

COURSE DETAIL

SEMICONDUCTORS: GLOBAL CHALLENGES OF A CRITICAL INDUSTRY

Country

Taiwan

Host Institution

National Taiwan University

Program(s)

National Taiwan University

UCEAP Course Level

Graduate

UCEAP Subject Area(s)

Business Administration

UCEAP Course Number

210

UCEAP Course Suffix**UCEAP Official Title**

SEMICONDUCTORS: GLOBAL CHALLENGES OF A CRITICAL INDUSTRY

UCEAP Transcript Title

SEMICONDUCTR CHLLNGE

UCEAP Quarter Units

1.50

UCEAP Semester Units

1.00

Course Description

Semiconductors are vital to nearly every aspect of modern life. Semiconductor integrated circuits (ICs, chips) and materials play a crucial role in industries such as communication, information technology, transportation, healthcare, defense, aerospace, and consumer electronics. The COVID-19 global pandemic in the last few years triggered an unprecedented surge in demand for semiconductor products. However, factory shutdowns and city lock-downs disrupted the global semiconductor supply chain, and as a result, a severe shortage in semiconductor chips occurred. It halted automobile production and caused a significant delivery delay of electronic products necessary for our daily life during the pandemic. This chip shortage crisis exposed the vulnerability of the global supply chain.

This intensive course provides an introduction to the semiconductor industry in Taiwan and Asia. The course provides an overview of the industry; develops a fundamental understanding of its supply chain and key players, and explores the impacts of the Creating Helpful Incentives to Produce Semiconductors (CHIPS) Acts of the U.S. and geopolitical factors.

Language(s) of Instruction

English

Host Institution Course Number

GMBA7143

Host Institution Course Title

SEMICONDUCTORS: GLOBAL CHALLENGES OF A CRITICAL INDUSTRY

Host Institution Campus

Host Institution Faculty

College of Management

Host Institution Degree

Host Institution Department

Global MBA

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