



課 綱 Course Outline

人文社會科學學院華語文教學暨書法國際碩士班碩士班

中文課程名稱 Course Name in Chinese	科技促進語文學習研究				
英文課程名稱 Course Name in English	Research on Technology-Enhanced Language Learning				
科目代碼 Course Code	TCLCM0230	班 別 Degree	碩士班 Master' s		
修別 Type	選修 Elective	學分數 Credit(s)	3.0	時 數 Hour(s)	3.0
先修課程 Prerequisite					
課程目標 Course Objectives					
<p>Language learning in authentic contexts reflect the kind of activities that people do in the real world, particularly using advanced technologies like recognition technology and AI. Therefore, authentic contexts are very meaningful and relevant to students during their language learning process. In this course, we will focus on sustainable language learning in authentic contexts using advanced technology to facilitate students to develop high-level cognition like creativity with scalability. Creativity is the use of knowledge, imagination, and judgment by students to solve problems in an innovative, high quality, and appropriate manner. Clarke, Dede, Ketelhut, and Nelson (2006) defined the term “sustainability” to refer to an ability to learn programs to remain in use and the term “scalability” as an ability to language learning programs and design to be adapted in a wide variety of contexts. Therefore, how to consider the above three abilities in language learning design with advanced technology becomes very critical to get a success in education. This is because language learning in authentic contexts with help of advanced technologies can potentially realize the above three abilities and complement traditional language learning in class/at school.</p> <p>最終培養具備以科技促進語言習得，以及對相關議題長期觀察研發之師資人才。</p>					
系教育目標 Dept.'s Education Objectives					
1	培育海外優良華語師資人才				
2	培育各種面向華語文教材之研發人才				
3	培育華語文教學進階研究人才				
4	培育以書畫藝術為重之華語文教學人才				

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	掌握中國文字之特質，理解其演變的歷史意義。	
B	具備運用漢語漢字形、音、義的特性來治學。	
C	具備華語文教學的智識與技能。	○
D	語言教育基本理論架構及其教學應用研究。	
E	具有國際視野，瞭解跨文化與華語文教學在國際的全貌。	
F	具有從事華語文教材教法設計之研究能力。	○
G	華語文教學與科技運用之研究。	●

圖示說明Illustration：● 高度相關 Highly correlated ○ 中度相關 Moderately correlated

課程大綱 Course Outline

Part I Technology-enhanced EFL Speaking in Authentic contexts

1. Collaborative Kinesthetic English Learning with Recognition Technology.
2. Collaborative Drama-Based EFL Learning in Familiar Contexts
3. Collaborative Kinesthetic EFL Learning with Collaborative Total Physical Response
4. Investigating the effectiveness of a learning activity supported by a mobile multimedia learning system to enhance autonomous EFL learning in authentic contexts
5. Facilitating application of language skills in authentic environments with a mobile learning system
6. A Study of the Cognitive Diffusion Model: Facilitating Students' High Level Cognitive Processes with Authentic Support
7. Cognitive Diffusion Model: Facilitating EFL learning in an authentic environment
8. Evaluating Listening and Speaking Skills in a Mobile Game-Based Learning Environment with Situational Contexts
9. Effects of Storytelling to Facilitate EFL Speaking Using Web-Based Multimedia System
10. Review of research on mobile language learning in authentic environments
11. Recognition-based physical response to facilitate EFL learning
12. Cognitive Diffusion Model with User-Oriented Context-to-Text Recognition for Learning to Promote High Level Cognitive Processes
13. Effects of using mobile devices on English listening diversity and speaking for EFL elementary students
14. Users' Familiar Situational Contexts Facilitate the Practice of EFL in Elementary Schools with Mobile Devices

Mid-term Presentation(Summary & Reflection& Proposal)

Part II Technology-enhanced EFL Writing in Authentic contexts

15. Self-experienced storytelling in an authentic context to facilitate EFL writing

16.Improving English as a Foreign Language Writing in Elementary Schools Using Mobile Devices in Familiar Situational Contexts 17.Affordances and Influences of Multiple Recognitions for EFL Writing in Authentic Contextual Learning Part III GAI -enhanced EFL Learning in Authentic contexts 18."AI-Enhanced Video Drama-Making for Improving Writing and Speaking Skills Among Students Learning EFL 19.XoT (Xducation of Things): Harnessing AI and edge computing to educate all things 20.AI and recognition technologies to facilitate EFL writing for supporting personalization and contextualization in authentic contexts 21.Investigating the impact of Context-Awareness Smart Learning Mechanism on EFL conversation learning 22.Facilitating authentic contextual EFL speaking and conversation with smart mechanisms and investigating its influence on learning achievements Final Presentation(Summary & Reflection & Proposal)
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.)
1. 聘請相關領域教師擔任兼任或跨領域共授教師。 2. 學生帶筆電。
課程要求和教學方式之建議 Course Requirements and Suggested Teaching Methods
Flipped Classroom + Reciprocal teaching (SQCP: Summarizing, Questioning, Clarifying, Predicting) or SWOP(Strength, Weakness, Opportunity, Prediction): 3 hours are divided into 3 parts based on Flipped Classroom.
其他 Miscellaneous
本課程與資訊工程學系碩士班合開