

 國立東華大學  
教學計劃表 Syllabus

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| 課程名稱(中文)<br>Course Name in Chinese                                                                                                                                                                                                                                                                                                                                                                                           | 資訊安全管理AA                                                                                                                                        |                             |    | 學年/學期<br>Academic Year/Semester    | 113/2                                                                                    |
| 課程名稱(英文)<br>Course Name in English                                                                                                                                                                                                                                                                                                                                                                                           | Information Security Management                                                                                                                 |                             |    |                                    |                                                                                          |
| 科目代碼<br>Course Code                                                                                                                                                                                                                                                                                                                                                                                                          | IM_4172AA                                                                                                                                       | 系級<br>Department & Year     | 學四 | 開課單位<br>Course-Offering Department | 資訊管理學系                                                                                   |
| 修別<br>Type                                                                                                                                                                                                                                                                                                                                                                                                                   | 學程 Program                                                                                                                                      | 學分數/時間<br>Credit(s)/Hour(s) |    | 3.0/3.0                            |                                                                                          |
| 授課教師<br>Instructor                                                                                                                                                                                                                                                                                                                                                                                                           | /陳光和                                                                                                                                            |                             |    |                                    |                                                                                          |
| 先修課程<br>Prerequisite                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                 |                             |    |                                    |                                                                                          |
| 課程描述 Course Description                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                 |                             |    |                                    |                                                                                          |
| 本課程介紹資訊安全的核心概念，涵蓋風險評估、網路防護、滲透測試、存取控制與安全管理。透過理論與實作，學生將學習如何識別威脅、評估風險及實施資安防禦策略，提升企業與個人資安意識。課程內容包括作業系統與應用程式安全、帳戶管理、使用者培訓及實體安全，並探討最新資安趨勢與攻防技術。學習成果將使學生具備基本資安技能，理解企業資安管理策略，並應用於資訊管理與網路安全領域。                                                                                                                                                                                                                                        |                                                                                                                                                 |                             |    |                                    |                                                                                          |
| 課程目標 Course Objectives                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                 |                             |    |                                    |                                                                                          |
| 資訊安全管理以ISO 27001安全管理內容為主進行授課，主要課程參與對象預期為「對資訊系統安全管理有興趣的同學」，本課程為管理導向，冀本課程能提升修課學生的資訊安全管理意識與專業能力，並開啟一條與資訊安全管理有所關聯之未來道路供學生審酌。<br>This course focuses on the issues of Information Security Management, such as ISO 27001, Risk Assessment, Network Protection, Threat and Vulnerability Analysis, Access Control and Identification, User Awareness and Training, Physical Security, Account Management, Security Management etc. |                                                                                                                                                 |                             |    |                                    |                                                                                          |
| 系專業能力<br><br>Basic Learning Outcomes                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                 |                             |    |                                    | 課程目標與系專業能力相關性<br>Correlation between Course Objectives and Dept.' s Education Objectives |
| A                                                                                                                                                                                                                                                                                                                                                                                                                            | 具備資訊管理基礎與跨學域的應用能力。Cultivate the personnel with the capability of basic and interdisciplinary information management                             |                             |    |                                    | ○                                                                                        |
| B                                                                                                                                                                                                                                                                                                                                                                                                                            | 具備以資訊科技為核心，擁有高度專業技術與國際視野之能力。Cultivate professional personnel with international perspective and the capability of using information technology  |                             |    |                                    | ●                                                                                        |
| C                                                                                                                                                                                                                                                                                                                                                                                                                            | 具備資訊管理創新、研發、企劃之資訊管理人才之整合能力。Cultivate senior personnel with the capability of innovation, research and development and integrated planning       |                             |    |                                    | ○                                                                                        |
| D                                                                                                                                                                                                                                                                                                                                                                                                                            | 具備企業資訊化的能力。Cultivate the personnel with the capability of computerization of enterprises                                                        |                             |    |                                    | ○                                                                                        |
| E                                                                                                                                                                                                                                                                                                                                                                                                                            | 具備業界多媒體應用、網站經營以及資訊行銷所需之能力。Cultivate the personnel with the capability of multimedia applications, website operations, and information marketing |                             |    |                                    |                                                                                          |
| F                                                                                                                                                                                                                                                                                                                                                                                                                            | 具備認知新興資訊產業發展所需之能力。Cultivate the personnel with the capability for the emerging information industry                                             |                             |    |                                    | ●                                                                                        |
| 圖示說明Illustration：● 高度相關 Highly correlated ○中度相關 Moderately correlated                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                 |                             |    |                                    |                                                                                          |
| 授課進度表 Teaching Schedule & Content                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                 |                             |    |                                    |                                                                                          |
| 週次Week                                                                                                                                                                                                                                                                                                                                                                                                                       | 內容 Subject/Topics                                                                                                                               |                             |    |                                    | 備註Remarks                                                                                |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                            | 環境設定                                                                                                                                            |                             |    |                                    |                                                                                          |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                            | 網路安全(1)                                                                                                                                         |                             |    |                                    |                                                                                          |

