Tamkang University Academic Year 108, 2nd Semester Course Syllabus

Course Title	OPERATING SYSTEMS	Instructor	HUANG-WEN HUANG		
Course Class	TQICB2A DIVISION OF SOFTWARE ENGINEERING, DEPARTMENT OF INNOVATIVE INFORMATION	Details	 General Course Required One Semester 		
	PROGRAM), ^{2A} Departmental Aim of Educ	ation			
Cultivate pro	ofessional talents in developing and applying information system	m in various fi	elds.		
	Subject Departmental core competence	es			
E. Capabili	E. Capability of integrating information system(ratio:100.00)				
	Subject Schoolwide essential virtues				
2. Informa 3. A vision 5. Indeper 7. A spirit	 2. Information literacy. (ratio:70.00) 3. A vision for the future. (ratio:10.00) 5. Independent thinking. (ratio:10.00) 7. A spirit of teamwork and dedication. (ratio:10.00) 				
Course Introduction	The purpose of this course is to describe the theory of operation concentrates on each of the "managers" in turn and shows together. Then it introduces network organization concepts, management of network functions. In the second half-semes actual operating systems, how they apply the theories preser and how they compare with each other.	ting systems. I s how they wo security, ethic ster we will intr nted in the firs	t rk s, and roduce t half		

	The correspo	ondences between the	course's instructional objectives and the	e cognitive, affective,	
	6 1 1 1	an	d psychomotor objectives.		
Dr	Differentiate the various objective methods among the cognitive, affective and psychomotor				
uc		nstructional objectives.			
I.	Cognitive : Emphasis u	ipon the study of variou	is kinds of knowledge in the cognition of		
	the course's	veracity, conception, pr	rocedures, outcomes, etc.		
II.	Affective : Emphasis up	on the study of various	kinds of knowledge in the course's appe	al,	
	morals, attitu	ude, conviction, values,	etc.		
111	Psycnomotor: Emphas. manipulation	is upon the study of the	e course's physical activity and technical		
	manipulation				
		Teaching Ob	ojectives	objective methods	
No.					
1	Students are able to g	get familiar with all "ma	anagers" in operating	Cognitive	
	systems				
2	Students are able to u	understand operation p	rinciples of all managers	Affective	
-	in operating systems	·································		Ancenve	
3	Students are able to a	inalyze manager's fun	ctionalities in operating	Cognitive	
	systems.				
4	Students are able to i	ntegrate or understand	all parts in operating	Cognitive	
	systems as a whole.				
5	Students are able to u	understand the importa	nce of resource	Cognitive	
5	management from or	perating systems and th	eir performance	Cognitive	
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6	Students are able to g	get familiar with recent i	technologies in	Cognitive	
	operating systems.				
7	Enhancing students'	ability to write read an	d speak technical	Psychomotor	
	English especially in t	he operating systems th	neory.		
	The correspond	lences of teaching objectives	s : core competences, essential virtues, teaching m	ethods, and assessment	
No.	Core Competences	Essential Virtues	leaching Methods	Assessment	
1	E	2	Lecture Discussion Imitation	Testing Study	
T	E	2		Assignments,	
				Report(including oral and	
				written)	
2	E	27	Lecture	Study Assignments,	
				Report(including oral and written)	
- -	r.	E7		Testing Study	
3	E	5/		Assignments,	
				Report(including oral and	
				written)	
4	E	237	Lecture, Discussion	Testing, Study	
				Assignments, Report (including oral and	
				written)	

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5	E		25	Lecture, Discussion	Testing, Study Assignments, Report(including oral and written)
6	E		2	Lecture	Testing
7	7 E		23	Lecture	Testing, Study Assignments, Report(including oral and written)
				Course Schedule	
Wee	k Date		Cou	rse Contents	Note
1	109/03/02 ~ 109/03/08	Introdu Machir	uction to operating systene Hardware(1.8)	ems(1.1);A Brief Story of	
2	109/03/09~ 109/03/15	Memo Contig	ry Management: Early Sy uous Scheme(2.2)	ystems (2.1); Single-User	
3	109/03/16~ 109/03/22	Fixed F	Partitions (2.3); Dynamic	Partitions (2.4);	
4	109/03/23~ 109/03/29	Memory Management: Virtual Memory (3.1)		Memory (3.1)	Shown in the Parentheses are corresponding sections in the textbook.
5	109/03/30 ~ 109/04/05	Page Replacement Policies (3.4);Segmented Memory Allocation (3.5)Segmented/Demand Paged Memory Allocation (3.6)		4);Segmented Memory mand Paged Memory	
6	109/04/06~ 109/04/12	Processor Management(4.1); Job Scheduling (4.2);		ob Scheduling (4.2);	
7	109/04/13 ~ 109/04/19	Proces Algorit	s Scheduling Policies (4. hms (4.5)	4); Process Scheduling	
8	109/04/20~ 109/04/26	Process Management (5.1); Deadlock (5.2)			
9	109/04/27 ~ 109/05/03	Midterm Exam Week			
10	109/05/04 ~ 109/05/10	Conditions for Deadlocks (5.3); Seven Cases of Deadlocks (5.4)		Seven Cases of	
11	109/05/11~ 109/05/17	Solutions to midterm; Concurrent Processes (6.1)		ent Processes (6.1)	
12	109/05/18~ 109/05/24	Device Management (7.1)			
13	109/05/25~ 109/05/31	RAID (7.2)		
14	109/06/01~ 109/06/07	FILE M	anagement (8.1)		
15	109/06/08 ~ 109/06/14	Access	Methods (8.2)		

16	109/06/15~ 109/06/21	UNIX		
17	109/06/22 ~ 109/06/28	Final Exam Week (Date:109/6/18-109/6/24)		
18	109/06/29 ~ 109/07/05	Supplementary teaching: WINDOWS; LINUX; ANDROID		
Re	quirement	1.平時評量 means term project or small test. 10%		
Teaching Facility		Computer, Projector		
Textbo Teachir	oks and ng Materials	Ida M. Flynn, Ann McIver McHoes, Understanding Operating Systems, Fourth Edition, Course Technology, 2006, ISBN 0-534-42366-3.		
R	eferences	1. Jose M. Garrido, and Richard Schlesinger, Principles of Modern Operating Systems, Jones and Bartlett Publications, Inc. 2008.		
N Ass	lumber of signment(s)	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 <u>http://info.ais.tku.edu.tw/csp</u> or through the link of Course Syllabus Upload posted on the home page of TKU Office of Academic Affairs at <u>http://www.acad.tku.edu.tw/CS/main.php</u> . ※ Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.		

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Page:4/4 2020/3/2 17:25:58