Tamkang University Academic Year 107, 1st Semester Course Syllabus

Course Title	OPERATING SYSTEMS	Instructor	LIOU, AY-HWA ANDY	
Course Class	TLMXB2A DEPARTMENT OF INFORMATION MANAGEMENT, 2A	Details	 Required One Semester 2 Credits 	
	Departmental Aim of Educ	ation		
I. Refinin	g information management skills.			
Π. Enhand	ing information technology capabilities.			
III. Thinkir	ng independently with logic analysis.			
IV. Reinfo	rcing team-working spirit.			
V. Valuing	g business and information ethics.			
VI. Cultiva	ting global view.			
	Departmental core competences			
A. Problem analysis and critical thinking.				
B. Functior	al business Areas and business practices.			
C. Applications of information systems.				
D. Computer programming.				
E. Network system planning.				
F. Database design and management.				
G. Analysis, design and integration of information system.				
H. Project management.				
Course Introduction	This course provides an introduction to the operation concept operating systems. Specifically, the course will cover computer processes, threads and CPU scheduling. Depending on the ac course schedule, Microcodes and Queueing Theory may also material covered will be considered a basis for the advanced Systems Practices.	er system struc ctual progress be covered. T	of the he	

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 :	Pl-Imitation,	P2-Mechanism,	P3-Independent Operation,
	P4-Linked Operati	on, 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.)

				Relevance	
No.	Teaching Objectives			Departmental core competences	
1	Aware of the principle of the Operating Systems and its ways of functioning.			А	
2	Understand the devolvement of Operating Systems and its current trend of development.			А	
3	Apply the knowledge of Operating Systems to give suggestions or analysis for the work and problems facing.			CG	
Teaching Objectives, Teaching Methods and Assessment					
No.	Teaching Objectives	Teaching Methods	Assessment		
1	Aware of the principle of the Operating Systems and its ways of functioning.	Lecture, Discussion	Written test		
2	Understand the devolvement of Operating Systems and its current trend of development.	Lecture, Discussion	Written test		
З	Apply the knowledge of Operating Systems to give suggestions or analysis for the work and problems facing.	Lecture, Discussion	Written te	est	

Essential Qualities of TKU Students		Qualities of TKU Students	Description	on		
◇ A global perspective		pective	Helping students develop a broader perspective from which to understand international affairs and global development.			
• Information literacy		eracy	Becoming adept at using information technology and learning the proper way to process information.			
\diamondsuit A vision for the future		e future	Understanding self-growth, social change, and technological development so as to gain the skills necessary to bring about one's future vision.			
\diamondsuit Moral integrity		y	Learning how to interact with others, practicing empathy and caring for others, and constructing moral principles with which to solve ethical problems.			
\diamondsuit Independent thinking		hinking		Encouraging students to keenly observe and seek out the source of their problems, and to think logically and critically.		
\bigcirc A cheerful attitude and healthy lifestyle		tude 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.			
\diamondsuit A spirit of teamwork and dedication		nwork and dedication	Improving one's ability to communicate and cooperate so as to integrate resources, collaborate with others, and solve problems.			
\diamondsuit A sense of aesthetic appreciation		thetic appreciation	Equipping students with the ability to sense and appreciate aesthetic beauty, to express themselves clearly, and to enjoy the creative process.			
	1		Course Schedule	· · · · · · · · · · · · · · · · · · ·		
Week	Date	s	ubject/Topics	Note		
1	107/09/10~ 107/09/16	Introduction				
2	107/09/17~ 107/09/23	Computer System Structure				
3	107/09/24~ 107/09/30	Computer System Structure				
4	107/10/01~ 107/10/07	Computer System Structure				
5	107/10/08~ 107/10/14	Processes				
6	107/10/15~ 107/10/21	Processes				
7	107/10/22 ~ 107/10/28	Processes				
8	107/10/29~ 107/11/04	Threads				
0	107/11/05 ~	Threads				
9	107/11/11	Midterm Exam Week				
_	107/11/11 107/11/12 ~ 107/11/18	Midterm Exam Week				
9	107/11/12 ~	Midterm Exam Week CPU Scheduling				

13	107/12/03~ 107/12/09	CPU Scheduling		
14	107/12/10~ 107/12/16	CPU Scheduling		
15	107/12/17 ~ 107/12/23	Process Synchronization		
16	107/12/24~ 107/12/30Process Synchronization			
17	107/12/31~ 108/01/06	Process Synchronization		
18	108/01/07~ 108/01/13	Final Exam Week		
Requirement		TA gives the score of Mark of usual. No late turn-in for Homework or Quiz. All asking of leave should perform make-up after. (All percentages are adjustable)		
Теа	Teaching Facility Computer, Projector			
Textbook(s)		Operating System Concepts, 9th edition, by Silberschatz, Galvin, and Gagne(新月)		
Reference(s)				
Number of Assignment(s)		5 (Filled in by assignment instructor only)		
Grading Policy		 ♦ Attendance: 5.0 % ♦ Mark of Usual: 10.0 % ♦ Midterm Exam: 25.0 % ♦ Final Exam: 30.0 % ♦ Other 〈Notes, HW, quiz〉: 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. Wunauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications. 		

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