

 國立東華大學
教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese		教育科技專題研究			學年/學期 Academic Year/Semester	114/1
課程名稱(英文) Course Name in English		Research Seminar on Educational Technology				
科目代碼 Course Code		COE_73880	系級 Department & Year	博士	開課單位 Course-Offering Department	教育與潛能開發學系
修別 Type		選修 Elective	學分數/時間 Credit(s)/Hour(s)		3.0/3.0	
授課教師 Instructor		/張志明				
先修課程 Prerequisite						
課程描述 Course Description						
本課程主要以電腦支援協作教學之理論與實作案例為主，期使學生能在教學現場有效設計及進行方案。						
課程目標 Course Objectives						
1. 培養學生具備教育科技學術研究的知能。 2. 培養學生具備應用教育科技批判分析教育問題的知能。 3. 培養學生具備應用教育科技改進教育現況的知能。 4. 培養學生具備大專院校教育科技學門的教學知能						
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	具備卓越教育學術研究的知識與能力。To demonstrate the excellent intelligence and ability in educational academic research				●	
B	具備卓越教育行政領導的知識與能力。To demonstrate the intelligence and ability of excellent educational administration and leadership.				○	
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		課程介紹 數位實驗在中學的實踐案例				
2		Ch. 1. Foundations, Processes, Technologies, and Methods: An Overview of CSCL Through Its Handbook Ch. 2. Theories of CSCL				
3		中秋節				
4		Ch. 25 Case Studies in Theory and Practice Ch. 26. Design-Based Research Methods in CSCL: Calibrating our Epistemologies and Ontologies				
5		Ch. 3. A Conceptual Stance on CSCL History Ch.4. An Overview of CSCL Methods				

6	Ch. 5. Conceptualizing Context in CSCL: Cognitive and Sociocultural Perspectives Ch. 6. Interrogating the Role of CSCL in Diversity, Equity, and Inclusion	
7	Ch. 7. Sustainability and Scalability of CSCL Innovations Ch. 8. Communities and Participation	
8	Ch. 9. Collaborative Learning at Scale Ch. 10. Argumentation and Knowledge Construction	
9	期中考試週 Midterm Exam 案例演示	
10	Ch. 11. Analysis of Group Practices Ch. 12. Dialogism	
11	Ch. 13. Trialogical Learning and Object-Oriented Collaboration Ch. 14. Knowledge Building: Advancing the State of Community Knowledge	
12	Ch. 15. Metacognition in Collaborative Learning Ch. 16. Group Awareness	
13	Ch. 17. Roles for Structuring Groups for Collaboration Ch. 18. Collaboration Scripts: Guiding, Internalizing, and Adapting	
14	Ch.19. The Roles of Representation in Computer-Supported Collaborative Learning Ch. 20. Perspectives on Scales, Contexts, and Directionality of Collaborations in and Around Virtual Worlds and Video Games	
15	Ch. 21. Immersive Environments: Learning in Augmented + Virtual Reality Ch. 22. Robots and Agents to Support Collaborative Learning	
16	Ch. 23. Collaborative Learning Analytics Ch. 24. Tools and Resources for Setting Up	
17	Ch. 27. Experimental and Quasi-Experimental Research in CSCL Ch. 28. Development of Scalable Assessment for Collaborative Problem-Solving	
18	期末考試週 Final Exam 彈性週	

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)	20%								
期中考成績 Midterm Exam									
期末考成績 Final Exam									
作業成績 Homework and/or Assignments	80%								
其他 Miscellaneous (_____)									
評量方式補充說明 Grading & Assessments Supplemental instructions 每週兩大單元，於上課前繳交初次心得。進行分組討論報告，改寫心得後繳交。									
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.) U. Cress, C. Rosé, A. F. Wise, & J. Oshima (Eds.), International handbook of computer supported collaborative learning. Cham: Springer.									
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)									