Master’s Degree in Physics: Condensed Matter Physics

Scientific coordinator
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Department
Mathematics, Computer Science, Physics
and Earth Science

Duration
2 years

Programme overview
This degree course consolidates knowledge in physics and related areas. Students develop flexible but rigorous mental skills that enable them to work in activities requiring a thorough knowledge of the main physical theories. They will also acquire the ability to learn innovative methodologies and technologies and apply them to interdisciplinary fields. This degree programme provides a background in experimental and theoretical physics across all the specialised areas of the different curricula.

The aim of the Master’s degree in Physics is to prepare tomorrow’s professionals in the field of physics with consolidated knowledge areas. The graduates will have the skills to address basic and applied scientific research, and the knowledge to design and develop new strategies appropriate to different issues.

The Master’s degree programme in Physics offers three curricula:
1. Condensed Matter Physics
2. Nuclear Physics (taught in Italian)
3. Applied Physics (taught in Italian)

Minimal entry requirements
Students should have a Bachelor’s degree or equivalent three-year degree in Physics.

Language requirements
International English language certificate issued by an Institution recognized by the Italian Ministry of University and Research (MUR), B2 level of the Common European Framework of Reference.
Study programme

**YEAR 1**
- Advanced quantum physics
- Data analysis
- Solid state physics
- Further language skills
- Statistical physics
- Quantum Optics and Technologies
- Nanophysics and nanotechnology

**YEAR 2**
- Material physics laboratory
- Micro-optic electronic devices
- Computational physics
- Spintronics or Advanced chemistry or Applied mathematics
- Master thesis and final exam

**International opportunities**
UniME students have the opportunity to participate in the Erasmus+ Mobility programme both for study and training. Calls are published on the site twice per year. Another opportunity for students is the UniME Funded programme “Students Around the World” (SAW) call for scholarships for study at the extra-European universities in the context of international cooperation agreements. For further information please visit our site.

**Tuition fees**
A fixed fee (€ 156.00) and a remaining amount of tuition calculated on the basis of a sliding scale.