Tamkang University Academic Year 114, 1st Semester Course Syllabus

Course Title	COMPUTER PROGRAMMING	Instructor	HO THI TRANG
Course Class	TEIDB1B DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION ENGINEERING (ENGLISH-TAUGHT PROGRAM), 1B	Details	General CourseRequiredOne Semester3 Credits
Relevance to SDGs	SDG5 Gender equality SDG9 Industry, Innovation, and Infrastructure		

Departmental Aim of Education

- I. Comprehend professional knowledge.
- $\ensuremath{\mathbb{I}}$. Acquire mastery of Practical Skills.
- Ⅲ. Establish creative achievement.

Subject Departmental core competences

- A. Programming and application ability.(ratio:40.00)
- B. Mathematical 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)

		T	and the second of				
Introduce the concepts of programs and flows, learn how to represent a solution in a procedural style, and finally implement in C language.					a solution in		
Ir	Course Introduction						
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.	_	-	•	s kinds of knowledge in the cognition of			
II.	Affective : Em	phasis up	on the study of various	ocedures, outcomes, etc. kinds of knowledge in the course's appea	al,		
III	.Psychomoto	r: Emphas	· ·	etc. course's physical activity and technical			
	ma	nipulatio	n. 				
No.					objective methods		
1	Concepts of	program	NS	Cognitive			
2	Analyze the execution of a program and illustrate it by a flow chart				Psychomotor		
3	Implement a program flow by C language Cognitive						
	The correspondences of teaching objectives: core competences, essential virtues, teaching methods, and assessment						
No.	Core Compe	etences	Essential Virtues	Teaching Methods	Assessment		
1	AB		125	Lecture, Discussion, Practicum	Testing, Study Assignments, Discussion(including classroom and online)		
2	BCDE		234567	Lecture, Discussion, Practicum	Testing, Discussion(including classroom and online), Practicum		
3	ACE		2568	Lecture, Discussion, Practicum	Testing, Study Assignments, Discussion(including classroom and online)		
				Course Schedule			
Wee	ek Date		Cou	rse Contents	Note		

1	114/09/15 ~ 114/09/21	Introduction to Computers and Programming		
2	114/09/22 ~ 114/09/28	Algorithm Design		
3	114/09/29 ~ 114/10/05	Overview of C; Settings up a Development Environment		
4	114/10/06 ~ 114/10/12	C Fundamentals		
5	114/10/13 ~ 114/10/19	Formatted Input/Output		
6	114/10/20 ~ 114/10/26	Expressions		
7	114/10/27 ~ 114/11/02	Selection Statements		
8	114/11/03 ~ 114/11/09	Loops		
9	114/11/10 ~ 114/11/16	Midterm Exam Week		
10	114/11/17 ~ 114/11/23	Basic Types		
11	114/11/24 ~ 114/11/30	Arrays		
12	114/12/01 ~ 114/12/07	Functions		
13	114/12/08 ~ 114/12/14	Pointers		
14	114/12/15 ~ 114/12/21	Strings		
15	114/12/22 ~ 114/12/28	Files		
16	114/12/29 ~ 115/01/04	Final Week of Diverse Assessments		
17	115/01/05 ~ 115/01/11	Final Week of Diverse Assessments/Flexible Teaching Week for Teachers		
18	115/01/12 ~ 115/01/18	Flexible Teaching Week for Teachers		
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	Using teaching materials from other writers: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 https://web2.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 . **"Adhere to the concept of intellectual property rights" and "Do not illegally photocopy, download, or distribute." Using original textbooks is advised. It is a crime to improperly photocopy others' publications.

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