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開課班級：四財金學士學程二A

授課老師：戴昌賢

學分數：2

課程大綱：

本課程為廣泛介紹國內外應用科技相關知識及國防科技發展，以開發學生在工程應用上的想像力及視野。

outline:

The aim of this course is to provide students with a broad knowledge of modern technology, in an effort to stimulate their imagination to construct a world with better prospects. Humans have existed for more than 3 million years. However, surveys have shown that due to the derivation of DNA and increased brain size, humans have undergone significant change in the last ten thousand years. Humans evolved from being hunters and gatherers to form agricultural societies. Moreover, after the industrial revolution of the 17th century, human civilization and activity has grown exponentially. Now we are living in the most comfortable material based environment in human history, and our average lifespan has significantly surpassed our ancestors of ten thousand years ago. However, if we don't proceed carefully, we could also be the most destructible species on earth, not only threatening the existence of other creatures but also obscuring mankind's survival. Therefore, from a chronological view, the development of an agricultural society and modern technology may not be as positive as we typically consider. In this course, we will examine the development of modern technology from various points of view, including concepts of optical electricity; information technology; transportation technology; renewable energy and energy policies; micro-electro-mechanics and Nano materials; environmental technology and earth science; agriculture and biotechnology. Survey the advantages and disadvantages caused by their progress, try to mitigate their side effects, and focus on the brink crises of food; water and energy. Only when we can effectively control the pace of modern technology, may our offspring share a bright future.

教學型態：

課堂教學

成績考核方式：

平時成績:90%

期中考:%

期末考:%

其它:10%%

本科目教學目標：

- 1.培育熱帶農業基礎人才。
- 2.發展農、林、漁、牧相關技術。
- 3.建立永續農業經營與國際合作觀。

參考書目：



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	Introduction of advance technologies	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	Energy	
第3週	9.25~10.02	Wind Energy	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	Visit the Sustainability R&D Center	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	Hydrogen & Geothermal;Energy	6日(一)中秋節(放假)，10日(五)國慶日(放假)
第6週	10.16~10.23	Smart agriculture	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	Environment science and engineering	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	Smart agriculture machine	30日校課程委員會
第9週	11.06~11.13	Midterm week	3~9日期中考試
第10週	11.13~11.20	UAV for agriculture	13日教務會議,16日教師期中成績上網登錄截止日
第11週	11.20~11.27	Animal vaccine	
第12週	11.27~12.04	MOVIE	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	Aviation technology	
第14週	12.11~12.18	Space technology	12日申請停修課程截止日
第15週	12.18~12.25	Unmanned aerial vehicles	
第16週	12.25~1.01	Ocean technology	22日校務會議。25日行憲紀念日(放假)
第17週	1.01~1.08	Environmental protection	1日(四)開國紀念日(放假)
第18週	1.08~1.15	Final week	5~11日期末考試，10~11日學生退宿