Tamkang University Academic Year 112, 1st Semester Course Syllabus

Course Title	le COMPUTER PROGRAMMING		HO THI TRANG		
Course Class	TEIDB1B DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION ENGINEERING (ENGLISH-TAUGHT PROGRAM), 1B	Details	 General Course Required One Semester 		
Relevance to SDGs	SDG4 Quality education SDG5 Gender equality SDG9 Industry, Innovation, and Infrastructure				
Departmental Aim of Education					
I. Compr	ehend professional knowledge.				
II. Acquire	e mastery of Practical Skills.				
III. Establis	sh creative achievement.				
Subject Departmental core competences					
A. Programming and application ability.(ratio:40.00)					
B. Mathem	atical reasoning ability.(ratio:15.00)				
C. Implementing computer systems ability.(ratio:15.00)					
D. Computer networking application skills.(ratio:15.00)					
E. Professional skills for information technology (IT) industry.(ratio:15.00)					
Subject Schoolwide essential virtues					
1. A global perspective. (ratio:5.00)					
2. Information literacy. (ratio:30.00)					
3. A vision for the future. (ratio:10.00)					
4. Moral integrity. (ratio:10.00)					
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)					

In	Course troduction	Introdu a proce	uce the concepts of proc	grams and flows, learn how to represent a mplement in C language.	solution in	
The correspondences between the course's instructional objectives and the cognitive, affective,						
Differentiate the various objective methods among the cognitive, affective and psychomotor						
 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	Concepts of	s of programming and execution flows Cognitive				
2	Analyze the e	e execution of a program and illustrate it by a flow chart Psychomotor				
3	Implement a	nt a program flow by C language Psychomotor				
The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment						
No.	Core Compet	tences	Essential Virtues	Teaching Methods	Assessment	
1	AB		125	Lecture, Discussion, Practicum	Testing, Study Assignments, Discussion(including classroom and online)	
2	2 BCDE		234567	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online)	
3	3 ACE 2568		2568	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online)	
Course Schedule						
Week	Date Course Contents Note					

1	112/09/11~ 112/09/17	Introduction to Computers and Programming			
2	112/09/18~ 112/09/24	Algorithm Design			
3	112/09/25 ~ 112/10/01	Overview of C; Settings up a Development Environment			
4	112/10/02 ~ 112/10/08	C Fundamentals			
5	112/10/09~ 112/10/15	Formatted Input/Output			
6	112/10/16~ 112/10/22	Expressions			
7	112/10/23 ~ 112/10/29	Selection Statements			
8	112/10/30~ 112/11/05	Loops			
9	112/11/06~ 112/11/12	Midterm Exam Week			
10	112/11/13~ 112/11/19	Basic Types			
11	112/11/20~ 112/11/26	Arrays			
12	112/11/27 ~ 112/12/03	Functions			
13	112/12/04~ 112/12/10	Pointers			
14	112/12/11~ 112/12/17	More on Pointers and Arrays			
15	; ^{112/12/18~} 112/12/24 Strings				
16	112/12/25~ 112/12/31 Files				
17	113/01/01 ~ 113/01/07	Final Exam Week			
18	113/01/08 ~ 113/01/14 Flex week, learning activities should be arranged.				
Key capabilities					
Interdisciplinary					
Distinctive teaching					

Course Content	Computer programming or Computer language (students have hands-on experience in related projects) Gender Equality Education Sustainability issue				
Requirement					
Textbooks and Teaching Materials	Self-made teaching materials:Textbooks Name of teaching materials: K.N.King, C programming: A Modern Approach, 2nd Ed, W.W.Noron & Company, 2008.				
References					
Grading Policy	 Attendance: 10.0 % ◆ Mark of Usual: % ◆ Midterm Exam: 30.0 % Final Exam: 40.0 % Other ⟨Assignment⟩: 20.0 % 				
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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