

嶺東科技大學115學年度入學新生課程標準

Ling Tung University Curriculum Standards in effect since 2026

Department(系所別):(智慧製造科技系)

College(學院):College of AI Technology(智慧科技學院)

Academic Year of Entrance(入學年):2026

Program:Four-year B.D. for Day Division(日間學制四年制)

第一學年第一學期				
科目名稱	Course Title	R/E	Credits	Hours
中文閱讀與思考	Chinese Reading and Thinking	R	2	2
職涯與職能發展	Career and functional development	R	2	2
體育(一)	Physical Education I	R	2	2
英文(一)	English I	R	2	2
人工智慧	AI	R	3	3
計算機概論	Introduction to Computer Science	R	3	3
工程圖學	Engineering Graphics	R	3	3
工業配線實務	Industrial Wiring Practice	R	3	3
智慧製造概論	Introduction to Intelligent Manufacturing	R	3	3
初階華語(一)	Fundamental ChineseI	E	2	2
第一學年第二學期				
科目名稱	Course Title	R/E	Credits	Hours
中文應用書寫表達	Application of Chinese	R	2	2
體育(二)	Physical Education II	R	2	2
英文(二)	English II	R	2	2
電腦輔助機械製圖	Computer-Aided Mechanical Drafting	R	3	3
氣壓控制實務	Pneumatic Control Practice	R	3	3
基礎程式設計	Basic Programming	R	3	3
工程材料	Engineering Materials	E	3	3
電學概論	Introduction to Electricity	E	3	3
數位邏輯設計	Digital Logic Design	E	3	3
機械製造	Mechanical Manufacturing	E	3	3
微積分(一)	Calculus I	E	3	3
初階華語(二)	Fundamental ChineseII	E	2	2
第二學年第一學期				
科目名稱	Course Title	R/E	Credits	Hours
博雅通識(一)	General Education I	R	2	2
AI思維與應用	AI thinking and application	R	2	2
群己倫理與生命關懷	Ethnics and Interpersonal Relationships	R	2	2
數控程式設計	Numerical Control Programming	R	3	3
可程式控制器與實習	Programmable Logic Controller and Practice	R	3	3
微處理機與實習	Microprocessor and Practice	R	3	3
工程力學	Engineering Mechanics	E	3	3
感測器原理與應用	Principles and Applications of Sensors	E	3	3
電子學應用	Electronics applications	E	3	3
程式設計	programming	E	3	3
進階華語(一)	Advanced ChineseI	E	2	2
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
職場英文	Workplace English	R	2	2
博雅通識(二)	General Education II	R	2	2
機器人學	Robotics	R	3	3
電腦輔助設計與製造	Computer-Aided Design and Manufacturing	R	3	3
機電整合與實習(一)	Mechatronics and Practice I	R	3	3
機構學	Mechanism	E	3	3
響應式網頁設計	Responsive Web Design	E	3	3
資料庫概論	Introduction to Databases	E	3	3
機器設備聯網	Machine Equipment Networking	E	3	3
電動機控制實務	Motor Control Practice	E	3	3
進階華語(二)	Advanced ChineseII	E	2	2

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全民國防教育(二)	National Defense Education II	E	2	2
第三學年第一學期	1st Semester Third Year			
科目名稱	Course Title	R/E	Credits	Hours
博雅通識(三)	General Education III	R	2	2
專業英文	Professional English	R	2	2
工業機械人應用	Industrial Robot Applications	R	3	3
計算機網路	computer network	R	3	3
3D列印與實習	3D Printing and Practice	E	3	3
機電整合與實習(二)	Mechatronics and Practice II	E	3	3
電路模擬與設計	Circuit Simulation and Design	E	3	3
智慧機器人程式設計	Intelligent Robot Programming	E	3	3
物聯網應用	Internet of Things Applications	E	3	3
資料擷取與監控	Data Acquisition and Monitoring	E	3	3
第三學年第二學期	2nd Semester Third Year			
科目名稱	Course Title	R/E	Credits	Hours
博雅通識(四)	General Education IV	R	2	2
實務專題(一)	Practical Project I	R	2	2
工業網路	Industrial Networks	E	3	3
電腦輔助工程分析	Computer-Aided Engineering Analysis	E	3	3
人機介面	Human-Machine Interface	E	3	3
影像處理	Image Processing	E	3	3
專業證照輔導	Professional Certification Guidance	E	3	3
大數據分析	Big Data Analytics	E	3	3
機器學習	Machine Learning	E	3	3
第四學年第一學期	1st Semester Fourth Year			
科目名稱	Course Title	R/E	Credits	Hours
實務專題(二)	Practical Project II	R	2	2
PC-based控制	PC-Based Control	E	3	3
公差配合與量測技術	Tolerance matching and Measurement Technology	E	3	3
最佳化設計	Optimization Design	E	3	3
模治具設計	Mold and Jig Design	E	3	3
雲端運算	Cloud Computing	E	3	3
機器視覺	Machine Vision	E	3	3
能源科技應用	Energy Technology Applications	E	3	3
企業實習	Industrial Internship	E	3	3
專業實習(一)	Professional Internship I	E	6	6
第四學年第二學期	2nd Semester Fourth Year			
科目名稱	Course Title	R/E	Credits	Hours
實務專題(三)	Practical Project III	R	2	2
數位訊號處理	Digital Signal Processing	E	3	3
創意與專利	Creativity and Patents	E	3	3
統計製程管制	Statistical Process Control	E	3	3
工業4.0應用	Industry 4.0 Applications	E	3	3
製造執行系統	Manufacturing Execution Systems	E	3	3
資訊與網路安全	Information and Network Security	E	3	3
自動光學檢測	Automated Optical Inspection	E	3	3
專業實習(二)	Professional Internship II	E	6	6

備註:R=Required;E=Elective

Requirements

1. The minimum graduation requirement is 128 credits, including 28 university-required credits, 8 college-required credits, 48 department-required credits, and 44 professional elective credits.
2. The number of credits to be taken each semester is as follows: students in the first to third year must take 16–25 credits per semester, while fourth-year students must take 9–25 credits per semester. Detailed regulations shall be governed by the university academic policies.
3. In accordance with the university's "Implementation Guidelines for Chinese Language Proficiency Assessment," "Implementation Guidelines for English Language Proficiency Assessment," "Implementation Guidelines for Information Technology Proficiency Assessment," and "Implementation Guidelines for Physical Fitness Assessment," students must pass the required assessments in Chinese language proficiency, English language proficiency, information technology proficiency, and physical fitness in order to graduate.
4. Students must meet the assessment standards stipulated in the department's "Professional Competency Assessment Regulations" in order to graduate. Certificates obtained through passing the university's Information Technology Proficiency Assessment may also be recognized by the department as certificates of fundamental workplace information application skills.
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 of the department.
6. Students may take courses offered by other departments that are not available in this department. Credits earned from such courses and approved by the department may count toward professional elective credits for up to 20 credits in total (including credits from interdisciplinary programs). Credits earned from interdisciplinary programs may also be counted separately. Students may also take courses at other institutions if such courses are not offered by this department; however, only one course may be taken. The credits earned shall be included in the calculation of elective credits from other departments. Cross-institutional course enrollment shall be handled in accordance with the university's intercollegiate course selection regulations.
7. For the department's Enterprise Internship, Professional Internship (I), and Professional Internship (II), one credit shall correspond to a maximum of 64 internship hours.