Tamkang University Academic Year 112, 1st Semester Course Syllabus

Course Title	STATISTICS	Instructor	HUANG, YEN-CHUN	
Course Class	TKFXB2A DEPARTMENT OF ARTIFICIAL INTELLIGENCE, 2A	Details	 General Course Required One Semester 	
Relevance to SDGs	SDG5 Gender equality			
	Departmental Aim of Educ	ation		
 I. Students may analyze problems in applied science based on the fundamental knowledge of programming, mathematics, and artificial intelligence. II. Students may plan and implement an AI system following the procedures of problem analysis, experiment testing, data visualizing, derivation and deduction. II. Educate the students to be AI engineers who may accomplish their missions indepedently and may collaborate with their colleagues in the workplace. IV. Students may have basic skills and global competence for career diversification, and may keep lifelong learning. Subject Departmental core competences A. Professional analysis.(ratio:40.00) B. Practical application.(ratio:30.00) C. Professional attitude.(ratio:25.00) D. Global Mobility.(ratio:5.00) 				
	Subject Schoolwide essential virtues			
2. Informa 3. A vision 4. Moral ir 5. Indeper 6. A cheer 7. A spirit	I perspective. (ratio:10.00) tion literacy. (ratio:20.00) for the future. (ratio:10.00) ntegrity. (ratio:5.00) ndent thinking. (ratio:30.00) ful attitude and healthy lifestyle. (ratio:10.00) of teamwork and dedication. (ratio:10.00) of aesthetic appreciation. (ratio:5.00)			

In	Course troduction						
	The	correspo	ndences between the c	ourse's instructional objectives and the	cognitive, affective,		
		-	and	d psychomotor objectives.	-		
			objective methods amor istructional objectives.	ng the cognitive, affective and psychomo	tor		
			-				
I.	-	-	-	s kinds of knowledge in the cognition of ocedures, outcomes, etc.			
II.A				kinds of knowledge in the course's appea	Ι,		
	mo	rals, attitu	ide, conviction, values, e	etc.			
III.	-	: Emphasi nipulatior		course's physical activity and technical			
		paiacio:					
		Teaching Objectives objective methods					
No.		bectives objectives objective methods					
1	Creating a st	rong four	ndation in statistical con	cepts while fostering	Cognitive		
	skills in data	processin	ig and analysis.				
	The	correspond	ences of teaching objectives	: core competences, essential virtues, teaching me	thods, and assessment		
No.	Core Competences		Essential Virtues	Teaching Methods	Assessment		
1	ABCD		12345678	Lecture, Experience	Testing, Report(including oral and written)		
		1		Course Schedule			
Weel	< Date		Cour	rse Contents	Note		
1	112/09/11~ 112/09/17	Introduction to Statistics					
2	112/09/18 ~ 112/09/24	Introduction to Descriptive Statistics					
3	112/09/25 ~ 112/10/01	Samplir	Sampling techniques				
4	112/10/02 ~ 112/10/08	Data Presentation and Visualization (—)					
5	112/10/09 ~ 112/10/15	Discrete Probability Distribution (—)					
6	112/10/16~ 112/10/22	Discrete Probability Distribution (二)					

7	112/10/23 ~ 112/10/29	Basic concepts of probability			
8	112/10/30~ 112/11/05	Estimation and confidence intervals			
9	112/11/06~ 112/11/12	Midterm Exam Week			
10	112/11/13~ 112/11/19	Sampling Distribution			
11	112/11/20~ 112/11/26	Introduction to statistical software (e.g., R, Excel)			
12	112/11/27 ~ 112/12/03	Data Analysis with Software			
13	112/12/04~ 112/12/10	One-way ANOVA and Data Analysis with Software			
14	112/12/11~ 112/12/17	Chi-square test and Data Analysis with Software			
15	112/12/18~ 112/12/24	Real-world examples and case studies			
16	112/12/25 ~ 112/12/31	Final Exam Week and Applications in various fields (e.g., business, healthcare, social sciences)			
17	113/01/01~ 113/01/07	Final Exam Week			
18	113/01/08~ 113/01/14	Flex week, learning activities should be arranged.			
Key capabilities		self-directed learning Information Technology Problem solving			
Interdisciplinary					
Distinctive teaching		Project implementation course			
Course Content		Computer programming or Computer language (students have hands-on experience in related projects)			
Requirement					
Textbooks and Teaching Materials		Using teaching materials from other writers:Textbooks			

References	
Grading Policy	 ♦ Attendance: 20.0 % ♦ Mark of Usual: % ♦ Midterm Exam: 30.0 % ♦ Final Exam: 40.0 % ♦ Other 〈Internship course〉: 10.0 %
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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