

國立高雄科技大學 全英語授課課程申請表暨計畫書

National Kaohsiung University of Science and Technology
Application of Offering English-Instructed Course

申請日期 (Date of Application): 108-11-07

開課系所 Class Department	機械工程系	開課學年/學期 Academic year and semester	109 學年度 Academic year 1 學 期 Semester
課程名稱 Course Title	中文 Chinese	研究方法	
	英文 English	Research Methodology	
課程代碼 Course Number	6981	開課班級 Class	機械系/博士班一甲
必修/選修 Required / Elective	<input checked="" type="checkbox"/> 必修 Required <input type="checkbox"/> 選修 Elective	學分數/時數 Credit(s)/ Hour(s)	1/1
授課教師姓名 Teacher's Name	鄭振宗	教師所屬系所 Department	機械工程系
職 稱 Position	<input checked="" type="checkbox"/> 教授 Professor <input type="checkbox"/> 副教授 Associate Professor <input type="checkbox"/> 助理教授 Assistant Professor <input type="checkbox"/> 講師 Lecturer	專/兼任 Full/Part - time	<input checked="" type="checkbox"/> 專任 Full - time <input type="checkbox"/> 兼任 Part - time
簡述課程以 全英語授課緣由 Reasons for English Instruction	<p>1.外籍生無法了解中文講課內容，需要全英文教材、作業、測驗、與課堂講解授課。 Foreign students can't understand the content of Chinese lectures. They need English textbooks, homework assignment, quizzes, and lectures in class.</p> <p>2.博士生進行研究及論文撰寫，需搜尋並運用英文科學技術文獻，以獲取最豐富的科學技術資料來源。 For PhD students conducting research and do paper writing, they need to search and use English scientific and technical literatures so as to access the most abundant sources of scientific and technology information.</p>		
Course Description(英語授課大綱)			
1. Teaching objectives(教學目標)			
介紹文獻搜尋、數據處理、資料呈現、以及科技論文撰寫等技巧，使學生具備基本的研究能力。 Equip students with the basic ability of research by introducing the techniques for paper searching, data conversion, data presentation, and paper writing.			
2 Syllabus(.教學綱要)			
(一)文獻調查：電子資源、搜尋技巧；(二) 數據擷取與處理：類比與數位訊號、量測與誤差、工作表技巧； (三) 數據圖格式：圖片格式、圖片編輯器、數據作圖；(四)科技論文撰寫：論文架構內容、投稿流程 (1) literature searching: Electronic resources, Searching tips; (2)Data acquisition and processing: AD & DA conversion, measurement & error, tips for using worksheets; (3) Data plot format: Image formats, Image editors, Data plot; (4)Scientific paper writing: Structure and content of a scientific paper, paper submission.			
3. Texts(教科書)			
Data presentation and paper writing (自編教材)			

4. Reference Materials(參考書)

1. 高科大電子資源，資料庫清單，http://www.lib.nkust.edu.tw/portal/portal_db_list_1.php
2. C. R. Kothari, "Research methodology: Methods and techniques", New Age International (2004).
3. S. Keshav, "How to read a paper", ACM SIGCOMM Computer Communication Review, 37(3), 83-84 (2007).
4. 毛正倫編著，"科技論文寫作與發表"，新文京，2009年。

5.教學進度表 Course Schedule

週次與日期 Dates	中文授課內容 (Chinese Course content)	英文授課內容 (English Course content)	備註
1.	課程說明與簡介	Syllabus & Introduction	
2.	文獻調查	literature searching	
3.	文獻調查	literature searching	
4.	文獻調查	literature searching	
5.	數據擷取與處理	Data acquisition and processing	
6.	數據擷取與處理	Data acquisition and processing	
7.	數據擷取與處理	Data acquisition and processing	
8.	數據擷取與處理	Data acquisition and processing	
9.	期中作業 (實作)	Midterm assignment (implementation)	
10.	數據圖格式	Data plot format	
11.	數據圖格式	Data plot format	
12.	數據圖格式	Data plot format	
13.	數據圖格式	Data plot format	
14.	科技論文撰寫	Scientific paper writing	
15.	科技論文撰寫	Scientific paper writing	
16.	科技論文撰寫	Scientific paper writing	
17.	科技論文撰寫	Scientific paper writing	
18.	期末作業 (實作)	Final assignment (implementation)	

6.Evaluation method(成績評定)

- 上課出席(Attendance): 20%. Students may not miss the class more than 5 times.
- 指定作業(Homework): 80%. Upload the homework assignments before the deadline.

7. Classroom requirements(課堂要求)

- 至校務系統線上請假 Asking for leave: (1) Request for leave online, and (2) send an email to Prof. Jeng and cc to the thesis advisor with your name, student ID number(s), date, and reason of absence.
- 上課須親自簽到 Students must sign in person for every attended class.
- 上課教材與參考資料自行下載 Lecture notes and reference materials are available online at <http://140.127.113.194>

授課教師簽章 Teacher's Signature	系(所)主任簽章 Chairperson of the Department	院長簽章 Dean of the College

備註:各院所系、中心以全英語授課開授之課程，應將其計畫書及申請表提經各級課程委員會審查通過。