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②國玄東華大學

教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese	計算材料科學				學年/學期 Academic Year/Semester		112/1	
課程名稱(英文) Course Name in English	Calculation in material science							
科目代碼 Course Code	MSM0060	系級 Department 碩士 & Year		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								
All College Co								

課程描述 Course Description

The course will teach students how to use MatLab package in academic work. Students will learn the basic knowledge of numerical solutions of different kind of problems

課程目標 Course Objectives

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	MatLab - introduction	
2	Variables, equations, editing data	
3	Working with files in Matlab	
4	Matrix calculations part 1	
5	Matrix calculation part 2	
6	Matrix calculation part 3	
7	ODE in Matlab part 1	
8	ODE in Matlab part 2	
9	期中考試週 Midterm Exam	
10	Programming in Matlab part 1	
11	Programming in Matlab part	
12	Programming in Matlab part	
13	Programming in Matlab part 4	
14	Simulations in Matlab part 1	
15	Simulations in Matlab part 1	
16	Simulations in Matlab part 1	

17	Simulations in Matlab part 1					
18	期末考試週 Final Exam					
	教 學 策 略 Teaching Strategies					
✓ 課堂講授	受 Lecture					
✓ 其他Mise	✓ 其他Miscellaneous: <u>Compyrer laboratory</u>					
	教 學 創 新 自 評 Teaching Self-Evaluation					
創新教學(I	nnovative Teaching)					
問題導向	向學習(PBL) ■ 團體合作學習(TBL) 解決導向學習(SBL)					
翻轉教室	翻轉教室 Flipped Classroom					
社會責任(S	社會責任(Social Responsibility)					
□ 在地實踐Community Practice □ 產學合作 Industy-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	:					

學期成績計算及多元評量方式 Grading & Assessments									
配分項目	配分比例 Percentage	多元評量方式 Assessments							
Items		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 General Performance	30%		~						
期中考成績 Midterm Exam	10%	~							
期末考成績 Final Exam	30%	~							
作業成績 Homework and/or Assignments	30%		~						
其他 Miscellaneous									

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.)

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.)

Teaching materials available on a school's website

其他補充說明(Supplemental instructions)