

遠東科技大學 四年制 資訊工程系 日間部 課程規劃表 (適用110學年度入學)

Far East University Curriculum of Computer Science and Information Engineering Department for Four-Year Bachelor's Degree Program
-Day Division (Effective from Fall 2021)

| 科目名稱 Subject | | 第一學年 1st school year | | | | 第二學年 2nd school year | | | | 第三學年 3rd school year | | | | 第四學年 4th school year | | | | |
|---|---|--|---|---------------------|-------------|-------------------------|-------------|---------------------|-------------|-------------------------|-------------|---------------------|-------------|-------------------------|-------------|---------------------|-------------|------|
| | | 上學期 1st semester | | 下學期 2nd semester | | 上學期 1st semester | | 下學期 2nd semester | | 上學期 1st semester | | 下學期 2nd semester | | 上學期 1st semester | | 下學期 2nd semester | | |
| | | 學分 Credits | 時數 Hours | 學分 Credits | 時數 Hours | 學分 Credits | 時數 Hours | 學分 Credits | 時數 Hours | 學分 Credits | 時數 Hours | 學分 Credits | 時數 Hours | 學分 Credits | 時數 Hours | 學分 Credits | 時數 Hours | |
| 校訂 課程 Stipulated Courses | 通識 基礎 必修 Required General Education Courses | 國文(1)(2) Chinese (1) (2) | 2/ 2 | 2/ 2 | | | | | | | | | | | | | | |
| | | 英文聽力與閱讀(1)(2) English Listening and Reading(1)(2) | 2/ 2 | 2/ 2 | | | | | | | | | | | | | | |
| | | 體育(1)(2)(3)(4) Physical Education(1)(2)(3)(4) | 2/ 2 | 2/ 2 | 2/ 2 | 2/ 2 | | | | | | | | | | | | |
| | | 服務教育與大學社會責任(1)(2) Service Education and University Social Responsibility(1)(2) | 0/ 1 | 0/ 1 | | | | | | | | | | | | | | |
| | | 英文閱讀與寫作 English Reading and Writing | | | 2/ 2 | | | | | | | | | | | | | |
| | | 英語聽講練習 English Listening and Speaking Practice | | | | | 2/ 2 | | | | | | | | | | | |
| | | 小計Subtotal | 6/ 7 | 6/ 7 | 4/ 4 | 4/ 4 | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 |
| | | 通識博 雅必修 Required Liberal Arts Courses | 創意思考與訓練 Creative Thinking and Training | | 2/ 2 | | | | | | | | | | | | | |
| | 倫理與品格 Ethics and Character Education | | | | 2/ 2 | | | | | | | | | | | | | |
| | 科學與自然、人文與社會 Science and Nature, Humanities and Social Sciences | | | | | | 2/ 2 | 2/ 2 | 2/ 2 | 2/ 2 | | | | | | | | |
| 健康促進與外國語文 Health Promotion and Foreign Languages | | | | | | | | 2/ 2 | 2/ 2 | | | | | | | | | |
| 創意實作 Innovations and Implementations | | | | | | | | | | | | | | | | 2/ 2 | | |
| 公民教育 Citizenship Education | | | | | | | | | | | | | | | | 2/ 2 | | |
| 小計Subtotal | 0/ 0 | 2/ 2 | 2/ 2 | 2/ 2 | 4/ 4 | 4/ 4 | 0/ 0 | 4/ 4 | 0/ 0 | 4/ 4 | 0/ 0 | 4/ 4 | 0/ 0 | 4/ 4 | 0/ 0 | 4/ 4 | | |
| 一般 選修 General Elective Courses | 全民國防教育軍事訓練(1)(2)(3)(4) National Defense Education and Military Training(1)(2)(3)(4) | 2/ 2 | 2/ 2 | 2/ 2 | 2/ 2 | | | | | | | | | | | | | |
| | 健康與護理(1)(2)(3)(4) Health and Nursing(1)(2)(3)(4) | 2/ 2 | 2/ 2 | 2/ 2 | 2/ 2 | | | | | | | | | | | | | |
| | 小計Subtotal | 4/ 4 | 4/ 4 | 4/ 4 | 4/ 4 | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | |
| 院必修 課程 Required College Courses | 微積分 Calculus | 3/ 3 | | | | | | | | | | | | | | | | |
| | 物理 Physics | 3/ 3 | | | | | | | | | | | | | | | | |
| | 電腦軟體應用 Computer Software Application | | 2/ 2 | | | | | | | | | | | | | | | |
| | 職場倫理 Employment Ethics | | 2/ 2 | | | | | | | | | | | | | | | |
| | 簡報製作與表達 Presentation and Communication Skills | | | | 2/ 2 | | | | | | | | | | | | | |
| | 小計Subtotal | 6/ 6 | 4/ 4 | 0/ 0 | 2/ 2 | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | 0/ 0 | |
| | 專業必 修課程 | 程式設計(1)(2) Programming Design(1)(2) | 3/ 3 | 3/ 3 | | | | | | | | | | | | | | |
| 計算機概論 Introduction of Computers | | 3/ 3 | | | | | | | | | | | | | | | | |
| 網路工程 Computer Network Engineering | | | 3/ 3 | | | | | | | | | | | | | | | |
| 數位邏輯與實習 Digital Logic Design and Practice | | | 3/ 3 | | | | | | | | | | | | | | | |

