

**Electrical Engineering International Industry Talent Education Special Class**  
**專班名稱:電機國際產業人才教育專班**

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 Electrical Engineering/電機工程系
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	<p>English proficiency certificate/ proof required</p> <ul style="list-style-type: none"> <li>● Above CEFR B1</li> </ul> <p>Chinese proficiency certificate/ proof required</p> <ul style="list-style-type: none"> <li>● Listening and reading at least level A2 in second year.</li> </ul> <p>英文能力</p> <ul style="list-style-type: none"> <li>● 須達 CEFR B1 級(含)以上</li> </ul> <p>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</p>
Application Documents 申請文件	<ol style="list-style-type: none"> <li>1. Application form</li> <li>2. Personal information collection statement and agreement.</li> <li>3. The highest-level degree diploma and highest degree's full transcript of records.</li> <li>4. Language Proficiency Certificate (Certificate of TOEIC 650 or above CEFR B1)</li> <li>5. One photocopy of complete highest degree transcript</li> <li>6. Photocopy of passport (if available)</li> <li>7. Other advantageous documents. (for example: Language ability certificates, autobiography in Chinese or English, certificates of examinations, awards etc.)</li> </ol> <ol style="list-style-type: none"> <li>1. 入學申請表正本 1 份</li> <li>2. 個人資料蒐集聲明暨同意書</li> <li>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)</li> <li>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)</li> <li>5. 經認證之英文成績單</li> <li>6. 申請人護照影本 1 份。</li> </ol> <p>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)</p>

<p>Interview/ Oral Exam 面試/口語 考試</p>	<p>Interview with Collaborating Companies 面試(與合作企業)</p>
<p>Written Exam 筆試</p>	<p>None 無</p>
<p>Additional Notes 補充說明</p>	<p>Obligations</p> <p>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.</p> <p>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.</p> <p>領取獎學金義務 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。</p> <p>***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 transfer to another program, changing majors, taking a leave of absence, or returning to their home country, and 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 graduating and entering employment, violates company regulations leading to the lawful termination of the employment contract, and despite counseling from the school, the student should repay the 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 repay the industry-academia scholarship funds proportionally based on the number of months not employed in Taiwan; for a period less than one month, it will be counted as one month.</p> <p>***屬可歸責於學生之原因，應繳還產學獎助金： 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。</p>

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。

Scholarship  
獎學金

1. Administrative fees for arrival in Taiwan: One-time subsidy covering pre-arrival 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.

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）。

Introduction  
of the  
Program  
本專班介  
紹及專班  
特色

Due to the decreasing domestic child population and the demand for mid-to-high-level technical talents by the cooperative company: Sunonwealth Electric Machine Industry Co., Ltd (Sunonwealth) . 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.

Sunonwealth is a high-quality stock listed company in Taiwan. Its production base is located in southern Taiwan and Southeast Asia. Its precision motor-related products are

sold to the world. We hope to recruit Filipino students with English as the official language through this special class. After two years of practical learning in electrical engineering (first-year students learning Chinese language and professional practical courses at school, second-year students intern in Taiwan and overseas fields of Sunonwealth). This special class graduated students will stay in Taiwan or be assigned to work in overseas subsidiaries to cultivate talents in the international motor industry for Taiwan cooperative company.

本專班因應國內少子女化、合作企業建準電機工業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。  
合作企業建準電機工業股份有限公司是國內優質的股票上市公司，以南台灣與東南亞為生產據點，將其精密馬達相關產品銷售到全球國際化。期許經由本專班招收以英語為官方語言的菲律賓國籍學生，歷經本班兩年的電機實務學習（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域實習為主），畢業後留台或外派至海外子公司工作，為台灣合作企業培育電機國際產業人才。

- (1) Number of credits required for graduation of this special class
1. Number of credits for graduation: 48 credits in total, including 39 credits of compulsory courses (8 credits of off-campus internships) and 9 credits of elective courses
  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39學分(其中校外實習占8學分)、選修9學分(其中校外實習占0學分)
  2. 修業年限2年(含校內課程1年、校外實習1年)

