


國立東華大學
教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese	統計軟體與實務應用AB		學年/學期 Academic Year/Semester	105/2
課程名稱(英文) Course Name in English	Statistical Software and Practical Application			
科目代碼 Course Code	AM_2183AB	系級 Department & Year	學二	開課單位 Course-Offering Department
修別 Type	學程 Program	學分數/時間 Credit(s)/Hour(s)	3.0/3.0	
授課教師 Instructor	/曹振海			
先修課程 Prerequisite				
課程描述 Course Description				
<p>統計是資料科學的一個重要主軸。除了傳統的統計理論課程內容，統計軟體的了解以及與實際問題的接軌，對學生的學習、提高動機乃至後續職涯發展都有關鍵的影響。</p> <p>本課程將介紹統計軟體 R, Rstudio, R Bloggers, Github, Kaggle 等資料科學中常使用、相關的軟體與網站聚落。</p>				
課程目標 Course Objectives				
<p>本課程在使學生了解如何借助統計軟體以整理資料、繪製統計圖表、進行基本的統計分析等實務工作。</p> <p>The objective is to help students understand how to utilize statistical software in practical applications such as data management, plotting statistical graphs/tables, basic statistical analysis, and statistical computation.</p>				
系專業能力 Basic Learning Outcomes				課程目標與系專業能力相關性 Correlation between Course Objectives and Dept.'s Education Objectives
A	具備基本數學知識及邏輯推理能力。Have well-founded background in mathematics and be capable of logical reasoning.			○
B	具備學習數學相關領域的預備知識。Be knowledgeable about fields related to mathematics.			●
C	具備軟體應用與科學計算能力。Be able to use mathematics software and scientific computation skill in problem-solving.			●
圖示說明 Illustration : ● 高度相關 Highly correlated ○ 中度相關 Moderately correlated				
授課進度表 Teaching Schedule & Content				
週次 Week	內容 Subject/Topics			備註 Remarks
1	1. Why R? 1.1. A quick guide to R bloggers, R, Rstudio 1.2. Installation and playing around R and R studio			
2	2. Playing with Data 2.1. Data Import 2.2. Data: Look and feel 2.3. Summary of numbers: graphical summaries and numerical summaries			

評量方式補充說明
Grading & Assessments Supplemental instructions

小組資料分析報告

教科書與參考書目 (書名、作者、書局、代理商、說明)
Textbook & Other References (Title, Author, Publisher, Agents, Remarks, etc.)

課程教材網址 (教師個人網址請列在本校內之網址)
Teaching Aids & Teacher's Website (Personal website can be listed here.)

<https://ssar2017kno.wordpress.com/>

其他補充說明 (Supplemental instructions)