Université Gustave Eiffel

Field of study Sciences and engineering

Training available in

Initial training | Continuing education

Recognition of prior learning

How to apply :
https://www.univ-gustave-eiffel.fr/en/formation/applications-and-enrolment/applications

Course venue :
Campus Marne la Vallée - Champs sur Marne - Bâtiment Lavoisier 5 Boulevard Descartes 77420 Champs-sur-Marne

Calendar :
Second semester

Contacts :
HOCHLAF Majdi
Academic coordinator (M2)

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Academic secretary
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More information :
For further details :
https://www.univ-gustave-eiffel.fr/international/etudiants-internationaux
Service Information,
Orientation et Insertion Professionnelle (SIO-IP) :

sio@univ-eiffel.fr / Tel : +33 1 60 95 76 76

Université Gustave Eiffel | ifsa INSTITUT FRANCILIEN DES SCIENCES APPLIQUÉES

Master's degree Chemistry Molecular Physical Chemistry and Applications

DIPLÔME CONFÉRANT GRADE DE MASTER CONTRÔLÉ PAR L'ÉTAT

Institut Francilien des Sciences Appliquées (IFSA)

Master's degree M2

TO GET THERE

Master's in Chemistry or Chemistry and Biology; chemical engineering school

ACQUIRED SKILLS

- Unique training in the sciences of matter, physics, chemistry, physical chemistry, the environment and sciences of the universe.

- Mastery of advanced techniques in spectroscopy and physical chemistry methods of analysis for characterising matter.

- Mastery of simulation and modelling methods for gas-phase, inter-phase and solid-state compounds for applications in catalysis, atmospheric and universe chemistry, pollution.

- Highlighting the relationship between structure, function and applications through the modelling and characterising of molecular compounds and their reactivity.

YOUR FUTURE CAREER

This course offers a research-based programme for students who intend to study for a PhD and a professional programme for students who wish to enter the professional world at the end of M2.

This Master's in Chemistry opens doors to careers as engineers, middle managers or researchers in the fields of physical-chemical methods and characterisation and the modelling of molecular systems in isolation or in a given environment. Students also acquire skills in environmental science and sciences of the universe and the atmosphere.

BENEFITS OF THE PROGRAM

The Molecular Physical Chemistry and Applications programme offers unique training in Paris and in France in general. Its specificity lies in the development and application of advanced characterisation methods in spectroscopy and modelling and their applications in atmospheric chemistry, astrophysics, catalysis, synthesis and diagnostics. The complementarity of the course content and students' dual skill set are an advantage. This duality is highly sought-after and appreciated.

More information

PROGRAM

SEMESTER 3

Spectroscopies et méthodes de caractérisation (ECTS:6)
Modélisation multi échelle (ECTS:6)
Réactivité et cinétique chimique (ECTS:3)
Physico-chimie des milieux dilués naturels (ECTS:3)
Méthodes avancés en chimie analytique (ECTS:3)
Physico-chimie expérimentale avancée (ECTS:3)
Etude de cas (ECTS:3)
Communication (ECTS:3)

SEMESTER 4

Stage (ECTS:24)
Label National de Chimie Théorique Option A (ECTS:6)
Traitement des déchets et réglementations Option B (ECTS:6)