社會科學領域-公民與社會學群

			一百年十五		7050 TE 1 7 71		
課程名稱 (course name)	(中) 新興科技與倫理						
	(Eng.) Ethics & Emerging Technology						
開課系所班級 (dept. & year)	通識教育中心	學分 (credits)	2	規劃教師 (teacher)	中國醫藥大學 Anthony Spinks		
課程類別 (course type)	必修	授課語言 (language)	中文、英文	開課學期 (semester)	上、下		
課程簡述 (course description)	的哲學和倫理立在未來 30 年, 和個性化的複製品物機器人與 'Sin本課程將探討這我們對這我們對其事的主題,其一個主題,不可以不可以不可以不可以不可以不可以不可以不可以不可以不可以不可以不可以不可以不	場。科技進步 特技將帶自己等 與國國國際 與國國國際 與一個一個一個一個一個一個一個一個一個一個一個一個一個一個一個一個一個一個一個	是以指數數社 們的實質域。 第一個問題 一個問題 一個問題 一個問題 一個問題 一個問題 一個問題 一個問題	快速地發展,會深刻及根本 這些領域行學主題 有倫理觀科之 ,但學生之 future where l ethical position of the next 30 ye your own basificial intellig changes: First chical response of weeks. The ek, followed object of the construction of the ons on selected d ethical constructions of the object of the construction of the object of the construction of the construction of the object of the construction of the construction of the sophical views of students graves of the construction of the construct	e students will be ions in a radically accelerating at an and fundamental ars. Some of these aby, ending aging, ence and robotics, atly, their scientific es to them. Seven scientific basis of by a debate and at advancement in d topics, as well as iderations of each ation and debating ogical trends, and s to new scenarios. ades, but lectures,		

先修課程

(prerequisites)



課程目標與核心能力關聯配比(%)

(relevance of course objectives and core learning outcomes)

課程目標	course objectives	核心能力 core learning outcomes	配比 總計 100%
本課程目標包括教導學生有關新 興科技的知識,並透過不同型態 的討論方式,提升學生批判分析 能力及發言技巧。	The objectives of this course include providing students with knowledge about emerging technologies, refining the intellectual skills of critical thinking and self-analysis, and developing articulation skills	人文素養	0%
		科學素養	40%
		溝通能力	0%
	through various forms of public discussion.	創新能力	0%
		國際視野	0%
		社會關懷	60%

課程目標之教學方法與評量方法

(teaching and assessment methods for course objectives)

教學方法(teaching methods)	學習評量方式 (evaluation)		
講授	Debate Moderator 5% Discussion Moderator 5% Class participation 10% Debate 15% Presentation 15% Major Essay 30% Final Exam 20%	Class Attendance 1st absence 0% 2nd absence - 2% 3rd absence - 3% (total -5%) 4th absence - 4% (total -9%) >4 absences = fail	

授課內容(單元名稱與內容、習作 / 考試進度、備註)

(course content and homework / tests schedule)

- Week 1 Introduction
- Week 2 Debating and Presentation Methods
- Week 3 Lecture A: Deriving Ethics from Science
- Week 4 Debate Topic A: Science Can Provide an Objective Set of Morals and Ethics.
- Week 5 Lecture B: Surveillance and Human Bio-chipping
- Week 6 Debate Topic B: The World is a Better Place because 'Big Brother' is Watching
- Week 7 Lecture C: 'Designer Babies'. Choosing our babies genes and controlling evolution
- Week 8 Debate Topic C: Responsible parents will design their baby's genome
- Week 9 Essay Writing
- Week 10 Lecture D: Cloning
- Week 11 Debate Topic D: Having a 'spare parts' clone is immoral
- Week 12 Lecture E: Ending Aging
- Week 13 Debate Topic E: I want to live forever
- Week 14 Lecture F: Artificial intelligence, Robotics, Nanotechnology
- Week 15 Debate Topic F: Human-created AI machines will be the most likely cause of human extinction

Week 16 – Lecture G: The Singularity
Week 17 – Debate Topic G: If humans become completely non-biological, then we have become extinct
Week 18 – Final Exam

教科書與參考書目(書名、作者、書局、代理商、説明)
(textbook & other references)

課程教材(教師個人網址請列在本校內之網址)
(teaching aids & teacher's website)

課程輔導時間
(office hours)