1. **Program title:** Information Network Communication Program (Information Engineering Branch) of Electrical Engineering, two-year bachelor's degree program for Postgraduate, taught in English.

2. Program Features:

- (1) In response to the demand in Taiwan's Information Network Communication field, we integrate relevant technologies to cultivate talent, aiming to train Indonesian students who have already obtained a bachelor's degree.
- (2) The duration of study is two years, belonging to a two-year bachelor's degree program for Postgraduate. The second year includes an off-campus internship, and graduation requires completing at least 48 credits. In the second year, passing the Test of Chinese as a Foreign Language (TOCFL) at the A2 elementary level is required.
- (3) The course content integrates industry trends and the needs of collaborating companies, designing professional practical courses to cultivate students' knowledge and practical skills in Information Network Communication.
- (4) The collaborating companies offer internship opportunities in various related fields such as Cloud Platform Engineering, AI Algorithm Manufacturing Engineering Engineering, (MFG)/PCBA Technical Engineering Engineering, Manufacturing (MFG)/PCBA Production Industrial Engineering (IE)/Manufacturing Cost Control Engineering, Engineering, Project Management (PM)/New Product Introduction Engineering, **Project** Management (PM)/Integrated Optimization Engineering, Software Development, Multimedia System Engineering, and IoT Software Development. These opportunities include placements at companies such as D-Link Corporation, CAMEO COMMUNICATIONS, INC., AMIGO TECHNOLOGY INC., and SAPIDO TECHNOLOGY INC.
- 3. **Institution:** Taiwan Steel University of Science and Technology/Department of Electrical Engineering/Two-year bachelor's degree program for Postgraduate / Fall semester 2024.

- 4. **Curriculum Guideline:** Including course language, curriculum content (university curriculum and internship)
- (1) Courses Language: Taught in English, supplemented by Chinese.
- (2) Curriculum Content:

First Year		Second Year	
First Semester	Second Semester	First Semester Second Semes	
General Courses: 8 0	Credits	(Credits-Cou	rse hours)
Basic Chinese	Advance Chinese		
4-4	4-4		
Required Course: 12	Credits	(Credits-Co	urse hours)
Electronic Circuit	Advanced		
Practice	Programming		
3-3	Design and		
	Practice		
	3-3		
Programming	The Theory and		
Design and	Application of		
Practice	Sensing		
3-3	3-3		
Elective Course: Min	nimum 28 Credits	(Credits-Course hours)	
Practical Network	Introduction and	Data Analytics And	Sequential Control
Technologies	Application of	Applications	Practices
3-3	Artificial	3-3	3-3
	Intelligent		
	3-3		
Internet of Things	Operating System	Robot Basic Practice	Mechatronics
Principles and	and Applications	3-3	Practice
Applications	3-3		3-3
Program			
3-3			
Introduction to	Image Processing	Core Technologies	AIOT Service
Cloud Computing	Practice	of Internet of Things	Applications
and Practical	3-3	3-3	3-3
Applications			
3-3			

Programmable	Software	AI	Information
Controller	Engineering	Hardware-Software	Security 3-3
Applications	3-3	Integration	
3-3		Applications	
		3-3	
Monitoring	Machine Learning	Remote Monitoring	Project
Technology and	and Algorithms	Practice	Management
Practice	3-3	3-3	3-3
3-3			
		Internship (1)	Internship (2)
		8-40	8-40
General Courses		8 credits	
Required course		12 credits	
Elective course		At least 28 credits (include internship	
		which consists of 16 credits) must be	
		completed.	
Total minimum cred	lits	48 credits	

5. Entry Requirement:

Admission requirement: CEFR English minimum level B1.

6. Requirement for graduation:

Credits: 48 credits, including General Education courses 8 Credits, required courses 12 credits, elective courses minimum 28 credits (include internship which consists of 16 credits).

7. Post-Graduation Employment Obligations:

The obligation period for students hired corresponds to the duration of receiving the corporate living allowance. For instance, those receiving a 2-year living allowance from the industry are obligated to work for a period of 2 years.

