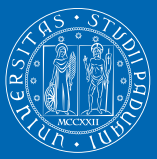
INSPIRING GLOBAL CHANGE SINCE 1222

SCHOOL OF SCIENCE

MATERIALS SCIENCE

The Master's degree aims at training high-skilled professionals in the research and development of innovative functional materials. The programme is strongly interdisciplinary (chemistry, physics, mathematics, engineering, geology) and versatile, offering both strong theoretical courses and applied research-oriented teaching. Students will be able to design, produce and characterise new materials and to exploit the acquired knowledge to develop devices for specific applications. The fields of application include renewable energy, sustainable materials and processes, environmental-friendly technologies.



UNIVERSITÀ
DEGLI STUDI
DI PADOVA

MATERIALS SCIENCE

LEVEL Master
SCHOOL Science
DEPARTMENT Chemical Sciences
DURATION 2 years (120 ECTS)
START DATE October
LOCATION Padua, Italy

PROGRAMME COORDINATOR
Antonella Glisenti

WEB
www.unipd.it/en/materials-science

APPLY.UNIPD.IT

TOP 250 2023
Materials Sciences
QS WORLD UNIVERSITY RANKINGS
BY SUBJECT

ENTRY REQUIREMENTS

- Bachelor's degree (or equivalent) in Material Sciences, Chemistry, Industrial Chemistry, Physics or related fields with proven skills in Chemistry, Physics, Mathematics
- English language: B2 level (CEFR) or equivalent

PROGRAMME STRUCTURE

1st Year: Physical Chemistry and Methodologies; Organic and Inorganic Functional Materials; Physics and Technology of Semiconductors; Fundamentals of Nanoscience; Laboratory of Advanced Materials; Surface Structure and Dynamics; Materials Technology.
2nd Year: Sustainable Energy: Materials and Technologies; Electrochemistry of Materials; Nanofabrication; Superconducting Materials; Optic and Lasers; Crystals Chemistry; Computational Chemistry; Entrepreneurship and Strategies for Growth; Physics of Disordered Materials.
A double degree with the University of Giessen (Germany) is also possible.

TUITION FEES AND SCHOLARSHIPS

Annual fees: up to € 2,700 (3 instalments)
Scholarships and fee-waivers for international students available: www.unipd.it/en/funding-and-fees

CAREER OPPORTUNITIES

Graduates can work both in industries and research institution (public and private) in R&D, in the exploitation and optimisation of industrial processes and methods, and in high technological companies as experts and consultants for advanced instruments and materials. Graduates can gain managing positions in private companies thanks to the high level of knowledge and versatility.