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## ②图 i 東華大學 教學計劃表 Syllabus

	名稱(中文) me in Chinese	資料探勘			學年/學期 Academic Year/Se	112/1		
	名稱(英文) me in English	Data Mining						
	科目代碼 Course Code CSIEM0240		系級 Department 碩士 & Year		開課單位 Course-Offering Department	se-Offering 資訊		
	修別 Type	選修 Elective 學分數/時間 Credit(s)/Hour(s) 3.0/3.0						
	t課教師 structor	/李官陵						
	化修課程 requisite							
課程描述 Course Description								
學習資料探勘相關之基礎知識以及未來之發展與應用,以上課講授為主,考試以及課堂討論為輔								
課程目標 Course Objectives								
Introduce the purpose, principles, methods and applications of data mining								
課程目標與系專業能力							力相關性 relation between urse Objectives and Dept.'s	
	統合資工知識技術之能力Ability to integrate knowledge and technologies of computer							
R 設計技	設計技術理绘驗終實驗之能力Ability to design and conduct science experiments and to							
	資訊軟硬體設計開發之能力Ability to design and develop computer software and hardware.							
	團隊專案開發之能力Ability to design and develop team projects.						0	
E 批判性思考與創新研發之能力。Ability of analytical thinking, creative research planning, and innovative development.								
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	1 Introduction							
2	2 Getting to Know Your Data							
3	Data preprocessing							
4	Association rul	on rule mining						
5	Association rul	rule mining and Interestingness measure (I)						
6	Association rule mining and Interestingness Measure (II)							

7	classification (I)						
8	classification (II)						
9	期中考試週 Midterm Exam						
10	Classification(III)						
11	Classification and evaluation						
12	Clustering (I)						
13	Clustering (II)						
14	Data mining trend(I)						
15	project report						
16	project report						
17	期末考試週 Final Exam						
18	consultation						
教學策略 Teaching Strategies							
✓ 課堂講授 Lecture     ✓ 分組討論Group Discussion     参觀實習 Field Trip							
其他Miscellaneous:							
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							
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:							
I							

學期成績計算及多元評量方式 Grading & Assessments									
配分項目配分比例		多元評量方式 Assessments							
Items	Percentage	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	5%		~						
期中考成績 Midterm Exam	30%	<b>~</b>							
期末考成績 Final Exam	30%	<b>~</b>							
作業成績 Homework and/or Assignments	35%			~			<b>~</b>		
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.)

"Data mining: concepts and techniques", third edition, Jiawei Han and Micheline Kamber, Morgan Kaufmann.

"Data Mining: Practical Machine Learning Tools and Techniques", 4/e, Ian H. Witten, Eibe Frank, Mark A. Hall, Christopher J. Pal, Morgan Kaufmann.

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.)

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其他補充說明(	Supplemental	instructions)