國立勤益科技大學
National Chin-Yi University of Technology

115 學年度 第一 學期課程大綱
Year of 2026 Syllabus

部別 Department	日間部 Regular Day School	學制 School System	碩士 Master's Degree
授課教師 Instructor(s)	施金波 Aaron Raymond See	開課代碼 Course Code	G106
科目名稱 Course Name	科技文獻解析與應用 Analysis and Application of Scientific and Technical Literature	必/選修 Required/Elective	☐必修 Required ☒選修 Elective
開課年級 Grade	1	開課學期 Semester	☒上 Fall ☐下 Spring
開課單位 Course Department	電子工程系 Department of Electronic Engineering	學分/學時數 Credit/Hours	3/3
全程外語授課 Foreign language Teaching entirely	■是 Yes □否 No	主要授課語言 Main language	英語 English
先修課程 Prerequisite course(s)	None		
優質課程類別 Course attributes (可複選)	☒一般課程 General Courses、☐智慧財產權 Intellectual Property、 ☐內涵式服務學習課程 Service Learning、☐性別平等 Gender Equality、 ☐綠色課程 Green Technology ☒創新創意課程 Innovation、 ☐工作（職場）倫理課程 Career Ethics、☐工具機技術研發 Tool Machine Technology Development 本課程屬於創新、創意課程，旨在透過科技文獻閱讀、分析與論文寫作訓練，培養學生的問題解決能力、創意思考能力與實務應用能力，並引導學生以創新方法回應實際問題。 This course is categorized as an innovation and creativity course. It aims to develop students' problem-solving, creative thinking, and practical application skills through the reading and analysis of scientific and technical literature, as well as academic writing training, guiding students to address real-world problems through innovative approaches.		
課程與校核心能力關聯 Core competence (可複選，至多選 4 項)	☒表達溝通能力 Communication and Presentation Skill ☒創意創新能力 Innovation Skill ☐關懷服務能力 Community Care and Service Skill ☒思考推理能力 Thinking and Reasoning Skill ☒專業實務能力 Professional Practice Skill ☒宏觀視野能力 Macro Skill		
教科書 Textbook	自編講義 Handout by Instructor		
參考書目 Other References			
課程目標 Course objectives	本課程旨在培養學生解析科技文獻、掌握研究重點與進行論文寫作的能力，並透過專題應用引導學生運用創意思考與創新方法解決實際問題。 This course aims to develop students' ability to analyze scientific and technical literature, identify key research concepts, and conduct academic writing, while guiding them to apply creative thinking and innovative approaches to solve real-world problems through project-based applications.		

評量方式 Evaluation	出席率 Attendance (20%)　期中作業 Midterm assignment (40%)　期末作業 Final assignment (40%) 其他:(請敘述非筆試之評量方式) Other (please explain the evaluation methods if there are no written exams):
內容綱要 Course Outline	1. **課程介紹與科技文獻概論 / Course Introduction and Overview of Scientific and Technical Literature** Introduce the purpose, types, and applications of scientific and technical literature. 2. **科技文獻搜尋與論文結構解析 / Literature Search and Academic Paper Structure Analysis** Learn how to search for academic sources and understand the structure of research papers. 3. **文獻整理與學術寫作 / Literature Summary and Academic Writing** Practice summarizing literature, organizing ideas, writing literature reviews, and using proper citations. 4. **科技文獻應用與創新專題 / Application of Scientific Literature and Innovation Project** Apply research findings to real-world problems and develop creative or innovative project solutions.
自編教材 Self-compiled textbook (非自編教材請填寫原因)	■是 Yes　□否 No,原因 Reason(s):
符合智財規範 Compliance with Intellectual property (不符合智財規範請填寫原因)	■是 Yes　□否 No,原因 Reason(s):
備註 Note	

教學進度 Course schedule		
週次 Week	教學與作業進度 Teaching Schedule/Assignments	備註 Note
1	課程介紹 / Course Introduction	
2	科技文獻搜尋方法 Scientific and Technical Literature Search Methods	
3	No classes	中秋節放假 1 日
4	論文結構解析 / Analysis of Academic Paper Structure	
5	No classes	國慶補假 1 日
6	研究問題與研究目的 / Research Questions and Research Objectives	
7	寫作練習 / Writing Practice	
8	寫作練習 / Writing Practice	
9	期中報告 (Midterm Report)	
10	科技文獻與實際問題連結 / Connecting Scientific and Technical Literature with Real-World Problems	
11	創新解決方案設計 / Design of Innovative Solutions	
12	引用格式與學術倫理 / Citation Formats and Academic Ethics	
13	寫作練習 / Writing Practice	
14	寫作練習 / Writing Practice	
15	寫作練習 / Writing Practice	
16	No classes	行憲紀念日放假 1 日
17	No classes	開國紀念日放假 1 日
18	期末報告 (Final Report)	

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