

National Tsing Hua University
College of Technology Management
Course Syllabus

科號 Course Number	MPM501100	學分 Credit	3	人數限制 Size of Limit	40
中文名稱 Course Title	大數據與政策專題				
英文名稱 Course English Title	Topics in Big Data and Policy				
任課教師 Instructor	祁玉蘭、吳世英、林世昌				
教師聯絡方式 Contact Information	slin@mx.nthu.edu.tw				
上課時間 Time	Saturday evening	上課教室 Room	台積館 902 教室		
先修科目 Prerequisite(s)	MPM5011				
本課程對應之學習目標與核心能力 Aligned Learning Goals and Learning Objectives					
<p>We have entered the era of Big Data in recent years. Big Data has been taken as the savior to troubling business and there are tons of magic applications throughout the private sector. However, the public sector has also been influenced this trend and using Big Data to change the way in which public policy is made. Students will get to know the definition of Big Data and learn how it is utilized to help public policy decision making.</p>					
課程目標 Course Objectives					
<p>Policy-making takes place in an increasingly rich data environment. MPM students will understand the Big Data analytics and its application on public policy. We will also pose both promises and threats to policy-makers.</p>					
課程說明 Course Description					
<p>This course will introduce the basic idea of Big Data and its general applications in the private sector. Government has also strived to mitigate fraud, in law enforcement to predict future crimes, in education to improve academic performance, and in infrastructure to monitor the city's usage of precious resources through data mining and other Big Data analytics. We then focus on the public policy discussion and provide Big Data empirical examples adapted from different disciplines/ areas (e.g., taxation, industry, trade, environment, education, and labor), which will be discussed in detail.</p>					
指定用書 Textbooks					
<p>Lecture notes TBA</p>					
參考書籍 References					

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TBA
教學方式 Teaching Approach
Invited speakers Lectures Class participation Discussion
評分標準 Grading
[tentative and subject to change] Participation: 40% Assignment: 40% Project: 20%
教學進度 Course Schedule
1. Introduction of the basic idea of Big Data 2. Application of the Big Data in Taxation. 3. Application of the Big Data in Industry Development 4. Application of the Big Data in Environmental Issues 5. Application of the Big Data in Education 6. Application of the Big Data in Labor Market Policy
課程相關連接 Course Related Links