Tamkang University Academic Year 114, 2nd Semester Course Syllabus

Course Title	PROBABILITY AND STATISTICS	Instructor	CHU, LIOU
Course Class	TEIDB1A DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION ENGINEERING (ENGLISH-TAUGHT PROGRAM), 1A	Details	General CourseRequiredOne Semester3 Credits
Relevance to SDGs	SDG4 Quality education SDG9 Industry, Innovation, and Infrastructure		

Departmental Aim of Education

- I. Comprehend professional knowledge.
- II. Acquire mastery of Practical Skills.
- Ⅲ. Establish creative achievement.

Subject Departmental core competences

- A. Programming and application ability.(ratio:15.00)
- B. Mathematical reasoning ability.(ratio:40.00)
- C. Implementing computer systems ability.(ratio:15.00)
- D. Computer networking application skills.(ratio:15.00)
- E. Professional skills for information technology (IT) industry.(ratio:15.00)

Subject Schoolwide essential virtues

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

	Course roduction		les and application cont	ry concept of probability and statistics wi		
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				objective methods	
	1.Combination and Permutation. 2.Sample Space. 3.Probability. 4.Random Variable. 5.Expected Value. 6.Limit Theorem					
	The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment					
No.	Core Competences		Essential Virtues	Teaching Methods	Assessment	
1	ABCDE		12345678	Lecture, Discussion	Testing	
				Course Schedule		
Week	Date		Cour	rse Contents	Note	
1	115/02/23 ~ 115/03/01	Ch 1. Combinatorial Analysis				
2	115/03/02 ~ 115/03/08	Ch 2. A	Ch 2. Axioms of Probability and Statistics			
3	115/03/09 ~ 115/03/15	Ch 3. Conditional Probability and Independence				
4	115/03/16 ~ 115/03/22	Ch 3. Conditional Probability and Independence				
5	115/03/23 ~ 115/03/29	Ch 3. Conditional Probability and Independence				
6	115/03/30 ~ 115/04/05	Ch 4. Random Variables				

115/04/06 ~	Ch 4. Random Variables		
115/04/12			
115/04/13 ~ 115/04/19	Ch 4. Random Variables		
115/04/20 ~ 115/04/26	Midterm Exam		
115/04/27 ~ 115/05/03	Continuous Random Variables		
115/05/04 ~ 115/05/10	Ch 5. Continuous Random Variables		
115/05/11 ~ 115/05/17	Ch 5. Continuous Random Variables		
115/05/18 ~ 115/05/24	Ch 5. Continuous Random Variables		
115/05/25 ~ 115/05/31	25~ Ch 7. Properties of Expectation		
115/06/01 ~ 115/06/07	Ch 7. Properties of Expectation		
115/06/08 ~ 115/06/14	Final Week of Diverse Assessments		
115/06/15 ~ 115/06/21	On-line class		
115/06/22 ~ 115/06/28	On-line class		
capabilities	Problem solving		
erdisciplinary	STEAM course (S:Science, T:Technology, E:Engineering, M:Math, A field:Integration of Art and Humanist)		
Distinctive teaching			
urse Content	Logical Thinking		
	115/04/19 115/04/20 ~ 115/04/26 115/04/27 ~ 115/05/03 115/05/04 ~ 115/05/10 115/05/17 115/05/18 ~ 115/05/24 115/05/25 ~ 115/06/07 115/06/07 115/06/08 ~ 115/06/14 115/06/15 ~ 115/06/22 ~ 115/06/28 Perdisciplinary Distinctive teaching	115/04/20— 115/04/26 Midterm Exam 115/04/27— 115/05/04— 115/05/04— 115/05/04— 115/05/11— 115/05/11— 115/05/11— 115/05/12— 115/05/24 Ch 5. Continuous Random Variables 115/05/13— 115/05/24 Ch 5. Continuous Random Variables 115/05/25— 115/05/25— 115/05/26— 115/05/26— 115/06/07— 115/06/07— 115/06/08— 115/06/15— 115/06/15— 115/06/26— 115/06/28— 115/06/	

Requirement	1. Attendance of all classes is required. 請務必出席所有課程。 2. Any absence will result in at least 5 points of "Participation and performance" deducted. Please call me or text me before class. 病假事假扣「課堂表現」5分・請上課前通知老師。 3. Absence without leave will result in 30 points of "Participation and performance" deducted. 順課每灾扣「課堂表現」30分。 4. Cheating or plagiarism will result in failure in the course. 作弊、抄襲會導致本課程不及格。 5. Talking, eating, using mobile phone and wearing slippers during class are not allowed, and will be expelled from the class. 上課請勿: 交談、飲食、使用行動電話・或穿著拖鞋。 以上行為因影響教師課程進行・將被要求離開教 室。 6. Late arrival, early departure (over 20 minutes), and the stated inappropriate behavior will result in 30 points of "Participation and performance" deducted. 遲到、早退 (超過20分鐘)・及前述不當行為每次 扣「課堂表現」30分。 7. There will be at least 2 home assignments and 4 quizzes. 8. Quizzes and exams will be held on ICLASS, please prepare a laptop computer for the stated tests.
Textbooks and Teaching Materials	Self-made teaching materials:Presentations Using teaching materials from other writers:Textbooks
References	
Grading Policy	 ◆ Attendance: 20.0 % ◆ Mark of Usual: % ◆ Midterm Exam: 20.0 % ◆ Final Exam: 20.0 % ◆ Other ⟨Quizzes⟩: 40.0 %
Note	This syllabus may be uploaded at the website of Course Syllabus Management System at https://web2.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 . **"Adhere to the concept of intellectual property rights" and "Do not illegally photocopy, download, or distribute." Using original textbooks is advised. It is a crime to improperly photocopy others' publications.

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