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②国玄東華大學

教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese			作業研究(一)	1 -1 =1.00		學年/學期 Academic Year/Se	mester	112/1	
	課程名	程名稱(英文) Name in English Operations Research (I)							
科目代碼 Course Code			GSLM53000	系級 3000 Department & Year		開課單位 Course-Offering Department	運	運籌管理研究所	
	修別 Type 必修 Required							0	
		授課教師 Instructor /陳怡君							
	先修課程 Prerequisite								
			課	程描述 Cours	e Descrip	otion			
opera progr learn Stude	tions amming ing. ents wi	research, inclu g. Furthermore,	ding linear pro some useful op	ogramming, sentimization too	nsitivity ols will	basic concepts of analysis and dual be used to enhance s and use the solu	ity, and the stu	l integer udents'	
			課	程目標 Cour	se Object	ives			
深入分析在作業研究領域中關於線性規劃、整數規劃、決策分析及對局理論等有成效之個案,並對模式之建立、工具之應用及結果之延伸做探									
個案	,並對村	莫式之建立、工具			11252112	生品 7 万 灰			
個案:	, <u>並</u> 對材	模式之建立、工具	之應用及結果之業		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Cor	程目標與系專業能 力相關性 relation between ourse Objectives and Dept.'s Education Objectives	
個案: A		模式之建立、工具 E籌、供應鏈管理知言	之應用及結果之 系專 Basic Lear	延伸做探 ^正 業能力 ning Outcomes			Cor	力相關性 crelation between burse Objectives and Dept.'s Education	
	基礎運		之應用及結果之 系專 Basic Lear 裁Foundations on	延伸做探 i業能力 ning Outcomes logistics and	supply cha		Cor	力相關性 crelation between burse Objectives and Dept.'s Education	
A	基礎運	2籌、供應鏈管理知言	之應用及結果之 系專 Basic Lear 截Foundations on edge on logistics	延伸做探 i業能力 ning Outcomes logistics and	supply cha ment	in management	Cor	力相關性 crelation between burse Objectives and Dept.'s Education	
A B	基礎運	E籌、供應鏈管理知i 統管理知識 Knowle	え應用及結果之 系専 Basic Lear 識Foundations on edge on logistics	延伸做探 i業能力 ning Outcomes logistics and s system manage al tools and me	supply cha ment	in management	Cor	力相關性 crelation between burse Objectives and Dept.'s Education	
A B C D	基礎運籌系工語文表	i籌、供應鏈管理知i 統管理知識 Knowle -具方法知識 Knowle :達能力 Language a	A Basic Learn at Foundations on edge on logistics edge on analytical and communication	延伸做探 T業能力 ning Outcomes logistics and s system manage al tools and me	supply cha ment thodologie	in management	Con	力相關性 rrelation between burse Objectives and Dept.'s Education Objectives	
A B C D	基礎運籌系工語文表	i籌、供應鏈管理知i 統管理知識 Knowle -具方法知識 Knowle :達能力 Language a	之應用及結果之 系專 Basic Learn 截Foundations on edge on logistics edge on analytica and communication 〕 高度相關 Hi	延伸做探 T業能力 ning Outcomes logistics and s system manage al tools and me	supply cha ment thodologie ated ○中	in management es in logistics '度相關 Moderatel	Con	力相關性 rrelation between burse Objectives and Dept.'s Education Objectives	
A B C D	基礎運籌系工語文表	i籌、供應鏈管理知i 統管理知識 Knowle -具方法知識 Knowle :達能力 Language a	之應用及結果之 系專 Basic Learn 截Foundations on edge on logistics edge on analytica and communication ● 高度相關 Hi 授 課 進	延伸做探 T業能力 ning Outcomes logistics and s system manage al tools and me n skills ighly correla	supply cha ment thodologie ated ○中 g Schedul	in management es in logistics '度相關 Moderatel	Con	力相關性 rrelation between burse Objectives and Dept.'s Education Objectives	
A B C D 圖示:	基礎運籌工語文表說明	i籌、供應鏈管理知i 統管理知識 Knowle -具方法知識 Knowle :達能力 Language a	之應用及結果之 系專 Basic Learn 截Foundations on edge on logistics edge on analytica and communication ● 高度相關 Hi 授 課 進	延伸做探 ining Outcomes logistics and s system manage al tools and me n skills ghly correlate	supply cha ment thodologie ated ○中 g Schedul	in management es in logistics '度相關 Moderatel	Con	力相關性 rrelation between burse Objectives and Dept.'s Education Objectives	
A B C D 圖示:	基礎運 運籌工 語文表 説明[]	连籌、供應鏈管理知 統管理知識 Knowle 上具方法知識 Knowle 主達能力 Language a lustration :	之應用及結果之 系專 Basic Learn 截Foundations on edge on logistics edge on analytica and communication ● 高度相關 Hi 授 課 進	延伸做探 ining Outcomes logistics and s system manage al tools and me n skills ighly correla g 表 Teaching	supply cha ment thodologie ated ○中 g Schedul	in management es in logistics '度相關 Moderatel	Con	力相關性 rrelation between burse Objectives and Dept.'s Education Objectives	
A B C D 圖示:	基礎運 運籌工 語文表 説明[]	E籌、供應鏈管理知識 統管理知識 Knowle 具方法知識 Knowle 建能力 Language a lustration :	之應用及結果之意 系專 Basic Learn 截Foundations on edge on logistics edge on analytica and communication ● 高度相關 Hi 授課進 內容	延伸做探 I 業能力 Ining Outcomes logistics and Is system manage In tools and me In skills Ighly correla Ighly	supply cha ment thodologie ated ○中 g Schedul	in management es in logistics '度相關 Moderatel	Con	力相關性 rrelation between burse Objectives and Dept.'s Education Objectives	
A B C D 圖示:	基礎運 運籌系 語文表 説明 [] Week	E籌、供應鏈管理知識 統管理知識 Knowle 是其方法知識 Knowle 建能力 Language a lustration : Introduction Linear Programm	之應用及結果之意 A saic Learn at Foundations on edge on logistics and communication ● 高度相關 Hi 授課 進 內容 ning: Model for ning: Solution	延伸做探 I 業能力 I ning Outcomes logistics and Is system manage I tools and me I skills I ghly correla I ghly correla I was a Teaching Subject/Topi mulation tools	supply cha ment thodologie ated ○中 g Schedul cs	in management es in logistics 夕度相關 Moderatel e & Content	Con	力相關性 rrelation between burse Objectives and Dept.'s Education Objectives	

