Tamkang University Academic Year 113, 2nd Semester Course Syllabus

Course Title	DIGITAL TECHNOLOGY AND AI APPLICATION		NAIDA PARSAZADEH		
Course Class	TLFBB1A DIVISION OF GLOBAL COMMERCE, DEPARTMENT OF INTERNATIONAL BUSINESS (ENGLISH-TAUGHT PROGRAM), 1A	Details	 General Course Required 2nd Semester 2 Credits 		
Relevance to SDGs	SDG4 Quality education SDG8 Decent work and economic growth SS SDG10 Reducing inequalities				
Departmental Aim of Education					
I. Acquisi	ition of professional knowledge.				
II. Learnin	ig effective self-planning.				
III. Theore	tical application of practical matters.				
IV. Interpe	rsonal communication and teamwork.				
V. Analysi	s of problems and recommendations.				
VI. Awarer	ess of Ethics as a global citizen.				
Subject Departmental core competences					
 A. Students can demonstrate that they have program basic knowledge of business and management.(ratio:10.00) 					
 B. Students can demonstrate that they have capability in professional knowledge expression. (ratio:10.00) 					
C. Students (ratio:70	C. Students can demonstrate that they have capability in using information technology. (ratio:70.00)				
D. Students	D. Students can demonstrate that they are critical thinkers.(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:5.00)					
4. Moral integrity. (ratio:15.00)					
5. Independent thinking. (ratio:25.00)					
6. A cheerful attitude and healthy lifestyle. (ratio:5.00)					

7. A spirit of teamwork and dedication. (ratio:5.00) 8. A sense of aesthetic appreciation. (ratio:5.00)						
Int	Course roduction	This course aims to develop the proficiency of students in the Python programming language and its practical applications. The course covers fundamental Python concepts, data structures, and algorithms, and explores real-world applications.				
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. 						
No.	Teaching Objectives obje				objective methods	
1	To cultivate students' core concepts and skills in programming language.		Cognitive			
	The c	correspond	lences of teaching objectives	: core competences, essential virtues, teaching me	thods, and assessment	
No.	Core Compet	ences	Essential Virtues	Teaching Methods	Assessment	
1	ABCD		12345678	Lecture, Discussion, Practicum	Study Assignments, Discussion(including classroom and online), Report(including oral and written)	
				Course Schedule		
Week	Date	Course Contents Note			Note	
1	114/02/17 ~ 114/02/23	Introduction to Python programming language				
2	114/02/24~ 114/03/02	Installing and setting up Python environment				
3	114/03/03~ 114/03/09	Python Libraries, Basic syntax and data types				

4	114/03/10~ 114/03/16	Conditional statements and loops		
5	114/03/17 ~ 114/03/23	Functions and modules		
6	114/03/24 ~ 114/03/30	Lists, tuples, and dictionaries		
7	114/03/31~ 114/04/06	Sets and frozen sets		
8	114/04/07 ~ 114/04/13	String manipulation		
9	114/04/14 ~ 114/04/20	Midterm Exam/Midterm Assessment Week (teachers can adjust the week as needed)		
10	114/04/21~ 114/04/27	Understanding classes and objects		
11	114/04/28 ~ 114/05/04	File handling in Python		
12	114/05/05 ~ 114/05/11	Web Development		
13	114/05/12 ~ 114/05/18	Exploratory Data Analysis (EDA) with Python		
14	114/05/19~ 114/05/25	Project Presentation		
15	114/05/26~ 114/06/01	Project Presentation		
16	114/06/02 ~ 114/06/08	Project Presentation		
17	114/06/09~ 114/06/15	Final Exam/Final Assessment Week (teachers can adjust the week as needed)		
18	114/06/16 ~ 114/06/22	Flexible Teaching Week: Generally, no in-person classes; teachers may arrange teaching activities or final assessments, among other options.		
Key capabilities				
Interdisciplinary				
Distinctive teaching				

Course Content	Computer programming or Computer language (students have hands-on experience in related projects) Logical Thinking AI application				
Requirement					
Textbooks and Teaching Materials	Self-made teaching materials:Textbooks, Presentations				
References					
Grading Policy	 Attendance: 10.0 % ◆ Mark of Usual: 10.0 % ◆ Midterm Exam: 20.0 % Final Exam: 10.0 % Other ⟨Project Presentation⟩: 50.0 % 				
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 . www.acad.tku.edu.tw/CS/main.php .				
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