



## 教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese	英文科技論文寫作		學年/學期 Academic Year/Semester	114/2	
課程名稱(英文) Course Name in English	Technical Writing				
科目代碼 Course Code	MS_D0080	系級 Department & Year	博士	開課單位 Course-Offering Department	材料科學與工程學系
修別 Type	選修 Elective	學分數/時間 Credit(s)/Hour(s)	3.0/3.0		
授課教師 Instructor	/紀渥德				
先修課程 Prerequisite					
課程描述 Course Description					
The course will show students how to prepare technical documentation, how to write scientific papers, etc.					
課程目標 Course Objectives					
The objectives of the course are: to teach students basic skills of technical writing, to show different forms of communications, to teach how to write proposals, memos, CVs, journal articles.					
系專業能力 Basic Learning Outcomes				課程目標與系專業能力相關性 Correlation between Course Objectives and Dept.'s Education Objectives	
A	具備材料科學所需的進階物理、化學及數學的知識。Acquire required advanced physical, chemical, and mathematic knowledge for materials science and engineering.				
B	具備材料科學的進階專業知識，並能應用於解決工程上之問題。Acquire required advanced professional knowledge for materials science and engineering, applicable in solving engineering problems.				
C	具備獨立研究之能力。Equipped with capabilities of independent research.			○	
D	具備專業道德及責任感，與良好的溝通及團隊合作的能力。Acquire professional morality and responsibility, and capability of quality communication and team cooperation.			○	
E	具備進階的英文能力，應用於學習與交流。Acquire English capability used for learning and interaction.			●	
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	Introduction to the course.				
2	Oral presentations				
3	Writing and Work Collaborative Writing				
4	Your Audience and Aims Organizing and Drafting Documents				
5	Revising for Organization and Style				

6	Developing Graphics Design of Page and Screen	
7	Searching the Literature Documenting Sources	
8	Memos, Letters and Electronic Mails	
9	期中考試週 Midterm Exam	
10	Proposals	
11	Progress Reports	
12	Reports	
13	Journal Articles	
14	Instructions, Procedures and Computer Documentations	
15	Electronic Documents	
16	CV, Resumes, Job Correspondences	
17	Final Presentations (I)	
18	Final Presentations (II)	

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: presentations

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 Items	配分比例 Percentage	多元評量方式 Assessments							
		測驗 會考	實作 觀察	口頭 發表	專題 研究	創作 展演	卷宗 評量	證照 檢定	其他
平時成績(含出缺席) General Performance (Attendance Record)	50%								
期中考成績 Midterm Exam									
期末考成績 Final Exam	25%								
作業成績 Homework and/or Assignments									
其他 Miscellaneous (Presentation)	25%								
評量方式補充說明 Grading & Assessments Supplemental instructions									
教科書與參考書目 (書名、作者、書局、代理商、說明) Textbook & Other References (Title, Author, Publisher, Agents, Remarks, etc.)									
The MIT guidebook to technical writings									
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) Teaching Aids & Teacher's Website(Including online teaching information. Personal website can be listed here.)									
Textbook available on a class website									
其他補充說明 (Supplemental instructions)									
none									