	Green Energy Special Class 專班名稱: 綠能科技專班
Degree 學位	2-Year Post-Baccalaureate Degree/學士後二年制學士專班
College 學院	College of Engineering/工程學院
Department 學系	Department of Environmental Engineering/環境工程系
Begin Term 開始學期	Autumn Semester (Enroll in September) /秋季(9月入學)
Introduction Language 授課語言	Course taught in English/英文授課
Language Proficiency 語言能力	English proficiency certificate/ proof required Above CEFR B1 Chinese proficiency certificate/ proof required Listening and reading at least level A2 in second year. 英文能力 須達 CEFR B1 級(含)以上 入學第 2 年華語文能力測驗(TOCFL) 基礎級(Level 2,相當於 CEFR A2)聽、讀 2 項皆須達 A2 級(含)以上
Application Documents 申請文件	 1. 1. Application form 2. Personal information collection statement and agreement. 3. The highest-level degree diploma and highest degree's full transcript of records. 4. Language Proficiency Certificate (Certificate of TOEIC 650 or above CEFR B1) 5. One photocopy of complete highest degree transcript 6. Photocopy of passport (if available) 7. Other advantageous documents. (for example: Language ability certificates, autobiography in Chines or English, certificates of examinations, awards etc.) 1. 入學申請表正本 1 份 2. 個人資料蒐集聲明暨同意書 3. 外國學校最高學歷及成績單影本(中、英文以外之語言,應附中文或英文譯本 4. 語文能力證明文件(多益 650 分或相當於 CEFR B1 等級以上之英文能力證明) 5. 經認證之英文成績單 6. 申請人護照影本 1 份。 其他有利之審查資料。(如:語文證明、中文或英文自傳、證照、獎狀…等)

Interview/ Oral Exam 面試/口語 考試	Interview with Collaborating Companies 面試(與合作企業)
Written Exam 筆試	None 無
Additional Notes 補充說明	Obligations 1. Students receiving industry-academia scholarships from the National Development Fund, Taiwan are obligated to stay and work in Taiwan for a corresponding period based on the number of years they received the scholarship 2. Those receiving a one-year industry-academia scholarship have a one-year obligation to stay and work in Taiwan, while those receiving a two-year industry-academia scholarship have a two-year obligation to stay and work in Taiwan. 每取獎學金義務學生領取國發基金產學獎助金的學生,依據領取年限具有相應留臺就業年限的義務。 「領取1年產學獎助金者,具有1年留臺就業義務,領取2年產學獎助金者,具有2年留臺就業義務。 ****Note: If the circumstances are under student control, requirement for repayment: If students withdraws from the program midway during the academic term due to personal reasons, such as applying for transfor to another program, changing majors, taking a leave of absence, or returning to their home country, ad after counseling from the school, still decides to give up continuing in the program, or if the school, in accordance with its regulations, decides to withdraw or expel the student, the student is required to full repay any industry-academia scholarship funds received. If a student chooses not to work for the collaborating company or in a related industry field after graduation, and despite counseling from the school, the student is required to fully repay any industry-academia scholarship funds received. If a student after graduation, and despite counseling from the school, the student is required to fully repay any industry-academia scholarship funds proportionally based on the number of months not employed; for a period less than one month, it will be counted as one month. During the period of fulfilling the employment obligation after graduation, students are required to work in a position within domestic collaborating companies in Taiwan. They are not allowed to be dispatched to work at overseas branches or be employed by overseas Taiwanese-owned companies. If a student fails to comply with the requirement of domestic employment, they should

就學期間因個人因素中途退出專班,如申請轉學、轉系、休學返國,經學校輔導後仍放棄繼續就讀專班、或經學校依學則退學、開除學籍等情形,學生 應全額返還已領之產學獎助金。

學生學習表現不佳,未通過學校及企業評核標準,並經學校輔導後仍無改善且依學則處以退學、開除學籍等情形,學生應全額返還已領之產學獎助金。學生畢業後選擇不至合作企業或相關產業領域就業,並經學校輔導後仍無改善者,學生應全額返還已領之產學獎助金。

