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

Course Title	PROGRAM DESIGN	Instructor	LIN IN-HO			
Course Class	TQIDB1A DIVISION OF APPLIED INFORMATICS, DEPARTMENT OF INNOVATIVE INFORMATION	Details	<ul> <li>General Course</li> <li>Required</li> <li>One Semester</li> </ul>			
	'AND TECHINOLOGY (ENGLISH-TAUGHT PROGRAM), 1A <sub>D</sub> epartmental Aim of Education					
Cultivate pr	Cultivate professional talents in developing and applying information system in various fields.					
	Subject Departmental core competences					
A. Capabili solving(	A. Capability of computer program coding, process planning, and problem solving(ratio:100.00)					
	Subject Schoolwide essential virtues					
<ol> <li>2. Information literacy. (ratio:70.00)</li> <li>5. Independent thinking. (ratio:10.00)</li> <li>7. A spirit of teamwork and dedication. (ratio:10.00)</li> <li>8. A sense of aesthetic appreciation. (ratio:10.00)</li> </ol>						
Course Introduction	Course IntroductionThe primary purpose of this course is to help students to learn and develop their understanding of the theory and practice of computer programming, focusing on techniques of program development using the C programming language. Upon satisfactory completion of this course, students will: •know the syntax and Semantics, program development process, proper use of control structures, input/output, looping, functions, and arrays in the C programming language. •be familiar with problem solving techniques commonly used in beginning programming		) their sing on se of			

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.						
No.	Teaching Objectives			objective methods		
1	Basic Concept of computer programming language and syntax			Cognitive		
2	To understand how C program is composed of one or more subprograms To understand the concept of a data type			Cognitive		
3	know debugging and testing techniques for software development			Affective		
4	be familiar with problem solving techniques commonly used in beginning programming			Psychomotor		
	The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment					
No.	Core Competences	Essential Virtues	Teaching Methods	Assessment		
1	A	2578	Lecture, Discussion, Practicum, Experience	Testing, Study Assignments, Discussion(including classroom and online), Practicum, Report(including oral and written)		
2	A	2578	Lecture, Discussion, Practicum, Experience	Testing, Study Assignments, Discussion(including classroom and online), Practicum, Report(including oral and written)		
3	A	2578	Lecture, Discussion, Practicum, Experience	Testing, Study Assignments, Discussion(including classroom and online), Practicum, Report(including oral and written)		

4	A	2578	Lecture, Discussion, Practicum, Experience	Testing, Study Assignments,
				Discussion(including classroom and online),
				Practicum,
				written)
			Course Schedule	
Weel	k Date Course Contents		Note	
1	109/09/14 ~ 109/09/20	Syllabus and Instruction · Pre of C Program		
2	109/09/21 ~ 109/09/27	C Fundamentals (1) Introduct Development Platform,	Lab.1	
3	109/09/28 ~ 109/10/04	C Fundamentals (2), Introduct Development Platform,	HW.#1	
4	109/10/05 ~ 109/10/11	Formatted Input/Output	Lab.2	
5	109/10/12 ~ 109/10/18	Expressions, Quiz 1	Lab.3	
6	109/10/19~ 109/10/25	Selection Ststaments(1),		HW.#2, Lab.4
7	109/10/26~ 109/11/01	Selection Ststaments(2) , Quiz 2		Lab.5
8	109/11/02 ~ 109/11/08	Loops (1)		HW.#3
9	109/11/09~ 109/11/15	Loops (2)		Lab.6
10	109/11/16~ 109/11/22	Midterm Exam Week		
11	109/11/23~ 109/11/29	Basic Types		Lab.7
12	109/11/30~ 109/12/06	Arrays		HW.#4
13	109/12/07 ~ 109/12/13	Functions (1), Quiz 3		
14	109/12/14~ 109/12/20	Functions (2)		HW.#5, Lab.8
15	109/12/21 ~ 109/12/27	Pointers, , Quiz 4		Lab.9
16	109/12/28~ 110/01/03	Pointers and Arrays		HW.#6, Lab.10
17	110/01/04 ~ 110/01/10	Strings		Lab.11
18	110/01/11~ 110/01/17	Final Exam Week		

	1.English as Teaching Language(本課程採英語授課)		
Requirement	2. 'ICIASS系統」網址: http://ICIASS.tKu.edu.tW		
	particular course the course instructor will notify the Office of Acdemic Affairs and the		
	student will not be allowed to take part in the remaining course examinations and will be		
	receive a semester grade(for that course) of zero.		
	4.非法影印是違法的行為。請使用正版教科書·勿非法影印他人著作·以免觸法。		
Teaching Facility	Computer, Projector		
Textbooks and Teaching Materials	C Programming, A Mordern Approach (2nd Ed.) by K.N. King (開發圖書)		
	Problem Solving and Program Design in C (Eight Ed.) by Jeri R. Hanly (歐亞圖書)		
References	http://www.cppreference.com/wiki/http://www.cplusplus.com/reference/		
	http://moodle.learning.tku.edu.tw		
Number of Assignment(s)	6 (Filled in by assignment instructor only)		
	◆ Attendance: 20.0 % ◆ Mark of Usual:20.0 % ◆ Midterm Exam: 20.0 %		
Grading	▲ Finel Even : 20.0 W		
Policy	$\checkmark$ Final Exam · 20.0 %		
, ,	• Other $\langle Quizzes \rangle$ : 20.0 %		
	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		
Note	home page of TKU Office of Academic Affairs at http://www.acad.tku.edu.tw/CS/main.php .		
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	to improperly photocopy others' publications.		
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