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②國玄東華大學

課 網 Course Outline

	資訊工	_程學系國際	組			
中文課程名稱 Course Name in Chinese	機器學習導論					
英文課程名稱 Course Name in English	Introductory Machine	Introductory Machine Learning				
科目代碼 Course Code	CSIEB0300	班 別 Degree	學士班 Bachelor's			
修別 Type	學程 Program	學分數 Credit(s)	3. 0	時 數 Hour(s)	3. 0	
先修課程 Prerequisite				- '		
	Cours	課程目標 se Objectives				
students both the learning technoomachine learning	g is the core of artificing heoretical and practical logies, facilitates the upg, and? sets up the technology in the future.	introduction anderstanding	to the basic of the appli	and common n cation domair	nachine n of	
		系教育目標 ucation Objec	tives			
1 具備學科知識,養成專業技能 Acquire academic knowledge, develop professional skills						
	學習創新思考,分析解決問題 Inspire innovative thinking, increase analytical problem solving ability					
1 3 1	培養團隊精神,學習溝通合作 Promote teamwork spirit, encourage coordination and cooperation					
	提昇專業倫理,承擔社會責任 Sublimate professional ethics, engage social responsibility					
'	涵育人文素養,開拓國際視野 Cultivate humanities, broaden global perspectives					
	系專業能力			課程目標 力相關性 Correlat		

2 亩 世 化 力	力相關性 Correlation
	between Course
Basic Learning Outcomes	Objectives and Dept.'s Education Objectives
A 資訊專業終身學習能力 Ability of lifetime learning in information profession	•

В	實驗驗證資訊科學能力 Ability of validate experimental result validation in			
	information science field			
С	資訊工具整合運用能力 Ability of integrated applications of information technology			
D	1 1			
	資訊系統應用設計開發能力 Ability of information application system design and ■			
E	development			
	團隊合作溝通協調能力			
F	Ability of teamwork, communication, and coordination			
	資通訊科技問題解決能力			
	Ability of problem solving regarding information and			
	communication technology			
G	瞭解資訊科技多元影響能力			
	Ability to understand information technology's multiple			
	influences			
	肩負資訊人社會責任能力			
Н	Ability of bearing the social responsibilities being among			
	information professionals			
圖示說明Illustration : ● 高度相關 Highly correlated ○中度相關 Moderately correlated				

課程大綱 Course Outline

- 1. Introduction
- 2. Bayesian Learning
- 3. Linear and Logistic Regression
- 4. Dimension Reduction
- 5. Neural Networks
- 6. Support Vector Machines
- 7. Decision Tree Learning
- 8. Unsumervised Learning
- 9. Applications

資源需求評估(師資專長之聘任、儀器設備的配合・・・等)

Resources Required (e.g. qualifications and expertise, instrument and equipment, etc.)

課程要求和教學方式之建議

Course Requirements and Suggested Teaching Methods

Class lectures, assignments, lab sessions and term project

其他

Miscellaneous