Master’s Degree in Physics: Condensed Matter Physics

Scientific coordinator
Prof. Rosalba Saija
rosalba.saija@unime.it
didattica.mift@unime.it

Department
Mathematical and Computer Science, Physical Sciences 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
3. Applied Physics

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

Language requirements
B1 in the European Common Framework of Reference for Languages is required. Candidates who have earned a degree taught in English or come from countries whose official language is English do not need a certificate of English language competence.
Study programme

YEAR 1
Advanced quantum physics
Data analysis
Solid state physics
Further language skills
Statistical physics
Liquid state physics
Nanophysics and nanotechnology
Applied mathematics

YEAR 2
Material physics laboratory
Micro-optic electronic devices
Computational physics
Spintronics or Advanced chemistry
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
€750/year