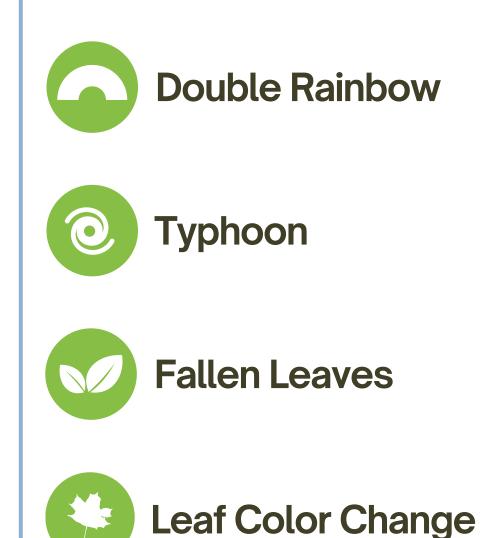


## Al for Scaffolding Science Education

## 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 phenomenonbased 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** 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.
- Al 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 DetailsTime:Duration: 2 hoursMore informationImage: Direct informationImage: Direct

#### PROFESSOR JON-CHAO HONG

Taiwan Normal University, Taipei,Taiwan

