

Advanced manufacturing of International Industry Master Program
專班名稱: 先進製造國際產業碩士專班

Degree 學位	Master/碩士
College 學院	College of Engineering/工程學院
Department 學系	Department of Mechanical Engineering/機械工程系
Begin Term 開始學期	Autumn Semester (Enroll in September) /秋季(9月入學)
Introduction Language 授課語言	Courses 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"> ● 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 ● 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	<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 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 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 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

	<p>6. 申請人護照影本 1 份。</p> <p>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)</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> <ol style="list-style-type: none"> 1. 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. 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>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>***Note: If the circumstances are under student control, requirement for repayment:</p> <ol style="list-style-type: none"> 1. 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. 2. 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. 3. 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. 4. 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

	<p>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：</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. 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. <ol style="list-style-type: none"> (1) 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. (2) 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. 4. Collaboration company provide students with a monthly living allowance NTD\$10,000 during their study period up to 2 years. <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。

	<p>3. 國發基金補助註冊入學後最多 2 年的學雜費：</p> <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>
<p>Introduction of the Program 本專班介紹及專班特色</p>	<p>In response to the demand for international talents in the research and development of high-end advanced manufacturing technologies in cooperative enterprises and the transformation of strengthening the international manpower structure of domestic industries, the advanced manufacturing of international industry master program has expanded its enrollment of Filipino students, attracting outstanding international students from the Philippines to study in Taiwan, and to stay in the cooperative after graduation. And in response to the urgent demand for sustainable transformation of domestic industries, technological upgrading and talents in the STEM field, this advanced manufacturing of international industry master program was established. The advanced manufacturing of international industry master program is oriented to the employment needs of enterprises and recruits international students to study in Taiwan. Enterprises participate in the entire process of recruitment and talent selection, course teaching and internship training, and expand the cultivation of international talents for high-end advanced manufacturing technology research and development, achieving industry-university cooperation to jointly cultivate talents and talent retention goals.</p> <p>本專班因應合作企業中對於高階先進製造技術研發國際人才需求及強化國內產業國際人力結構的轉型，故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，並於畢業後留任於合作企業就業發展。並對應國內產業永續轉型、技術升級及 STEM 領域人才需求迫切，故開設本專班。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，並擴大培育高階先進製造技術研發國際人才，達到產學合作共同培育人才及留用人才的目標。</p>
<p>Curriculum Planning 課程規劃</p>	<p>1. Credits required for graduation from the specialized program</p> <p>(1) Graduation credit requirement : A total of 45 credits, including 39 compulsory credits (of which, 10 credits are for off-campus internships) and 9 elective credits (of which, off-campus internships account for 0 credits).</p> <p>(2) The duration of study is 2 years (including 1 year of on-campus courses and 1 year of off-campus internship)</p> <p>2. Course planning table (including off-campus internships, if not, there is no need to list it)</p> <p>(一) 專班之畢業應修學分數</p> <p>1. 畢業學分數：共 45 學分，含必修 39 學分(其中校外實習占 10 學分)、選修 9 學分(其中校外實習占 0 學分)。</p>

2.修業年限 2 年(含校內課程 1 年、校外實習 1 年)
 (二) 課程規劃表(含校外實習，無則免列)

Course name 課程名稱	Course Outline 課程綱要	Teach hours per week 授課 時數	Required or Elective Course 必選修	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)	<p>1. Emphasizes practical 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 behavior, food and culture, living and environment, leisure and entertainment, travel and transportation, and lifestyle fashion.</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：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>	3	Required Course 必	3	1 st semester of 1 st grade 一上
Chinese for Workplace Waystage Level 職場溝通華語 -基礎級	<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> <p>1. 著重職場實用詞彙，提</p>	3	Required Course 必	3	1 st semester of 1 st grade 一上

