Post-Baccalaureate 2-Year Bachelor's Degree Program in Equipment Engineering, ISU

1. **Program title:** Post-Baccalaureate 2-Year Bachelor's Degree Program in Equipment Engineering (English-taught)

2. **Program Features:**
   (1) Admission opens to graduates with backgrounds in engineering-related majors, aimed at enhancing students' professional skills in intelligent technology, manufacturing and control.
   (2) In response to the emergence of the Artificial Intelligence (AI) era, the curriculum focuses on AI and courses related to electrical engineering, and mechanical automation control.
   (3) The program aims to cultivate students to become the technological talents needed for the future AI industry and Industry 4.0 intelligent automation.
   (4) Collaborating company provides internship and employment opportunities for equipment engineers.

3. **Institution:** I-Shou University / Department of Electrical Engineering / Post-Baccalaureate two-year bachelor's degree program

4. **Curriculum Guideline:** 66 credits in total, including 18-credit off-campus internship, 6-credit Chinese language courses and 42-credit elective courses (English-taught)

First Year		Second Year	
First Semester	Second Semester	First Semester	Second Semester
General Courses: 6 Credits			(Credits-Course hours/week)
Chinese Listening and Reading Training (I) (3-3)	Chinese Listening and Reading Training (II) (3-3)		
Required Course: 18 Credits			(Credits-Course hours/week)
		Off-campus Internship (I) (3-40)	Off-campus Internship (IV) (3-40)
		Off-campus Internship (II) (3-40)	Off-campus Internship (V) (3-40)
		Off-campus Internship (III) (3-40)	Off-campus Internship (VI) (3-40)
Required Course: at least 24 credits			(Credits-Course hours/week)
Computer Programming (C#) (3-3)	Python Programming Python (3-3)		
Computer Aided Design and Manufacturing (3-3)	Electric Machinery Laboratory (3-3)		

First Year		Second Year	
First Semester	Second Semester	First Semester	Second Semester
Required Course: at least 24 credits			(Credits-Course hours/week)
Electric Machinery (3-3)	Smart Machinery Factory (3-3)		
Artificial Intelligence (3-3)	Machine Learning (3-3)		
Intelligent Control (3-3)	Deep Learning (3-3)		
Introduction to Internet of Things (3-3)	Big Data Analysis (3-3)		
Semiconductor Fabrication (3-3)	Special Topic (3-3)		

5. Entry Requirement:

(1) English language proficiency certificates equivalent to CEFR B1 level is required.

(2) Bachelor's degree in engineering-related majors from universities in the Philippines or Indonesia is required.

(3) A score of 70 and above is required for academic performance during degree study (last semester excluded).

(4) Letter of Recommendation by the faculty or professors from previous university is required.

6. Requirement for graduation:

Students must fulfill a total of 48 credits to graduate, including 18-credits off-campus internships, 6-credit Chinese language courses and at least 24 credits of elective courses.

7. Post-Graduation Employment Obligations:

Students enrolled in this program, upon completing their academic requirements and obtaining a degree through assessments conducted by both the school and collaborating company, are required to fulfill a two-year employment obligation with the cooperating companies in Taiwan. The employment should align with the vacancies provided by the industry and the competency requirements for the positions as outlined below:

No.	Collaborating Company	Job/Positions		Skill Requirement
1	ADVANCED SEMICONDUCTOR ENGINEERING, INC.	Equipment Engineer	20	Equipment improvement, routine maintenance and repairs
Total	1 company	20 job openings		

8. Tuition Fee and Scholarships:

(1) National Development Fund

Content	Limit	Note
Administrative fees for arrival in Taiwan	Maximum NT$ 10,000.	One-time subsidy covering pre-arrival health check expenses, VISA application fees, and document verification fees.
One-way flight ticket	Maximum NT$ 9,000.	One-time subsidy, the airfare is verified based on the economy class one-way ticket for the most direct route to Taiwan.
Industry-Academia Collaboration Scholarship	1st Year: Tuition and miscellaneous fees are provided to students in their 1st year of enrollment.	• Subsidies will be granted based on the actual tuition and miscellaneous fees payable to the school, with an annual maximum subsidy of NT$ 100,000 (maximum NT$ 50,000 per semester). • The tuition and miscellaneous fee subsidy will be provided for a maximum of two years. • obligations for staying in Taiwan for employment will apply based on the number of years the scholarship is received. Specifically, recipients of the scholarship for one year will have a one- year obligation to stay in Taiwan for employment, and those receiving the scholarship for two years will have a two-year obligation to stay in Taiwan for employment.
	2nd Year: For student who met the language proficiency requirement and passed the assessment by the school and collaborating company, tuition and miscellaneous fee subsidies will be awarded based on merit.	

