

物聯網工程與應用學士學位學程 四技日間部課程規劃表

Bachelor Degree Program of IOT Engineering and Applications Logo Bachelor Degree Program of IOT Engineering and Applications Curriculum of 4-year Bachelor's Program

115 學年實施

Effective from : 2026 Academic Year

115 年 6 月 26 日 1142 學期第 3 次課程委員會公布

校訂必修類

General Education Required Course

課號 Course ID	課程名稱 Course	英文課程名稱 Course	年級 Year	上學期 Sem. 1	下學期 Sem. 2	學分 Credits	時數 Hours	總計 Total
40000113	AI 賦能新世代服務人才	Empowering Next-Gen Service Professionals with AI	1		●	2	2	22
40001041	一般體育	Physical Education	1	●		2	2	
40001041	一般體育	Physical Education	1		●	2	2	
40001215	中文口語表達	Chinese Oral Expression	1	●		2	2	
40001216	中文閱讀與寫作	Chinese reading and writing	1		●	2	2	
40001293	基礎英文表達(一)	Basic English Expression(I)	1	●		2	2	
40001313	基礎英文表達(二)	Basic English Expression(II)	1		●	2	2	
40001426	新一代服務人才	New Generation of Service Talent	1		●	2	2	
40001427	永續發展與社會責任	Sustainable Development and Social Responsibility	1	●		2	2	
40002293	職場英文表達(一)	Workplace English Expression(I)	2	●		2	2	
40002313	職場英文表達(二)	Workplace English Expression(II)	2		●	2	2	
40002465	新時代公民素養	Citizen Literacy in the New Era.	2	●		2	2	
40000010	學術倫理	Academic Integrity	1		●	0	0	
40004285	語文能力檢定		2		●	0	0	
40004300	英文能力課程	English Proficiency Course	3		●	0	0	
40000024	華語文能力課程		4	●		0	0	

分類通識

Classified general Education

課號 Course ID	課程名稱 Course	英文課程名稱 Course	年級 Year	上學期 Sem. 1	下學期 Sem. 2	學分 Credits	時數 Hours	總計 Total
--	分類通識-人文藝術類	Classified general Education	--	--	--	2	2	8
--	分類通識-社會科學類	Classified general Education	--	--	--	2	2	
--	分類通識-生命樂活類	Classified general Education	--	--	--	2	2	
--	分類通識-自然應用類	Classified general Education	--	--	--	2	2	

院訂必修類

School Required Course

課號 Course ID	課程名稱 Course	英文課程名稱 Course	年級 Year	上學期 Sem. 1	下學期 Sem. 2	學分 Credits	時數 Hours	總計 Total
40491005	程式設計	Programming	1	●		2	2	10
40491007	智慧科技應用	Smart Technology Applications	1		●	2	2	
40491001	科技管理	Technology Management	2	●		2	2	
40491002	創新創業	Innovation and Entrepreneurship	2		●	2	2	

40493001	行動商務	Mobile Business	3	●		2	2	
院訂選修類 School Elective Course								
課號 Course ID	課程名稱 Course	英文課程名稱 Course	年級 Year	上學期 Sem. 1	下學期 Sem. 2	學分 Credits	時數 Hours	總計 Total
40491401	興趣探索	Interest Exploration	1	●		1	1	0
40491402	職能探索	Career Exploration	1	●		2	2	
系訂必修類 Department Required Course								
課號 Course ID	課程名稱 Course	英文課程名稱 Course	年級 Year	上學期 Sem. 1	下學期 Sem. 2	學分 Credits	時數 Hours	總計 Total
40291003	感測網路及應用	Sensing Networks and Applications	1		●	3	3	40
40291005	物聯網概論	Introduction to Internet of Things	1	●		3	3	
40291014	基礎 APP 程式設計	Fundamental APP Design	1		●	2	2	
40291408	電腦與網路概論	Introduction to Computer and Network	1	●		3	3	
40291015	進階 APP 程式設計	Advanced APP programming	2	●		3	3	
40292006	環境偵測實務	Environmental detection practice	2	●		3	3	
40292008	物聯網規劃與設計	Internet of Things Planning and Design	2		●	3	3	
40292009	雲端資料庫管理	Cloud database management	2		●	3	3	
40292010	工業 4.0 應用	Industry 4.0 application	3		●	3	3	
40293006	物聯網實務專題(一)	Internet of Things Practice(一)	3	●		1	1	
40293007	物聯網實務專題(二)	Internet of Things Practice(二)	3		●	1	1	
40293008	伺服器管理與建置	Server management and Implementation	3	●		3	3	
40294008	校外實習(一)	out-of-school internship(一)	4	●		9	720	
40294004	專業認證	Professional certification	2		●	0	0	
專業選修類 Department Elective Course								
課號 Course ID	課程名稱 Course	英文課程名稱 Course	年級 Year	上學期 Sem. 1	下學期 Sem. 2	學分 Credits	時數 Hours	總計 Total
40291009	無線網路	Wireless Network	1		●	3	3	48
40291010	機器人概論	Introduction to robots	1	●		3	3	
40291403	生產力管理	Productivity management	1		●	3	3	
40291409	物聯網通訊原理	Internet of Things Communication Principles	1		●	3	3	
40291412	運輸與倉儲管理	Transportation and warehouse management	1		●	3	3	
40291413	製造程序概論	Introduction to manufacturing procedures	1	●		3	3	
40291415	電動車概論	Introduction to electric vehicles	1		●	3	3	
40291416	環境科技創新	Environmental Techonological Innovation	1	●		1	1	
40291417	生態環境走讀與科技應用實踐	Eco-Exploration and Technology Application Practice	1		●	1	1	
40291418	社區發展與科技創新		1	●		1	1	

