## Tamkang University Academic Year 109, 2nd Semester Course Syllabus

Course Title	OBJECT ORIENTED PROGRAMMING	Instructor	LIN IN-HO					
TQIDB1A  Course Class  DIVISION OF APPLIED INFORMATICS, DEPARTMENT OF INNOVATIVE INFORMATION AND TECHNOLOGY (ENGLISH-TAUGHT		Details	<ul><li>◆ General Course</li><li>◆ Required</li><li>◆ One Semester</li></ul>					
Relevance to SDGs	PROGRAM), 1A SDG9 Industry, Innovation, and Infrastructure							
Departmental Aim of Education								
Cultivate pro	ofessional talents in developing and applying information syste	m in various fi	elds.					
Subject Departmental core competences								
A. Capability of computer program coding, process planning, and problem solving(ratio:100.00)								
Subject Schoolwide essential virtues								
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)							
This course presents an advanced view of computer programming, mainly using Java and Python. The use of current operating systems and Eclipse develop platform will also be presented. Object Oriented Programming is quite different than functional or procedural programming, and it is difficult to learn on your own. Hands-on programming will be a key part of the course. Outcomes: Students who successfully complete this course will be able to: *Apply and develop object oriented code. *Develop software for a variety of architectures *Demonstrate basic knowledge of software engineering concepts								
	*Demonstrate basic knowledge of software engineering con	cepts						

## 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							
	To learn the l		Cognitive							
	Familiar with		Affective							
	using Compu Computer Pr	_	Psychomotor							
	The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment									
No.	Core Competences		Essential Virtues	Teaching Methods	Assessment					
1	А		2578	Lecture, Discussion, Experience	Testing, Study Assignments					
2	A		2578	Lecture, Discussion, Experience	Testing, Study Assignments					
3	А		2578	Lecture, Discussion, Experience	Testing, Study Assignments					
				Course Schedule						
Week	Date Course Contents		Note							
1	110/02/22 ~ 110/02/28	progra	overview, about the ad mming Introduction to pment Platform for Java							
2	110/03/01 ~ 110/03/07	1 · Intr	oduction to Programmi	Lab.1						
3	110/03/08 ~ 110/03/14	Ch.2:Pr	ogramming Building Bl	HW.#1, Lab.2						
4	110/03/15 ~ 110/03/21	Ch.3: Decisions, Ch.4:Loops, Ch.5:Methods  Quiz 1, Lab.3								
5	110/03/22 ~ 110/03/28	Ch.6:Arrays and Array Lists  HW.#2, Lab.4								
6	110/03/29 ~ 110/04/04	Ch.7:Input/Output and Exception Handling Lab.5								

7	110/04/05 ~	Ch.8:Objects and Classes(1)	HW.#3,Quiz2,Lab.6		
8	110/04/11 ~ 110/04/12 ~	Ch.8:Objects and Classes(2)			
9	110/04/18 110/04/19 ~ 110/04/25	Ch.10:Graphical User Interfaces(1)			
10	110/04/26 ~ 110/05/02	Midterm Exam Week			
11	110/05/03 ~	Ch.10:Graphical User Interfaces(2)	HW.#4, Lab.8		
12	110/05/10 ~ 110/05/16	Ch.12:Object-Oriented Design(1)	Quiz 3, Lab.9		
13	110/05/17 ~ 110/05/23	Ch.12:Object-Oriented Design(2)	HW.#5, Lab.10		
14	110/05/24 ~ 110/05/30	Introduction to Python Programming and Development(1)	Lab.11		
15	110/05/31 ~ 110/06/06	Introduction to Python Programming and Development(2)	Quiz4,HW.#6		
16	110/06/07 ~ 110/06/13	Introduction to Python Collections	Lab.12		
17	110/06/14 ~ 110/06/20	Fundamentals of Python Applications (File I/O) \ Image			
18	110/06/21 ~ 110/06/27	Final Exam Week			
Requirement		Registration on TKU iClass website: http://iclass.tku.edu.tw			
Teaching Facility		Computer, Projector, Other (Compters)			
Textbooks and Teaching Materials		1 · Python Programming in Contexts 3 rd. Edtion by Bradley N. Miller 2 · Java Illuminated An Active Learning Approach (Fifth Edition) Julie Anderson			
References		1、 Big Java Late Objects by Cay Horstmann · 歐亞書局			
Number of Assignment(s)		6 (Filled in by assignment instructor only)			
Grading Policy		<ul> <li>◆ Attendance: 20.0 % ◆ Mark of Usual: 20.0 % ◆ Midterm Exam: 20.0 %</li> <li>◆ Final Exam: 20.0 %</li> <li>◆ Other ⟨Lab., Proj &amp;Homework⟩: 20.0 %</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> . <a href="http://www.acad.tku.edu.tw/CS/main.php">wttp://www.acad.tku.edu.tw/CS/main.php</a> . <a href="http://www.acad.tku.edu.tw/CS/main.php">wttp://www.acad.tku.edu.tw/CS/main.php</a> . <a href="http://info.ais.tku.edu.tw/CS/main.php">wttp://www.acad.tku.edu.tw/CS/main.php</a> . <a href="http://info.ais.tku.edu.tw/CS/main.php">wttp://www.acad.tku.edu.tw/CS/main.php</a> .   Wunauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.			

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