(2) Terms and Conditions for Industry-Academia Collaboration Scholarship

Student who withdraws from the specialized program or fails to fulfill employment contract after graduation, the repayment principles for the scholarships as follows:

1. If the circumstances are not under student control, there is no requirement for repayment:
   (1) Due to the operational adjustment, the original collaborating industry ceases to provide living allowance to student during their learning and student is unable to achieve additional support from other industry, leading the student's withdrawal from the specialize program.
   (2) Due to the operational adjustment, the original collaborating company has no job vacancies available for employment upon the student's graduation and , and despite the school's efforts in providing career guidance and facilitating job placement, the

student is unable to secure suitable employment opportunities.

(3) If the collaborating company, during the student's employment period, encounters situations as specified in Article 14, Paragraph 1 of the Labor Standards Act, leading the student to terminate the contract, and despite the school's efforts in providing career guidance and facilitating job placement, the student is still unable to find a suitable company for subsequent employment.

(4) Student's death, severe illness, or an unforeseen accident preventing them from continuing their studies or employment, a certified document issued by a teaching hospital rated at or above the level of accreditation by the Ministry of Health and Welfare, stating the student's inability to continue education or employment, or in cases where significant family upheaval due to an accident prevents the student from pursuing education or employment, as verified by the school.

2. If the circumstances are under student control, requirement for repayment:

(1) Withdrawal from the specialized program during the academic period due to personal reasons such as applying for transfer, changing majors, absence, or returning to one's home country. Even after guidance provided by the school, if the student chooses to leave the specialized program or if the school, in accordance with its regulations, initiates withdrawal or expulsion.

(2) Poor academic performance, failure to meet the evaluation standards set by both the school and the collaborating industry. Even after school guidance, student fails improve, and in accordance with the school regulations, the student faces withdrawal or expulsion. In such cases, the student is required to repay the previously received industry-academia scholarships.

(3) After graduation, student chooses not to pursue employment with the collaborating industry or in the relevant industrial field, or if, after employment, the student violates company regulations leading to lawful termination of the labor contract, andafter school guidance, no improvement is observed, the student is obligated to repaythe received industry-academia funding.

(4) If a student, during the employment period with the collaborating industry, does not complete the specified duration for receiving industry-academia scholarship, repayment should be made based on the proportion of the remaining months unemployed; for periods less than one month, one month's repayment is required.

9. Living allowance:

- 1st Year: NT$ 10,000 provided per month.
- 2nd Year (Internship)：NT$ 27,470 provided per month (based on the basic salary for the year)

義守大學學士後二年制設備工程學士專班

一、專班名稱：義守大學學士後二年制設備工程學士專班（全英授課）

二、專班特色：

(1) 招收具工程相關系所背景大學畢業生，提升學生智慧科技、製造與控制的專業技能。

(2) 因應人工智慧(AI)時代的來臨，人工智慧與電機、機械自動控制相關課程為本專班的教育主軸。

(3) 培養專班學生成為未來 AI 產業與工業 4.0 智能自動化所需科技人才。

(4) 合作企業提供設備工程師實習及就業機會。

三、開班學校/系所/學制：義守大學/電機工程學系/學士後二年制學士專班

四、課程規劃：共 66 學分課程，含必修校外實習 18 學分、必修華語課程 6 學分及專業選修課程 42 學分（全英授課）

第一年		第二年	
第一學期	第二學期	第一學期	第二學期
華語課程:共 6 學分			(學分數-每週授課時數)
華語聽力與閱讀(一) (3-3)	華語聽力與閱讀(二) (3-3)		
專業必修:共 18 學分			(學分數-每週授課時數)
		校外實習(一) (3-40)	校外實習(四) (3-40)
		校外實習(二) (3-40)	校外實習(五) (3-40)
		校外實習(三) (3-40)	校外實習(六) (3-40)
專業選修:至少選 24 學分			(學分數-每週授課時數)
計算機程式 (3-3)	程式設計 (3-3)		
電腦輔助設計與製造 (3-3)	電機機械實驗 (3-3)		

