COURSE DETAIL

SPECIAL TOPICS ON INTERNET OF THINGS
Country Taiwan
Host Institution National Taiwan University
Program(s) National Taiwan University
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Electrical Engineering
UCEAP Course Number 118
UCEAP Course Suffix
UCEAP Official Title SPECIAL TOPICS ON INTERNET OF THINGS
UCEAP Transcript Title INTERNET OF THINGS
UCEAP Quarter Units 4.50
UCEAP Semester Units 3.00

Course Description

Recently, sensor networks, cyber physics systems, and internet of things have become popular because sensing, communication, and analytics technologies matured. In the future, digital sensing, communication, and processing capabilities will be ubiquitously embedded into everyday objects, turning them into an Internet of Things (IoT, also known as, machine-to-machine, M2M). Sensors everywhere can continuously collect a large quantity of data; processors everywhere can analyze and infer useful knowledge from the data; communication ratios can transmit and exchange useful knowledge with other everyday objects to serve humans better. This paradigm shift which can significantly improve our life brings up numerous challenges and opportunities to engineering. This course plans to encourage students from multiple disciplines to collaborate with each other and create innovative IoT applications/services to improve our daily life. Electrical engineering students from NTU and NTU Science and Technology collaborate with design students from NTU to design prototypes of Internet of Things products that improve our daily lives. Teams present a live demonstration of their project at the end of the quarter.

Language(s) of Instruction
Chinese

Host Institution Course Number
EE5159

Host Institution Course Title
SPECIAL TOPICS ON INTERNET OF THINGS

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department
Electrical Engineering

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