## Tamkang University Academic Year 104, 2nd Semester Course Syllabus

Course Title	OBJECT ORIENTED PROGRAMMING	Instructor	LIN IN-HO		
Course Class	TQIDB1A  DIVISION OF APPLIED INFORMATICS,  DEPARTMENT OF INNOVATIVE INFORMATION	Details	<ul><li>◆ Required</li><li>◆ One Semester</li><li>◆ 3 Credits</li></ul>		
	PROGRAM), <sup>1A</sup> Departmental Aim of Educ	ation			
Cultivate pro	ofessional talents in developing and applying information system	m in various fi	elds.		
	Departmental core competences				
<ul> <li>A. Capability of computer program coding, process planning, and problem solving</li> <li>B. Capability of applying basic mathematics and information technology related mathematics</li> <li>C. Capability of applying knowledge of internet structure and protocol in communication system</li> <li>D. Capability of developing information system</li> <li>E. Capability of integrating information system</li> </ul>					
Course Introduction			gn, ning ed		

## The Relevance among Teaching Objectives, Objective Levels and Departmental core competences

P6-Origination

I.Objective Levels (select applicable ones):

(i) Cognitive Domain : C1-Remembering, C2-Understanding, C3-Applying, C4-Analyzing, C5-Evaluating, C6-Creating

(ii) Psychomotor Domain: P1-Imitation, P2-Mechanism, P3-Independent Operation,

P4-Linked Operation, P5-Automation,

(iii) Affective Domain : A1-Receiving, A2-Responding, A3-Valuing, A4-Organizing, A5-Charaterizing, A6-Implementing

II.The Relevance among Teaching Objectives, Objective Levels and Departmental core competences:

- (i) Determine the objective level(s) in any one of the three learning domains (cognitive, psychomotor, and affective) corresponding to the teaching objective. Each objective should correspond to the objective level(s) of ONLY ONE of the three domains.
- (ii) If more than one objective levels are applicable for each learning domain, select the highest one only. (For example, if the objective levels for Cognitive Domain include C3,C5, and C6, select C6 only and fill it in the boxes below. The same rule applies to Psychomotor Domain and Affective Domain.)
- (iii) Determine the Departmental core competences that correspond to each teaching objective. Each objective may correspond to one or more Departmental core competences at a time. (For example, if one objective corresponds to three Departmental core competences: A,AD, and BEF, list all of the three in the box.)

			Relevance	
No.	Teaching Objectives	Objective Levels	Departmental core competences	
1	Basic Concept of Object-Oriented Programming methods and Technologies	C2	А	
2	Familiar with the syntax of C++ language, the design and applications of classes in the C++ language	P4	А	
3	using C++ language and Software Engineering to solve Computer Problems	A5	А	

## Teaching Objectives, Teaching Methods and Assessment

No.	Teaching Objectives	Teaching Methods	Assessment
1	Basic Concept of Object-Oriented Programming methods and Technologies	Lecture, Practicum	Written test, Practicum, Participation
2	Familiar with the syntax of C++ language, the design and applications of classes in the C++ language	Lecture, Discussion, Practicum, Problem solving	Written test, Practicum, Participation, Online Tes
3	using C++ language and Software Engineering to solve Computer Problems	Lecture, Discussion, Practicum	Written test, Practicum, Participation

Essential Qualities of TKU Students		Qualities of TKU Students	Description		
		pective	Helping students develop a broader perspective from which to understand international affairs and global development.		
◆ Information literacy		teracy	Becoming adept at using information technology and learning the proper way to process information.		
◆ A vision for the future		e future	Understanding self-growth, social change, and technological development so as to gain the skills necessary to bring about one's future vision.		
		у	Learning how to interact with others, practicing empathy and caring for others, and constructing moral principles with which to solve ethical problems.		
<b>♦</b> 1	Independent	thinking	Encouraging students to keenly observe and seek out the source of their problems, and to think logically and critically.		
◆ A cheerful attitude and healthy lifestyle		itude and healthy lifestyle	Raising an awareness of the fine balance between one's body and soul and the environment; helping students live a meaningful life.		
A spirit of teamwork and dedication		mwork and dedication		Improving one's ability to communicate and cooperate so as to integrate resources, collaborate with others, and solve	
A sense of aesthetic appreciation		sthetic appreciation	Equipping students with the ability to sense and appreciate aesthetic beauty, to express themselves clearly, and to enjoy the creative process.		
			Course Schedule		
Week	Date		Subject/Topics	Note	
1	105/02/15 ~ 105/02/21	1 · 1 · Overview of Funct Overloading	ion Basics、Parameters and		
2	105/02/22 ~ 105/02/28	1 · User-Defined Data Typ	es(1)		
3	105/02/29 ~ 105/03/06	1 · User-Defined Data Typ	es(2)	Lab.1	
4	105/03/07 ~ 105/03/13	1 · User-Defined Data Typ	es(3)	HW.#1	
5	105/03/14 ~ 105/03/20	1 · Arrays(1)		Lab.2	
6	105/03/21 ~ 105/03/27	1 · Arrays(2)		Quiz #1	
7	105/03/28 ~ 105/04/03	1 · Arrays(3)		HW.#2	
8	105/04/04 ~ 105/04/10	教學行政觀摩日			
9	105/04/11 ~ 105/04/17	1、 Classes and Abstraction	n(1)	Lab.3	
10	105/04/18 ~ 105/04/24	Midterm Exam Week			
11	105/04/25 ~ 105/05/01	1、 Classes and Abstraction	n(2)	Lab.4	
12	105/05/02 ~	1 · Classes and Abstraction	n(3)	HW.#3	

13	105/05/09 ~ 105/05/15	1 · Array-Based Lists(1)	
14	105/05/16 ~ 105/05/22	1 · Array-Based Lists(2)	Quiz#2
15	105/05/23 ~ 105/05/29	1 · Dynamic Data and Linked Lists(1)	HW.#4
16	105/05/30 ~ 105/06/05	1 · Inheritance, Polymorphism, and Object-Oriented  Design	
17	105/06/06 ~ 105/06/12	1 · Recursion	Lab.5
18	105/06/13 ~ 105/06/19	Final Exam Week	
Re	Requirement		
Tea	Feaching Facility Computer, Projector		
1 · Programming and Problem Solving with C++ by Dale V Textbook(s)		1、 Programming and Problem Solving with C++ by Dale Weems (5th) 開發圖	書有限公司
R	1、 Problem Solving With C++ by Walter Savitch (Eighth Edition) 開發圖書 5、 http://www.cplusplus.com/reference/		
	lumber of signment(s)	4 (Filled in by assignment instructor only)	
	Grading Policy		
	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  Note 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> . <a href="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.</a>		

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