COURSE DETAIL

INTERACTIVE SYSTEM DESIGN AND IMPLEMENTATION
Country Taiwan
Host Institution National Taiwan University
Program(s) National Taiwan University
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Computer Science
UCEAP Course Number 121
UCEAP Course Suffix
UCEAP Official Title INTERACTIVE SYSTEM DESIGN AND IMPLEMENTATION
UCEAP Transcript Title INTERACT SYS DESIGN
UCEAP Quarter Units 4.50
UCEAP Semester Units 3.00

Course Description

This course provides instruction in building cutting-edge interactive systems and guides to design futuristic experiences. Students gather in Make Reality Space in a studio format to construct software and hardware prototypes. Topics for each semester may change and evolve towards ultimate reality.

This course focuses on mixed reality technologies. Specifically, students use Meta Quest 3, Intel Realsense cameras, computer vision toolkits, 3D printed props, and Unity game engines to connect both the physical and virtual worlds. In groups, students design and build their own interactive hardware/software prototypes and present them in a live demo at the end of term.

Language(s) of Instruction
English

Host Institution Course Number
CSIE5646

Host Institution Course Title
INTERACTIVE SYSTEM DESIGN AND IMPLEMENTATION

Host Institution Course Details
https://nol.ntu.edu.tw/nol/coursesearch/print_table.php?course_id=922%20U4950&c...

Host Institution Campus

Host Institution Faculty
College of Electrical Engineering and Computer Science

Host Institution Degree

Host Institution Department
Department of Computer Science and Information Systems

Course Last Reviewed

2024-2025

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