

COURSE DETAIL

INTRODUCTION TO CYBERSECURITY

Country

Japan

Host Institution

Keio University

Program(s)

Keio University

UCEAP Course Level

Lower Division

UCEAP Subject Area(s)

Computer Science

UCEAP Course Number

60

UCEAP Course Suffix**UCEAP Official Title**

INTRODUCTION TO CYBERSECURITY

UCEAP Transcript Title

INTRO CYBERSECURITY

UCEAP Quarter Units

3.00

UCEAP Semester Units

2.00

Course Description

This course introduces the basic concepts of Cybersecurity. It explores the challenges that the interconnectedness of cyberspace poses to computer networks; the concept of risk; typical patterns of vulnerabilities, as well as attacks and mitigation strategies.

The course introduces, in a non-technical fashion, the basic concepts of cryptography, and the typical cryptographic building blocks: encryption, digital signatures, authentication codes, public key and secret key infrastructures. The course discusses how these building blocks are used to construct secure networks and the legal frameworks handling cyber-attacks. Finally, the course analyzes cybersecurity in the context of Japan and East Asia.

Language(s) of Instruction

English

Host Institution Course Number

N/A

Host Institution Course Title

INTRODUCTION TO CYBERSECURITY

Host Institution Campus

Keio University

Host Institution Faculty

Host Institution Degree

Host Institution Department

International Center

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