

Semester	Modules in the M.Sc. Physics program			
1	Elective Studies in Physics	Physical Specialization I	Physical Specialization II	Interdisciplinary Studies
2	6 – 18 CP (M)	14 – 18 CP (EM)	14 – 18 CP (EM)	12–15 (24) CP (EM)
3	Professional Specialization and Project Design 30 CP (M)			
4	Master's Project 30 CP (M)			

M: mandatory module

EM: elective mandatory module

CP: credit points

### Contents of the Modules

- **Physical Specialization I and II**

During the first year of study the students develop a personal competence profile. To this end, they select two areas of research of the department, in which they will acquire an in-depth knowledge. Possible choices are among the modules *Nano and Quantum Technologies*, *Nuclear and Particle Physics*, *Materials Physics*, *Nonlinear Physics*, *Photonics and Magnonics* and *Physics of Solid State Nanosystems*.

- **Interdisciplinary Studies**

The specialization in various branches of physics is supplemented by a module on interdisciplinary studies. This can either be a physics-related module such as, e.g., *Geophysics* or *Molecular Biophysics*, or a module from a different subject such as *mathematics*, *computer science*, *economics*, *business administration*, *philosophy* or *psychology*. Students whose mother tongue is not German can choose the module *German as a Foreign Language*.

- **Elective Studies in Physics**

For the module *Elective Studies in Physics* individual courses offered by the department of physics can be combined according to the student's personal interest.

- **Professional Specialization and Project Design and Master's Thesis**

The crucial element in the professional training of a prospective physicist is the extensive research phase in the second year of study. It promotes independent scientific work. In this phase the scientific research is inseparably linked with the acquisition of key skills such as project management, team work and the presentation of scientific results.