Université Gustave Eiffel

Field of study Sciences and engineering

Training available in

| Initial training | 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 Copernic 5 Boulevard Descartes 77420 Champs-sur-Marne

Calendar :
Foundation classes for one month, then ten weeks of core modules, then eight weeks of specialisation, and finally three to six weeks of work placement, starting from April.

Contacts :
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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

Master's degree Mathematics and applications
Mathematics and computer science

DIPLÔME CONFÉRANT GRADE DE MASTER CONTRÔLÉ PAR L'ÉTAT

UFR de Mathématiques (MATHS)

| Master's degree M2 |

TO GET THERE

M1 in Mathematics or Computer Science, plus L2-level skills in the other discipline.

ACQUIRED SKILLS

Master's level in areas at the interface of mathematics and computer science: optimisation, analysis, geometry, combinatorics and machine learning.
Development of research skills: autonomy, personal work on specialised themes, literature review.
Advanced programming skills oriented towards applications in mathematics and computer science.

YOUR FUTURE CAREER

Students can pursue further studies with a PhD in mathematics or computer science.

Jobs in R&D in areas at the interface of the two disciplines, typically optimisation and machine learning.
Classes in machine learning, in particular, promote the development of professional skills that are highly sought after in the private sector, to make graduates immediately operational.

BENEFITS OF THE PROGRAM

This Master's is unique in France, covering both mathematics and computer science, with requirements in both disciplines. It is based on the teaching team's joint extensive experience, developed in the prestigious Bézout Labex.

More information

PROGRAM

SEMESTER 3

Socle mathématique (ECTS:6)
Socle informatique (ECTS:6)
Optimisation discrète et continue (ECTS:6)
UE OPTIONNELLES 3 UE A 6 ECTS A VALIDER
Optimisation discrète et continue (ECTS:6)
- Optimisation discrète
- Optimisation continue

Géométrie et Combinatoire (ECTS:6)
- Géométrie
- Combinatoire

Science des Données (ECTS:6)
- Fondements mathématiques des sciences des données
- Fondements informatiques des sciences des données

UE libre (ECTS:6)

SEMESTER 4

Stage (ECTS:18)
UE OPTIONNELLES 2 UE A 6 ECTS A VALIDER
Sciences de données avancées (ECTS:6)
Géométrie avancée (ECTS:6)
Combinatoire algébrique et calcul formel (ECTS:6)