淡江大學１１４學年度第１學期課程教學計畫表

課程名稱	迴歸分析	授課教師	林志娟
	REGRESSION ANALYSIS		LIN JYH-JIUAN
開課系級	統計三Ｃ	開課資料	以實整虛課程
	ULSXB3C		必修 單學期 3學分
課程與SDGs關聯性	SDG1 消除貧窮 SDG4 優質教育		

系（所）教育目標

一、培育學生具基本的統計理論能力。

二、培育學生具數據分析的能力。

三、培育學生成為具管理素養的統計專才。

本課程對應院、系(所)核心能力之項目與比重

A. 基本統計理論能力。(比重：35.00)

B. 數學邏輯思考能力。(比重：5.00)

C. 數據分析能力。(比重：55.00)

D. 專業知識應用能力。(比重：5.00)

本課程對應校級基本素養之項目與比重

1. 全球視野。(比重：5.00)

2. 資訊運用。(比重：20.00)

3. 洞悉未來。(比重：5.00)

4. 品德倫理。(比重：5.00)

5. 獨立思考。(比重：30.00)

6. 樂活健康。(比重：5.00)

7. 團隊合作。(比重：25.00)

8. 美學涵養。(比重：5.00)

課程簡介	本課程闡述迴歸分析基本要義與學理，亦介紹預測模型建立與模式診斷方法及矯正策略概觀，並且使用實際資料來進行預測模型建構與分析示範；隨著資料量及電腦計算速度快速成長，本課程示範如何藉助SAS提昇模型建構速度，並展示如何利用迴歸分析方法建立預測模型及如何解讀報表。

This course not only introduces the basic theories needed for regression analysis but also demonstrates how to use statistical softwear SAS to build forecasting models. One real life case is studied thoroughly.

本課程教學目標與認知、情意、技能目標之對應

將課程教學目標分別對應「認知（Cognitive）」、「情意（Affective）」與「技能(Psychomotor)」的各目標類型。

一、認知(Cognitive)：著重在該科目的事實、概念、程序、後設認知等各類知識之學習。
二、情意(Affective)：著重在該科目的興趣、倫理、態度、信念、價值觀等之學習。
三、技能(Psychomotor)：著重在該科目的肢體動作或技術操作之學習。

序號	教學目標(中文)	教學目標(英文)
1		This course not only introduces the basic theories needed for regression analysis but also demonstrates how to use SAS to build forecasting models. Students should be able to build a forcasting model independently after taking this course.

教學目標之目標類型、核心能力、基本素養教學方法與評量方式

序號	目標類型	院、系(所)核心能力	校級基本素養	教學方法	評量方式
1	認知	ABCD	12345678	講述	測驗、討論(含課堂、線上)、報告(含口頭、書面)

授 課 進 度 表

週次	日期起訖	內 容 (Subject/Topics)	備註
1	114/09/15~114/09/21	Course Introduction	Classes will be held according to the classroom location announced by the school
2	114/09/22~114/09/28	Basic concept and terminology introduction	Classes will be held according to the classroom location announced by the school
3	114/09/29~114/10/05	Correlation Analysis +10/3業師(方元沂院長)演講(永續發展政策與法規新趨勢)	Classes will be held according to the classroom location announced by the school
4	114/10/06~114/10/12	Simple Linear Regression-1	Classes will be held according to the classroom location announced by the school

5	114/10/13～114/10/19	Simple Linear Regression-2	Online Asynchronous Instruction
6	114/10/20～114/10/26	Simple Linear Regression-3	Classes will be held according to the classroom location announced by the school
7	114/10/27～114/11/02	Multiple Linear Regression-1	Online Asynchronous Instruction
8	114/11/03～114/11/09	Model Selection-1	Classes will be held according to the classroom location announced by the school
9	114/11/10～114/11/16	Midterm Exam/Midterm Assessment Week (teachers can adjust the week as needed)	Classes will be held according to the classroom location announced by the school
10	114/11/17～114/11/23	Model Selection-2	Classes will be held according to the classroom location announced by the school
11	114/11/24～114/11/30	Model Diagnostics-1	Online Asynchronous Instruction
12	114/12/01～114/12/07	Model Diagnostics-2	Classes will be held according to the classroom location announced by the school
13	114/12/08～114/12/14	Model Diagnostics-3	Online Asynchronous Instruction
14	114/12/15～114/12/21	Case Studies-1	Classes will be held according to the classroom location announced by the school
15	114/12/22～114/12/28	Case Studies 2	Classes will be held according to the classroom location announced by the school
16	114/12/29～115/01/04	Final Week of Diverse Assessments	Classes will be held according to the classroom location announced by the school
17	115/01/05～115/01/11	Final Week of Diverse Assessments/Flexible Teaching Week for Teachers	On-Line
18	115/01/12～115/01/18	Flexible Teaching Week for Teachers	On-Line

課程培養 關鍵能力	自主學習、資訊科技、問題解決
跨領域課程	STEAM課程(S科學、T科技、E工程、M數學，融入A人文藝術領域)
特色教學 課程	blended learning
課程 教授內容	邏輯思考
修課應 注意事項	attendance :10% daily : 30% midterm :30% final: 30% office: Ba840, email : 117604@o365.tku.edu.tw
教科書與 教材	自編教材:教科書、簡報、講義、影片 採用他人教材:教科書 教材說明： Michael H. Kutner, John Neter ,Applied Linear Regression Models,McGraw-Hill/Irwin, 2004
參考文獻	(1) 迴歸分析入門，作者：林志娟、林志鴻、張慶暉(東華書局代理) (2) 迴歸分析，作者：陳順宇，華泰書局。 (3) 應用線性迴歸分析，4th 版，陳至安、簡郁紘，李振宇，華泰書局。
學期成績 計算方式	◆出席率： 10.0 ％ ◆平時評量：30.0 ％ ◆期中評量：30.0 ％ ◆期末評量：30.0 ％ ◆其他〈 〉： ％
備 考	「教學計畫表管理系統」網址：https://web2.ais.tku.edu.tw/csp 或由教務處 首頁→教務資訊「教學計畫表管理系統」進入。 ※「遵守智慧財產權觀念」及「不得不法影印、下載及散布」。請使用正版教科 書，勿不法影印他人著作，以免觸法。