Tamkang University Academic Year 113, 2nd Semester Course Syllabus

Course Title	APPLICATION DEVELOPING ON CLOUD PLATFORM	Instructor	TRAN, HUU KHOA
Course Class	TLMXB4P DEPARTMENT OF INFORMATION MANAGEMENT, 4P	Details	◆ General Course ◆ Selective ◆ One Semester ◆ 2 Credits
Relevance to SDGs	SDG9 Industry, Innovation, and Infrastructure SDG11 Sustainable cities and communities		

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.

Subject Departmental core competences

A. Problem analysis and critical thinking.(ratio:5.00)

B. Functional business Areas and business practices.(ratio:5.00)

C. Applications of information systems.(ratio:5.00)

D. Computer programming.(ratio:65.00)

E. Network system planning.(ratio:5.00)

F. Database design and management.(ratio:5.00)

G. Analysis, design and integration of information system.(ratio:5.00)

H. Project management.(ratio:5.00)

Subject Schoolwide essential virtues

1. A global perspective. (ratio:15.00)

2. Information literacy. (ratio:25.00)

3. A vision for the future. (ratio:15.00)

4. Moral integrity. (ratio:5.00)

5. Independent thinking. (ratio:25.00)

6. A cheerful attitude and healthy lifestyle. (ratio:5.00)

7. A spirit of teamwork and dedication. (ratio:5.00)

8. A sense of aesthetic appreciation. (ratio:5.00)

Course Introduction	This course aims to introduce students the fundamentals of Cloud Computing covering topics such as virtualization, data centres, cloud resource management, cloud storage and popular cloud applications including batch and data stream processing. Students will be practised via a Cloud-based project.

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	Introduce students the fundamentals of Cloud Computing and it applications. Design a project via a Cloud-based platform.	Cognitive

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, Discussion	Discussion(including classroom and online), Report(including oral and written)

Course Schedule

Week	Date	Course Contents	Note
1	114/02/17 ~ 114/02/23	Introduction	
2	114/02/24 ~ 114/03/02	Data center	

3	114/03/03 ~ 114/03/09	Virtualization I	
4	114/03/10 ~ 114/03/16	Virtualization II	
5	114/03/17 ~ 114/03/23	Map Reduce I	
6	114/03/24 ~ 114/03/30	Map Reduce II	
7	114/03/31 ~ 114/04/06	Resource management	
8	114/04/07 ~ 114/04/13	Storage systems	
9	114/04/14 ~ 114/04/20	Midterm Exam/Midterm Assessment Week (teachers can adjust the week as needed)	
10	114/04/21 ~ 114/04/27	Data stream processing	
11	114/04/28 ~ 114/05/04	Hot topics	
12	114/05/05 ~ 114/05/11	Hot topics	
13	114/05/12 ~ 114/05/18	Project presentation	
14	114/05/19 ~ 114/05/25	Project presentation	
15	114/05/26 ~ 114/06/01	Graduate Exam/Graduate Assessment Week (teachers can adjust the week as needed)	
16	114/06/02 ~ 114/06/08		
17	114/06/09 ~ 114/06/15		
18	114/06/16 ~ 114/06/22		

Key capabilities	self-directed learning International mobility Information Technology Social Participation Problem solving Interdisciplinary
Interdisciplinary	STEAM course (S:Science, T:Technology, E:Engineering, M:Math, A field:Integration of Art and Humanist)
Distinctive teaching	Industry-university collaboration courses Project implementation course

Course Content	Computer programming or Computer language (students have hands-on experience in related projects) Intellectual Property (learning intellectual property) Logical Thinking AI application
Requirement	
Textbooks and Teaching Materials	Self-made teaching materials:Handouts Using teaching materials from other writers:Handouts
References	
Grading Policy	◆ Attendance： 10.0 % ◆ Mark of Usual： % ◆ Midterm Exam： 10.0 % ◆ Final Exam： 5.0 % ◆ Other〈Final presentation〉：75.0 %
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 . **※ Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.**