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| Professional Required Courses | 系必修 課程 Required Department Courses | 物件導向程式設計 Object-Oriented Programming | | | | 3/ 3 | | | | | | | | | | | |
| | | 資料結構 Data Structure | | | | 3/ 3 | | | | | | | | | | | |
| | | 線性代數 Linear Algebra | | | | 3/ 3 | | | | | | | | | | | |
| | | 單晶片實務 Application of Single Chip | | | | | | 3/ 3 | | | | | | | | | |
| | | 資料庫管理 Database Management | | | | | | 3/ 3 | | | | | | | | | |
| | | 資料庫程式設計 Database Programming | | | | | | | | 3/ 3 | | | | | | | |
| | | 軟體工程 Software Engineering | | | | | | | | 3/ 3 | | | | | | | |
| | | 實務專題(1)(2) Project(1)(2) | | | | | | | | 1/ 3 | 1/ 3 | | | | | | |
| | | 作業系統 Operating System | | | | | | | | | | 3/ 3 | | | | | |
| | | 小計Subtotal | 6/ 6 | 9/ 9 | 9/ 9 | 6/ 6 | 7/ 9 | 4/ 6 | 0/ 0 | 0/ 0 | | | | | | | |
| | | 系專業選修 課程 Professional Elective Courses | Professional Elective Courses | 電腦硬體裝修 Computer Maintenance | 3/ 3 | | | | | | | | | | | | |
| 電腦網路 Computer Network | 3/ 3 | | | | | | | | | | | | | | | | |
| 網頁設計 Homepage Design | | | | 3/ 3 | | | | | | | | | | | | | |
| 資訊安全導論 Information Security Introduction | | | | | 3/ 3 | | | | | | | | | | | | |
| Excel VBA開發設計 Excel VBA Programming and Designing | | | | | 3/ 3 | | | | | | | | | | | | |
| 科技英文 Technical English | | | | | 3/ 3 | | | | | | | | | | | | |
| 智慧機器人設計 Smart Robot Design | | | | | 3/ 3 | | | | | | | | | | | | |
| 數位攝影與剪輯 Digital Photography and Editing | | | | | 3/ 3 | | | | | | | | | | | | |
| App基礎程式設計 APP Programming | | | | | | 3/ 3 | | | | | | | | | | | |
| 智慧機器人實務應用 Practical Application of Smart Robots | | | | | | 3/ 3 | | | | | | | | | | | |
| Python程式設計 Python Programming | | | | | | 3/ 3 | | | | | | | | | | | |
| Excel 統計分析 Excel Statistical Analysis | | | | | | 2/ 2 | | | | | | | | | | | |
| Linux作業系統實務 Linux Operation System Development | | | | | | | 3/ 3 | | | | | | | | | | |
| 金融科技分析 Financial Technology Analyze | | | | | | | 3/ 3 | | | | | | | | | | |
| 智慧影像辨識 Smart Image Recognition | | | | | | | 3/ 3 | | | | | | | | | | |
| 智慧生活場域實務 Smart Life Field Practices | | | | | | | 3/ 3 | | | | | | | | | | |
| 感測器原理與應用 Sensor Principle and Application | | | | | | | | | | 3/ 3 | | | | | | | |

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| HTML5 APP程式設計 HTML5 APP Programming | | | | | | | | | | | 3/ 3 | | | | | |
| AI遊戲資料庫規劃 AI game database planning | | | | | | | | | | | 3/ 3 | | | | | |
| 人工智慧實務應用 Application of Artificial Intelligence | | | | | | | | | | | 3/ 3 | | | | | |
| 雲端資料庫程式設計 Cloud Database Programming | | | | | | | | | | | | 3/ 3 | | | | |
| 智慧家電控制系統 Smart Home Appliance Control System | | | | | | | | | | | | 3/ 3 | | | | |
| IT產業職場英文聽與說 IT Industry Workplace English Listening and Speaking | | | | | | | | | | | | 3/ 3 | | | | |
| 辦公室自動化 Office Automation | | | | | | | | | | | | 3/ 3 | | | | |
| AI影像辨識 AI Image Recognition | | | | | | | | | | | | 3/ 3 | | | | |
| 職場體驗 Workplace Experience | | | | | | | | | | | | 2/ 2 | | | | |
| 學期校外實習(1)(2) Off-campus Internship(1)(2) | | | | | | | | | | | | 9/ | 9/ | | | |
| 物聯網理論與實務 Internet Theory and Practice | | | | | | | | | | | | | 3/ 3 | | | |
| 台積電製造管理專班 TSMC Course | | | | | | | | | | | | | 3/ 3 | | | |
| 資訊科技應用趨勢 IT Application Trends | | | | | | | | | | | | | 3/ 3 | | | |
| 大數據應用 Big Data Analytics | | | | | | | | | | | | | 3/ 3 | | | |
| 小計Subtotal | 6/ 6 | | 3/ 3 | | 15/ 15 | | 11/ 11 | | 12/ 12 | | 12/ 12 | | 26/ 17 | | 12/ 12 | |
| 擬開最低選修學分 Proposed Minimum Elective Credits | 合計Total | | 3/ 3 | 3/ 3 | 3/ 3 | 3/ 3 | 6/ 6 | 6/ 6 | 9/ 9 | 9/ 9 | | | | | | |