學生畢業就業後違反公司規定被依法終止勞動契約,並經學校輔導後仍無改善者,學生應依未就業之月數比例返還產學獎助金;不滿一月者,以一月計。

學生於合作企業就業期間未滿受領產學獎助金年限:應依其未就業之月數比例繳還產學獎助金;不滿一月者,以一月計。

***學生畢業後履行就業義務期間,應留臺於國內合作企業任職,不得由合作企業外派至國外分公司任職,或任職於海外臺商企業。如有前述未於國內就業情形,應依未於國內就業之月數比例返還已領之產學獎助金;不滿一月者,以一月計。

- 1. Administrative fees for arrival in Taiwan: One-time subsidy covering prearrival health check expense, visa fees, and document verification fees. The maximum amount is NTD\$10,000.
- 2. One-way flight ticket: One-time subsidy, the airfare is verified based on the economy class one-way ticket for the most direct route to Taiwan. The maximum amount is NTD\$9,000.
- 3. National Development Fund Scholarship: A maximum of two years of tuition and miscellaneous fee subsidies will be provided.
- 4. Subsidies are provided based on the actual tuition and fees payable to the school, with annual cap of NTD100,000 and a semester cap of NTD\$50,000.
- 5. Full tuition fee subsidies are provided in the first year, and the second year tuition fee subsidies are provided based on the merit after reviewing grades and performance in collaboration with the school, and also pass the Chinese proficiency test-listening and reading at least at level A2.
- 6. Collaboration company provide students with a monthly living allowance NTD\$10,000 during their study period up to 2 years.

Scholarship 獎學金

- 1. 初次來臺的相關必要行政費用:採一次性補助,包含來臺前的健康檢查費用、簽證費用及文書驗證費用,以地區分列補助上限為:新南向區域國家及其他國家上限新臺幣1萬元、歐美區域國家上限2萬5,000元(核實報支)。
- 2. 來臺單程機票:採一次性補助,機票費用以來臺最直接航程之經濟艙單程機票核實請領,新南向區域國家上限為9,000元、歐美區域國家上限3萬5,000元(核實報支)。學校應請學生檢據核銷,並以收據開立當日之臺灣銀行美金對新臺幣匯率計算。
- 3. 國發基金補助註冊入學後最多2年的學雜費:
- 4. 依學生實際應繳交給學校的學雜費給予補助,每年補助上限 10 萬元 (一學期上限為5萬元)。
- 5. 學生入學第一年給予學雜費補助,第二年聽、讀2項皆須達A2級(含)以上,且需通過學校與合作企業審查成績與表現後,擇優核給學雜費補助。
- 7. 合作企業提供每個月一萬元獎學金(至多兩年,共計24萬元)。

Due to the decreasing domestic newborn population and the demand for mid-to-high-level technical talents by the cooperative Green Shepherd company. This special class has expanded its enrollment of Filipino students, attracting outstanding international students from the Philippines to study in Taiwan and stay in Taiwan after graduation.

Introduction of the Program 本專班介紹 及專班特色 Green Shepherd company provides the service of integrating various renewable energy systems. Its service base is located in Southern Taiwan and Southeast Asia. Its products include solar power generation system, biogas power generation system, heat pump sludge dryer, multifunctional energy storage system and etc. We hope to recruit Filipino students with English as the official language through this special class. After two years of practical learning in green energy domain (learning Chinese language and professional practical courses at school in the first year, and internship at Green Shepherd local base in Taiwan and overseas base in the second year). The students will get a job in Taiwan after graduation from this special class, and the opportunity of being assigned to overseas base. This special class is aimed at cultivating talents in the international for Taiwan green energy industry.

本專班因應國內少子女化、合作企業牧陽能控股份有限公司對中高階技術人才需求及強化國內人力結構,擴大招收菲律賓國籍學生,吸引菲律賓優秀的國際生來臺就學,並於畢業後留合作企業發展就業,引入優質人才。合作企業牧陽能控股份有限公司提供再生能源系統整合服務,以南台灣與東南亞為服務據點,主要產品包含太陽能發電系統、沼氣發電系統、熱泵污泥乾燥、多功能儲能系統等,相關產品與服務已擴及海外。期許經由本專理招收以英語為官方語言的菲律賓國籍學生,歷經本班兩年的綠能實務學習人一年級在學校修習華語與專業實務課程、二年級在合作企業的台灣與海外場實習為主),畢業後留台或外派至海外據點工作。本專班目標為台灣合作企業培育綠能國際產業人才。

