

國立東華大學
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	113/2
課程名稱(英文) Course Name in English	Big Data Decision Support Information System				
科目代碼 Course Code	IM_M0160	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)		3.0/3.0	
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				○
B	培養具備資訊專業知識與技能Nurture professional ability and skill regarding information				●
C	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				○
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				●
E	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
 ☐ 參觀實習 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
 ☐ 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:

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)	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									
其他補充說明 (Supplemental instructions)									