

嶺東科技大學111學年度入學新生課程標準

Ling Tung University Curriculum Standards in effect since 2022

Department(系所別):Information Technology(資訊科 技系行動與系統應用組) College(學院):College of AI Technology(智慧科技學院)

Academic Year of Entrance(入學年):2022

Program:Four-year B.D. for Day Division(日間部四年制)

第一學年第一學期				
科目名稱	Course Title	R/E	Credits	Hours
基本勞作教育(一)	Labor Education I	R	0	2
中文閱讀與思考	Chinese Reading and Thinking	R	2	2
英文(一)	English I	R	2	2
體育(一)	Physical Education I	R	2	2
職涯與職能發展	Career and functional development	R	2	2
計算機概論	Introduction to Computer Science	R	3	3
微積分(一)	Calculus I	R	3	3
計算機程式設計	Computer Program Design	R	3	3
基礎網頁設計	Web Design Fundamentals	R	3	3
Linux系統應用	Linux Fundamentals	R	3	3
第一學年第二學期				
科目名稱	Course Title	R/E	Credits	Hours
基本勞作教育(二)	Labor Education II	R	0	2
中文應用書寫表達	Application of Chinese	R	2	2
英文(二)	English II	R	2	2
體育(二)	Physical Education II	R	2	2
物件導向程式設計	Object Oriented Programming Design	R	3	3
行列生活計算	Linear Algebra Fundamentals	R	3	3
電學概論	Fundamentals of Electricity	E	3	3
微積分(二)	Calculus II	E	3	3
手持式裝置應用	Mobile App Development	E	3	3
網頁前端開發應用	Front-End Web Development and Applications	E	3	3
智能汽車概論	Introduction to Intelligent Vehicles	E	3	3
3D列印應用	Basics of 3D Printing and Design	E	3	3
物聯網應用	IoT System Architecture and Design	E	3	3
實用華語文	Practical Chinese	E	1	1
第二學年第一學期				
科目名稱	Course Title	R/E	Credits	Hours
數位應用	Digital Application	R	2	2
群己倫理與生命關懷	Ethnics and Interpersonal Relationships	R	2	2
博雅通識(一)	General Education I	R	2	2
網路技術與應用	Network Technology and Applications	R	3	3
Swift APP開發	Swift App Development	R	3	3
程式思維與資料結構	Data Structures in Practice	R	3	3
圖論建模	Graph Theory Modeling	R	3	3
智慧聯網與感測網路應用	Intelligent IoT and Sensor Network Applications	E	3	3
電腦動畫	Computer Animation	E	3	3
電子電路與實習	Electronic Circuits and Practice	E	3	3
電腦軟體應用	Computer Software Application	E	3	3
組合語言	Assembly Languages	E	3	3
數據交換格式應用	Applications of Data Interchange Formats	E	3	3
全民國防教育(一)	National Defense Education I	E	2	2
第二學年第二學期				
科目名稱	Course Title	R/E	Credits	Hours
博雅通識(二)	General Education II	R	2	2
職場英文	Workplace English	R	2	2
訊號與系統	Signals and Systems	R	3	3
智慧聯網實務	Intelligent IoT Applications and Practice	R	3	3
生活統計	Probability and Statistics	R	3	3
數位邏輯與實習	Digital Logic and Experiment	E	3	3
智慧行動終端實務應用	Practical Applications of Intelligent Mobile Devices	E	3	3

