

AI for Scaffolding Science Education

Using AI to enrich students' science knowledge and scaffold their thinking capabilities

This course employs the **5W1H** method (What, Why, When, Where, Who, How) for initiated prompts and the **SCAMEER** framework for deeper prompts to guide students in phenomenon-based inquiry. Through structured questioning, students explore and analyze real-world topics, enhancing their critical thinking, evidence-based learning, and scientific inquiry skills.

Topics for Inquiry



Double Rainbow



Typhoon



Fallen Leaves



Leaf Color Change

Course Highlights

- **5W1H × ChatGPT Integration:** Structured thinking meets AI to boost questioning and critical thinking.
- **Enhanced Thinking Skills:** Practice tasks to develop inquiry, analysis, evaluation, and creativity.
- **AI Interaction & Prompting Skills:** Learn effective prompts and how to communicate with ChatGPT.
- **Systematic Thinking Training:** Follow the 5W1H steps to build logical and organized thinking.
- **Independent & Collaborative Learning:** Express ideas clearly and engage in team discussions.

Session Details

Time:

Duration: 2 hours

More information

 tcdahong@gmail.com

 <https://www.aeit.net>

JAN

PROFESSOR
JON-CHAO HONG

Taiwan Normal University,
Taipei, Taiwan

