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開課班級：四財金學士學程三A

授課老師：簡赫琳

學分數：2

課程大綱：

公共問題及公共政策研究中指出，我們的社會中充斥了各種

“棘手問題”，也就是企圖解決一個問題卻無意識的製造出另個問題的惡性循環，導致社會中的各種問題很難從根本避免發生並一勞永逸。要找出解決棘手問題的解決方法，文獻指出需要第一步釐清棘手的公共問題源起的各種複雜成因，並用

“系統思考”這樣非傳統線性思考方式來幫助提出更整合及創新的問題解決方式。

此課程在以上學術及實務的脈絡下，期望帶領學生從認識棘手問題的理論背景談起，再結合系統思考的各種工具及情境模型，探索國內外各種公共政策棘手問題，培訓學生逐漸脫離單一線型思考，轉換成更全面性的以系統思考分析難以解決及高度互賴的社會經濟問題。

outline:

In the study of public problem and public policy, scholars point out the fact that our society is full of “wicked problem” where to solve one problem leads unconsciously the other problems. This kind of vicious cycle results in a society with ample of problems with no clear resolution. To figure out the solutions for the wicked problem, the literature suggests one to first diagnose the source of its complexity and then use “system thinking”, namely non-traditional linear problem-solving method, to propose a more integrated and avant-garde resolution.

教學型態：

課堂教學+小組討論

成績考核方式：

平時成績:30%

期中考:30%

期末考:30%

其它:Attendance 10%%

本科目教學目標：

To understand the origin and importance of public problem for our societal development. To understand how system thinking can help us to diagnose and tackle public problems To learn a variety of analytical perspectives to analyze public problems and cases To go beyond traditional linear thinking and move toward analyzing problems of environment-social-governance (ESG) origin, namely three main aspects of sustainability, with system thinking approach

參考書目：

Please see power point slides made by instructor for each week



課程進度表：

週次	起訖月日	授課單元(內容)	備註
第1週	9.11~9.18	Week 1 Course Introduction: Relationship between System Thinking and Public Problem? What type of problem is a “ wicked problem ” ? ;	8日正式上課。8~12日課程加退選，轉學(系)生、復學生及延修生選課，雙主修、輔系申請，12日申辦抵免學分截止日
第2週	9.18~9.25	I. Why do we need to understand wicked problem? Week 2.; Wicked Problem Debate in Public Policy Theory	
第3週	9.25~10.02	Week 3.; Uncertainty Typology in Wicked Problem	28日(日)孔子誕辰紀念日/教師節(放假),29日(一)補假
第4週	10.02~10.09	II. Why to understand system thinking is needed? Week 4. Traditional Linear Thinking Development	29日成績優異提前畢業者提出申請截止日
第5週	10.09~10.16	Week 5 Innovative System Thinking Approach	6日(一)中秋節(放假)，10日(五)國慶日(放假)
第6週	10.16~10.23	Week 6 System Thinking Toolkit I	14日學生宿舍安全輔導暨複合式防災疏散演練。18日多益測驗
第7週	10.23~10.30	Week 7 System Thinking Toolkit II; Individual assignment: read a news article and analyze this news' problems to draw (use Miro.com) one systematic mapping (15%)	24日(五)補假，25日(六)光復暨古寧頭大捷日(放假)。
第8週	10.30~11.06	Week 8 System Thinking & Scenario Simulation	30日校課程委員會
第9週	11.06~11.13	Week 9; Individual Written Midterm Exam (30%) No class. ; ; ;Online exam ;(open for 24 hours);	3~9日期中考試
第10週	11.13~11.20	III. Domestic and International Wicked Problem Case Study & Analysis (based on ESG Sustainability principle) Week 10 Environment Wicked Problem I	13日教務會議,16日教師期中考成績上網登錄截止日



第11週	11.20~11.27	Week 11 Environment Wicked Problem II	
第12週	11.27~12.04	Week 12 Social Wicked Problem I No class meeting (please go to your group for discussion) Group Assignment (15%) 1) to make an appointment with at least one decision maker (online or face-to-face) to understand what kind of problem they are trying to solve?;; 2) draw the system mapping of this problem; 3) use ths mapping as background for your final policy recommendation white paper;;	24~28體育運動週。24日校園路跑。27日運動大會夜間開幕，28日運動大會活動，29日101週年校慶活動日，照常上班
第13週	12.04~12.11	Week 13 Social Wicked Problem II	
第14週	12.11~12.18	Week 14 Governance Wicked Problem I	12日申請停修課程截止日
第15週	12.18~12.25	Week 15 Governance Wicked Problem II	
第16週	12.25~1.01	Week 16 Extra for NPUST: Water-Energy-Food Nexus (WEF) Wicked Problem 「填問卷、抽禮卷」有獎活動，鼓勵同學踴躍填寫教學意見調查表問卷，有機會抽禮卷。線上教學評量填寫路徑：網站連結 重要站台 線上教學評量 期末評量 學生 帳號密碼 評量網址： http://css.npust.edu.tw/tes/chineseindex.aspx	22日校務會議。25日行憲紀念日(放假)
第17週	1.01~1.08	Future Human Society Scenario Simulation Week 17 System Thinking and Our Common Future Scenario Simulation (World Café mode/ based on NPUST related public problems) Group oral presentation / each group 5 minutes	1日(四)開國紀念日(放假)
第18週	1.08~1.15	Week 18 Policy Recommendation No Class/Please upload policy recommendation White Paper (please google 'policy brief' for examle) Group Report from Wicked Problem ' s Angle (TBL) (30%) Google search keyword "policy brief" offer exemplar; Self-Evaluation (10%)	5~11日期末考試，10~11日學生退宿