Université Gustave Eiffel

Field of study Sciences and engineering

Training available in

Initial training

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 :
The 1st year of the Master's covers two semesters and on two separate sites: Université Gustave Eiffel and UPEC. The 2nd year of the Master's covers two semesters. It is run jointly by Université Gustave Eiffel and UPEC, and all courses are held at Université Gustave Eiffel. The supervised research project (1st year) and the work placement (2nd year) take place in the second semester.

Contacts :
MERLEVEDE Florence (M1)
Academic coordinator

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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 — UFR MATHÉMATIQUES

Master's degree Mathematics and applications
Mathematics and applications

DIPLÔME CONFÉRANT GRADE DE MASTER CONTRÔLÉ PAR L'ÉTAT

UFR de Mathématiques (MATHS)

Master's degree M1

TO GET THERE

M1 is for students who have a degree in Mathematics.

M2 is for students who have successfully completed a first year of a Master's in Pure or Applied Mathematics or in Mathematics-Computer Science or who can prove they have an equivalent level, as well as Grande Ecole students.

Applications are examined by a committee.

ACQUIRED SKILLS

On completion of the Master's programme, graduates will be able to:

- Master mathematical tools, whether differential, probabilistic, statistical or numerical, and adapt to their development and increasing complexity.

- Design and apply theoretical knowledge to respond in the most appropriate way to real and concrete problems in their area of expertise.

- Model random events.

- Recommend balanced solutions.

- Search for and use documentary resources optimally in order to explore new subjects or be able to innovate in subjects arising from everyday problems.

YOUR FUTURE CAREER

The "Mathematics and Applications" Master's degree trains high-level mathematicians who wish to go into teaching or research in academia or industry, or for careers in data science and processing, which is growing with the widespread use of databases.

BENEFITS OF THE PROGRAM

Supported by very high level research laboratories (LAMA, CERMICS, LIGM) and the Bézout Labex. Attractiveness, clarity and career opportunities for the four programmes in partnership with ENPC. Regional coherence (Paris East) of the training. Work-study programme and sessions with professional partners.

More information

PROGRAM

SEMESTER 1

Algebra (ECTS:9)
Functional analysis (ECTS:9)
Advanced probability (ECTS:6)
Statistical inference (ECTS:6)
Numerical analysis of differential equations (ECTS:6)

SEMESTER 2

Distributions and PDE (ECTS:9)
English (ECTS:3)
Studies and research work. (ECTS:6)
Differential geometry (ECTS:6)
Stochastic calculus for finance (ECTS:6)
Machine Learning (ECTS:6)
Mathématiques discrètes et algorithmes Option D (ECTS:6)