

COURSE DETAIL

ULTRASOUND PHYSICS AND TECHNOLOGY

Country

Sweden

Host Institution

Lund University

Program(s)

Lund University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Physics Electrical Engineering Bioengineering

UCEAP Course Number

162

UCEAP Course Suffix**UCEAP Official Title**

ULTRASOUND PHYSICS AND TECHNOLOGY

UCEAP Transcript Title

ULTRASOUND PHYSICS

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course gives a fundamental understanding and an experimental experience of ultrasound and gain insight in an expanding research area. Topics covered include ultrasound physics, transducer technology, diagnostic equipment technology, doppler, bio-acoustics, field characterization, airborne ultrasound, diagnostic application, non-destructive testing, sonar, and research projects at the department. Assumed prior knowledge: First Course in Physics

Language(s) of Instruction

English

Host Institution Course Number

EEMN15

Host Institution Course Title

ULTRASOUND PHYSICS AND TECHNOLOGY

Host Institution Course Details

https://kurser.lth.se/lot/course-syllabus/25_26/EEMN15

Host Institution Campus

Lund

Host Institution Faculty

Engineering

Host Institution Degree

Host Institution Department

Course Last Reviewed

2025-2026

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