info
Per saperne di più

Tutte le informazioni necessarie sulle attività didattiche saranno reperibili su unical.it/fisica

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Le aspiranti matricole possono incontrare i referenti della didattica e dell’orien-
tamento del Dipartimento di FISICA negli orari di ricevimento presenti sul sito del dipartimento, presso il Cubo 31/C (piano ponte Carrabile) dell’UNICAL.

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Master Degree Course in Physics

Context
The Master’s Degree in Physics aims at completing the general basic training acquired in the Bachelor’s Degree and at offering an advanced specific training in core areas of frontier Physics. More specifically, it strongly supports a multidisciplinary approach, which is reflected in several curricula.

Learning objectives and outcomes
Graduates in Physics will be able to:
– describe quantitatively phenomena of the physical world and build theoretical interpretative models;
– use and develop advanced laboratory equipment;
– master programming languages for physical applications and big data analysis;
and to
– use self-learning tools for rapid and continuous updating;
– work in a team, while possessing a high-level of autonomy, and smoothly join a workplace;
– present oral and written dissertations in a proficient English.

Main topics
The educational offer consists of a common training area encompassing Computer Science, Mathematics, Chemistry, Physics and five specific areas covering:
– theoretical study and data analysis from Earth and Space, numerical simulation of astrophysical systems and Sun-Earth relations, plasma physics;
– theoretical, experimental and applicative study of matter physics, with particular reference to solid state physics, surface physics, biophysics and biomedicine;
– physics and technology of materials, with particular reference to soft matter, liquid crystals, optics and photonics, and the related characterization techniques;
– theoretical and experimental study of the physics of fundamental interactions, including the physics of elementary particles and the theory of quantum fields;
– physics of the atmosphere and meteo-climatic system, in accordance with the Organization World Meteorology.

Employability and careers
Graduates will be able to face PhD and post-graduate specialization schools or to enter the professional world. Career opportunities include research in Physics and Applied Physics in public and private institutions; technological applications in industries (optics, mechanics, electronics, etc.); radiation protection in healthcare companies and analysis laboratories; software development, data analysis and modeling of complex systems in banks, insurance and consulting companies.

Keywords
– Astrophysics, geophysics and plasma physics
– Matter physics
– Physics and technology of materials
– Nuclear and subnuclear physics
– Physics of the atmosphere, meteorology and climatology

Duration: 2 years
Start date: October 1, 2021.
Total amount of hours (number of ECTS credits): 3000 hours (120 ECTS credits)
Admission requirements:
- Bachelor Degree in Physics
- other degrees with at least 50 ECTS in Physics and 24 ECTS in Mathematics
- English language at the level B2