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# ②國玄東華大學

## 課 網 Course Outline

理工學院學士班						
中文課程名稱 Course Name in Chinese	智慧人機互動					
英文課程名稱 Course Name in English	Human-AI Interaction					
科目代碼 Course Code	TCA150080	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	建議學生先修習「生成式人工智慧導論」課程,或其他與人工智慧、自然語言處理相關之課程,具備基礎的 AI 概念與應用經驗。此外,應具備基本的多媒體程式設計能力,並熟悉 Unity Editor 的操作與 Unity SDK 的基礎開發技能。若尚未接觸過 Unity,建議可先參考以下入門資源進行預習:Unity 官方教學平台:https://learn.unity.com/OPENEDU 線上課程《互動程式設計 I》:https://www.openedu.tw/course?id=1328					
		課程目標 e Objectives				
能力。課程內容涵蓋/ 體驗創新。教學上將:	智慧技術於人機互動設計。 人機互動及互動設計之基之 透過講述法和工作坊建立 享學生完成從構思到原型	本概念、語意 基礎觀念,搭	理解與回應機制 配上機實作強化	J、以及AI驅動	之使用者	
	院 College.'s Ed	E教育目標 ducation Obj	ectives			
日 日 日 日 Acquisition of	子子學習能力	o and onhanc	oment of lear	rning shiliti	20	

1	Acquisition of professional competence and enhancement of learning abilities.					
	院基本素養與核心能力 College Basic Learning Outcomes	課程目標與院基本素 養與核心能力 Correlation between Course Objectives and Basic Learning Outcomes				
A	具備數理基本知識、邏輯推理、分析解決問題之能力。 Basic math knowledge, logical reasoning, analytical and problem -solving skills.					
В	具備中外語言表達溝通技巧,以養成團隊合作的能力。 Ability to express ideas and communicate in Chinese and foreign languages and teamwork skills.					
С	具備終身學習的能力。 Lifelong learning ability.					

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 Human-AI Interaction
- 2. Human-Computer Interaction (Input-to-Output)
- 3. Artificial Intelligence and Its Application
- 4. Human-AI Dialogue
- 5. Human Factors in Human-AI Interaction
- 6. Data-to-Context
- 7. Interaction with Large Multimodal Models (LMM)
- 8. Midterm Report and Presentation
- 9. Interacting with the Virtual Human
- 10. Heuristic Evaluation for AI Interaction
- 11. Final Project Proposal
- 12. Application with Model Context Protocol (MCP)
- 13. Human-AI Co-Creation
- 14. Invited talk by Guest Speaker
- 15. Final Project Presentation
- 16. Final Project Demonstration

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

#### 評量方式

Evaluation methods

●期中報告: 20% ●期末提案: 10% ●期末報告: 20%

●作業成績: 30%

●其他: 20%

其他

Miscellaneous