管院碩士班(含碩專班)課程大綱 MS/MA Program Syllabus

2023.09.26 修訂

系所 Department	資管所 IM	必選修 compulsory/elective	選修 Elective				
課程名稱	Business Intelligence	學分數 Credit(s)	3				
Course title	and Data Analytics (商						
	業智慧與數據分析)						
課號	5307159	全英文授課 English	是(Yes)				
Course Code		Taught (EMI)					
學年/學期 academic	114/01	上課地點 Classroom	College of				
year/Semester			Management616A				
講授教師	Kankham Sarawut (沙	上課時間	Thursday, 9:10 to				
Instructor	拉溫)	Time	12:00				
教師辦公室&諮詢時	By appointment	教師聯絡資訊	Phone: 05-				
間 Instructor office	(Room 621)	Instructor Contact	2720411#34604				
& office hour			Email:				
			bensarawut@ccu.edu.				
			tw				
助教	戴妤柔	助教 聯絡資訊	Email:				
Teaching assistant		TA contact	sandy123297@gmail.				
			com				
先修課程	- Introduction to Infor	mation Management					
Pre-requisite courses							
學習目標	- Understand the foundational principles, concepts, and frameworks underpinning						
Learning Objective	business intelligence	business intelligence, analytics, and data-driven decision making.					
	- Identify and apply various analytics methods, techniques, and tools essential for						
	developing effective	business intelligence solutions.					
	- Gain hands-on experience through practical applications, focusing on real-world						
	deployment, management, and evaluation of business intelligence and analytics						
	systems within business contexts.						
課程概述	This course introduces foundational concepts, principles, and managerial						
Course Descriptions	perspectives associated with Business Intelligence (BI), Analytics, and Data Science.						
	The course covers key BI and analytics methodologies, including data mining,						
	predictive analytics, data visualization, dashboards, and performance management.						
	Graduate students will explore practical BI applications within organizational						
	contexts and learn about relevant tools, technologies, and processes that transform						
	data into strategic business decisions.						

	Throughout the course, emphasis is placed on real-world business cases, hands-on						
	analytics experiences, and implications to equip graduate students with both						
	theoretical understanding and practical skills essential for leveraging data-driven						
	insights effectively in managerial perspective. This course is suitable for those who						
	wish to pursue a career path in data analytics, such as Data Analyst or Data Scientist						
	roles.						
對應 AOL 職能素養(AOL Competency)							
職能素養 4(Competency 4): 全球視野 Global 職能素養 1(Competency 1): 知識整合							
Perspective			Knowledge Integration				
課程類別	□人文關懷課程(Humanities Caring) □競賽專題課程(Competition)						
Course Attributes	図問題導向課程(Problem-solving) 図專題導向課程(Project-based) 図實作課程(Practice-based) 図總整課程(Capstone)						
教材編選	│ 図自製簡報(self-made	-			(Teaching Notes)		
Teaching materials	□自編教科書(self-made textbooks) □教學程式(programming)						
*/ KX1 */57 \T	□自製教學影片(self-made video) □其他(Others)						
教學資源	□課程網站(Website) □實習網站(Intern Web)						
Teaching Resources	☑教材電子檔供下載(Downloadable Files)						
教科書/參考書	- (Main) Sharda, Delen, & Turban (2018). Business Intelligence, Analytics, and						
Textbooks/References	Data Science: A Managerial Perspective (4th Edition). Pearson.						
	- (Supplement) Delen (2020). Predictive Analytics: Data Mining, Machine						
	Learning and Data Science for Practitioners (2nd Edition). Pearson.						
評量方式(請填百分	課堂參與	10%	個案討論 Case	study	%		
比)	Participation						
Assessment	作業 Homework	%	專題 Project		40%		
	小考 Quiz	%	其他 1 other ()	%		
	期中考 Midterm	25%	其他 2 other ()	%		
	Presentation		Ì				
	期末考 Final Exam	25%	其他 3 other ()	%		
	報告 Presentation	%	其他 4 other ()	%		
其他說明	- The instructor reserv	es the	right to make cha	nges to this	syllabus, such as class		
Other description	schedule, grading policy, etc., if necessary.						
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課程規劃表 Course Schedule

週次	日期	内容	教材章	其他說明
week	Date	Description	節	Remark
			Textbook	
1.	09/11	Course Opening		
2.	09/18	An Overview of Business Intelligence, Analytics, and Data Science	Chapter 1	
3.	09/25	Descriptive Analytics: Nature of Data, Statistical Modeling, and Visualization (I)	Chapter 2	
4.	10/02	Descriptive Analytics: Nature of Data, Statistical Modeling, and Visualization (II)	Chapter 2	
5.	10/09	Descriptive Analytics: Business Intelligence and Data Warehousing (I)	Chapter 3	
6.	10/16	Descriptive Analytics: Business Intelligence and Data Warehousing (II)	Chapter 3	
7.	10/23	Predictive Analytics: Data Mining Process, Methods, and Algorithms (I)	Chapter 4	
8.	10/30	Predictive Analytics: Data Mining Process, Methods, and Algorithms (II)	Chapter 4	
9.	11/06	Midterm Presentation		
10	11/13	Predictive Analytics: Text, Web, and Social Media Analytics (I)	Chapter 5	(Assign Final Project)
11.	11/20	Predictive Analytics: Text, Web, and Social Media Analytics (II)	Chapter 5	•
12.	11/27	Prescriptive Analytics: Optimization and Simulation (I)	Chapter 6	
13.	12/04	Prescriptive Analytics: Optimization and Simulation (II)	Chapter 6	Deadline for First Submission of Final Project
14.	12/11	Big Data Concepts and Tools (End)	Chapter 7	
15.	12/18	Final Project Presentation		Present Final Project
16.	01/08*	Final Exam		*12/25 and 01/01 are holidays.

^{*}The schedule and content may be subject to change.