## Tamkang University Academic Year 109, 2nd Semester Course Syllabus

OPERATING SYSTEM PRACTICES	Instructor	LIOU, AY-HWA ANDY	
TLMXB2A DEPARTMENT OF INFORMATION MANAGEMENT, 2A	Details	<ul><li>General Course</li><li>Required</li><li>One Semester</li></ul>	
Relevance to SDGs  SDG9 Industry, Innovation, and Infrastructure to SDGs			
Departmental Aim of Education			
	TLMXB2A DEPARTMENT OF INFORMATION MANAGEMENT, 2A  SDG9 Industry, Innovation, and Infrastructure	TLMXB2A DEPARTMENT OF INFORMATION MANAGEMENT, 2A  SDG9 Industry, Innovation, and Infrastructure	

- I . Refining information management skills.
- $\ensuremath{\mathbb{I}}$ . 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:80.00)
- C. Applications of information systems.(ratio:10.00)
- G. Analysis, design and integration of information system.(ratio:10.00)

#### Subject Schoolwide essential virtues

- 2. Information literacy. (ratio:20.00)
- 5. Independent thinking. (ratio:80.00)

### 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.	Affective
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	ACG	25	Lecture, Practicum	Testing, Study Assignments, Discussion(including classroom and online), Activity Participation
2	ACG	25	Lecture, Discussion	Testing, Study Assignments, Report(including oral and written), Activity Participation
3	ACG	25	Lecture, Discussion	Testing, Study Assignments, Activity Participation

Course Schedule					
Week	Date	Course Contents	Note		
1	110/02/22 ~ 110/02/28	Synchronization			
2	110/03/01 ~ 110/03/07	Synchronization			
3	110/03/08 ~ 110/03/14	Synchronization			
4	110/03/15 ~ 110/03/21	Synchronization			
5	110/03/22 ~ 110/03/28	Synchronization			
6	110/03/29 ~ 110/04/04	Deadlocks			
7	110/04/05 ~ 110/04/11	Deadlocks			
8	110/04/12 ~ 110/04/18	Deadlocks			
9	110/04/19 ~ 110/04/25	Deadlocks			
10	110/04/26 ~ 110/05/02	Midterm Exam Week			
11	110/05/03 ~ 110/05/09	Memory Management Strategies			
12	110/05/10 ~ 110/05/16	Memory Management Strategies			
13	110/05/17 ~ 110/05/23	Memory Management Strategies			
14	110/05/24 ~ 110/05/30	Virtual Memory Management			
15	110/05/31 ~ 110/06/06	Virtual Memory Management			
16	110/06/07 ~ 110/06/13	File System			
17	110/06/14 ~ 110/06/20	File System			
18	110/06/21 ~ 110/06/27	Final Exam Week			
Red	quirement	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 Gagn			
References					

Number of Assignment(s)	4 (Filled in by assignment instructor only)	
Grading Policy	<ul> <li>↑ Attendance: 5.0 %</li></ul>	
Note	This syllabus may be uploaded at the website of Course Syllabus Management System at <a href="http://info.ais.tku.edu.tw/csp">http://info.ais.tku.edu.tw/csp</a> or through the link of Course Syllabus Upload posted on the home page of TKU Office of Academic Affairs at <a href="http://www.acad.tku.edu.tw/CS/main.php">http://www.acad.tku.edu.tw/CS/main.php</a> .  **Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.	

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