110年06月29日 校課程發展委員會會議通過Amended Date : 2021-06-29
111年05月03日 校課程發展委員會會議修正通過Amended Date : 2022-05-03
111年12月13日 校課程發展委員會會議修正通過Amended Date : 2022-12-13
112年02月22日 校課程發展委員會會議修正通過Amended Date : 2023-02-22
112年05月23日 校課程發展委員會會議修正通過Amended Date : 2023-05-23

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備註
Note

一、畢業總學分至少128學分：
The total number of credits completed to be eligible to graduate shall not be less than 128 credits.

1.校訂必修38學分(含通識基礎必修20學分、通識博雅必修18學分)。
The stipulated compulsory credits shall be 38 credits.(20 credits for required general education courses, and 18 credits for required liberal arts courses.)

2.專業必修53學分(院必修12學分、系必修41學分)。
The professional compulsory credits shall be 53 credits.(12 credits for required college courses, and 41 credits for required department courses.)

3.系專業選修至少25學分。
The professional elective credits shall be not less than 25 credits.

4.一般選修至多12學分(開放學生自由選修本系或外系課程，其中「微學分課程」最多採計12學分)。
The general elective credits shall be up to12 credits.(Open for students to freely choose courses within their own or other departments, with a maximum of 12credits for 'Micro-Credit Courses')

二、畢業門檻：Graduation Threshold

1.學生於修業年限內，應修畢「校訂必修」、「專業必修」、「系專業選修(含一般選修)」共計128學分。
Students are required to complete a total of 128 credits of " Stipulated Compulsory Course", "Professional Compulsory Course", "Department Professional Elective Course", ("General Elective Course" included) within their academic years.

2.系專業能力門檻(遠東科技大學資訊工程系畢業門檻實施要點辦理)。
Department Professional Threshold (Far East University Regulations of Graduation Threshold of Computer Science and Information Engineering Department)

3.英文能力門檻(遠東科技大學輔導學生取得英檢證照實施辦法辦理)。
English Proficiency Threshold (Far East University Regulations of Tutoring Students to Get English Proficiency Certificates)

三、校訂課程：Stipulated Courses

1.校訂課程不須依先後順序修課，不得互抵者，包括「國文(1)(2)、英文聽力與閱讀(1)(2)、體育(1)(2)(3)(4)」課程。
Stipulated courses are not required to be taken in sequence and the credits shall not be mutually transferred, including "Chinese (1) (2), English listening and reading (1) (2), and physical education (1) (2) (3) (4)" courses.

2.校訂課程不須依先後順序修課，得互抵者，僅為「服務教育與大學社會責任(1)(2)」課程。
Stipulated courses are not required to be taken in sequence and those that may be mutually complemented by each other may be only "Service Education and University Social Responsibility (1) (2)".

3.校訂課程不須依先後順序修課，包括「全民國防教育軍事訓練(1)(2)(3)(4)、健康與護理(1)(2)(3)(4)」課程。
Stipulated courses are not required to be taken in sequence, including National Defense Education and Military Training (1)(2)(3)(4) and Health and Nursing(1)(2)(3)(4).

4.「創意思考與訓練」、「倫理與品格」課程在一、二年級開課，得依實際情形上下學期調整。「倫理與品格」課程含括環境倫理、生命倫理及性別倫理三門，依實際情形排定一門，學生擇一修課即可。
Creative Thinking and Training and Ethics and Character Education shall be offered in the freshman and sophomore year and be adjusted based on the actual situation in the first and second semesters. Ethics and Character Education includes three courses: environmental ethics, bioethics, and gender ethics. Each course may be arranged according to the actual situation, and students shall choose one course.

四、專業課程：Professional Courses

1.「實務專題(1)(2)」課程應依先後順序修課，得互抵。
Project(1)(2) shall be taken in sequence and may complement each other.

2.「程式設計(1)(2)」課程應依先後順序修課，不得互抵。
Programming Design (1)(2) shall be taken in sequence and the credits shall not be mutually transferred.