### Year 1

<table>
<thead>
<tr>
<th>Period 1</th>
<th>Period 2</th>
<th>Period 3</th>
<th>Period 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>FAF01 Optics and Optical Design 7.5 ECTS</td>
<td>FAFN01 Lasers 7.5 ECTS</td>
<td>FFFN25 Opto-Electronics and Optical Communication 7.5 ECTS</td>
<td>FAFN10 Advanced optics and lasers 7.5 ECTS</td>
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</tbody>
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#### Elective-mandatory courses (at least 1)
- FAFN25: Atomic and Molecular Spectroscopy, 7.5 ECTS
- FAFN35: Medical Optics, 7.5 ECTS

#### Research environment:
- LUND University
- LUND Laser Centre
- LUND University
- NANO LUND
- MAX IV

#### 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
- Bio-photonics (to be announced), 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
- ETEN01: 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

### Year 2

<table>
<thead>
<tr>
<th>Period 1</th>
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<th>Period 3</th>
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</thead>
<tbody>
<tr>
<td>Elective (7.5 ECTS)</td>
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<td>Elective (7.5 ECTS)</td>
<td>Elective (7.5 ECTS)</td>
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<tr>
<td>Master thesis 30 ECTS (half-year, full-time)</td>
<td>Elective (7.5 ECTS)</td>
<td>Elective (7.5 ECTS)</td>
<td>Elective (7.5 ECTS)</td>
</tr>
</tbody>
</table>

**Alternative 1:**

- Elective (7.5 ECTS)
- Elective (7.5 ECTS)
- Master thesis 30 ECTS (half-year, full-time)

**Alternative 2:**

- Elective (7.5 ECTS)
- Elective (7.5 ECTS)
- Master thesis 30 ECTS (full-year, half-time)

- Elective (7.5 ECTS)
- Elective (7.5 ECTS)
- Elective (7.5 ECTS)
- Elective (7.5 ECTS)