Tamkang University Academic Year 111, 1st Semester Course Syllabus

Course Title	COMPUTER PROGRAMMING	Instructor	FENG-CHENG CHANG
Course Class	TEIDB1A DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION ENGINEERING (ENGLISH-TAUGHT PROGRAM), 1A	Details	General CourseRequiredOne Semester
Relevance to SDGs	SDG4 Quality education		

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)

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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		
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	ıl,		
III	.Psychomoto	r: Emphas	· · ·	etc. course's physical activity and technical			
	ma	nipulatio	n.				
No.		Teaching Objectives objective methods					
1	Concepts of	Concepts of programming and execution flows Cognitive					
2	Analyze the	yze the execution of a program and illustrate it by a flow chart Psychomotor					
3	Implement a	a program	n flow by the C language		Psychomotor		
	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	АВ		125	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online)		
2	BCDE		234567	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online)		
3	ACE		2568	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online)		
				Course Schedule			
Wee	ek Date		Cou	rse Contents	Note		

1	111/09/05 ~ 111/09/11	Introduction to Computer Programs		
2	111/09/12 ~ 111/09/18	Problem Solving by Procedural Approach (1)		
3	111/09/19 ~ 111/09/25	Problem Solving by Procedural Approach (2)		
4	111/09/26 ~ 111/10/02	Basic Programming Language Elements		
5	111/10/03 ~ 111/10/09	Introduction to C (1)		
6	111/10/10 ~ 111/10/16	Introduction to C (2)		
7	111/10/17 ~ 111/10/23	Lexical Structure of C (1)		
8	111/10/24 ~ 111/10/30	Lexical Structure of C (2)		
9	111/10/31 ~ 111/11/06	Lexical Structure of C (3)		
10	111/11/07 ~ 111/11/13	Midterm Exam Week		
11	111/11/14 ~ 111/11/20	Modules		
12	111/11/21 ~ 111/11/27	Realize Your Algorithm Using C (1)		
13	111/11/28 ~ 111/12/04	Realize Your Algorithm Using C (2)		
14	111/12/05 ~ 111/12/11	More on Pointers and Arrays		
15	111/12/12 ~ 111/12/18	More on formatted input/output		
16	111/12/19 ~ 111/12/25	Files (1)		
17	111/12/26 ~ 112/01/01	Files (2) and Final Evaluation		
18	112/01/02 ~ 112/01/08	Final Exam Week		
Re	quirement	The assignments include homework and quizzes/exams. There is no make-up assignment if you miss it without a reason.		
Tea	ching Facility	Computer, Projector		
Textbooks and Teaching Materials		K. N. King, C Programming - A Modern Approach, 2nd Ed., W. W. Norton & Company, Inc., 2008.		
References		W. Savitch, Problem Solving with C++, 8th Ed., Pearson International Edition, Addison Wesley, 2012.		

Number of Assignment(s)	10 (Filled in by assignment instructor only)
Grading Policy	 Attendance: % ◆ Mark of Usual: 10.0 % ◆ Midterm Exam: 20.0 % ◆ Final Exam: 20.0 % ◆ Other ⟨assignment and quiz⟩: 50.0 %
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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