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Revised Simplex Method

7	Revised Simplex Method/ Sensitivity Analysis					
8	Sensitivity Analysis					
9	期中考試週 Midterm Exam					
10	Parametric Programming					
11	Parametric Programming					
12	Duality theory of Linear Programming					
13	Integer Programming: Model formulation					
14	Integer Programming: Solution algorithm					
15	Dynamic Programming					
16	Final Project Presentation					
17	期末考試週 Final Exam					
18	The 18th week for alternative curriculum					
	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) ■ ■體合作學習(TBL)						
翻轉教室 Flipped Classroom						
社會責任(Social Responsibility)						
在地實踐Community Practice						
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 othe	r:					

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									
期中考成績 Midterm Exam									
期末考成績 Final Exam									
作業成績 Homework and/or Assignments									
其他 Miscellaneous									

評量方式補充說明

Grading & Assessments Supplemental instructions

5% Class Participation

15% Homework

20% Final Project Presentation

30% Midterm Exam

30% Final Exam

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.)

Textbook:

PPT provided by instructor

References:

- 1. Introduction to Mathematical Programming, 4th edition, Winston W.L. and Venkataramanan, M., Duxbury Press, 2002.
- 2. Introduction to Operations Research, 9th edition, Hillier, F. S. and Lieberman, G.J., McGraw-Hill, 2009.
- 3. Operations Research Models and Methods, Jensen, P.A. and Bard, J.F., Wiley, 2003.
- 4. Operations Research: An Introduction, 9th edition, Taha, H.A., Prentice Hall, 2010.
- 5. Operations Research: Applications and Algorithms, 4th edition, Winston, W.L., Duxbury Press, 2003.
- 6. Linear Programming and Network Flows, 4th edition, Bazaraa, M.S., Jarvis, J.J., and Sherali, H.D., Wiley, 2009.

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.)

其他補充說明	(Supplemental	instructions