

Automation Engineer Special Class 專班名稱: 自動化工程師專班	
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	2025 Fall Semester (Enroll in September) /秋季(9月入學)
Introduction Language 授課語言	Course taught in English/英文授課
Nationality of admission 招生國籍	Philippines/菲律賓 India/印度
Language Proficiency 語言能力	<p>English proficiency certificate/ proof required</p> <ul style="list-style-type: none"> ● Above CEFR B1 <p>Chinese proficiency certificate/ proof required</p> <ul style="list-style-type: none"> ● Listening and reading at least level A2 in second year. <p>英文能力</p> <ul style="list-style-type: none"> ● 須達 CEFR B1 級(含)以上 <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"> 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 550 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 Chinese or English, certificates of examinations, awards, ...etc.) <ol style="list-style-type: none"> 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 550 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。 7. 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	<p>Obligations for Receiving Scholarship:</p> <ol style="list-style-type: none"> 1. Students who receive the Industrial-Academic Scholarship from the National Development Fund of Taiwan are obligated to work in Taiwan for a duration equivalent to the number of years they received the scholarship. 2. For students who received the scholarship for 1 year, there is a 1-year obligation to work in Taiwan. For those who received the scholarship for 2 years, there is a 2-year obligation to work in Taiwan. <p>領取獎學金義務</p> <ol style="list-style-type: none"> 1. 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。 2. 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>Repayment of Industrial-Academic Scholarship Due to Attributable Reasons:</p> <ol style="list-style-type: none"> 1. If a student discontinues the specialized program due to personal reasons during the period of study (such as transferring to another school or department, taking a leave of absence to return home), and if they withdraw from the program despite counseling from the school, or if they are dismissed or expelled due to school regulations, they must repay the full amount of the scholarship received. 2. If a student's performance fails to meet the standards of both the school and the partnering enterprise, and after counseling, they still fail to improve and are dismissed or expelled according to school regulations, they must repay the full amount of the scholarship received. 3. If a student chooses not to work in the partnering enterprise or a related industry field upon graduation and does not improve after counseling, they must repay the full amount of the scholarship received. 4. If a student, after beginning employment, violates company regulations and is lawfully terminated, and does not improve after counseling, they must repay the scholarship in proportion to the remaining months of the employment obligation; any incomplete month will be rounded up to a full month. 5. If a student leaves the partnering enterprise before completing the employment period equivalent to the scholarship duration, they must repay the scholarship in proportion to the remaining months; any incomplete month will be rounded up to a full month. <p>Employment Obligations During the Post-Graduation Period:</p> <ol style="list-style-type: none"> 1. During the period of post-graduation employment obligation, students must work domestically at the partnering enterprise in Taiwan. They are not permitted to be assigned by the partnering enterprise to an overseas branch or to work for overseas Taiwanese businesses. If a student is not employed domestically as required, they must repay the scholarship in proportion to the number of months they fail to work in Taiwan; any incomplete month will be rounded up to a full month. <p>***屬可歸責於學生之原因，應繳還產學獎助金：</p>

	<ol style="list-style-type: none"> 1. 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。 2. 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。 3. 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。 4. 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。 5. 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。 <p>***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。</p>
<p>Scholarship 獎學金</p>	<ol style="list-style-type: none"> 1. Initial Necessary Administrative Expenses for First-Time Arrival in Taiwan: One-time subsidy covering the costs of pre-arrival medical examination, visa fees, and document verification fees. The subsidy limits by region are as follows: <ul style="list-style-type: none"> • New Southbound countries and other countries: up to NTD 10,000. • Europe and the Americas: up to NTD 25,000 (reimbursed based on actual expenses). 2. One-Way Airfare to Taiwan: One-time subsidy based on the cost of an economy-class one-way ticket for the most direct route to Taiwan. <ul style="list-style-type: none"> • New Southbound countries: up to NTD 9,000. • Europe and the Americas: up to NTD 35,000 (reimbursed based on actual expenses). <p>The school should ask students to submit receipts for verification, and the exchange rate used should be based on the Taiwan Bank's USD to NTD rate on the date the receipt is issued.</p> 3. National Development Fund Subsidy for Up to 2 Years of Tuition and Miscellaneous Fees Post-Enrollment: <ol style="list-style-type: none"> (1) Subsidy covers actual tuition and miscellaneous fees that the student is required to pay to the school, with an annual cap of NTD 100,000 (NTD 50,000 per semester). (2) Tuition and fee subsidies are provided in the first year of enrollment. In the second year, students must achieve at least level A2 in listening and reading and must pass performance evaluations by the school and cooperating enterprise to qualify for the tuition fee subsidy. 4. Scholarship from the Partnering Enterprise: The partnering enterprise provides a scholarship of NTD 10,000 per month (up to a maximum of 2 years, totaling NTD 240,000). <ol style="list-style-type: none"> 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：