Curriculum Planning 課程規劃

- 1. Number of credits required for graduation of this special class
 - (1) Number of credits for graduation: 48 credits in total, including 22 credits of compulsory courses (10 credits of off-campus internships) and 26 credits of elective courses (4 credits of off-campus internships)
 - (2) Years of study: 2 years (including 1 year of on-campus courses and 1 year of off-campus internship)
- (一) 專班之畢業應修學分數
 - 1. 畢業學分數:共48學分,含必修22學分(其中校外實習占10學分)、選修26學分(其中校外實習占4學分)
 - 修業年限
 2年(含校內課程1年、校外實習1年)

(—) Course plan	nning table 課程規劃表				
Course name 課程 名稱	Course Outline 課程綱要	Teach hours per week 授課 時數	Elective	Number of credits 學分數	Teaching grade 授課年 級

Situational Chinese(I) - Waystage Level 實用生活華語 -基礎級(一)	2.	Focus on practical vocabulary in daily life. Improve learners' ability to apply in real situations) Eight major themes: personal information and family, daily life, shopping and business behavior, food and culture, living and environment, leisure and entertainment, travel and transportation, and lifestyle	3	Required Course 必	3	1 st semester of 1 st grade 一上
		著學科與 實別 實別 實別 所真 所 其 對 , 情 的 力 的 力 的 是 的 是 的 是 的 是 的 是 的 是 的 。 大 、 業 、 、 、 、 、 、 、 、 、 、 、 、 、 、 、 、 、				
Chinese for Workplace Waystage Level 職場溝通華語 -基礎級	2.	(Focus on practical vocabulary in workplace. Improve learners'ability to apply in real situations) Topic: Who are you - self-introduction, what do you want to do - work content, overtime, ask for leave, company regulations, temporary situations, worshiping 著重職場實用詞彙,提	3	Required Course 必	3	1 st semester of 1 st grade 一上
Seminar (I) 專題研究(一)	In (升學習者對於真實情境的理解能力與應用能力。 主題:你是誰-自我介紹來。你要做什麼-工作內容、你要做什麼-工作內球定、 可規定、吃尾牙。 可der to instruct students niliar with the working ce and operation types,	4	Elective Course 選	2	1 st semester of 1 st

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	this course combines professional knowledge of environmental engineering with practical skills for providing professional practice training.				grade 一上
	引導學生熟悉合作廠商工作場域與作業型態,讓學 生將環境工程專業知識與 實務技能結合,進行專業 實務訓練。				
Experiments of Environmental Microbiology 環境微生物學 及實驗	This course introduces the concept of microorganism and its role in the environment to enable students understanding the effect of microorganism and the proposal of contamination cleanup. 本課程介紹微生物基本概念及其在環境之角色,讓學生瞭解微生物之影響,及提出解決污染之建議。	3	Elective Course 選	3	1st semester of 1st grade 一上
	This course introduces monitoring knowledge, including sampling, analysis method and data quality to enable students understanding the application of AIOT system on environmental monitoring. 本課程介紹環境監測知識包括採樣、分析方法與品質管理,讓學生瞭解智能系統在環境監測的運用。	3	Elective Course 選	3	1st semester of 1st grade 一上
Soil pollution and remediation 土壤污染與整 治	This course introduces soil physic-chemical characteristics and pollution sources to enable students understanding the function of pollutant in soil matrix and the proposal of soil pollution cleanup.	3	Elective Course 選	3	1 st semester of 1 st grade 一上

	本課程介紹土壤物理化學 特性、污染物來源,瞭解 污染物於土壤介質中的作 用,及提出土壤污染之整 治方式。				
Introduction of Energy 能源概論	This course introduces green energy types, their application and importance in the environment to enable students capable of linking the energy problems to the environment.	2	Elective Course 選	2	1st semester of 1st grade 一上
	本課程介紹各種綠色能源 的形式與應用,及其在環 境的重要性,讓學生將能 源問題融入於環境工程。				
Situational Chinese(II) - Waystage Level 實用生活華語 -基礎級(二)	 Focus on practical vocabulary for daily life. Improve learners' ability to apply in real situations Eight major themes: education and learning, health and physical care, interpersonal relationships, work and society, technology and innovation, festivals and customs, history and humanities, geography and international perspective. 著生活實用詞彙, 提升學習者對於應用能力。 主題:教育與學 護內大主題:教育與學 護內共主意,如果與國際 與學 對於 如果與國際 與學 對於 如果如果如果如果如果如果如果如果如果如果如果如果如果如果如果如果如果如果如果	3	Required Course 必	3	2nd semester of 1st grade 一下
Chinese Listening and Reading Comprehension	 Chinese language proficiency test: 1000 words in basic level Strengthen grammar and review a thousand words 	3	Required Course 必	3	2nd semester of 1st grade

