# COURSE DETAIL

## QUANTUM COMPUTING

**Country**
Singapore

**Host Institution**
National University of Singapore

**Program(s)**
National University of Singapore

**UCEAP Course Level**
Upper Division

**UCEAP Subject Area(s)**
Computer Science

**UCEAP Course Number**
168

**UCEAP Course Suffix**

**UCEAP Official Title**
QUANTUM COMPUTING

**UCEAP Transcript Title**
QUANTUM COMPUTING

**UCEAP Quarter Units**
6.00

**UCEAP Semester Units**
4.00

**Course Description**

This course introduces basics of quantum computing and covers various well known quantum algorithms, such as Deutsch-Jozsa algorithm, Simon's algorithms, quantum Fourier transform, phase estimation, Shor's algorithm and Grover's algorithm.

**Language(s) of Instruction**

English

**Host Institution Course Number**

CS4268

**Host Institution Course Title**

QUANTUM COMPUTING

**Host Institution Campus**

**Host Institution Faculty**

**Host Institution Degree**

**Host Institution Department**

Computer Science

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