Course Title	APPLIED STATISTICS	Instructor	DENG WEN-SHUENN
Course Class	TLWXB2A BACHELOR'S PROGRAM IN GLOBAL FINANCIAL MANAGEMENT (ENGLISH-TAUGHT PROGRAM), 2A	Details	◆ General Course ◆ Selective ◆ One Semester
Relevance to SDGs	SDG3 Good health and well-being for people		

Departmental Aim of Education

Ⅰ. Learning and instanding international financial theory.

Ⅱ. Learn to plan the future.

Ⅲ. Enhance the ability of practical analysis.

Ⅳ. Increase the team research ability.

Ⅴ. Master the international financial pulsation.

Ⅵ. Cultivate morality and global civilization.

Subject Departmental core competences

A. The student to have a basic knowledge of international financial management theory and practice.(ratio:60.00)

D. To have a global perspective of the subject and a basic command of foreign language abilities.(ratio:20.00)

E. To obtain international professional qualifications that will aid their future career. (ratio:20.00)

Subject Schoolwide essential virtues

1. A global perspective. (ratio:10.00)

2. Information literacy. (ratio:30.00)

5. Independent thinking. (ratio:50.00)

8. A sense of aesthetic appreciation. (ratio:10.00)

Course Introduction	The course provides advanced statistical concepts and techniques with application in business and finance. I will introduce Statistical software R with statistical applications. Topics include hypothesis testing, goodness of fits test, analysis of variance and Regression analysis.

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	Acquisition of professional knowledge	Cognitive
2	Learning effective self-planning.	Cognitive
3	Theoretical application of practical matters.	Cognitive
4	Interpersonal communication and teamwork.	Cognitive
5	Analysis of problems and recommendations.	Cognitive
6	Awareness of Ethics as a global citizen.	Cognitive

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

No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1	ADE	1258	Lecture, Discussion	Testing, Report(including oral and written)
2	ADE	1258	Lecture, Discussion	Testing, Report(including oral and written)
3	ADE	1258	Lecture, Discussion	Testing, Report(including oral and written)
4	ADE	1258	Lecture, Discussion	Testing, Report(including oral and written)

| 5 | ADE | 1258 | Lecture, Discussion | Testing, Report(including oral and written) |
| 6 | ADE | 1258 | Lecture, Discussion | Testing, Report(including oral and written) |

Course Schedule			
Week	Date	Course Contents	Note
1	110/09/22 ~ 110/09/28	Review of Elementary Probability and Statistics	
2	110/09/29 ~ 110/10/05	Review of Elementary Probability and Statistics	
3	110/10/06 ~ 110/10/12	Introduction to the Statistical Software R	
4	110/10/13 ~ 110/10/19	Introduction to the Statistical Software R	
5	110/10/20 ~ 110/10/26	Simple Linear Regression	
6	110/10/27 ~ 110/11/02	Simple Linear Regression	
7	110/11/03 ~ 110/11/09	Multiple Linear Regression	
8	110/11/10 ~ 110/11/16	Multiple Linear Regression	
9	110/11/17 ~ 110/11/23	Midterm Exam Week	
10	110/11/24 ~ 110/11/30	Multiple Linear Regression	
11	110/12/01 ~ 110/12/07	Analysis of Variance	
12	110/12/08 ~ 110/12/14	Analysis of Variance	
13	110/12/15 ~ 110/12/21	Analysis of Variance	
14	110/12/22 ~ 110/12/28	Logistic Regression	
15	110/12/29 ~ 111/01/04	Logistic Regression	
16	111/01/05 ~ 111/01/11	Logistic Regression	
17	111/01/12 ~ 111/01/18	Statistics Applications of R language	
18	111/01/19 ~ 111/01/25	Final Exam Week	

Requirement	Students are required to attend the regular classes and both the mid-term and final exams. Absences from regular classes will result in a deduction in final scores.

Teaching Facility	Computer, Projector
Textbooks and Teaching Materials	A free e-book, to be provided
References	Applied Statistics with R, David Dalpiaz. Free Material available online at http://daviddalpiaz.github.io/appliedstats/applied_statistics.pdf
Number of Assignment(s)	**4** (Filled in by assignment instructor only)
Grading Policy	◆ Attendance： 10.0 % ◆ Mark of Usual：20.0 % ◆ Midterm Exam： 35.0 % ◆ Final Exam： 35.0 % ◆ 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 . ※ **Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.**