

| TEACHING & LEARNING

# Applying Generative AI to Produce VR Teaching Materials

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| The students giving a detailed introduction to their VR lesson plans.

The Digital Learning Center (DLC) of NTU Office of Academic Affairs continues to promote VR immersive teaching. Among the courses, “Applying Generative AI for Producing VR Teaching Materials” taught by Prof. Chia-Pin Yu at the Department of Forestry and Resource Conservation teaches students to efficiently script VR lesson plan structures with generative AI tools, as well as learn teaching design principles, capturing real-life images with 360° cameras, image editing and other technologies, allowing the students to create VR lesson plans through team-based learning.

When scholars from Indiana University (IU) in the United States and University of Hamburg (UHH) in Germany visited NTU, they had an exchange with the students taking this class. After each group of students explained the design philosophies of their VR lesson plans, the scholars had the opportunity to actually experience the VR lesson plans and provide feedback and comments, such as how to reduce discomfort and dizziness through shooting techniques, allow users to



| Lively group discussion with the scholars.



| The scholars sharing feedback with the students.

move more freely and adjust shooting angles to enhance immersion, as well as match the tactile sensation from the actual environment with the virtual world. The exchange of opinions has greatly benefited the students. A student said: “What I remember the best is a professor saying general VR was all about physical movement, but our lesson plans can help people overcome their fears and get out of their comfort zone, which is a great idea.”

DLC will continue to expand and promote immersive teaching by assisting faculty and students to create VR lesson plans for the VR courses to be available all over campus.



The scholars sharing their views on teaching with each other.



Group photo with IU and UHH scholars.