40291419	在地生態保育與科技應用		1	●	1	1
40292012	行動多媒體實務	Mobile Multimedia Practice	1	●	3	3
40293418	物聯網生活與創意	IOT life and creativity	1	●	3	3
40292011	嵌入式系統軟體設計與實作	Introduction to Embedded Systems Design and Implementation	2	●	3	3
40292408	智慧自動化	Intelligent Automation	2	●	3	3
40292409	電腦軟體與應用	Internet of Things Network Setup	2	●	3	3
40292412	物聯網路架設	Internet of Things Network Setup	2	●	3	3
40292416	Linux 作業系統操作	Linux operating system operation	2	●	2	2
40292418	無人機飛行基礎實務	UAV flight basics	2	●	3	3
40292419	行動定位服務應用	Mobile location service application	2	●	3	3
40292420	智慧生產控制	Intelligent Production Control	2	●	3	3
40292421	機器人 APP 設計	Robot APP design	2	●	3	3
40292422	物聯網科技英文	English for Internet of Things Technologies	2	●	2	2
40292423	車輛智慧安全系統	Vehicle smart security system	2	●	3	3
40292424	職場實務實習一	Workplace Practical Internship 1	2	●	4	320
40293002	大數據應用	Big data application	3	●	3	3
40293009	物聯網應用與服務	Internet of Things applications and services	3	●	3	3
40293401	行動系統開發與應用	Mobile system development and application	3	●	3	3
40293405	機器人生活應用	Robot life application	3	●	3	3
40293414	智慧家庭實務	Smart Home Practices	3	●	3	3
40293416	智慧綠能	Smart green energy	3	●	3	3
40293419	統計軟體應用	Statistical software application	3	●	2	2
40293420	行動商務	Mobile business	3	●	2	2
40293421	車輛智慧影像導航系統	Vehicle intelligence image navigation system	3	●	3	3
40293433	職場實務實習二	Workplace Practical Internship 2	3	●	5	400
40293434	Python 人工智慧應用	Python artificial intelligence applications	3	●	3	3
40294405	生產成本與管理	Production Cost and Management	4	●	3	3
40294415	物聯網工程整合應用	Internet of things engineering integration application	4	●	3	3
40294416	生產管理資訊系統	Production Management Information System	4	●	3	3
40294417	創新研發與管理	Innovation R&D and Management	4	●	3	3
40294418	校外實習(二)	out-of-school internship(二)	4	●	9	720
總計 Total						128
總說明：	(中文) 1.選修課程於每學年開始前作必要之增減，實際課程以系上公告為主。 2.畢業門檻：					

- (1)語言證照一張：「英文檢定」課程須具有全民英檢初級以上或本校認可的同等級英語測驗標準，並於二年級下學期第 18 週結束前繳交至系辦審查，未達標準者，方可參加第一階段（三年級上學期）補救措施。
- (2)專業證照：請參閱本系畢業門檻檢覈要點取得證照方得畢業。
- 3.證照補救課程：
- (1)語言證照：未達標準者，方可參加第一階段(三年級上學期)補救措施；或三年級下學期參加校外英文檢定或本校自辦之英語能力測驗，成績通過者，視同通過英語能力畢業門檻。
- 4.專業選修 48 學分：其中其他各系專業選修至多承認 20 學分。
- 5.通識分類選修課程應修 8 學分（詳閱通識中心課程規劃表）。

Notes :

(英文)

1.Elective Courses:

Necessary additions or deletions to elective courses shall be made before the beginning of each academic year. The actual courses offered are subject to the official announcement by the department.

2.Graduation Requirements:

(1) Language Proficiency Certificate:

For the “English Proficiency” course requirement, students must obtain a certificate equivalent to **GEPT Elementary Level or above**, or any **English proficiency test recognized by the university**. The certificate must be submitted to the department office for review **by the end of Week 18 in the second semester of the sophomore year**.

Students who fail to meet the standard may participate in the **first-stage remedial program (offered in the first semester of the junior year)**.

(2) Professional Certification:

Students must obtain professional certificates **in accordance with the Department’s Graduation Requirements and Evaluation Guidelines** in order to graduate.

3.Remedial Courses for Certification Requirements:

(1) Language Certificate:

Students who do not meet the language requirement may participate in the **first-stage remedial program (in the first semester of the junior year)**, or take part in an **external English proficiency test** or a **university-administered English test** in the **second semester of the junior year**.

Those who pass the test will be deemed to have met the English proficiency graduation requirement.

4.Professional Electives:

A total of **48 credits** of professional elective courses are required. Among these, **a maximum of 20 credits** may be recognized from professional electives offered by other departments.

5.General Education Electives:

Students must complete **8 credits** of general education elective courses. (Please refer to the General Education Center’s course plan for details.)