(二) Course planning 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	Required or Elective Course 必修	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)	1. Focus on practical vocabulary in daily life. Improve learners' ability to apply in real situations 2. 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.  1. 著重生活實用詞彙，提升	3	Required Course 必	3	1 <sup>st</sup> semester of 1 <sup>st</sup> grade 一上

Curriculum Planning  
課程規劃

	<p>學習者對於真實情境的理解能力與應用能力。</p> <p>2. 八大主題:個人資料與家庭、日常生活、購物與商業行為、飲食與文化、居住與環境、休閒與娛樂、旅行與交通、生活時尚。</p>				
<p>Chinese for Workplace Waystage Level 職場溝通華語 -基礎級</p>	<p>1. Focus on practical vocabulary in workplace. Improve learners' ability to apply in real situations.</p> <p>2. Topic: Who are you - self-introduction, what do you want to do - work content, overtime, ask for leave, company regulations, temporary situations, worshipping.</p> <p>1. 著重職場實用詞彙，提升學習者對於真實情境的理解能力與應用能力。</p> <p>2. 主題:你是誰-自我介紹、你要做什麼-工作內容、加班、請假、公司規定、臨時狀況、拜土地公、吃尾牙。</p>	3	Required Course 必	3	1 <sup>st</sup> semester of 1 <sup>st</sup> grade 一上
<p>Situational Chinese(II) - Waystage Level 實用生活華語 -基礎級(二)</p>	<p>1. Focus on practical vocabulary for daily life. Improve learners' ability to apply in real situations</p> <p>2. 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.</p> <p>1. 著重生活實用詞彙，提升學習者對於真實情境的理解能力與應用能力。</p> <p>2. 八大主題:教育與學習、健康與身體照護、人際關係、工作與社會、科技與創新、節慶與習俗、歷史與人文、地理與國際眺望。</p>	3	Required Course 必	3	2 <sup>nd</sup> semester of 1 <sup>st</sup> grade 一下
<p>Chinese Listening and Reading Comprehension</p>	<p>1.Chinese language proficiency test: 1000 words in basic level</p>	3	Required Course	3	2 <sup>nd</sup> semester of 1 <sup>st</sup> grade



	<p>-Level 2 華語文能力測驗 聽力閱讀-基礎級</p>	<p>2. Strengthen grammar and review a thousand words 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.</p> <p>1. 華語文能力測驗基礎級 1000 詞。 2. 加強語法，同時練習與複習一千詞，模擬測驗使學生熟悉測驗方式。 3. 十大主題: 個人資料、房屋與家庭、環境，日常生活、休閒娛樂、飲食、與他人關係、健康及身體照顧、旅行、購物、教育。</p>		必		一下
	<p>Basic electricity 基礎電學</p>	<p>Basic electricity, resistance, simple resistance circuit, voltage division and current division theorem, conductor and insulator</p> <p>基本電量、電阻、簡單電阻電路、分壓及分流定理、導體與絕緣體</p>	3	Required Course 必	3	1 <sup>st</sup> semester of 1 <sup>st</sup> grade 一上
	<p>Introduction of Automation 自動化概論</p>	<p>Explanation of programmable logic control instructions, programming software operation, introduction to electromechanical control, pneumatic/hydraulic components, electrical pneumatic control loops, integration and application of electromechanical control systems</p> <p>可程式控制器指令解說、編程軟體操作、機電控制及氣/液壓元件和電氣氣壓控制迴路的介紹、機電控制系統的整合及應用</p>	4	Required Course 必	4	2 <sup>nd</sup> semester of 1 <sup>st</sup> grade 一下

