Tamkang University Academic Year 113, 1st Semester Course Syllabus

Course Title	OBJECT-ORIENTED SOFTWARE DEVELOPING TECHNOLOGY	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 elevance o SDGs					
Departmental Aim of Education						
I. Refinin	g information management skills.					
II. Enhanc	ing information technology capabilities.					
III. Thinkin	g independently with logic analysis.					
IV. Reinfor	rcing team-working spirit.					
V. Valuing	g business and information ethics.					
VI. Cultiva	ting global view.					
Subject Departmental core competences						
A. Problem	analysis and critical thinking.(ratio:5.00)					
B. Function	al business Areas and business practices.(ratio:5.00)					
C. Applicat	C. Applications of information systems.(ratio:5.00)					
D. Computer programming.(ratio:35.00)						
E. Network	E. Network system planning.(ratio:5.00)					
F. Databas	F. Database design and management.(ratio:5.00)					
G. Analysis,	G. Analysis, design and integration of information system.(ratio:35.00)					
H. Project r	H. Project management.(ratio:5.00)					
Subject Schoolwide essential virtues						
1. A global perspective. (ratio:10.00)						
2. Information literacy. (ratio:30.00)						
3. A vision for the future. (ratio:10.00)						
4. Moral ir	4. Moral integrity. (ratio:5.00)					

5. Independent thinking. (ratio:30.00)							
6. A cheerful attitude and healthy lifestyle. (ratio:5.00)							
	7. A spirit of teamwork and dedication. (ratio:5.00)						
	8. A sense of aesthetic appreciation. (ratio:5.00)						
I	Course ntroduction	Conce system	pts, principles, processes	s and methods for developing large softwect using object-oriented design.	vare		
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	1 Students are able to get familiar with programming languages and Cognitive practice in classes Cognitive			Cognitive			
2	Students are practice.	tudents are able to understand the software design process and Cognitive ractice.					
	The	correspond	lences of teaching objectives	: core competences, essential virtues, teaching me	ethods, and assessment		
No.	Core Compe	etences	Essential Virtues	Teaching Methods	Assessment		
1	ABCDEFGH		12345678	Lecture, Discussion, Practicum	Study Assignments, Report(including oral and written)		
2	ABCDEFGH		12345678	Lecture, Discussion, Practicum	Discussion(including classroom and online), Report(including oral and written)		

	Course Schedule					
Week	Date	Course Contents	Note			
1	113/09/09~ 113/09/15	Introduction Software Design				
2	113/09/16~ 113/09/22	Modeling the process and life cycle				
3	113/09/23~ 113/09/29	Planning and managing the project				
4	113/09/30 ~ 113/10/06	Capturing the requiments				
5	113/10/07 ~ 113/10/13	7~ 3 Designing the architecture				
6	113/10/14 ~ 113/10/20	Designing the modules				
7	113/10/21~ 113/10/27	.13/10/21~ Writing the programs				
8	113/10/28 ~ 113/11/03	Testing the programs				
9	113/11/04 ~ 113/11/10	Midterm Exam Week				
10	113/11/11~ 113/11/17	1/11~ Testing the system				
11	113/11/18~ 113/11/24	^{3~} Delivering the system				
12	12 113/11/25~ 113/12/01 Software requirements					
13	113/12/02 ~ 113/12/08	Managing the system				
14	113/12/09 ~ 113/12/15	Project presentations				
15	113/12/16~ 113/12/22	Project presentations				
16	113/12/23 ~ 113/12/29	Project presentations				
17	113/12/30~ 114/01/05	Final Exam Week				
18	114/01/06~ 114/01/12	Flex week, learning activities should be arranged.				
Key capabilities		self-directed learning International mobility Information Technology Problem solving				
Interdisciplinary		STEAM course (S:Science, T:Technology, E:Engineering, M:Math, A field:Integration of Art and Humanist) Competency-based education 'competency exploration' sustained competency or global issues STEEP (Society, Technology, Economy, Environment, and Politics)				

Distinctive teaching	Project implementation course			
Course Content	Computer programming or Computer language (students have hands-on experience in related projects) Intellectual Property (learning intellectual property) 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: 5.0 % ◆ Final Exam: 5.0 % ◆ Other ⟨Presentation⟩ : 80.0 % 			
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. X Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications. 			
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