Tamkang University Academic Year 111, 1st Semester Course Syllabus

Course Title	STATISTICS	Instructor	JEN-HO YANG
Course Class	TKFXB2A DEPARTMENT OF ARTIFICIAL INTELLIGENCE, 2A	Details	◆ General Course◆ Required◆ One Semester
Relevance to SDGs	SDG9 Industry, Innovation, and Infrastructure		

Departmental Aim of Education

- 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.
- III. 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

- 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:5.00)
- 5. Independent thinking. (ratio:30.00)
- 6. A cheerful attitude and healthy lifestyle. (ratio:10.00)
- 7. A spirit of teamwork and dedication. (ratio:10.00)
- 8. A sense of aesthetic appreciation. (ratio:5.00)

	Course	with co	ollection of data, tabulati y a form of mathematica	cal data, and is field of math that general ion, and interpretation of numerical data. Il analysis that uses different quantitative data or studies of real life.	It is		
dor I. (Terentiate the mains of the control Cognitive : En the ffective : Emp mo Psychomotor	various of course's in nphasis u course's phasis up rals, attitu	and objective methods amore astructional objectives. pon the study of various veracity, conception, proon the study of various lade, conviction, values, edis upon the study of the	ourse's instructional objectives and the dipsychomotor objectives. Ing the cognitive, affective and psychomotors with the cognition of ocedures, outcomes, etc. It is kinds of knowledge in the course's appearance of knowledge in the course's appearance of knowledge in the course's appearance of knowledge in the course's physical activity and technical	tor		
No.			Teaching Ob	jectives	objective methods		
	The objective of this course is to provide the students with the essential and fundamental concepts of elementary statistics. At the end of this course, the students should be able to define the real problem, to use graphical and numerical summaries, to apply standard statistical inference procedures, and to draw conclusions from statistical analyses.						
	The	correspond	lences of teaching objectives	: core competences, essential virtues, teaching me	thods, and assessment		
No.	Core Compe	tences	Essential Virtues	Teaching Methods	Assessment		
1	ABCD		12345678	Lecture, Discussion	Testing, Study Assignments		
				Course Schedule			
Week	Date		Cour	rse Contents	Note		
1	111/09/05 ~ 111/09/11	Course	Introduction				
ı	111/00/12	1			l .		

111/09/12 ~

111/09/18

Data and Statistics

3	111/09/19 ~ 111/09/25	Tabular and Graphical Presentation
4	111/09/26 ~ 111/10/02	Tabular and Graphical Presentation
5	111/10/03 ~ 111/10/09	Numerical Measures
6	111/10/10 ~ 111/10/16	Discrete Probability Distributions
7	111/10/17 ~ 111/10/23	Continuous Probability Distributions
8	111/10/24 ~ 111/10/30	Sampling and Sampling Distributions
9	111/10/31 ~ 111/11/06	Sampling and Sampling Distributions
10	111/11/07 ~ 111/11/13	Midterm Exam Week
11	111/11/14 ~ 111/11/20	Sampling and Sampling Distributions
12	111/11/21 ~ 111/11/27	Sampling and Sampling Distributions
13	111/11/28 ~ 111/12/04	Interval Estimation
14	111/12/05 ~ 111/12/11	Interval Estimation
15	111/12/12 ~ 111/12/18	Interval Estimation
16	111/12/19 ~ 111/12/25	Hypothesis Tests
17	111/12/26 ~ 112/01/01	Hypothesis Tests
18	112/01/02 ~ 112/01/08	Final Exam Week
Re	quirement	
Tea	iching Facility	Computer
Textbooks and Teaching Materials		Statistics for management and economics, 11e, Gerald Keller
References		
Number of Assignment(s)		(Filled in by assignment instructor only)
Grading Policy		 ↑ Attendance: 30.0 % ↑ Mark of Usual: % ↑ Midterm Exam: 30.0 % ↑ Final Exam: 40.0 % ↑ 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 .
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