Introduction of Computers 計算機概論	Computer organization and structure, programming languages, operating systems, data structures and algorithms, computer networks, information security and network applications  計算機組織與結構、程式語言、作業系統、資料結構與演算法、電腦網路、資訊安全與網路應用	3	Required Course 必	3	1 <sup>st</sup> semester of 1 <sup>st</sup> grade 一上
Introduction of Green Technology 綠色科技概論	Application and analysis of solar energy, wind energy, biomass energy and fuel cells  太陽能、風能、生質能、燃料電池之應用與分析，生質能之應用，及新能源之應用效益分析。	3	Required Course 必	3	1 <sup>st</sup> semester of 1 <sup>st</sup> grade 一上
Industrial Safety and Health 工業安全與衛生	Industrial safety and health organizations and responsibilities, industrial safety and health inspections, hand tool safety, electrical safety, personal protective equipment and mechanical equipment protection, pressure vessel safety, and first aid in industrial safety  工業安全與衛生組織與職責、工業安全與衛生檢查、手工具安全、電力安全、個人防護器具機械設備防護、壓力容器安全、工業安全之急救。	3	Required Course 必	3	1 <sup>st</sup> semester of 1 <sup>st</sup> grade 一上
Circuit Practice 電路學實務	Characteristics and techniques of electronic components, electronic circuit analysis methods, characteristics and usage techniques of various active components  電子元件的特性與使用技巧、電子電路分析方法、各式主動元件的特性與使用技巧	3	Elective Course 選	3	2 <sup>nd</sup> semester of 1 <sup>st</sup> grade 一下
Sharing of	Factory	3	Elective Course	3	2 <sup>nd</sup>

workplace practices 職場實務分享	management/engineering practice case sharing 工廠管理/工程實務案例分享		選		semester of 1 <sup>st</sup> grade 一下
Introduction of Engineering Manual 工程使用手冊導讀	Introduction of examples in user manuals regarding the engineering field: preface, scope of application, specifications, installation, operating steps, precautions, and troubleshooting  工程領域使用手冊範例介紹：前言、適用範圍、規格、安裝、操作步驟、注意事項、故障排除	3	Elective Course 選	3	1 <sup>st</sup> semester of 1 <sup>st</sup> grade 一上
Special Topic Practice 專題實務	Develop special research directions, and analyze research process data, plan progress, and showing outcome  培養專題研究方向、研究過程資料的蒐集分析及規劃進度、成果的展現	3	Required Course 必	3	2 <sup>nd</sup> semester of 1 <sup>st</sup> grade 一下
Off-campus internship I 校外實習一	Internship in Taiwan to understand the practical content of planning, the ability to adapt to the environment and independent learning  在台灣場域實習，認識規劃實務操作內容、適應環境與自主學習的能力	24	Required Course 必	3	1 <sup>st</sup> semester of 2 <sup>nd</sup> grade 二上
Off-campus internship II 校外實習二	Internship overseas to understand the practical content of planning, the ability to adapt to the environment and independent learning  在海外場域實習，認識規劃實務操作內容、適應環境與自主學習的能力	40	Required Course 必	5	2 <sup>nd</sup> semester of 2 <sup>nd</sup> grade 二下



<p>未來的遠景 Future map</p>	<p>Students should work in Taiwan after graduation for at least 2 years in a collaborating company.          本所畢業生需進入合作企業在台工作至少兩年。          ***Collaborating Companies 合作企業:          Sunonwealth Electric Machine Industry Co., Ltd ( Production engineer / 20 staff)          Cultivate all-round talents related to precision motors, which are in demand in many industries</p> <p>建準電機工業股份有限公司 ( 製造工程師/20 人 )          培育成全方位精密馬達相關產品人才, 在多個產業都有需求</p>
<p>網站連結 Website</p>	<p>報名網站：<a href="https://intactbase.ksu.edu.tw/">https://intactbase.ksu.edu.tw/</a></p>
<p>專班聯繫人 Contact</p>	<p>Department: Department of Electrical Engineering          Name: Chang, Shang-Chou          Tel. 06-2050518          Fax          Email: <a href="mailto:jchang@mail.ksu.edu.tw">jchang@mail.ksu.edu.tw</a></p> <p>單位：電機工程系          姓名：張慎周          電話：06-2050518          傳真：          Email: <a href="mailto:jchang@mail.ksu.edu.tw">jchang@mail.ksu.edu.tw</a></p>