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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 & Year	碩士	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					
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)					
一 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	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	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)

Teaching Aids & Teacher's Website(Including online teaching information.

Personal website can be listed here.)

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

其他補充治明	(Sunnlemental	instructions)
40 1017H / 101171	COUDDICHEAL	THOU DUCTIONS /