	<p>(1)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）。</p> <p>(2)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。</p> <p>4. 合作企業提供每個月一萬元獎學金（至多兩年，共計 24 萬元）。</p>												
Introduction of the Program 本專班介紹及專班特色	<p>In response to the country's declining birth rate, the need for mid- to high-level technical talent from our partner companies Chi Mei Foods Co., Ltd., Medtronic Medical International Co., Ltd., and Yuan Jia Yu Co., Ltd., and to strengthen the domestic human resource structure, this special class has expanded the recruitment of students with Filipino and Indian nationality, attracted outstanding international students from the Philippines and India to study in Taiwan, and for them to stay in Taiwan to develop employment after graduation, thus introducing high-quality talent to Taiwan.</p> <p>This special class is guided by the employment needs of enterprises and recruits international students to study in Taiwan. Enterprises participate in the entire process of admissions, selection, course teaching, and internship training to achieve the goal of jointly cultivating and retaining talents.</p> <p>本專班因應國內少子女化、合作企業奇美食品股份有限公司、美德向邦醫療國際股份有限公司及元佳宇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，擴大招收菲律賓和印度國籍學生，吸引菲律賓和印度優秀的國際生來臺就學，並於畢業後留臺發展就業，為臺灣引入優質人才。</p> <p>本專班以企業用人需求為導向，招收國際學生來臺就學，企業全程參與招生選才、課程教學及實習培育等，達到共同培育人才及留用人才的目標。</p>												
Curriculum Planning 課程規劃	<p>(一)專班之畢業應修學分數</p> <p>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0學分)。</p> <p>2. 修業年限2年(含校內課程1年、校外實習1年)</p> <p>(1) Graduation Credit Requirements for the Program</p> <p>1. Total Graduation Credits: 48 credits in total, including 22 required credits (with 10 credits from off-campus internships) and 26 elective credits (with 0 credits from off-campus internships).</p> <p>2. Program Duration: 2 years (including 1 year of on-campus courses and 1 year of off-campus internships).</p> <p>(二)課程規劃表((含校外實習，無則免列)</p> <p>(2) Course Plan (including off-campus internships, if applicable)</p> <table><tr><th>Course Title 課程名稱</th><th>Course Outline 課程綱要</th><th>Teaching hours per week 授課時數</th><th>Required/ Elective 必修 必選修</th><th>Credits 學分數</th><th>Grade Level 授課年級</th></tr><tr><td>實用生活華語-基礎級(一) Situational Chinese (I) - Waystage Level</td><td>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。 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。 1. Emphasizes practical</td><td>3</td><td>必/ Required</td><td>3</td><td>一上 First Year, First Semester</td></tr></table>	Course Title 課程名稱	Course Outline 課程綱要	Teaching hours per week 授課時數	Required/ Elective 必修 必選修	Credits 學分數	Grade Level 授課年級	實用生活華語-基礎級(一) Situational Chinese (I) - Waystage Level	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。 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。 1. Emphasizes practical	3	必/ Required	3	一上 First Year, First Semester
Course Title 課程名稱	Course Outline 課程綱要	Teaching hours per week 授課時數	Required/ Elective 必修 必選修	Credits 學分數	Grade Level 授課年級								
實用生活華語-基礎級(一) Situational Chinese (I) - Waystage Level	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。 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。 1. Emphasizes practical	3	必/ Required	3	一上 First Year, First Semester								


