## Tamkang University Academic Year 105, 2nd Semester Course Syllabus

Course Title	OBJECT ORIENTED PROGRAMMING	Instructor	FENG-CHENG CHANG	
Course Class	TQICB1A  DIVISION OF SOFTWARE ENGINEERING,  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 Education			
Cultivate pro	ofessional talents in developing and applying information system	m in various fie	elds.	
	Departmental core competences			
A. Capabili	A. Capability of computer program coding, process planning, and problem solving			
B. Capabili	ty of applying basic mathematics and information technology re	elated mathem	natics	
C. Capabili system	1 3 113 3			
D. Capabili	ty of developing information system			
E. Capabili				
Course Introduction	The object oriented analysis/design/programming is the main develop large software systems. Java is one of the popular object of programming languages. In this course, we will learn object of programming with Java.	ject oriented		

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

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, P6-Origination

P4-Linked Operation, P5-Automation,

(iii) Affective Domain : Al-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.)

	Teaching Objectives		Relevance	
No.			Departmental core competences	
1	Java syntax	C1	А	
2	Java programming		А	
3	Object oriented concepts	C6	А	

## Teaching Objectives, Teaching Methods and Assessment

No.	Teaching Objectives	Teaching Methods	Assessment	
1	Java syntax	Lecture	Written test	
2	Java programming	Lecture, Practicum	Written test, Practicum, Participation	
3	Object oriented concepts	Lecture, Discussion, Practicum, Problem solving	Written test, Practicum, Participation	

Essential Qualities of TKU Students		Qualities of TKU Students	Descript	ion	
		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.		
		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		tude 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		thetic 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	106/02/13 ~ 106/02/19	Introduction to programmin	ng and the Java language		
2	106/02/20 ~ 106/02/26	Java basics			
3	106/02/27 ~ 106/03/05	Using classes			
4	106/03/06 ~ 106/03/12	Introduction to graphical ap	pplications		
5	106/03/13 ~ 106/03/19	Flow of control: selection			
6	106/03/20 ~ 106/03/26	Flow of control: loop			
7	106/03/27 ~ 106/04/02	User-defined classes (1)			
8	106/04/03 ~ 106/04/09	User-defined classes (2)			
9	106/04/10 ~ 106/04/16	One-dimensional array			
10	106/04/17 ~ 106/04/23	Midterm Exam Week			
	106/04/24 ~	Multudimensional array			
11	106/04/30				

	106/05/08 ~		
13	106/05/14	Inheritance, polymorphism, and interfaces (2)	
14	106/05/15 ~ 106/05/21	Exceptions and input/output operations (1)	
15	106/05/22 ~ 106/05/28	Exceptions and input/output operations (2)	
16	106/05/29 ~ 106/06/04	Graphical user interfaces	
17	106/06/05 ~ 106/06/11	Recursion	
18	106/06/12 ~ 106/06/18	Final Exam Week	
Requirement		(1) There is no make-up quiz and assignment if you miss the deadline without a reason. (2) If the periods are the campus-wide roll-calling periods, you will be excluded from the course when the "absence hours" reaches 18. (Article 38.2 of TKU Study Regulations) (2.1) Please note that the "exclusion from the course" is not part of the evaluation of your learning outcome. We consider the "participation" or the "contribution" in the evaluation. However, the administrative team enforces that the campus rule overrides the course evaluation method. The staff will submit the exclusion list on behave of the teacher when you violate the regulation.	
Teaching Facility		Computer, Projector	
Textbook(s)		J. Anderson and H. Franceschi, "Java Illuminated - An Active Learning Approach, " 4th ed., jones & Bartlett Learning LLC, 2016.	
Reference(s)			
Number of Assignment(s)		6 (Filled in by assignment instructor only)	
Grading Policy		<ul> <li>Attendance: %</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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