

COURSE DETAIL

OPTICS AND OPTICAL DESIGN

Country

Sweden

Host Institution

Lund University

Program(s)

Lund University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Physics Engineering

UCEAP Course Number

116

UCEAP Course Suffix**UCEAP Official Title**

OPTICS AND OPTICAL DESIGN

UCEAP Transcript Title

OPTCS & OPTICL DSGN

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

The course covers the basic principles of optics and gives practical knowledge on optical design with the help of a ray tracing program. Topics covered in the course include Ray optics, including matrix-formulation, wave optics, Fourier optics, electromagnetic optics, and polarization. The course includes three laboratory exercises (interferometry, Fourier optics, and polarization) and a project using ray tracing.

Language(s) of Instruction

English

Host Institution Course Number

FAFF01

Host Institution Course Title

OPTICS AND OPTICAL DESIGN

Host Institution Campus

Lund

Host Institution Faculty

Engineering

Host Institution Degree**Host Institution Department**

Engineering- Physics

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