Tamkang University Academic Year 113, 2nd Semester Course Syllabus

Course Title	DATA PROCESSING AND VISUALIZATION	Instructor	WEI-HSIU LIN				
Course Class	TRJXB1A DEPARTMENT OF GLOBAL POLITICS AND ECONOMICS (ENGLISH-TAUGHT PROGRAM), 1A	Details	 General Course Selective One Semester 2 Credits 				
Relevance to SDGs	SDG17 Partnerships for the goals						
	Departmental Aim of Educ	ation					
confidence i the global p and collectiv	To be equipped with a basic knowledge of economics and political science, to develop confidence in communicating professionally and academically in English in matters related to the global political economy; to acquire the capability to conduct further research individually and collectively with others; and ultimately to prepare oneself to become professionals and leaders with a global perspective for the international arena.						
	Subject Departmental core competence	es					
A. Provide	essential analytical abilities in the area of politics and economics	s(ratio:35.00)					
B. Provide	knowledge and skills to understand the current global issues(rat	tio:5.00)					
C. Develop	C. Develop a high level of proficiency in verbal and written English required in the course of						
5	d for communication purposes(ratio:20.00)						
	ability to pursue research independently as well as in teams(rat						
E. Provide	basic knowledge on Taiwan's political and economic developme	ent(ratio:10.00	1)				
	Subject Schoolwide essential virtues						
1. A globa	l perspective. (ratio:5.00)						
2. Informa	tion literacy. (ratio:10.00)						
3. A vision	3. A vision for the future. (ratio:5.00)						
4. Moral integrity. (ratio:5.00)							
5. Indeper	5. Independent thinking. (ratio:20.00)						
6. A cheer	6. A cheerful attitude and healthy lifestyle. (ratio:5.00)						
7. A spirit	7. A spirit of teamwork and dedication. (ratio:30.00)						
8. A sense	8. A sense of aesthetic appreciation. (ratio:20.00)						

An efficient way to express your data is essential when you receive data. Data visualization precisely communicates your data with software through graphs, images, or dashboards. This course will conduct data visualization with Power Bi. Compared to traditional data expression, Power Bi can instantly connect with cloud data, upgrading graphs, images, or dashboards. Users, therefore, always master up-to-date information.						
		-	and	ourse's instructional objectives and the d psychomotor objectives.	-	
			objective methods amor nstructional objectives.	ng the cognitive, affective and psychomo	tor	
II.A	the ffective : Emp mo sychomotor	course's ohasis up rals, attitu	veracity, conception, pro on the study of various l ude, conviction, values, e is upon the study of the	s kinds of knowledge in the cognition of ocedures, outcomes, etc. kinds of knowledge in the course's appea etc. course's physical activity and technical	ıl,	
No.			Teaching Ob	objective methods		
	1.to understa 2.to learn the 3.organizing	e way to p	Cognitive			
				: core competences, essential virtues, teaching me	thods, and assessment	
No.	Core Compe	tences	Essential Virtues	Teaching Methods	Assessment	
1	ABCDE		12345678	Lecture, Discussion, Practicum, Experience	Study Assignments, Report(including oral and written), Activity Participation	
				Course Schedule	1	
	1		Course Contents		Note	
Week	Date					
Week 1	Date 114/02/17 ~ 114/02/23	Introdu	uction			
	114/02/17~		uction les of data visualization			
1	114/02/17 ~ 114/02/23 114/02/24 ~	Princip				

5	114/03/17~ 114/03/23	Visualization in Power Bi (I)	
6	114/03/24~ 114/03/30	Visualization in Power Bi (II)	
7	114/03/31~ 114/04/06	Visualization in Power Bi (III)	
8	114/04/07 ~ 114/04/13	Visualization in Power Bi (VI)	
9	114/04/14~ 114/04/20	Midterm Assessment Week	
10	114/04/21~ 114/04/27	Map in Power Bi	
11	114/04/28~ 114/05/04	Visual Effects in Power BI	
12	114/05/05~ 114/05/11	External visual effects in Power Bi	
13	114/05/12~ 114/05/18	DAX in Power B (I)	
14	114/05/19~ 114/05/25	DAX in Power B (II)	
15	114/05/26~ 114/06/01	Dashboards in Power Bi	
16	114/06/02~ 114/06/08	final presentation	
17	114/06/09~ 114/06/15	final presentation	
18	114/06/16~ 114/06/22	make-up	
Key capabilities		self-directed learning Information Technology	
Interdisciplinary		Competency-based education 'competency exploration' sustained competency or global issues STEEP (Society, Technology, Economy, Environment, and Politics)	
Distinctive teaching		Project implementation course	
Course Content		Computer programming or Computer language (students have hands-on experience in related projects) AI application	
Requirement		No	

Textbooks and Teaching Materials	Self-made teaching materials:Handouts Using teaching materials from other writers:Presentations	
References		
Grading Policy	 Attendance: % ◆ Mark of Usual: 40.0 % ◆ Midterm Exam: 30.0 % Final Exam: 30.0 % Other ⟨ ⟩: % 	
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. X Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications. 	

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