Seminar (II) 專題研究(二)	at the same time. Simulate the test to familiarize with the test method 3. Ten major themes: personal information, house and family, environment, daily life, leisure and entertainment, food, relationships with others, health and physical care, travel, shopping, education 1. 華語文能力測驗基礎紹刊的。 2. 加強學生熟悉() 3. 3.十大房屋與獨與人人、体人照顧。 () 3. 3.十大房屋與活他人照顧。 In order to instruct students familiar with the working place and operation types, this course combines professional knowledge of environmental engineering with practical skills for providing professional practice training. 引導學生熟悉合作廠,讓調達學生熟悉合作廠,讓過費生將環境生熟。	4	Elective Course 選	2	2nd semester of 1st grade 一下 2nd semester of 1st grade 一下
	生將壞境工程專業知識與實務技能結合,進行專業實務訓練。 This course introduces the principle, procedure and applicability of water quality	3	Elective Course 選	3	2nd semester of 1st
	analysis methods to enable students capable of conducting water quality analysis, handling analytical data and interpreting		妆		grade -F

	analytical result. 本課程介紹水質分析方法 之原理,步驟與適用性, 讓學生具有分析水質之實 驗能力,能處理與分析數 據,並能判讀分析結果。				
Environmental Impact Assessment 環境影響評估	This course introduces the concept of Environment Impact Assessment as well as the guidelines of EIA review to enable students capable of inquiring and compiling materials as well as familiar with the EIA technology.	3	Elective Course 選	3	2nd semester of 1st grade — 下
	本課程介紹環境影響評估 基本觀念與審議規範,讓 學生能熟知環境影響評估 相關技術,並具有資料查 詢彙整能力。				
Management of Green House Gases 溫室氣體管理	This course introduces the international trend of Climate Change and GHG reduction issues to enable students capable of implementing GHG inventory and management.	3	Elective Course 選	3	2nd semester of 1st grade — 下
	本課程介紹氣候變遷與溫 室氣體減量議題之國際發 展趨勢,讓學生具備盤查 及管理組織內溫室氣體之 基本技能。				
Introduction of Circular Economy 循環經濟概論	This course introduces the concept, principle and methodology of Circular Economy to enable students understanding the novel circular economy technology originate from reduction, reuse and resource of waste.	2	Elective Course 選	2	2nd semester of 1st grade — 下
	本課程介紹循環經濟的基 本理念、原則和方法,讓 學生瞭解將廢棄物"減量 化、再利用、資源化"融合 為循環經濟創新技術。				

	Internship(I) 企業實習(一) Internship in Taiwan to implement professional practice training according to the constraint of Green Shepherd Company. 依合作廠商要求,進行專業實務訓練 Internship(II) Internship in Taiwan to A Required Course 以 Required Course 以 Required Course 以 A Required Course A Required Shepherd Company. A Required Course A Required Course A Required Course A Required Shepherd Course A Required Course A Required Course A Required Course A Required Course A A Required Course A A Required Shepherd Course A A A Required Course A A A Required Course A A A Required Course A A A A Required Course A A A A A Required Shepherd Course A A A A A A A A A A A A A A A A A A A		
	Internship(II) 企業實習(二) 企業實習(二) Internship in Taiwan to implement professional practice training according to the constraint of Green Shepherd Company. 依合作廠商要求,進行專業實務訓練		
未來的遠景 Future map	Students should work in Taiwan after graduation for at least 2 years in a collaborating company. ***Collaborating Companies Green Shepherd Company (System Maintenance Engineer/ 15 staff; Energy Technology Project Spare Manager/ 5 staff) 本所畢業生需進入合作企業在台工作至少兩年。 ***合作企業: 牧陽能控股份有限公司(系統維運工程師 15 個職位; 能源科技專案儲備幹部 5 個職位)		
網站連結 Website	報名網站:https://intactbase.ksu.edu.tw/		
專班聯繫人 Contact	Department: Department of Environmental Engineering Name: Wu, Ting-Nien Tel.: 06-2050524 Fax: 06-2050540 Email: wutn@mail.ksu.edu.tw 單位: 環境工程系 姓名: 吳庭年 電話: 06-2050524 傳真: 06-2050540 Email: wutn@mail.ksu.edu.tw		