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|----|-----------------------------|--|
| 3  | 網路安全(2)                     |  |
| 4  | 流量分析                        |  |
| 5  | os安全                        |  |
| 6  | 社交工程/釣魚                     |  |
| 7  | Web 安全(1)                   |  |
| 8  | Web 安全(2)                   |  |
| 9  | 期中考試週 Midterm Exam (CTF 挑戰) |  |
| 10 | 全球監控系統                      |  |
| 11 | AI 安全                       |  |
| 12 | 區塊鏈(1)                      |  |
| 13 | 區塊鏈(2)                      |  |
| 14 | IoT安全(1)                    |  |
| 15 | IoT安全(2)                    |  |
| 16 | CTF(1)                      |  |
| 17 | CTF(2)                      |  |
| 18 | 期末考試週 Final Exam            |  |

#### 教學策略 Teaching Strategies

- ☒ 課堂講授 Lecture
 ☐ 分組討論 Group Discussion
 ☐ 參觀實習 Field Trip  
☒ 其他 Miscellaneous: 上機操作

#### 教學創新自評 Teaching Self-Evaluation

##### 創新教學(Innovative Teaching)

- ☐ 問題導向學習(PBL)
 ☐ 團體合作學習(TBL)
 ☐ 解決導向學習(SBL)  
☐ 翻轉教室 Flipped Classroom
 ☐ 磨課師 Moocs

##### 社會責任(Social Responsibility)

- ☒ 在地實踐 Community Practice
 ☐ 產學合作 Industry-Academia Cooperation

##### 跨域合作(Transdisciplinary Projects)

- ☐ 跨界教學 Transdisciplinary Teaching
 ☐ 跨院系教學 Inter-collegiate Teaching  
☐ 業師合授 Courses Co-taught with Industry Practitioners

其它 other:

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| 學期成績計算及多元評量方式 Grading & Assessments                                                                                                                   |                    |                    |          |          |          |          |          |          |    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------|----------|----------|----------|----------|----------|----------|----|
| 配分項目<br>Items                                                                                                                                         | 配分比例<br>Percentage | 多元評量方式 Assessments |          |          |          |          |          |          |    |
|                                                                                                                                                       |                    | 測驗<br>會考           | 實作<br>觀察 | 口頭<br>發表 | 專題<br>研究 | 創作<br>展演 | 卷宗<br>評量 | 證照<br>檢定 | 其他 |
| 平時成績(含出缺席)<br>General Performance<br>(Attendance Record)                                                                                              | 50%                |                    |          |          |          |          |          |          |    |
| 期中考成績 Midterm Exam                                                                                                                                    | 20%                |                    |          |          |          |          |          |          |    |
| 期末考成績 Final Exam                                                                                                                                      | 20%                |                    |          |          |          |          |          |          |    |
| 作業成績 Homework and/or<br>Assignments                                                                                                                   |                    |                    |          |          |          |          |          |          |    |
| 其他 Miscellaneous<br>(出席)                                                                                                                              | 10%                |                    |          |          |          |          |          |          |    |
| 評量方式補充說明<br>Grading & Assessments Supplemental instructions                                                                                           |                    |                    |          |          |          |          |          |          |    |
| 教科書與參考書目(書名、作者、書局、代理商、說明)<br>Textbook & Other References (Title, Author, Publisher, Agents, Remarks, etc.)                                            |                    |                    |          |          |          |          |          |          |    |
| 使用教師自行開發教材                                                                                                                                            |                    |                    |          |          |          |          |          |          |    |
| 課程教材網址(含線上教學資訊,教師個人網址請列位於本校內之網址)<br>Teaching Aids & Teacher's Website(Including online teaching information.<br>Personal website can be listed here.) |                    |                    |          |          |          |          |          |          |    |
| 使用教師自行開發教材,將於Elearning系統公布                                                                                                                            |                    |                    |          |          |          |          |          |          |    |
| 其他補充說明 (Supplemental instructions)                                                                                                                    |                    |                    |          |          |          |          |          |          |    |