Tamkang University Academic Year 106, 2nd Semester Course Syllabus

Course Title	SYSTEM ANALYSIS AND DESIGN	Instructor	LIN HUI
Course Class	TQIDB2A DIVISION OF APPLIED INFORMATICS, DEPARTMENT OF INNOVATIVE INFORMATION	Details	 Required One Semester 3 Credits
	AND TECHNOLOGY (ENGLISH-TAUGHT PROGRAM), ^{2A} Departmental Aim of Educ	ation	
Cultivate pro	ofessional talents in developing and applying information system	m in various fi	elds.
	Departmental core compet	ences	
A. Capabili	ty of computer program coding, process planning, and problem	1 solving	
B. Capabili	ty of applying basic mathematics and information technology re	elated mathem	natics
C. Capabili system	C. Capability of applying knowledge of internet structure and protocol in communication system		
D. Capabili	ty of developing information system		
E. Capabili	E. Capability of integrating information system		
Course Introduction	Start to learn with fundamental concepts, philosophies, and t the context of systems analysis and design methods. Then in analysis and its overall importance in a project. Those are spe systems analysis skills with an emphasis on logical system mo	troduce syster ecific	

The Relevance among Teaching Objectives, Objective Levels and Departmental core competences

I.Objective Levels (select	applicable ones)	:	
(i) Cognitive Domain :	C1-Remembering,	C2-Understanding,	C3-Applying,
	C4-Analyzing,	C5-Evaluating,	C6-Creating
(ii) Psychomotor Domain :	Pl-Imitation,	P2-Mechanism,	P3-Independent Operation,
	P4-Linked Operati	on, P5-Automation,	P6-Origination
(iii) Affective Domain :	Al-Receiving,	A2-Responding,	A3-Valuing,
	A4-Organizing,	A5-Charaterizing,	A6-Implementing

II. The Relevance among Teaching Objectives, Objective Levels and Departmental core competences : (i) Determine the objective level(s) in any one of the three learning domains (cognitive,

- psychomotor, and affective) corresponding to the teaching objective. Each objective should correspond to the objective level(s) of ONLY ONE of the three domains.
- (ii) If more than one objective levels are applicable for each learning domain, select the highest one only. (For example, if the objective levels for Cognitive Domain include C3,C5,and C6, select C6 only and fill it in the boxes below. The same rule applies to Psychomotor Domain and Affective Domain.)
- (iii) Determine the Departmental core competences that correspond to each teaching objective. Each objective may correspond to one or more Departmental core competences at a time.(For example, if one objective corresponds to three Departmental core competences: A,AD, and BEF, list all of the three in the box.)

	Teaching Objectives			Relevance		
No.				Departmental core competences		
1	tudents will be able to summarize concepts covered in the			D		
	following topics: the Components of Inform	following topics: the Components of Information System, Project				
	Management, Systems Analysis Methods, a					
	Language(UML).Students will be able to im	Language(UML).Students will be able to implement a new project of				
	systems analysis and design using the UML	-				
	Teaching Objectives, Teaching Methods and Assessment					
No.	Teaching Objectives	Teaching Methods	Assessment			
1	Students will be able to summarize concepts covered in the following topics: the Components of Information System, Project Management, Systems Analysis Methods, and Unified Modeling Language(UML).Students will be able to implement a new project of systems analysis and design using	Lecture, Discussion, Practicum, Problem solving		est, Practicum, articipation		
	the UML.					

	Т	his course has been designed to	cultivate the following essential qualities	in TKU students	
Essential Qualities of TKU Students		Qualities of TKU Students	Descriptio	on	
\diamondsuit A global perspective		pective	Helping students develop a broader perspective from which to understand international affairs and global development.		
◆ Information literacy		teracy	Becoming adept at using information technology and learning the proper way to process information.		
\diamondsuit A vision for the future		e future	Understanding self-growth, social change, and technological development so as to gain the skills necessary to bring about one's future vision.		
\Diamond Moral integrity		у	Learning how to interact with others, practicing empathy and caring for others, and constructing moral principles with which to solve ethical problems.		
\Diamond Independent thinking		hinking	Encouraging students to keenly observe and seek out the source of their problems, and to think logically and critically.		
\bigcirc A cheerful attitude and healthy lifestyle		tude and healthy lifestyle	Raising an awareness of the fine balance between one's body and soul and the environment; helping students live a meaningful life.		
A spirit of teamwork and dedication		nwork and dedication	Improving one's ability to communicate and cooperate so as to integrate resources, collaborate with others, and solve problems.		
\diamondsuit A sense of aesthetic appreciation		thetic appreciation	Equipping students with the ability to sense and appreciate aesthetic beauty, to express themselves clearly, and to enjoy the creative process.		
		1	Course Schedule		
Week	Date	Subject/Topics Note		Note	
1	107/02/26 ~ 107/03/04	syllbus/Wisdom property rights guidance/Introduction to Systems Analysis and Design			
2	107/03/05~ 107/03/11	Introduction to Systems Analysis and Design			
3	107/03/12 ~ 107/03/18	Introduction to Systems Analysis and Design/Analyzing the Business Case			
4	107/03/19~ 107/03/25	Analyzing the Business Case			
5	107/03/26~ 107/04/01	Analyzing the Business Case/Managing SystemProjects			
6	107/04/02 ~ 107/04/08	Managing SystemProjects			
7	107/04/09~ 107/04/15	Requirements Modeling			
8	107/04/16~ 107/04/22	Requirements Modeling			
9	107/04/23~ 107/04/29	Data and Process Modeling			
10	107/04/30~ 107/05/06	Midterm Exam Week			
11	107/05/07 ~ 107/05/13	Data and Process Modeling/O	Data and Process Modeling/Object Modeling		
12	107/05/14 ~ 107/05/20	Object Modeling			

13	107/05/21~ 107/05/27	Object Modeling/Development Strategies		
14	107/05/28 ~ 107/06/03	Development Strategies/Output and User Interface Design		
15	107/06/04~ 107/06/10	Output and User Interface Design		
16	107/06/11 ~ 107/06/17	Data Design		
17	107/06/18~ 107/06/24	System Architecture		
18	107/06/25 ~ 107/07/01	Final Exam Week		
Re	Score will include attendance, the ratio may be slightly adjusted! Requirement			
Теа	Feaching Facility Computer, Projector			
T	extbook(s)	Systems Analysis and Design 9e, Shelly · Rosenblatt(歐亞) tbook(s)		
Reference(s)		Introduction to System Analysis & Design, Whitten·Bentley(高立) System Analysis & Design for the Global Enterprise, Bentley·Whitten(滄海)		
	Number of ssignment(s) 20 (Filled in by assignment instructor only)			
Grading Policy		◆ Final Exam: 30.0 %		
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 Note home page of TKU Office of Academic Affairs at http://www.acad.tku.edu.tw/CS/main.php . With the syllabus way be uploaded at the website 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 . With the syllabus way be uploaded at the website 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 . With the syllabus way be uploaded at the website 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 . With the syllabus way be uploaded at the website of the syllabus way be uploaded at the syllabus way be uplo				
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