



MSc in Physics, General Track

List of compulsory courses according to the student's research field

General and Interdisciplinary physics	Theoretical condensed matter physics	Astrophysics	High energy physics	Experimental condensed matter physics	Atomic, molecular, and optical	Biological and Soft Matter
Advanced Quantum Mechanics 1 (4121)	Advanced Quantum Mechanics 1 (4121)	Advanced Quantum Mechanics 1 (4121)	Advanced Quantum Mechanics 1 (4121)	Advanced Quantum Mechanics 1 (4121)	Advanced Quantum Mechanics 1 (4121)	Advanced Quantum Mechanics 1 (4121)
Advanced Statistical mechanics (4171)	Advanced Statistical mechanics (4171)	Advanced Statistical mechanics (4171)	Advanced Statistical mechanics (4171)	Advanced Statistical mechanics (4171)	Advanced Statistical mechanics (4171)	Advanced Statistical mechanics (4171)
(*)	Solid state Physics 2 (5251)	Matter and radiation in the Universe (4701)	Advanced Quantum Mechanics 2 (4131)	Experimental methods of quantum materials (4611)	Lasers, non-linear and ultrafast optics (4331)	Lasers, non-linear and ultrafast optics (4331)
(*)	Many body physics 1 (4201)	Dynamical universe (4711)	Particles 1 (4161)	Solid state Physics 2 (5251)	Quantum optics (4321)	Soft Matter Physics (5121)
(*)	Selected topics in solid state (4151) Or Selected Topics in Quantum and Statistical Mechanics (5131)	Plasma physics (4281)	Quantum field theory 1 (4441)	Electronics and Quantum Physics (1-2631)	Experimental Methods for Quantum Technology (5271)	Physics on the back of the envelope (5291)
(*)	Quantum materials (5411)	Physics on the back of the envelope (5291)	Gravitation 2 (4191)	(*)	(*)	Physics of the living cell (5351)
(*)	(*)	(*)	(*)	(*)	(*)	(*)
(*)	(*)	(*)	(*)	(*)	(*)	(*)

Seminars

	Condensed Matter	Astrophysics and Cosmology	Elementary Particles	Condensed Matter	Quantum Optics	Biological and soft-matter physics
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- The corresponding research field should be clearly marked.
- (*) means that the adviser has to choose (if two courses are listed in the cell) or write down (if the cell is empty) the course which should be studied.
- First two courses should be taken during the first year of the studies.
- One elective course should be taken in addition to the list. The elective course should be not in the research field of the student.
- Three seminars should be taken during 4 semesters.
- Summarizing seminar should be given by the student in the 4th semester.

Date: _____

Student's name: _____

Signature: _____

Adviser's name: _____

Signature: _____

Teaching committee approval: _____