Tamkang University Academic Year 109, 2nd Semester Course Syllabus

Course Title	COMPUTER SIMULATION	Instructor	MA, SIN-YE			
Course Class	TQICB4A DIVISION OF SOFTWARE ENGINEERING, DEPARTMENT OF INNOVATIVE INFORMATION AND TECHNOLOGY (ENGLISH-TAUGHT	Details	General CourseSelectiveOne Semester			
Relevance to SDGs	PROGRAM), 4A SDG7 Affordable and clean energy vance SDG8 Decent work and economic growth					
	Departmental Aim of Educ	ation				
Cultivate professional talents in developing and applying information system in various fields.						
	Subject Departmental core competenc	es				
A. Capability of computer program coding, process planning, and problem solving(ratio:100.00)						
Subject Schoolwide essential virtues						
2. Informa	tion literacy. (ratio:70.00)					
3. A vision	for the future. (ratio:10.00)					
5. Indeper	ndent thinking. (ratio:20.00)					
Course Introduction	Simulation plays an important role in the area of management be applied to many kinds of management applications such management, transportation system, service systems, logistic introduces the application and theoretical background of systemic included modeling systems dynamics using discrete of transportation applications and service systems through simulation package ARENA will be utilized for the simulation	as manufactures, etc. This costem simulatices events, the moinulation. A h	ring urse on. deling igh level			

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.

	manipulation.							
No.			objective methods					
	This course in of system sin generation, r output.	Cognitive						
	The	correspond	dences of teaching objectives	: core competences, essential virtues, teaching m	nethods, and assessment			
No.	Core Competences		Essential Virtues	Teaching Methods	Assessment			
1	А		235	Lecture, Discussion, Experience, Imitation	Testing, Study Assignments, Discussion(including classroom and online), Practicum, Report(including oral and written), Activity Participation			
				Course Schedule				
Week	Date	Course Contents		Note				
1	110/02/22 ~ 110/02/28	Syllbus/What is Simulation? (CH 01)						
2	110/03/01 ~ 110/03/07		What is Simulation? (CH 01)/Fundamental simulation concept (CH 02)					
3	110/03/08 ~ 110/03/14	Fundar	Fundamental simulation concept (CH 02)					
4	110/03/15 ~ 110/03/21	A guid	A guided tour through Arena (CH 03)					
5	110/03/22 ~ 110/03/28	Model	Modeling basic operations and inputs (CH 04)					
6	110/03/29 ~ 110/04/04	Model	Modeling basic operations and inputs (CH 04)					
7	110/04/05 ~ 110/04/11	Arena Training Course						
8	110/04/12 ~ 110/04/18	Modeling detailed operations (CH 05)						

9	110/04/19 ~ 110/04/25	Modeling detailed operations (CH 05)		
10	110/04/26 ~ 110/05/02	Midterm Exam Week		
11	110/05/03 ~ 110/05/09	Statistical analysis of output from terminating simulations (CH 06)		
12	110/05/10 ~ 110/05/16	Statistical analysis of output from terminating simulations (CH 06)		
13	110/05/17 ~ 110/05/23	Intermediate modeling and steady state statistical analysis (CH 07)		
14	110/05/24 ~ 110/05/30	Entity transfer (CH 08)		
15	110/05/31 ~ 110/06/06	Graduate Exam Week		
16	110/06/07 ~ 110/06/13			
17	110/06/14 ~ 110/06/20			
18	110/06/21 ~ 110/06/27			
Re	equirement	Score will include attendance, the ratio may be slightly adjusted!		
Tea	aching Facility	Computer, Projector		
	ooks and ing Materials			
F	References			
Number of Assignment(s)		10 (Filled in by assignment instructor only)		
Grading Policy		 ◆ Attendance: 10.0 % ◆ Mark of Usual: 30.0 % ◆ Midterm Exam: % ◆ Final Exam: % ◆ Other 〈Assignment & Report〉: 60.0 % 		
	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.		

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