## Tamkang University Academic Year 109, 1st Semester Course Syllabus

Course Title	PROGRAM DESIGN	Instructor	FENG-CHENG CHANG					
Course Class	TQICB1A DIVISION OF SOFTWARE ENGINEERING, DEPARTMENT OF INNOVATIVE INFORMATION	Details	<ul><li>◆ General Course</li><li>◆ Required</li><li>◆ One Semester</li></ul>					
	AND TECHNOLOGY (ENGLISH-TAUGHT							
	PROGRAM), <sup>1A</sup> Departmental Aim of Education							
Cultivate professional talents in developing and applying information system in various fields.								
Subject Departmental core competences								
A. Capability of computer program coding, process planning, and problem solving(ratio:100.00)								
	Subject Schoolwide essential virtues							
2 1 (	i'!' ('- 70.00)							
2. Informa	tion literacy. (ratio:70.00)							
5. Indeper	ndent thinking. (ratio:10.00)							
7. A spirit	of teamwork and dedication. (ratio:10.00)							
8. A sense	of aesthetic appreciation. (ratio:10.00)							
Course Introduction	Introduce the concepts of programs and flows, learn how to a procedural style, and finally implement in C language.	represent a so	lution in					
miroduction								

## 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				
1	Concepts of	program	Cognitive				
2	Analyze the	execution	Psychomotor				
3	Implement a	program	Psychomotor				
	The o	correspond	lences of teaching objectives	: core competences, essential virtues, teaching me	thods, and assessment		
No.	Core Competences		Essential Virtues	Teaching Methods	Assessment		
1	А		25	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online)		
2	2 A		578	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online)		
3	3 A		57	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online)		
				Course Schedule			
Wee	k Date	Course Contents		Note			
1	109/09/14 ~ 109/09/20	Introduction to Computer Programs					
2	109/09/21 ~ 109/09/27	Proble	Problem Solving by Procedural Approach (1)				
3	109/09/28 ~ 109/10/04	Proble	Problem Solving by Procedural Approach (2)				
4	109/10/05 ~ 109/10/11	Basic Programming Language Elements					
5	109/10/12 ~ 109/10/18	Introduction to C (1)					
6	109/10/19 ~ 109/10/25	Introduction to C (2)					

7	109/10/26 ~ 109/11/01	Lexical Structure of C (1)			
8	109/11/02 ~ 109/11/08	Lexical Structure of C (2)			
9	109/11/09 ~ 109/11/15	Lexical Structure of C (3)			
10	109/11/16 ~ 109/11/22	Midterm Exam Week			
11	109/11/23 ~ 109/11/29	Modules			
12	109/11/30 ~ 109/12/06	Realize Your Algorithm Using C (1)			
13	109/12/07 ~ 109/12/13	Realize Your Algorithm Using C (2)			
14	109/12/14 ~ 109/12/20	More on Pointers and Arrays			
15	109/12/21 ~ 109/12/27	More on formatted input/output			
16	109/12/28 ~ 110/01/03	Files (1)			
17	110/01/04 ~ 110/01/10	Files (2)			
18	110/01/11 ~ 110/01/17	Final Exam Week			
Requirement		There will be at least 6 assignments and 4 quizzes. Additional rules about the grading are: There is no make-up quiz and assignment if you miss the deadline without a reason.			
Teaching 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		<ul> <li>Attendance: % ◆ Mark of Usual: 10.0 % ◆ Midterm Exam: 20.0 %</li> <li>◆ Final Exam: 20.0 %</li> <li>◆ Other ⟨assignment and quiz⟩: 50.0 %</li> </ul>			
Note		This syllabus may be uploaded at the website of Course Syllabus Management System at <a href="http://info.ais.tku.edu.tw/csp">http://info.ais.tku.edu.tw/csp</a> or through the link of Course Syllabus Upload posted on the  home page of TKU Office of Academic Affairs at <a href="http://www.acad.tku.edu.tw/CS/main.php">http://www.acad.tku.edu.tw/CS/main.php</a> .   ** Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.			

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