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網路技術實務	Networking Practice	E	3	3
物件導向程式證照輔導	The licenses of Object-oriented	E	3	3
系統程式	System Programming	E	3	3
iOS手持與穿戴裝置應用	iOS Handheld and Wearable Device Applications	E	3	3
演算法應用	Algorithms in Practice	E	3	3
智慧車載感測元件分析應用	Smart Automotive Sensing Systems	E	3	3
全民國防教育(二)	National Defense Education II	E	2	2
第三學年第一學期				
科目名稱	Course Title	R/E	Credits	Hours
博雅通識(三)	General Education III	R	2	2
實務專題(一)	Practical Project I	R	2	2
系統分析與設計	Systems Analysis and Design	R	3	3
資料庫管理系統	Database Management Systems	R	3	3
資料庫系統導論	Introduction to Database Systems	E	3	3
智慧型行動裝置軟體設計	Software Design of Intelligent Mobile Devices	E	3	3
虛擬實境實務應用	Practical Applications of Virtual Reality	E	3	3
數位系統設計	Digital System Design	E	3	3
通訊原理	Principles of Communications	E	3	3
智能產品包裝與設計	Marketing and Design of Smart Products	E	3	3
RFID應用	RFID Applications	E	3	3
3D電腦塑模	Introduction to 3D Modeling	E	3	3
第三學年第二學期				
科目名稱	Course Title	R/E	Credits	Hours
博雅通識(四)	General Education IV	R	2	2
專業英文	Professional English	R	2	2
實務專題(二)	Practical Project II	R	2	2
PHP動態網頁設計	Web Programming with PHP	R	3	3
工程數學	Engineering Mathematics	E	3	3
作業系統	Algorithm	E	3	3
網站與資料庫應用	Web and database applications	E	3	3
資訊安全	Information Security	E	3	3
RFID資訊系統	RFID Information Systems	E	3	3
車輛電腦診斷	Automotive Computer Systems and Diagnostics	E	3	3
互動介面設計	UX/UI Design for Interactive Applications	E	3	3
感知器控制應用	Sensor Control and Applications	E	3	3
第四學年第一學期				
科目名稱	Course Title	R/E	Credits	Hours
實務專題(三)	Practical Project III	R	2	2
資訊志工(一)	IT Service Learning1	E	1	1
雲端運算	Cloud Computing	E	3	3
計算機組織	Computer Organization	E	3	3
行動與雲端運算	Mobile and Cloud Computing	E	3	3
人工智慧	Artificial Intelligence	E	3	3
軟體工程	Software Engineering	E	3	3
資料探勘與大數據分析	Data Mining and Big Data	E	3	3
嵌入式系統	Embedding System	E	3	3
企業實習	Corporate Internship	E	3	3
第四學年第二學期				
科目名稱	Course Title	R/E	Credits	Hours
資訊志工(二)	IT Service Learning2	E	1	1
分散式系統	Distributed Systems	E	3	3
行動與無線網路	Wireless Communications and Networks	E	3	3
人機互動介面技術	Human-Computer Interaction Technologies	E	3	3

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專家系統	Expert System	E	3	3
類神經網路	Neural Networks	E	3	3
密碼學	Cryptography	E	3	3
影像處理	Image Processing	E	3	3
行動軟體應用	Mobile Software Applications	E	3	3
專業實習(一)	Practical Training I	E	3	3
專業實習(二)	Practical Training II	E	3	3
專業實習(三)	Practical Training III	E	3	3

備註:R=Required;E=Elective

Regulations

1. The total number of credits required for graduation is 128, including 28 university-required credits, 8 college-required credits, 51 department-required credits, and 41 professional elective credits.
2. Students in their first to third years may take 16–25 credits per semester, while fourth-year students may take 9–25 credits. Detailed regulations are governed by the University Academic Regulations.
3. In accordance with the University's implementation guidelines for Chinese proficiency, English proficiency, information technology competency, and physical fitness, students must pass all required assessments to be eligible for graduation.
4. Students must meet the standards specified in the Department's "Implementation Guidelines for Professional Competency Assessment" to be eligible for graduation. Once students pass the assessment under the University's "Implementation Guidelines for Students' Information Technology Competency Assessment," the licenses and certificates they obtain will also be recognized by the Department as professional certifications for basic workplace information technology applications.
5. "Practical Project (I)," "Practical Project (II)," and "Practical Project (III)" are offered in accordance with the Department's curriculum planning and are designated as required courses for the Department.
6. Students may take courses offered by other departments that are not available in this department. Upon departmental approval, up to 12 credits (including interdisciplinary program credits) may be counted toward professional elective credits. Students may also take courses at other universities, limited to one course. Credits earned will be included in the calculation of external elective credits. Inter-institutional enrollment shall follow the University's "Implementation Guidelines for Inter-Institutional Course Selection."
7. Students participating in the Ministry of National Defense Reserve Officers' Training Corps (ROTC) who have completed winter and summer training and obtained certification may apply for credit waivers and exemptions from the Department's internship courses. Students applying for a full-semester internship exemption must complete registration and enroll in other courses for at least 3 credits during that semester.
8. Students admitted to the Department through the Sports Talents Admission Program in the 111 academic year may count their passing grades in the Sports and Health Management Program toward their graduation credits. Among these, 15 credits of core courses from the program will be recognized as the Department's required courses, and 20 credits of elective courses will be counted as the Department's professional elective courses.