

Year 1

Period 1

FAFF01
Optics and Optical
Design
7.5 ECTS

Elective-
mandatory 7.5 ECTS
Elective

Period 2

FAFN01
Lasers
7.5 ECTS

Elective-
mandatory 7.5 ECTS
Elective

Period 3

FFFN25
Opto-Electronics and
Optical Communication
7.5 ECTS

Elective (7.5 ECTS)

Period 4

FAFN10
Advanced optics
and lasers
7.5 ECTS

Elective (7.5 ECTS)

Research environment:



LLC
LUND LASER CENTRE



NANO
LUND
AT THE FOREFRONT
OF NANOSCIENCE



Year 2

Period 1

Elective (7.5 ECTS)

Elective (7.5 ECTS)

Period 2

Elective (7.5 ECTS)

Elective (7.5 ECTS)

Period 3

Master thesis 30 ECTS (half-year,
full-time)

Alternative 1:

Alternative 2:

Master thesis 30 ECTS (full-year, half-time)

Elective (7.5 ECTS)

Elective (7.5 ECTS)

Elective (7.5 ECTS)

Elective (7.5 ECTS)

Elective-mandatory courses (at least 1)

- FAFN25: Atomic and Molecular Spectroscopy, 7.5 ECTS
- FAFN35: Medical Optics, 7.5 ECTS

Elective courses:

Diagnostics / Interaction:

- FAFN05: Light-Matter Interaction, 7.5 ECTS
- FBRN01: Laser-Based Combustion Diagnostics, 7.5 ECTS
- FMFN05: Quantum mechanics, 7.5 ECTS
- FAFN40: Quantum information / Quantum Optics (alternating), 7.5 ECTS
- FFFN20: Experimental Bio-Physics, 15 ECTS
- FBRN10: Bio-photonics, 7.5 ECTS

Optical Communication:

- EITG05: Digital Communication, 7.5 ECTS
- EITN45: Information Theory, 7.5 ECTS
- EITN90: Radar and Remote Sensing, 7.5 ECTS
- EITP10: High Performance Fiber Networks, 7.5 ECTS
- ETEN10: Antenna Technology, 7.5 ECTS
- ETTN01: Advanced Digital Communication, 7.5 ECTS
- EITN35: Advanced Course in Electrical and Information Technology, 7.5 ECTS

Nano-technology and components:

- FFFN30: Solid State Physics, 7.5 ECTS
- FFFN35: Physics of Low-Dimensional Systems, 7.5 ECTS
- FFFN01: Advanced Processing of Nanostructures, 7.5 ECTS
- FFFF10: Process and Component technology, 7.5 ECTS

Others:

- ETIA10: Patent and Intellectual Property Rights, 7.5 ECTS