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 Course Details
https://fukurser.lth.se/fud/details/?code=FAFF01F&lang=en

Host Institution Campus
Lund

Host Institution Faculty
Engineering

Host Institution Degree

Host Institution Department
Engineering- Physics

Course Last Reviewed
2023-2024

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