	<p>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>				
Engineering Analysis 工程分析	<p>This course is aimed at cultivating the basic theories related to mechanical engineering analysis and the applications related to mechanical engineering analysis.</p> <p>本課程針對培養機械工程分析有關的基礎理論以及機械工程分析有關的應用。</p>	3	Required Course 必	3	1 st semester of 1 st grade 一上
Seminar I 專題討論(一)	<p>Let students understand the applications related to mechanical engineering through group discussions on special topics.</p> <p>藉由分組討論專題主題讓學生了解機械工程相關的應用。</p>	2	Required Course 必	2	1 st semester of 1 st grade 一上
Modern Manufacturing Technology 現代製造學	<p>This course allows students to understand the principles and applications of non-traditional processing technologies in modern advanced manufacturing, and introduces the core technologies of semiconductor lithography processing and Industry 4.0 smart manufacturing.</p> <p>本課程讓學生了解現代先進製造非傳統加工技術原理及應用，並介紹半導體微影加工製程及工業 4.0 智慧製造的核心技術。</p>	3	Elective Course 選	3	1 st semester of 1 st 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 to improve learners' ability to understand and 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	2nd semester of 1st grade 一下
	<p>Chinese Listening and Reading Comprehension -Level 2 華語文能力測驗聽力閱讀-基礎級</p>	<p>1. Chinese Language Proficiency Test Basic Level 1000 words.</p> <p>2. Strengthen grammar, practice and review a thousand words at the same time, and simulate the test to familiarize students with the test method.</p> <p>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>	3	Required Course 必	3	2nd semester of 1st grade 一下

	<ol style="list-style-type: none"> 1. 華語文能力測驗基礎 1000 詞。 2. 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. 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。 				
Manufacturing Technology Analysis 製造技術分析	<p>This course allows students to understand the principles and applications of manufacturing and processing technologies in various industries, and use engineering analysis theory to solve manufacturing and processing problems.</p> <p>本課程讓學生了解各產業製造加工技術的原理及應用，並利用工程分析理論解決製造加工的問題。</p>	3	Elective Course 選	3	2nd semester of 1st grade 一下
Creative Mechanism Design 創意性機構設計	<p>Let students understand the basic theories related to creative institutional design and understand the applications related to creative institutional design.</p> <p>讓學生了解讓學生了解創意性機構設計有關的基礎理論以及了解創意性機構設計有關的應用。</p>	3	Elective Course 選	3	2nd semester of 1st grade 一下
Seminar II 專題討論(二)	<p>Let students understand the applications related to mechanical engineering through group discussions on special topics.</p> <p>藉由分組討論專題主題讓學生了解機械工程相</p>	2	Required Course 必	2	2nd semester of 1st grade 一下

		關的的應用。				
	Corporate internship I 企業實習(一)	Provide professional practical training according to the requirements of cooperative manufacturers. 依合作廠商要求，進行專業實務訓練。	40	Required Course 必	5	1st semester of 2nd grade 二上
	Academic ethics 學術倫理	Learn the basic principles and norms of academic ethics, develop the ability to judge whether academic ethics is violated, and analyze individual cases. 學習學術倫理基本準則與規範，培養判斷是否違反學術倫理，與審視個案分析能力。	1	Required Course 必	1	1st semester of 2nd grade 二上
	Corporate internship II 企業實習(二)	Provide professional practical training according to the requirements of cooperative manufacturers. 依合作廠商要求，進行專業實務訓練。	40	Required Course 必	5	2nd semester of 2nd grade 二下
	Thesis 論文	Graduation thesis on industry-university applied research related to cooperative enterprises 與合作企業相關之產學應用研究畢業論文		Required Course 必	6	2nd semester of 2nd grade 二下
未來的遠景 Future map	<p>Students should work in Taiwan after graduation for at least 2 years in a collaborating company.</p> <p>*** Collaborating Companies:</p> <p>1. DYMA ADVANCE TECHNOLOGY CORP.(8 staff)</p> <p>本所畢業生需進入合作企業在台工作至少兩年。</p> <p>***合作企業:</p> <p>1. 恩茂科技股份有限公司 (8個職位)</p>					

網站連結 Website	報名網站： https://intactbase.ksu.edu.tw/
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