開課班級: 博熱農一A **授課老師: 李栢淳** **學分數: 3**

課程大綱:

This course will introduce development trends on international agriculture, and its topics include the state of global agriculture, agricultural development, food security and nutrition, climate change, farmland water scarcity and conservancy, agricultural product distribution, smart agriculture, agricultural finance, digital agriculture,farmers' organizations,one health approach, agricultural extension, agricultural science and technology, accession to WTO Impact on Agriculture and countermeasures.

outline:

The United Nation (UN) Sustainable Development Goals (SDGs) are a series of 17 goals for world development that directly or indirectly agricultural focus on end of poverty and hunger, food security and nutrition, sustainable agriculture, management of water, sustainable energy, sustained, inclusive and sustainable economic growth, resilient infrastructure, sustainable consumption and production patterns, climate change and its impacts, oceans, seas and marine resources, terrestrial ecosystems, forests, desertification, land degradation, biodiversity, peaceful and inclusive societies as well as global partnership,. In order to achieve the SDGs before the designated 2030 deadline, resource allocation must play a critical role in the organization of global society. This course on agricultural development aims to teach students to understand trends in international agricultural development. The key contemporary issues in international agriculture and development – including food security, food safety, poverty reduction, climate change, greenhouse gas (GHG) emissions, the effects of the financial crisis on agricultural development, food crises and food aid etc. The international agriculture and development highlights two major regional challenges, which are sub-Saharan Africa and South Asia. Agricultural productivity growth is vital for stimulating growth in other parts of the economy, but accelerated growth requires a sharp productivity increase in small holder farming combined with more effective support to the millions coping as subsistence farmers, many of them in remote areas. The success will also depend on concerted action by the international development community to confront the challenges ahead. We must level the playing field in goods, such as technologies for tropical food staples; help developing countries address climate change; and overcome looming health pandemics for plants, animals, and humans.

教學型態:

課堂教學+小組討論

成績考核方式:

平時成績:40%
期中考:30%
期末考:30%
其它:%

本科目教學目標:

1.培育熱帶農業研發管理高階人才。 To provide advanced training on R&D and management in tropical agriculture. **2.養成技術研發與解決問題之獨立思考邏輯。** To incubate the independent logical thinking in technological R&D and problem-solving.
3.研發整合農業生產及管理技術，促成國際合作與發展。 To integrate agricultural productions and management skills, and to facilitate international cooperation and development.

參考書目:

1. Pai Po Lee (2022), Development Trends of International Agriculture, National Pingtung University of Science and Technology. 2. Pai Po Lee (2022), Agricultural Policy and Economic Development, National Pingtung University of Science and Technology.

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	Food Outlook	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	9.18~9.25	The State of Food Security and Nutrition in the World: Food Security and Nutrition ;;;;;;;; Around the World	28日和平紀念日(放假)
第3週	9.25~10.02	Climate change, Agriculture and Food Security	
第4週	10.02~10.09	;Trade and Food Security: A Better Balance between National Priorities	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	10.09~10.16	Organic agriculture in the world presentation	
第6週	10.16~10.23	Food Aid and Humanitarian Food Assistance in Emergency-prone Developing Countries	
第7週	10.23~10.30	The State of Agriculture Commodity Market: Trade and Food Security Achievement- A ;;;;;;;; better Balance between National Priorities and The Collective Goal	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	10.30~11.06	Midterm Exam Week	10日校課程委員會。11日第2次校教評會
第9週	11.06~11.13	Developing Sustainable Food Value Chain Virtual Water Trade and Securing Water for Food	15~21日期中考試
第10週	11.13~11.20	Microfinance: Impacts and Assessment Big Data Technologies the Future and Opportunities of 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	11.20~11.27	Impacts of climate change on fisheries and aquaculture: Synthesis of current knowledge, adaptation and mitigation options	
第12週	11.27~12.04	Integrated Farming System and Sustainable Agriculture for biodiversity	11日多益測驗(暫定)
第13週	12.04~12.11	Information Communication Technology (ICT) in Agriculture Connecting Smallholders to Knowledge, Networks, and Institutions: Improving Public Service Provision	16日第3次校教評會。19日博士班招生(暫定)
第14週	12.11~12.18	The State of Land And Water Resources For Food And Agriculture; : Managing Systems at Risk	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	12.18~12.25	Biodiversity for Sustainable Agriculture	27~31日藥物濫用防制宣導週

第16週	12.25~1.01	Future of Food; Maximizing Finance for Development in Agricultural Value Chains	3日校務會議。3~9日畢業班(學士)期末考試。
第17週	1.01~1.08	The Future of Food and Agriculture: Trends and Challenges	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	1.08~1.15	Final Exam Week	17~23日期末考試