第一年		第二年	
第一學期	第二學期	第一學期	第二學期
專業選修:至少選 24 學分			(學分數-每週授課時數)
電機機械 (3-3)	智慧機械工廠 (3-3)		
人工智慧 (3-3)	機器學習 (3-3)		
智慧控制 (3-3)	深度學習 (3-3)		
物聯網概論 (3-3)	大數據分析 (3-3)		
半導體製程 (3-3)	專題實作 (3-3)		

五、入學資格：

(1) 語言能力：學生應提供相當於 CEFR B1 等級之英語能力檢定證書。

(2) 學歷背景：學生應取得菲律賓或印尼大學工程相關系所之學士學位。

(3) 大學成績：最後一學期外之成績應達 70 分以上，並具教師推薦函。

六、畢業門檻：

學生畢業門檻需滿足 48 學分，含必修課程 24 學分(校外實習 18 學分及華語課程 6 學分)及專業選修課程至少 24 學分。

七、畢業後履行就業義務：

就讀本專班的學生，如通過學校及企業評核，完成學業取得學位，應留台於合作廠商履行兩年就業義務。配合企業所提供的職缺及該職缺所需的職能要求如下：

序號	專班合作企業名稱	職務需求/人數		專業能力
1	日月光半導體製造股份有限公司	設備工程師	20	機台保養、故障排除及設備問題改善
合計	1家	20個職缺		

八、獎助金說明：

(1) 國發基金獎學金

獎/補助項目	獎/補助額度上限	說明
初次來臺之相關必要行政費用	新南向區域國家及其他國家來臺，上限新臺幣10,000 元。	採一次性補助，含來臺前健康檢查費用、簽證費用及文書驗證費用。
單程機票	新南向區域國家上限為新臺幣9,000 元。	採一次性補助，以來臺最直接航程之經濟艙單程機票費用核實請領。
產學獎助金	第一年： 學入學第一年給予學雜費補助。	1. 依學生實際應繳學雜費給予補助，每年補助上限10萬元(一學期上限5萬元)，最多補助2年。 2. 依據領取年限具有相應留臺就業年限的義務。即領取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。
	第二年： 語文能力測驗須達規定標準，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。	

(2) 產學獎助金繳還原則

1. 學生如中途退出專班或畢業後未履約就業者，所受領之產學獎助金繳還原則如下：

a) 屬不可歸責於學生之原因，無須繳還產學獎助金：

i. 原合作企業因營運調整，於學生在學期間停止提供生活津貼，又學生經學校媒合仍無法覓得其他企業願意續予補助生活津貼，致學生中途退出專班者。

ii. 原合作企業因營運調整，於學生畢業時無職缺可聘用，又學生經學校進行就業輔導及媒合其他企業仍無法覓得適合企業聘僱者。

iii. 合作企業於學生就業期間有勞動基準法第十四條第一項規定情形，致學生提出終止契約，又學生經學校進行就業輔導及媒合，仍無法覓得適合企業接續聘僱者。

iv. 學生死亡、因重大疾病或意外事故不能繼續就學或就業，經衛生福利部新制醫院評鑑合格之教學醫院以上層級，開立認定無法繼續就學或就業證明者，或因事故致家庭巨變無法繼續就學或就業，經學校查證屬實者。

b) 屬可歸責於學生之原因，應繳還產學獎助金：

i. 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。

ii. 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，學生應返還已領之產學獎助金。

iii. 學生畢業後選擇不至合作企業或相關產業領域就業，或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，學生應返還已領之產學獎助金。

iv. 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。

九、生活津貼說明：

(1) 第一年：每個月新台幣 10,000 元。

(2) 第二年（實習）：每個月新台幣 27,470 元（採當年度基本薪資）