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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	大數據決策支援	E資訊系統		, , , , , , , , , , , , , , , , , , , ,	學年/學期 Academic Year/Semester			
課程名稱(英文) Course Name in English	Big Data Decision Support Information System							
科目代碼 Course Code	IMM0160	系級 Department 碩士 & Year		開課單位 Course-Offering Department	資訊管理學系			
修別 Type	選修 Elective	學分數/時間 Credit(s)/Hour(s)		3	3.0/3.0			
授課教師 Instructor	/邱素文							
先修課程 Prerequisite								
課程描述 Course Description								

Big-Data Decision Support Information System (BDSIS) focuses on reinforcement Learning and Big Data decision making science, AI-based topics of BDSIS.

課程目標 Course Objectives

To cope with Data-Driven Demand Chain in current internet era, the objective of this course is to present data-driven optimization and decision-making process using mathematical programming methods.

	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	培育具備創造與思考能力、服務精神、團隊合作以及國際觀Nurture ability regarding creativity and thinking, spirit of service, teamwork and international view	0
В	培養具備資訊專業知識與技能Nurture professional ability and skill regarding information	•
С	培養具備資訊科技與管理領域之知識整合應用能力Nurture integrated ability regarding information technology and management	0
D	培養具備解決問題之資訊剖析、組織、整合、應用以及表達的能力Nurture ability of information analysis, organization, integration, application, and expression regarding problem solving	•
Е	培養具備獨立研究、領導智能與資訊創新的能力Nurture ability regarding independent research, leadership and information innovation	•

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 of BDSIS	
2	Topics of Big data decision support information system (BDSIS)	
3	Topics of BDSIS: special issue (I)	
4	Topics of BDSIS: special issue (II)	
5	Topics of BDSIS: special issue (III)	
6	3/24: oral report-round #1	REQUIRED

7	3/31: Midterm exam	REQUIRED				
8	National holiday, no class					
9	Midterm week					
10	4/21: oral report-round #1 (cont'd)	REQUIRED				
11	4/28: oral report-round #1 (cont'd)	REQUIRED				
12	Topics on AI-based BDSIS (I)					
13	Topics on AI-based BDSIS (II)					
14	5/19: oral report-round #2	REQUIRED				
15	5/26: oral report-round #2 (cont'd)	REQUIRED				
16	6/02: oral report-round #2 (cont'd)	REQUIRED				
17	6/09: Final report due	REQUIRED				
18	Flexible study					
	教 學 策 略 Teaching Strategies					
✓ 課堂講授 Lecture ✓ 分組討論Group Discussion						
	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 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(含出缺席) General Performance (Attendance Record)	10%		~	~					
期中考成績 Midterm Exam	30%	>		~					
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

Midterm exam, two rounds of oral reports by individual and your final report are all required.

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.)

- 1. Analytics, Data Science, & Artificial Intelligence: Systems for Decision Support (11版) 2020, Ramesh Sharda, Dursun Delen, Efraim Turban (華泰文化)
- 2. SCI / SSCI paper readings + lecture notes

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)

 $\label{thm:condition} \mbox{Teaching Aids \& Teacher's Website} (\mbox{Including online teaching information.}$

Personal website can be listed here.)

see http://elearn4.ndhu.edu.tw/moodle

其他補充說明(Supplemental instructions)