Tamkang University Academic Year 113, 2nd Semester Course Syllabus

Course Class TRBXB1A DEPARTMENT OF INTERNATIONAL TOURISM MANAGEMENT (ENGLISH-TAUGHT PROGRAM), 1A Details * General Course * Required * One Semester * 3 Credits * 3 Credits * SDG4 Quality education SDG17 Partnerships for the goals	Course Title	STATISTICS	Instructor	MATEUS LEE
Relevance SDG17 Partnerships for the goals	Course Class	DEPARTMENT OF INTERNATIONAL TOURISM MANAGEMENT (ENGLISH-TAUGHT PROGRAM),	Details	◆ Required ◆ One Semester
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Departmental Aim of Education

To develop talented managers with international competitive advantage in the tourism industry.

Subject Departmental core competences

- A. Ability to analyze and solve problems.(ratio:30.00)
- B. Ability to communicate in English.(ratio:10.00)
- C. Proper service and work attitude.(ratio:10.00)
- D. Tourism management knowledge.(ratio:30.00)
- E. Tourism management skills.(ratio:20.00)

Subject Schoolwide essential virtues

- 1. A global perspective. (ratio:10.00)
- 2. Information literacy. (ratio:20.00)
- 3. A vision for the future. (ratio:10.00)
- 4. Moral integrity. (ratio:10.00)
- 5. Independent thinking. (ratio:30.00)
- 6. A cheerful attitude and healthy lifestyle. (ratio:5.00)
- 7. A spirit of teamwork and dedication. (ratio:10.00)
- 8. A sense of aesthetic appreciation. (ratio:5.00)

Course Introduction

The course introduces the basic concepts of statistics with practical applications. Popular statistical software "Excel" is also introduced in helping students to know how to apply statistics by software. Our goal is to establish the students' fundamental capability in organizing, analyzing and interpreting data. In this class, we will use AI for learning.

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	objective methods
1	Understanding the basic concepts of statistics.	Cognitive
2	With generative AI, helping the students to acknowledge how to apply statistics.	Cognitive
3	Strengthening the students' capabilities of independent thinking, analyzing and solving problems.	Cognitive

The correspondences of teaching objectives: core competences, essential virtues, teaching methods, and assessment

No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1	ABCDE	12345	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online), Activity Participation
2	ABCDE	12345678	Lecture, Discussion, AI Learning	Testing, Study Assignments, Discussion(including classroom and online), Report(including oral and written), Activity Participation

3	ABCDE	5678	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online), Report(including oral and written), Activity Participation
		T	Course Schedule	
Week	Date	C	ourse Contents	Note
1	114/02/17 ~ 114/02/23	Course Introduction and Ch	apter 1. What is Statistics	Data Experiment and Discussion
2	114/02/24 ~ 114/03/02	Chapter 2. Describing Data Presentation	In-class exercise	
3	114/03/03 ~ 114/03/09	Chapter 3. Describing Data and Variation		
4	114/03/10 ~ 114/03/16	Chapter 4. Describing Data Skewness and the Relations		
5	114/03/17 ~ 114/03/23	Learn how to use generative AI for a questionnaire & statistical software for Statistics		Practice class in computer room
6	114/03/24 ~ 114/03/30	Chapter 7. Continuous Prob and Standard Normal Distri	In-class exercise	
7	114/03/31 ~ 114/04/06	Holiday (Day off)		
8	114/04/07 ~ 114/04/13	Chapter 8. Sampling Distrib Sampling methods, samplir distribution of the "Sample	In-class exercise	
9	114/04/14 ~ 114/04/20	Midterm Exam on 17 April 2	Midterm exam	
10	114/04/21 ~ 114/04/27	Discussion and Commentar created by AI		
11	114/04/28 ~ 114/05/04	Chapter 9. Estimation and Confidence Intervals: Confidence Intervals for a "Population Mean", "Population Proportion" and Choosing an Appropriate Sample Size		In-class exercise
12	114/05/05 ~ 114/05/11	Chapter 10. One-Sample Te Hypothesis Testing for a Po and "Unknown" Population	In-class exercise	
13	114/05/12 ~ 114/05/18	Chapter 10. One-Sample Te	In-class exercise	
14	114/05/19 ~ 114/05/25	Chapter 11. Two-Sample Te Independent samples vs. De	7.	Experiment

15 114/05/26 ~ 114/06/01		Chapter 13. Correlation and Linear Regression (I): Correlation Coefficient and Least Squares Principles in Regression	Kahoot	
16	114/06/02 ~ 114/06/08	Chapter 13. Correlation and Linear Regression (II): Least Squares Principles in Regression ad Testing the Significance of the Regression	In-class exercise	
17	114/06/09 ~ 114/06/15	Final Exam on 12 June 2025	Final exam	
18	114/06/16 ~ 114/06/22	Review of Final: Correction exercise with bonus		
Key capabilities		self-directed learning Information Technology		
Interdisciplinary		STEAM course (S:Science, T:Technology, E:Engineering, M:Math, A field:Integration of Art and Humanist)		
Distinctive teaching				
Course Content		Logical Thinking		
Requirement		 (1) There are exams on 17 April 2025 and 12 June 2025. (2) There are classes after final exam on 18 June 2025 and 19 June 2025. (3) A group term report with AI is required. You are required to use generative term report and submit it on 18 June 2025. 	AI for the	
Textbooks and Teaching Materials		Self-made teaching materials:Presentations, Handouts, Worksheets Using teaching materials from other writers:Textbooks Name of teaching materials: 【Textbook】Lind D.A., Marchal W.G. and Wathen S.A. (2022). Basic Statistics for Business & Economics (10th edition). McGraw Hill. 【ISBN: 978-1-260-59757-8】		
References		 (1) Weiss, Neil A. (2017). Introductory Statistics (10e). Pearson. (2) Moore D., McCabe G.P. & D. & D.A. (2017). Introduction to the Practice of Statistics (9e). Macmillan Learning. (3) Lind D.A., Marchal W.G. and Wathen S.A. (2021). Statistical Techniques in Business & Economics (18th edition). McGraw Hill. [ISBN: 978-1-260-57048-9] 		
Grading Policy		 Attendance: 5.0 %		

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 .
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