| **Semester**<br>**ECTS** | **1**<br>**30 ECTS** | **2**<br>**30 ECTS** | **3**<br>**30 ECTS** | **4**<br>**30 ECTS** |
|---|---|---|---|---|
| Adjustment<br>(16 ECTS) | 2 out of:<br>**Advanced Quantum Theory**<br>(8 ECTS)<br>**General Relativity**<br>(8 ECTS)<br>**Introduction to Quantum Physics**<br>(8 ECTS)<br>**Physical Chemistry**<br>(8 ECTS)<br>**Fundamentals of Modern Optics**<br>(8 ECTS) | | | |
| Essentials<br>(16 ECTS) | **Fundamentals of Quantum Information**<br>(8 ECTS) | **Advanced Quantum Information**<br>(8 ECTS) | | |
| Specialization<br>(24 ECTS) | | **Elective Modules** (12 ECTS), e.g.:<br>Quantum Optics, Quantum Computing, Integrated Quantum Systems, Quantum Field Theory, Computational Quantum Physics, … | **Elective Modules** (12 ECTS), e.g.:<br>Advanced Quantum Optics, Quantum Communication, Quantum Imaging, Quantum Vacuum in Strong Fields, … | |
| Practical Research training<br>(34 ECTS) | **Quantum Laboratory**<br>(6 ECTS in semester break - NEW) | **Internship** (10 ECTS) | **Research Proje**ct (18 ECTS) | |
| Master thesis<br>(30 ECTS) | | | | **Master Thesis**<br>(30 ECTS) |