If student successfully passes assessments conducted by both the school and the industry, completes their academic requirements, and obtains a degree, the collaborating industries have the right to hire and should provide suitable positions and salary should not be less than the average salary in the same field. The employment should align with the vacancies provided by the industry and the competency requirements for the positions as outlined below:

Number	Collaborating Company Name	Job Requirements/Numbe of Positions	r	Skill Requirement
		Cloud Platform Engineer	4	Proficiency in programming, networking technologies, data analysis, remote monitoring, and other relevant professional skills.
1	D-Link Corporation	Artificial Intelligence engineer	6	Proficiency in programming, artificial intelligence, software engineering, machine learning, and other relevant professional skills.
2	CAMEO COMMUNICATIONS, INC.	Manufacturing Engineering (MFG)/PCBA Technical Engineering	3	Proficiency in programming, data analysis, artificial intelligence, sensing technologies, and other relevant

I I			professional
			skills.
			Proficiency in
			programming,
			data analysis,
	Manufacturing		artificial
	Engineering		intelligence,
	(MFG)/PCBA	2	sensing
	Production	۷	_
			technologies, and other
	Engineering		
			relevant
			professional
			skills.
			Proficiency in
			programming,
			data analysis,
	Industrial		artificial
	Engineering		intelligence,
	(IE)/Manufacturing	2	sensing
	Cost Control		technologies,
	Engineering		and other
			relevant
			professional
			skills.
			Proficiency in
			programming,
			data analysis,
	Drainat Management		artificial
	Project Management		intelligence,
	(PM)/New Product	2	sensing
	Introduction		technologies,
	Engineering		and other
			relevant
			professional
			skills.
	Project Management		Proficiency in
	(PM)/Integrated	2	programming,
	Optimization	_	data analysis,
	optimization		aata anarysis,

		Engineering		artificial intelligence, sensing technologies, and other relevant professional skills.
3	AMIGO TECHNOLOGY INC.	Software Development	ဘ	Proficiency in programming, data analysis, artificial intelligence, sensing technologies, and other relevant professional skills.
		Multimedia System Engineer	3	Proficiency in programming, data analysis, artificial intelligence, sensing technologies, and other relevant professional skills.
		IoT Software Development	3	Proficiency in programming, data analysis, artificial intelligence, sensing technologies, and other

				relevant
				professional
				skills.
				Proficiency in
				programming,
				data analysis,
		Manufacturing		artificial
		Engineering		intelligence,
		(MFG)/PCBA	2	
		Production		sensing
				technologies, and other
		Engineering		
				relevant
				professional
4	SAPIDO TECHNOLOGY			skills.
	INC.			Proficiency in
				programming,
		M. C.		data analysis,
		Manufacturing		artificial
		Engineering	0	intelligence,
		(MFG)/PCBA	2	sensing
		Production		technologies,
		Engineering		and other
				relevant
				professional
				skills.
				Proficiency in
				programming,
				data analysis,
		Industrial		artificial
		Engineering		intelligence,
		(IE)/Manufacturing	1	sensing
		Cost Control		technologies,
		Engineering		and other
				relevant
				professional
				skills.
Total	4 companies	35 job openings		

8. Scholarships:

(1) Include the first and second year of National Development Fund Scholarships qualifications.

Unit	Content	Limit	Note
	Administrative fees for arrival in Taiwan	For students coming to Taiwan from the New Southbound Policy region and other countries, the maximum amount is 10,000 New Taiwan Dollars.	One-time subsidy covering pre-arrival health check expenses, visa fees, and document verification fees.
National Development Fund	One-way flight ticket	For students coming to Taiwan from the New Southbound Policy region and other countries, the maximum amount is 9,000 New Taiwan Dollars.	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	First Year: Tuition and miscellaneous fees are provided to students in their first year of	Subsidies will be granted based on the actual tuition and miscellaneous fees payable by students to the school, with an

Unit	Content	Limit	Note
		enrollment. Second Year: For student who reach TOCFL A2 or above and after reviewing the scores and performance by the school and collaborating industry, tuition and miscellaneous fee subsidies will be awarded based on merit.	annual maximum subsidy of 100,000 NT dollars (a semester maximum of 50,000 NT dollars). 2. A maximum of two years of tuition and miscellaneous fee subsidies will be provided. 3. 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, and those receiving the scholarship for two

Unit	Content	Limit	Note
University	Study Scholarship	To assist students in studying with peace of mind, our school provides students with a scholarship of 5,000 New Taiwan Dollar for living expenses in the first semester, as well as a full waiver for the dormitory fees for the first semester. (Dormitory will be arranged by the school, and students may not choose their own dormitories).	The accommodation fee waiver is only available for those who apply for on-campus accommodation.

(2) Industry-Academia Collaboration Scholarship Requirement

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, and after school guidance, no improvement is observed, the student is obligated to repay the 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 requirement:

(1) Living Allowance:

Unit	Content	Limit	Note
	Living Allowance	During the student's academic period and before participating in the internship, the monthly stipend is set at 10,000 New Taiwan Dollars per person.	The student may only choose one of living allowance or internship allowance.
Collaborating companies of the program	Internship Allowance	During the off-campus internship period, each person will receive a monthly internship allowance no less than the minimum wage, with overtime pay calculated separately.	After graduation, students are obligated to seek employment in Taiwan. Industries who provide subsidies have the right to prioritize the employment of these students.

