Tamkang University Academic Year 109, 2nd Semester Course Syllabus

Course Title	OBJECT ORIENTED PROGRAMMING	Instructor	FENG-CHENG CHANG				
TQICB1A Course Class DIVISION OF SOFTWARE ENGINEERING, DEPARTMENT OF INNOVATIVE INFORMATION AND TECHNOLOGY (ENGLISH-TAUGHT		Details	◆ General Course◆ Required◆ One Semester				
Relevance to SDGs	PROGRAM), 1A SDG4 Quality education						
Departmental Aim of Education							
Cultivate pr	ofessional talents in developing and applying information syste	m in various fi	elds.				
	Subject Departmental core competence	es					
A. Capability of computer program coding, process planning, and problem solving(ratio:100.00)							
	Subject Schoolwide essential virtues						
2. Informa	ation literacy. (ratio:70.00)						
5. Indepe	ndent thinking. (ratio:10.00)						
7. A spirit	of teamwork and dedication. (ratio:10.00)						
8. A sense	of aesthetic appreciation. (ratio:10.00)						
The object oriented analysis/design/programming is the mainstream approach to develop large software systems. Java is one of the popular object oriented programming languages. In this course, we will learn object oriented concepts by programming with Java. Course Introduction							

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	Java syntax		Cognitive						
2	Java program	nming	Psychomotor						
3	Object orient	ed conce	Cognitive						
	The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment								
No.	Core Competences		Essential Virtues	Teaching Methods	Assessment				
1	A		2	Lecture	Testing, Study Assignments, Discussion(including classroom and online)				
2	А		2578	Lecture, Discussion, Experience	Testing, Study Assignments, Discussion(including classroom and online)				
3	Α		2578	Lecture, Discussion, Experience	Testing, Study Assignments, Discussion(including classroom and online), Report(including oral and written)				
Course Schedule									
Week	Date	Course Contents		Note					
1	110/02/22 ~ 110/02/28	Introduction to programming and the Java language							
2	110/03/01 ~ 110/03/07	Review C and learn Java basics							
3	110/03/08 ~ 110/03/14	Java basics and using classes (1)							
4	110/03/15 ~ 110/03/21	Java basics and using classes (2)							
5	110/03/22 ~ 110/03/28	Flow of control: selection and loop							

6	110/03/29 ~ 110/04/04	Flow of control: selection and loop		
7	110/04/05 ~ 110/04/11 User-defined classes (1)			
8	110/04/12 ~ 110/04/18	User-defined classes (2)		
9	110/04/19 ~ 110/04/25	One-dimensional array		
10	110/04/26 ~ 110/05/02	Midterm Exam Week		
11	110/05/03 ~ 110/05/09	Multidimensional array		
12	110/05/10 ~ 110/05/16	Inheritance, polymorphism, and interfaces (1)		
13	110/05/17 ~ 110/05/23	Inheritance, polymorphism, and interfaces (2)		
14	110/05/24 ~ 110/05/30	Exceptions and input/output operations (1)		
15	110/05/31 ~ 110/06/06	Exceptions and input/output operations (2)		
16	110/06/07 ~ 110/06/13	Java Collection Framework		
17	110/06/14 ~ 110/06/20	Selected topics: recursion etc		
18	110/06/21 ~ 110/06/27	Final Exam Week		
Requirement		There is no make-up quiz and assignment if you miss the deadline without a reason.		
Teaching Facility		Computer, Projector		
Textbooks and Teaching Materials		J. Anderson and H. Franceschi, "Java Illuminated - An Active Learning Approach, " 5th ed., jones & Bartlett Learning LLC, 2019.		
References				
Number of Assignment(s)		6 (Filled in by assignment instructor only)		
Grading Policy		 Attendance: %		
Note		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 home page of TKU Office of Academic Affairs at 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.		

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