbook(s)	Operating System Concepts, 9th edition, by Silberschatz, Galvin, and Gagne(新月)		
Reference(s)				
Number of Assignment(s)		4 (Filled in by assignment instructor only)		
	Grading Policy	 ↑ Attendance: 10.0 %		
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 . www.acad.tku.edu.tw/CS/main.php . <a href="</td">		

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