# COURSE DETAIL

| QUANTUM COMPUTING |
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| **Country**<br>Singapore |
| **Host Institution**<br>National University of Singapore |
| **Program(s)**<br>National University of Singapore |
| **UCEAP Course Level**<br>Upper Division |
| **UCEAP Subject Area(s)**<br>Computer Science |
| **UCEAP Course Number**<br>168 |
| **UCEAP Course Suffix** |
| **UCEAP Official Title**<br>QUANTUM COMPUTING |
| **UCEAP Transcript Title**<br>QUANTUM COMPUTING |
| **UCEAP Quarter Units**<br>6.00 |
| **UCEAP Semester Units**<br>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 Course Details**

**Host Institution Campus**

**Host Institution Faculty**

**Host Institution Degree**

**Host Institution Department**
Computer Science

**Course Last Reviewed**

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