	<p>vocabulary for daily life, enhancing learners' understanding and application abilities in real-world situations.</p> <p>2. Eight major themes: personal information and family, daily life, shopping and business activities, food and culture, living and environment, leisure and entertainment, travel and transportation, lifestyle trends.</p>				
職場溝通華語-基礎級 Chinese for Workplace - Waystage Level	<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> <p>1. Focuses on practical workplace vocabulary, boosting learners' comprehension and application skills in authentic situations.</p> <p>2. Themes: Self-introduction, work tasks, overtime, taking leaves, company policies, emergency situations, worshipping the Earth God, and year-end parties.</p>	3	必/ Required	3	一上 First Year, First Semester
基礎電學及實習 Basic Electricity and Practice	<p>本課程介紹基本電量、電阻、簡單電阻電路、分壓及分流定理、導體與絕緣體的知識，並配合示波器、直流電源供應器、訊號產生器等儀器進行實習訓練。</p> <p>This course introduces the knowledge of basic electric quantity, resistance, simple resistance circuit, voltage division and current division theorem, conductor and insulator. It also provides practical training with instruments such as oscilloscope, DC power supply and signal generator.</p>	3	選 / Elective	3	一上 First Year, First Semester
電子學及實習 Electronics and internship	<p>本課程教學目標主要使學生瞭解電子電路之基本原理及</p>	3	選 / Elective	3	一上 First Year,

		其應用技術，授課內容為二極體、雙載子接面電晶體、場效電晶體的特性及應用，運算放大器的特性及應用，頻率響應分析，回饋放大器的設計與穩定性分析。 The teaching goal of this course is to enable students to understand the basic principles of electronic circuits and their application technologies. The course content includes the characteristics and applications of diodes, bipolar junction transistors, field effect transistors, the characteristics and applications of operational amplifiers, frequency response analysis, and the design and stability analysis of feedback amplifiers.				First Semester
	自動化概論 Introduction to Automation	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。 Explanation of programmable controller instructions, programming software operation, introduction to electromechanical control and pneumatic/hydraulic components and electrical and pneumatic control circuits, integration and application of electromechanical control systems.	3	選 / Elective	3	一上 First Year, First Semester
	程式設計 programming	程式設計-變數、程式設計-資料型別：學習如何宣告和使用變數，了解不同的資料型別（例如整數、浮點數、字串等）以及運算子的使用方式、程式設計-流程控制學習程式如何進行流程控制，包括條件判斷式（if-else 條件判斷）；程式應用範例講解與操作練習、程式設計-迴圈結構迴圈指令（for 循環、while 循環）等結構，來控制程式的執行流	3	選 / Elective	3	一上 First Year, First Semester

		<p>程。程式應用範例講解。</p> <p>Programming - variables, Programming - data types: learn how to declare and use variables, understand different data types (such as integers, floating point numbers, strings, etc.) and how to use operators, Programming - process control: learn how to perform process control in a program, including conditional judgments (if-else conditional judgments); program application example explanations and operational exercises, Programming - loop structures, loop instructions (for loops, while loops) and other structures to control the execution flow of a program. Program application example explanation. Introduce the types and characteristics of semiconductor materials (silicon, germanium, etc.) and the applications of semiconductor components in daily life.</p>				
	<p>實用生活華語-基礎級(二)</p> <p>Situational Chinese (II) - Waystage Level</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> <p>1. Focuses on practical vocabulary for daily life, enhancing learners' understanding and application skills in real-world scenarios.</p> <p>2. Eight major themes: education and learning, health and personal care, interpersonal relationships, work and society, technology and innovation, festivals and customs, history and culture, geography and global perspectives.</p>	3	必/ Required	3	<p>一下</p> <p>First Year, Second Semester</p>
	<p>華語文能力測驗</p> <p>聽力閱讀-基礎級</p> <p>Chinese Listening</p>	<p>1. 華語文能力測驗基礎級1000詞。</p> <p>2. 加強語法，同時練習與複</p>	3	必/ Required	3	<p>一下</p> <p>First Year,</p>

	and Reading Comprehension - Level 2	<p>習一千詞，模擬測驗使學生熟悉測驗方式。</p> <p>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> <p>1. Chinese Language Proficiency Test Basic Level 1000 Words.</p> <p>2. Strengthen grammar, practice and review a thousand words simultaneously, mock exams to familiarize students with the test format.</p> <p>3. Ten major themes: personal information, housing and family, environment, daily life, leisure and entertainment, food and dining, relationships with others, health and personal care, travel, shopping, education.</p>				Second Semester
	真空技術 vacuum technology	<p>本課程主要使學生認識真空技術原理，能具備將真空技術應用於日後從事相關工作並能瞭解真空技術與電機相關產業未來發展之方向。</p> <p>This course aims to enable students to understand the principles of vacuum technology, apply vacuum technology to related work in the future, and understand the future development direction of vacuum technology and motor-related industries.</p>	3	選/ Elective	3	一下 First Year, Second Semester
	機電整合實務 Mechatronics Practice	<p>本課程主要為培育學生在機電整合設計與相關應用的專業技能養成，並配合合作廠商實務工作場域的需求，培育學生在機電整合設計的專業知識與與相關應用的實務技能。</p> <p>This course is mainly aimed at cultivating students' professional skills in mechatronic design and related applications, and in line with the needs of the practical work field of cooperative manufacturers, cultivating students' professional knowledge in mechatronic design and practical skills in related applications.</p>	3	選/ Elective	3	一下 First Year, Second Semester
	工業配線實務 Industrial Wiring Practice	<p>本課程主要為培育學生能正確辨認低壓工業配電設備、使學生可達成工業配線技術配線及故障檢出和排出能力，授課內容為導線連接與處理、低壓工業配線元件、低壓工業配線電路配線要</p>	3	選/ Elective	3	一下 First Year, Second Semester

