

# COURSE DETAIL

## QUANTUM MECHANICS

**Country**

Sweden

**Host Institution**

Lund University

**Program(s)**

Lund University

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Physics

**UCEAP Course Number**

168

**UCEAP Course Suffix****UCEAP Official Title**

QUANTUM MECHANICS

**UCEAP Transcript Title**

QUANTUM MECHANICS

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

## Course Description

The course deepens previous knowledge in quantum mechanics and teaches students to handle typical problems in different fields such as atomic, nuclear, solid-state, and elementary particle physics. Topics include formulation of quantum mechanics in terms of general state vectors and operators, algebraic treatment of harmonic oscillator, angular momentum and spin, perturbation theory, identical particles, and outlook on many-body quantum physics.

### Language(s) of Instruction

English

### Host Institution Course Number

FYSN17

### Host Institution Course Title

QUANTUM MECHANICS

### Host Institution Campus

LUND UNIVERSITY

### Host Institution Faculty

### Host Institution Degree

### Host Institution Department

Physics

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