Tamkang University Academic Year 112, 2nd Semester Course Syllabus

Course Title PYTHON AND ACCOUNTING PRACTICE Instructor HWANG, TIEN-WEI					
Course Class	TLAXM1A MASTER'S PROGRAM, DEPARTMENT OF ACCOUNTING, 1ADetails• General Course • Selective • One Semester				
Relevance to SDGs	SDG4 Quality education Relevance SDG8 Decent work and economic growth SDG9 Industry, Innovation, and Infrastructure				
Departmental Aim of Education					
I. Develop potential research capability.					
II. Able to	integrate multiple fields.				
III. Upholo	ethics & morality standards.				
IV. Cultiva	te international perspective.				
V. Develo	p macro-view of the future.				
Subject Departmental core competences					
A. Students can demonstrate that they have program advanced knowledge of business and management.(ratio:20.00)					
 B. Students can demonstrate that they have analytical and problem-solving capability. (ratio:30.00) 					
C. Students can demonstrate their oral and written communication skills.(ratio:20.00)					
D. Students can demonstrate team work and interpersonal skill.(ratio:20.00)					
E. Students are able to demonstrate effective considerations of ethical issues in business situation.(ratio:10.00)					
Subject Schoolwide essential virtues					
1. A global perspective. (ratio:10.00)					
2. Information literacy. (ratio:30.00)					
3. A vision for the future. (ratio:20.00)					
4. Moral integrity. (ratio:10.00)					
5. Independent thinking. (ratio:10.00)					
6. A cheerful attitude and healthy lifestyle. (ratio:5.00)					

7. A spirit of teamwork and dedication. (ratio:10.00)	7.	A spirit	of teamwork	and	dedication.	(ratio:10.00)
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8. A sense of aesthetic appreciation. (ratio:5.00)

Iı	Course Introduction to accounting tasks. By the course's conclusion, you'll possess practical Python skills to elevate your proficiency in accounting, preparing you adeptly for challenges at the dynamic intersection of programming and accounting.				actices, erical Python ning skills Python or J.
Di ⁻ do I.	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				
II. III	 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	Grasp fundamental Python basics and recognize their relevance to accounting, laying the groundwork for practical application.Cognitive				
2	Explore the creation of straightforward numerical programs tailoredCognitivespecifically for accounting tasks, enhancing your ability to applyPython in numerical analysis.				
3	Develop practical skills in writing functions with a focus on scopingPsychomotorand abstraction, emphasizing their crucial role in accountingprocesses.				
	The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment				
No.	Core Compe	etences	Essential Virtues	Teaching Methods	Assessment
1	ABCDE		12345678	Lecture, Discussion	Testing, Discussion(including classroom and online), Report(including oral and written)

2	ABCDE		12345678	Lecture, Discussion	Testing, Discussion(including classroom and online), Report(including oral and written)
3	ABCDE		12345678	Lecture, Discussion	Testing, Discussion(including classroom and online), Report(including oral and written)
				Course Schedule	
Wee	< Date	Course Contents			Note
1	113/02/19~ 113/02/25	Introdu	uction; Ch 1 Get	ting started	
2	113/02/26~ 113/03/03	Ch 2	Introduction to Pytho	on	
3	113/03/04 ~ 113/03/10	Ch 3	Some simple numerio	cal programs	
4	113/03/11~ 113/03/17	Ch 4	Functions, scoping, a	nd abstraction	
5	113/03/18~ 113/03/24	Ch 5 Structured types and mutability			
6	113/03/25~ 113/03/31	Ch 6 Recursion and global variables			
7	113/04/01~ 113/04/07	No Class- Official			
8	113/04/08 ~ 113/04/14	Ch 7 Modules and files			
9	113/04/15~ 113/04/21	Ch 8	Testing and debuggir		
10	113/04/22~ 113/04/28	Ch 9	Exceptions and assert		
11	113/04/29~ 113/05/05	Ch 10			
12	113/05/06 ~ 113/05/12	Ch 11 A simplistic introduction to algorithmic complexity			
13	113/05/13~ 113/05/19	Ch 12 Some simple algorithms and data structures			
14	113/05/20~ 113/05/26	Ch 13 Plotting and more about classes			
15	113/05/27 ~ 113/06/02	Ch 16 Random walks and more about data visualization			
16	113/06/03 ~ 113/06/09	Ch 21 Randomized trials and hypothesis checking			
17	113/06/10~ 113/06/16	Final Ex	xam Week (Date:113/6/	/11-113/6/17)	
18	113/06/17 ~ 113/06/23	Ch 23	Exploring data with p	andas	

Key capabilities	self-directed learning International mobility Information Technology Problem solving
Interdisciplinary	STEAM course (S:Science, T:Technology, E:Engineering, M:Math, A field:Integration of Art and Humanist) Competency-based education 'competency exploration' sustained competency or global issues STEEP (Society, Technology, Economy, Environment, and Politics)
Distinctive teaching	
Course Content	Computer programming or Computer language (students have hands-on experience in related projects) Logical Thinking
Requirement	
Textbooks and Teaching Materials	Using teaching materials from other writers:Textbooks Name of teaching materials: John V. Guttag. Introduction to Computation and Programming Using Python. (ISBN: 9780262542364)
References	
Grading Policy	 ◆ Attendance: % ◆ Mark of Usual: % ◆ Midterm Exam: % ◆ Final Exam: 70.0 % ◆ Other ⟨Participation⟩: 30.0 %
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. Wunauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.

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