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
107

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 Campus

Host Institution Faculty
College of Electrical Engineering and Computer Science

Host Institution Degree

Host Institution Department
Department of Computer Science and Information Systems

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