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②国玄東華大學

課 網 Course Outline

生命科學系學士班

中文課程名稱 Course Name in Chinese		植物生理學					
英文課程名稱 Course Name in English		Plant Physiology					
科目代碼 Course Code		LF20200	班 別 學 Bachel				
修別 Type		學程 Program	學分數 Credit(s)	3. 0	時 數 Hour(s)	3.0	
先修課程 Prerequisite		無					
課程目標 Course Objectives							
了解植物組織結構及其生理功能。							
系教育目標 Dept.'s Education Objectives							
1	培養從事生命科學相關領域之人才 Cultivating talents engaged in life science						
2	培育學生具有自我學習、獨立思考與創新之能力 Fostering students to acquire the capabilities of self-learning, independent thinking, and innovation.						
系專業能力 Basic Learning Outcomes					力相關性 Correlat between Objectiv Dept.'s	課程目標與系專業能 力相關性 Correlation between Course Objectives and Dept.'s Education Objectives	
A	A 具備生命科學相關學科之基礎知識 Having the basic knowledge of life science.						
В	具備邏輯分析與解決問題的能力 Having the capabilities of logical analysis and problem solving.					0	
С	具備資料整合、數據分析與書面及口頭報告之能力 Having the capabilities of data integration and analysis, and the skills of written and poster presentation.					0	
D	D 具備終生學習的能力 Having the capability of lifelong learning.						
圖示說明Illustration :● 高度相關 Highly correlated ○中度相關 Moderately correlated							
課程大綱 Course Outline							

- (1) Plant Cells
- (2) Diffusion, Thermodynamics and water potential
- (3) Osmosis
- (4) Photosynthesis
- (5) Absorption of Mineral Salts
- (6) Transport in the Phloem
- (7) Enzymes, Proteins, and amino acids
- (8) Carbon Dioxide Fixation and Carbohydrate Synthesis
- (9) Respiration
- (10) Growth and Development
- (11) Hormones and Growth Regulators
- (12) The Movement in Plants
- (13) The Biological Clock of Plants
- (14) Stress Physiology

資源需求評估(師資專長之聘任、儀器設備的配合・・・等)

Resources Required (e.g. qualifications and expertise, instrument and equipment, etc.)

現有合宜專任師資;購置訂閱植物生理學相關圖書及期刊,提供幻燈機, 投影機等教學用具。

課程要求和教學方式之建議

Course Requirements and Suggested Teaching Methods

由淺入深,介紹植物組織及生理功能,佐以投影片圖文介紹加深學習效果

其他

Miscellaneous