

國立屏東大學

113年度EXPLORER探索者
素養導向高教學習創新計畫

【生成式AI融入課程教學】

第一階段成果

計畫名稱：結合 AI 工具提升學生口語能力：以商管英文為例

姓名/職稱：朱曉薇/ 助理教授

所屬單位：大武山學院

課程名稱	商管英文
開課單位	大武山學院 共同教育中心
開課學分數	2 學分
預計修課人數	35 人
課程屬性	<input type="checkbox"/> 新開設課程 <input checked="" type="checkbox"/> 舊課程翻新
課程類別	<input checked="" type="checkbox"/> 必修 <input type="checkbox"/> 選修 <input type="checkbox"/> 共同科目 <input type="checkbox"/> 通識 <input type="checkbox"/> 學程課程 <input type="checkbox"/> 全英語授課 (EMI) <input type="checkbox"/> 其他_____
教學目標	By integrating AI tools (ChatGPT, NaturalReader, and Otter.ai) into Sophomore English for Business Management course's speaking tasks - such as a group presentation, an in-class presentation, and a vlog recording - students are expected to enhance their speaking scripts by receiving feedback and suggestions from ChatGPT, improve their intonation by listening to authentic input from NaturalReader, and refine their pronunciation and fluency by recording and practicing their scripts with Otter.ai. Through repeated practice with these AI tools, students are expected to correct mispronunciations and improve their intonation during presentations. In addition, students will submit AI worksheets to reflect on what and how they have learned while using these tools.
預期學習成果	<ul style="list-style-type: none"> • Script Enhancement: Students will demonstrate the ability to improve the content and clarity of their speaking scripts by integrating feedback and suggestions provided by ChatGPT. • Intonation Improvement: Students will improve their intonation in spoken English by listening to authentic input from NaturalReader and applying this feedback to their presentations. • Pronunciation and Fluency Development: Students will enhance their pronunciation and overall fluency by using Otter.ai to record and review their speech, correcting mispronunciations and refining delivery. • Self-Reflection and Iterative Practice: Students will apply iterative practice strategies, utilizing AI tools to identify and correct mistakes, thereby gaining greater self-awareness of their speaking skills. • Presentation Confidence: Students will gain confidence in delivering spoken presentations, as they improve their speech accuracy, fluency, and expressiveness through continuous practice with AI tools.

與預期學習成果 搭配的多元評量	<ul style="list-style-type: none"> • AI Worksheets (10%): Students will complete three AI worksheets by responding to prompts. This activity encourages them to reflect on what and how they have learned to enhance their speaking skills through the use of AI tools. • Video-recorded Group Presentation (15%): In alignment with the second theme, groups of four students will work together to produce an 8-minute video presentation introducing an assigned topic. • In-class Presentation (20%): At the end of the semester, each student will deliver a 3-minute individual presentation in class based on an assigned topic. • Vlog Recording (15%): Over the course of the semester, students will choose one topic from the three themes and create a personal vlog to present the content. 	
週次	16 週課程綱要	<p style="text-align: center;">於課程內安排 與生成式 AI 應用學習活動</p> <p style="text-align: center;">(至少 3 週以上，請於安排的週次欄位內具體詳細敘明)</p>
1	Course Overview (Introduce course syllabus, main tasks & grouping)	<ul style="list-style-type: none"> • 介紹使用生成式 AI 的素養與正確觀念
2	Theme 1 Disciplinary Communication	<ul style="list-style-type: none"> • Introduce ChatGPT guidelines
3		<ul style="list-style-type: none"> • Techniques to write formal emails in business formats
4		
5		
6		<ul style="list-style-type: none"> • In-class writing – Formal email • Homework assignment (AI Worksheet Practice): Use ChatGPT to revise the in-class writing and list at least five changes from the version written by ChatGPT. Students need to explain what they have learned from the new version. <p>使用 ChatGPT 比對課堂寫作與修正後寫作內容，並於學習單上寫出至少五項由 ChatGPT 修正之處並說明學習到的內容為何，應如何修正與避免錯誤。</p>
7	Theme 2 Disciplinary Language Awareness & Integration	<ul style="list-style-type: none"> • Tips on giving a formal presentation
8		<ul style="list-style-type: none"> • Discussion on group presentation topic: introduce two famous companies around the world
9		<ul style="list-style-type: none"> • Write the script draft of the group presentation