		<p>領、低壓工業配線故障檢修認識、低壓工業配線故障檢修操作、低壓電機控制裝置配置與固定、低壓電機控制配線。</p> <p>This course is mainly aimed at cultivating students' ability to correctly identify low-voltage industrial power distribution equipment and enable students to achieve industrial wiring technology wiring and fault detection and elimination capabilities. The course content includes wire connection and processing, low-voltage industrial wiring components, low-voltage industrial wiring circuit wiring essentials, low-voltage industrial wiring fault troubleshooting knowledge, low-voltage industrial wiring fault troubleshooting operations, low-voltage motor control device configuration and fixation, and low-voltage motor control wiring.</p>				
	專題研究 Special studies	<p>本課程讓學生具備自動化設備職場實務中所需之電機設備、機械設備等儀器的基礎詞彙華語語法，並進一步介紹相關電機元件及電器符號。</p> <p>This course will enable students to acquire the basic vocabulary and Chinese grammar of electrical equipment, mechanical equipment and other instruments required for workplace automation equipment, and further introduce the relevant electrical components and electrical symbols.</p>	3	選/ Elective	3	一下 First Year, Second Semester
	職場實務分享 Workplace Practice Sharing	<p>引導學生熟悉合作廠商工作場域與作業型態，讓學生瞭解電機工程專業知識與自動化設備生產流程實務技能結合的專業知識與實務經驗。</p> <p>Guide students to become familiar with the working environment and operation types of cooperating manufacturers, and let students understand the professional knowledge and practical experience that combines electrical engineering professional knowledge with practical skills in automation equipment production processes.</p>	2	選/ Elective	2	一下 First Year, Second Semester
	校外實習(一) Off-campus internship (I)	<p>認識規劃實務操作內容、適應環境與自主學習的能力。</p> <p>Understand the practical operation content of planning, adapt to the environment and have the</p>	40	必/ Required	5	二上 Second Year, First Semester

	<table><tr><td></td><td>ability to learn independently.</td><td></td><td></td><td></td><td></td></tr><tr><td>校外實習(二) Off-campus internship (II)</td><td>認識規劃實務操作內容、適應環境與自主學習的能力。 Understand the practical operation content of planning, adapt to the environment and have the ability to learn independently.</td><td>40</td><td>必/ Required</td><td>5</td><td>二下 Second Year, Second Semester</td></tr></table>		ability to learn independently.					校外實習(二) Off-campus internship (II)	認識規劃實務操作內容、適應環境與自主學習的能力。 Understand the practical operation content of planning, adapt to the environment and have the ability to learn independently.	40	必/ Required	5	二下 Second Year, Second Semester
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未來的遠景 Future map	*** Partnering Enterprise 合作企業： Chi Mei Foods Co., Ltd. (https://www.chimeifood.com.tw/) (10 positions) 奇美食品股份有限公司(https://www.chimeifood.com.tw/) (10 個職位) Medtronic Medical International Co., Ltd. (https://www.medtecs.com/) (10 positions) 美德向邦醫療國際股份有限公司(https://www.medtecs.com/)(10 個職位) Yuan Jiayu Co., Ltd. (https://www.twincn.com/) (4 positions) 元佳宇股份有限公司(https://www.twincn.com/) (4 個職位)												
網站連結 Website	<u>報名網站 Application Website</u> ： https://intactbase.ksu.edu.tw/ <u>Kun Shan University webside</u> : https://eng-web.ksu.edu.tw/DAIO000/page/59885  Chi Mei website: https://www.chimeifood.com.tw/  Medtecs International Corp. website: https://www.medtecs.com/  Yuan Jiayu website: https://www.twincn.com/												
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