Tamkang University Academic Year 111, 2nd Semester Course Syllabus

Course Title	OPERATING SYSTEM PRACTICES	Instructor	LIOU, AY-HWA ANDY
Course Class	TLMXB2A DEPARTMENT OF INFORMATION MANAGEMENT, 2A	Details	General CourseRequiredOne Semester
Relevance to SDGs	SDG9 Industry, Innovation, and Infrastructure		

Departmental Aim of Education

- I. Refining information management skills.
- ■. 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.

Subject Departmental core competences

- A. Problem analysis and critical thinking.(ratio:55.00)
- B. Functional business Areas and business practices.(ratio:5.00)
- C. Applications of information systems.(ratio:10.00)
- D. Computer programming.(ratio:5.00)
- E. Network system planning.(ratio:5.00)
- F. Database design and management.(ratio:5.00)
- G. Analysis, design and integration of information system.(ratio:10.00)
- H. Project management.(ratio:5.00)

Subject Schoolwide essential virtues

- 1. A global perspective. (ratio:5.00)
- 2. Information literacy. (ratio:25.00)
- 3. A vision for the future. (ratio:5.00)
- 4. Moral integrity. (ratio:10.00)

- 5. Independent thinking. (ratio:30.00)
- 6. A cheerful attitude and healthy lifestyle. (ratio:5.00)
- 7. A spirit of teamwork and dedication. (ratio:10.00)
- 8. A sense of aesthetic appreciation. (ratio:10.00)

Course Introduction

After the students have basic concepts about computer hardware and process scheduling from the 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 also.

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	Aware of the principle of the Operating Systems and its methods of operation.	Cognitive
2	Understand the evolvement of Operating Systems and its current trend of development.	Cognitive
3	Apply the knowledge of Operating Systems to give suggestions or analysis for the work and problems facing.	Affective

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

No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1	ABCDEFGH	12345678	Lecture, Practicum	Testing, Study Assignments, Discussion(including classroom and online), Activity Participation

2	ABCDEFGH		12345678	Lecture, Discussion	Testing, Study Assignments, Report(including oral and written), Activity Participation
3	ABCDEFGH		12345678	Lecture, Discussion	Testing, Discussion(including classroom and online), Report(including oral and written)
				Course Schedule	
Week	Date	e Course Contents Note			Note
1	112/02/13 ~ 112/02/19	Synchr	Synchronization		
2	112/02/20 ~ 112/02/26	Synchr	Synchronization		
3	112/02/27 ~ 112/03/05	Synchr	Synchronization		
4	112/03/06 ~ 112/03/12	Synchronization			
5	112/03/13 ~ 112/03/19	Synchronization			
6	112/03/20 ~ 112/03/26	Deadlocks			
7	112/03/27 ~ 112/04/02	Deadlocks			
8	112/04/03 ~ 112/04/09	Deadlocks			
9	112/04/10 ~ 112/04/16	Deadlocks			
10	112/04/17 ~ 112/04/23	Midterm Exam Week			
11	112/04/24 ~ 112/04/30	Memory Management Strategies			
12	112/05/01 ~ 112/05/07	Memory Management Strategies			
13	112/05/08 ~ 112/05/14	Memory Management Strategies			
14	112/05/15 ~ 112/05/21	Virtual Memory Management			
15	112/05/22 ~ 112/05/28	Virtual Memory Management			
16	112/05/29 ~ 112/06/04	File System			
17	112/06/05 ~ 112/06/11	File System			
18	112/06/12 ~ 112/06/18	Final Exam Week			

Requirement	Mark of usual includes TA, HW, Online Exam, and class notes.		
Teaching Facility	Computer, Projector		
Textbooks and Teaching Materials	Operating System Concepts, 9th edition, by Silberschatz, Galvin, and Gagne(新月)		
References			
Number of Assignment(s)	4 (Filled in by assignment instructor only)		
Grading Policy	 ↑ Attendance: 5.0 %		
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 . White the standard of t		

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