(2) Living Allowance Requirement:

Student who withdraws from the specialized program or fails to fulfill employment contract after graduation, the repayment principles for the living allowance 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.
 - (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, no repayment is needed.
 - (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.
- (3) Student is not employed to the collaboration industry 3 months after graduation.
- (4) If a student, during the employment period with the collaborating industry, does not complete the specified duration for receiving industry-academia living allowance, 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.

一、專班名稱:資訊網通專班(資訊工程組),學士後兩年制學士專班, 英文授課

二、專班特色:

- (一)因應臺灣資訊網通領域需求,整合相關技術培育人才,旨在訓練印尼已獲得學士學歷的學生。
- (二)修業年限為兩年,屬於學士後二年制學士專班,其中第二年安排校外實習,畢業需完成至少48學分。第二年需要通過華語文能力測驗(TOCFL)達到A2基礎級水準。
- (三)課程內容結合產業趨勢與合作公司需求,規劃專業實務課程, 培育學生資訊網通相關知識與實務技能。
- (四)合作企業提供雲平台工程師、AI 演算工程師、生產工程 (MFG)/PCBA 技術工程、生產工程(MFG)/PCBA 生產工程、工業工程(IE)/製費成本管制工程、專案管理(PM)/新產品導入工程、專案管理(PM)/綜合優化統合工程、軟體開發、多媒體系統工程師、IOT 軟體開發等相關領域的實習機會,包括友訊科技股份有限公司、友勁科技股份有限公司、易通展科技股份有限公司、金智洋科技股份有限公司。

三、開班學校/系所/學制:

台鋼科技大學/電機工程系/學士後二年制學士專班/2024 年秋季班

四、課程規劃:包含授課語言、課程內容(含校內課程、校外實習之安排)

(一)授課語言:英文授課為主,中文為輔。

(二)課程內容:

第一年		第二年	
第一學期	第二學期	第一學期	第二學期
通識基礎課程:共8	學分		(學分數
-授課時數)			
基礎華語	進階華語		
	4 4		
4-4 事业 2/5 4 10 图	4-4		(留 八 却
專業必修:共12 學	T		(學分數
	14 mt ロ シュL ユL	Γ	Γ
電子電路實務	進階程式設計		
3-3	3-3		
程式設計	感測技術原理與		
	應用		
3-3			
	3-3		
專業選修:至少選2	8 學分		(學分數
-授課時數)		T	
網路技術實務	人工智慧概論與 應用	數據分析與應用	順序控制實務
3-3	應用	3-3	3-3
	3-3		
物聯網概論與應	作業系統實務	機器人實務	機電整合實務
用	3-3	3-3	3-3
3-3	0 0		0 0
雲端運算概論與	影像處理與實務	物聯網核心技術	智慧聯網服務應
實務		實務	用
3-3	3-3	3-3	3-3
可程式控制器實	軟體工程	AI 軟硬體整合應	3-3 資訊安全實務
務	1 7 / ND - 1 / 1 / 1	用	大川(ス 上 貝 切
	3-3		3-3
3-3	14 四 樹 羽 小 小 쓨	3-3	市 应 尔 四
嵌入式系統實務	機器學習與演算 法	遠端監控實務	專案管理
3-3	14	3-3	3-3
	3-3		
		企業實習(一)	企業實習(二)
		8-40	8-40
通識基礎課程		8學分	

專業必修	12 學分
專業選修	至少修 28 學分(其中企業實習占 16 學
	分)
最低畢業學分數	48 學分

五、入學資格:

語言能力要求:學生入學前英語文能力測驗達 CEFR B1 以上。

六、畢業門檻:

本專班課程安排包括通識基礎必修課程 8 學分,專業理論及實作必修課程 12 學分;專業理論及實作選修課程(含企業實習)至少選修 28 學分,學生畢業門檻需滿足 48 學分。

七、畢業後履行就業義務:

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。

學生如通過學校及企業評核,完成學業取得學位,合作企業 具聘用權,應提供適合職缺及不低於同領域平均薪資之待遇,留 用並聘僱學生。配合企業所提供的職缺及該職缺所需的職能要求 如下:

編號	專班合 作 企業名 稱	職務需求/人數		專業能力
1	友訊科技股 份有限公司	雲平台工程師	4	具程式設計、網路技術、數據 分析、遠端監控等專業技能
		AI 演算工程師	6	具程式設計、人工智慧、軟體 工程、機器學習等專業技能

