

國立屏東大學 110學年度第2學期 教學課程綱要

※為保護智慧財產權，請勿非法影印教科書。

課程學分數：3.00(3.00小時)

授課老師：呂欣澤(300582)

必選修：選

開課序號	0027
科目名稱	進階管理資訊系統 (FAB1209)
科目英文名稱	Advanced Management Information System
授課語言	英語
主要教學型態	課堂教學
教學目標	Advanced Information Management System aims to guide students to construct background knowledge on how to implement an end-to-end solution to fill the industry requirements. And the solution can be divided into: data collection, database management, data analytics and application. This course will introduce A real requirement from an industry. To satisfy the requirement, students in this course has to play the roles: data engineer, data scientist, application developer and project manager to implement the target solution.
每週課程內容及教學方法	Week1: Opening, and introduce the syllabus and explain the grading policy of the course. Week2: Introduce Advanced Information Management System Week3: Requirement management and analysis Week4: Data collection (Datahub, messaging) Week5: Database management (MongoDB, InfluxDB) Week6: Database management (Blob storage, indexing) Week7: Data Lake and warehouse (ELK task) Week8: Data Lake and warehouse (Monitoring) Week9: Data analyzing (machine learning pipeline) Week10: Midterm exam Week11: Data analyzing (machine learning pipeline) Week12: Application development (data visualization) Week13: Application development (application interface) Week14: Application development (application interface) Week15: Documentation (user manual and design spec) Week16: Final Project Week17: Final Project Week18: Final Project
核心能力	1. 培養理論與實務並重之資訊專業知識 35% 2. 整合系統開發、系統設計及實務應用能力 10% 3. 優質團隊合作、全球化思考及國際視野之能力 10% 4. 團隊領導與管理能力 10% 5. 獨立思考與研究能力 30% 6. 科技鑑賞與創新能力 5%

預期學習成果	Cultivating master degree students on how to survey and develop an IT related solutions or services
與預期學習成果搭配的多元評量	Homework: 30% Midterm: 30% Final Project: 40%
主要讀本	Tailor-made material
參考書目	Tailor-made material
其他事項	<ol style="list-style-type: none"> 1. Assuming students who enroll in this course are family with any programming language for implementing the user interface. 2. Once the pandemic of COVID-19 is raised again, the course will follow the policy to switch from the face-to-face classroom to distance learning.