



《尊重智慧財產權，請使用正版教科書，勿非法影印書籍及教材，以免侵犯他人著作權》

開課班級:

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	2.19~2.25	Introduction of advance technologies	19日正式上課。19~23日加退選，復(轉)學生及延修生選課，雙主修、輔系申請，23日申辦抵免學分截止日
第2週	2.26~3.03	Energy	28日和平紀念日(放假)
第3週	3.04~3.10	Smart agriculture	
第4週	3.11~3.17	Sustainable develop target	11日成績優異提前畢業者提出申請截止日,14日第1次校教評會
第5週	3.18~3.24	Aerospace engineering	
第6週	3.25~3.31	Aeronautics engineering	
第7週	4.01~4.07	holiday	3日(三)校慶補假(112年11月25(六)日校慶活動日)。4日(四)兒童節、民族掃墓節(放假)，5日(五)民族掃墓節補假
第8週	4.08~4.14	Unmanned aerial vehicles Smart agriculture machine	10日校課程委員會。11日第2次校教評會
第9週	4.15~4.21	Midterm week	15~21日期中考試
第10週	4.22~4.28	UAV for agriculture	22~26日學士班申請轉系,27~28日四技二專統一入學測驗,28日教師期中成績上網登錄截止日
第11週	4.29~5.05	Animal vaccine	
第12週	5.06~5.12	Environment science and engineering	11日多益測驗(暫定)
第13週	5.13~5.19	linformation;technology	16日第3次校教評會。19日博士班招生(暫定)
第14週	5.20~5.26	One health	20~24日體育運動週，22日水上運動會(暫定),24日申請停修課程截止
第15週	5.27~6.02	Micro and Nano robot	27~31日藥物濫用防制宣導週
第16週	6.03~6.09	Ocean technology	3日校務會議。3~9日畢業班(學士)期末考試。
第17週	6.10~6.16	Biotechnology	10日端午節(放假)，12日畢業班授課教師送交學期成績截止
第18週	6.17~6.23	Final week	17~23日期末考試