10		<ul style="list-style-type: none"> • In-class group presentation script writing and use ChatGPT to revise the scripts 介紹如何給予 ChatGPT 正確指令，並讓同學於小組討論及撰寫報告講稿，在課堂中使用 ChatGPT 完成講稿修正，並於學習單上寫出至少五項由 ChatGPT 修正之處並說明學習到的內容為何，應如何修正與避免錯誤。 • Introduce NaturalReader and Otter.ai 於課程中及課後練習使用 NaturalReader 在修正後講稿中劃出各語句停頓之處，並與小組組員討論所劃出處是否一致。接下來同學使用 Otter.ai 錄製講稿，並比對講稿原稿與 Otter.ai 所生成的講稿，進而修正錯誤發音。
11		<ul style="list-style-type: none"> • AI worksheet I due • 8-minute video-recording group presentation due
12	Theme 3 Disciplinary Identity & Community	<ul style="list-style-type: none"> • Introduce on personal SWOT Analysis
13		<ul style="list-style-type: none"> • Using personal SWOT to analyze recruitment advertisements
14		<ul style="list-style-type: none"> • Writing individual presentation scripts and use ChatGPT to revise the scripts 同學們於課堂撰寫報告講稿，在課堂中使用 ChatGPT 完成講稿修正，並於學習單上寫出至少五項由 ChatGPT 修正之處並說明學習到的內容為何，應如何修正與避免錯誤。此外，同學也將比較此次講稿寫作中是否有出現與之前一樣之錯誤。
15		<ul style="list-style-type: none"> • Both in-class & out-of-class NaturalReader + Otter.ai practice 於課程中練習使用 NaturalReader 在修正後講稿中劃出各語句停頓之處，並與小組組員討論所劃出處是否一致。接下來同學使用 Otter.ai 錄製講稿，並比對講稿原稿與 Otter.ai 所生成的講稿，進而修正錯誤發音。
		<ul style="list-style-type: none"> • AI worksheet II due • In-class 3-minute individual presentation (Day 1)
16		<ul style="list-style-type: none"> • In-class 3-minute individual presentation (Day 2) • Vlog recording & AI worksheet III due

二、評量工具

1. **Task 1 (Speaking)** (Group) **Video-recording 8-min presentation** 15%
2. **Task 2 (Writing)** (Individual) **Email writing in a business format** 20%
3. **Task 3 (Speaking)** (Individual) **In-class 3-min personal SWOT analysis presentation** 20%

- 4. **Vlog recording (Speaking)** (Individual) 15%
- 5. **Out-of-class tasks (Writing)** (Individual) (AI worksheet * 3:10%; Mind-mapping diagrams * 5:10%) 20%
- 6. **Pre-test & Post-test** 10%

三、其他

- **AI Worksheet sample**

Worksheet 1 – ChatGPT Reflection

1. Original Text

Write the original text (about 200 words) that you created for the "My Summer Break" topic:

First draft

2. ChatGPT Feedback

What suggestions did ChatGPT give you for improving your text? (Grammar, sentence structure, vocabulary, etc.)

Feedback from ChatGPT:

3. Revised Text

Rewrite your text based on the feedback you received from ChatGPT:

Revised Text:

4. Reflection

Answer the following questions:

- What changes did you make to your text after using ChatGPT?

- How do you feel ChatGPT helped improve your writing? (You may write your answer in Chinese.)

Worksheet 2: NaturalReader Practice

1. Listening to NaturalReader

- After listening to NaturalReader read your script, what did you notice about the pronunciation, pacing, and intonation? (You may answer this question in Chinese.)

Answer:

2. Practice with NaturalReader

- Did you notice any **words or phrases** you need to practice more? List them below.

Answer:

3. Speaking Practice

- How did practicing with NaturalReader improve your pronunciation and fluency? (You may answer this question in Chinese.)

Answer:

Worksheet 3: Otter.ai Review

1. Recording with Otter.ai

- Upload your recorded script into or record script through Otter.ai. Review the transcription and identify any mistakes in your pronunciation or fluency.

Notes on Mistakes:

2. Analyzing Speech Patterns

- What **words or phrases** did you struggle with while recording? Write them below.

Difficult Words/Phrases:

3. Reflection on Fluency

- How can you improve your fluency based on the Otter.ai transcription? What will you focus on in your next practice? (You may write this answer in Chinese.)

Answer:

4. Comparison with NaturalReader

- Compare your recording to the audio generated by NaturalReader. How does your pronunciation and fluency differ? What will you work on improving? (You may write this answer in Chinese.)

Answer:

▲請於 114/01/15(三)下午 24:00 前將電子檔 (word、可編輯文字檔格式或 pdf 格式)寄至教學發展中心 demonfor99@mail.nptu.edu.tw