2	友勁科技股	生 產 工 程 (MFG)/PCBA 技術 工程	3	具程式設計、數據分析、人工 智慧、感測技術等專業技能
2	份有限公司	生 產 工 程 (MFG)/PCBA 生產 工程	2	具程式設計、數據分析、人工 智慧、感測技術等專業技能
		工業工程(IE)/製 費成本管制工程	2	具程式設計、數據分析、人工 智慧、感測技術等專業技能
		專案管理(PM)/新 產品導入工程	2	具程式設計、數據分析、人工 智慧、感測技術、專案管理等 專業技能
		專案管理(PM)/綜 合優化統合工程	2	具程式設計、數據分析、人工 智慧、感測技術、專案管理等 專業技能
3	易通展科技 股份有限公 司	軟體開發	3	具程式設計、人工智慧、物聯網、軟體工程、機器學習、感 測技術等專業技能
		多媒體系統工程師	3	具程式設計、人工智慧、物聯網、軟體工程、影像識別、感 測技術等專業技能
		IOT 軟體開發	3	具程式設計、人工智慧、物聯網、軟體工程、嵌入式系統、 作業系統等專業技能
4	金智洋科技股份有限公	生 產 工 程 (MFG)/PCBA 技術 工程	2	具程式設計、數據分析、人工 智慧、感測技術等專業技能
4	司	生 產 工 程 (MFG)/PCBA 生產 工程	2	具程式設計、數據分析、人工 智慧、感測技術等專業技能
		工業工程(IE)/製 費成本管制工程	1	具程式設計、數據分析、人工 智慧、感測技術等專業技能
合計	4 家	35 個職缺		

八、獎助金說明:

(一)錄取之學生,經審核通過將由國發基金提供產學獎助金。獎助 金包括:

獎/補助單位	獎/補助項目	獎/補助額度上限	說明	
國 發 基 金	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,包含來臺前的 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,機票費用以來 臺最直接航程之經濟艙單程機 票核實請領。	
	產學獎助金	第一年: 學生入學第一年給予學雜費補助。 第二年: 華語文能力測驗 (TOCFL)需達 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。	 依學生實際應繳交給學校學雜費給予補助,每年補助上限 10 萬元(一學期上限 5萬元)。 最多補助 2 年學雜費。 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;俱取 2 年產學獎助金者,具有 2 年留 	

獎/補助單位	獎/補助項目	獎/補助額度上限	說明
			臺就業義務。
本 校	學習助學金	本心提生第數金含本 水選等學學與 一之 () 是 等 學 的 的 说 是 等 學 全 校 要 的 说 是 等 要 在 整 要 的 校 舍 學 在 , 學 生 不 能 選)。	住宿費用減免僅提供申請校內住宿者。

- (二)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 助金必須依規定之原則繳還。原則如下:
 - 1. 屬不可歸責於學生之原因,無須繳還產學獎助金:
 - (1)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。

- (2)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。
- (3)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。
- (4)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。
- 2. 屬可歸責於學生之原因,應繳還產學獎助金:
 - (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。

- (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, 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。
- (4)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:

(一)生活津貼:

獎/補助單 位	獎/補助項 目	獎/補助額度上限	說明
*	生活津貼	學生就學期間,企業 每月提供 <u>1萬元</u> 生活 津貼。	實習期間,實習津貼不得低於台灣基本薪資,但,生活津貼與實習津貼擇一領取。
專班 合作企業	實習津貼	校外實習期間每人每 月提供不低於最低薪 資的實習津貼,加班 費另計。	畢業後即具有留臺就業義 務,提供獎助津貼之企業 具有優先留用聘僱學生的 權利。

(二)生活津貼繳還原則:

學生如因中途退出專班或畢業後未履約就業,所受領企業生活津貼之繳還原則如下:

- 1. 屬不可歸責於學生之原因,無須繳還生活津貼:
 - (1)企業若因營運調整,於學生在學期間停止提供學生生活 津貼,屬不可歸責於學生之原因,企業不得向學生追 回已請領之生活津貼。
 - (2) 合作企業因營運調整,於學生畢業時無職缺可聘用。
 - (3)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時,學生免償還已 受領之生活津貼。
 - (4)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,經學校查證屬實並通報 企業者,得免履行就業義務及免償還受領之生活津 貼。

- 屬可歸責於學生之原因,得於合約內容載明追回條件情況下,由企業向學生追回生活津貼:
 - (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。
 - (2)學生學習表現不佳,未通過學校及企業評核標準,經學 校輔導後仍無改善,致企業不予聘用者。
 - (3) 學生畢業後 3 個月內,未至合作企業就業。
 - (4)學生於合作企業就業期間未滿受領生活津貼年限:應依 其未就業之月數比例償還生活津貼;不滿一月者,以一 月計。