

Field of study **Sciences and engineering**

Training available in

Initial training

Continuing education

### 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 :

Term starts: October. Work placement: from March. Work  
placement defence: September.

### Contacts :

Hung Quang LE (M1)  
Academic coordinator

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Academic secretary  
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Phone number : 01 60 95 77 68  
Building : Lavoisier  
Office : 106

### 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](mailto:sio@univ-eiffel.fr) / Tel : +33 1 60 95 76 76



Institut Francilien des Sciences Appliquées (IFSA)

Master's degree M1

### TO GET THERE

First year: students admitted to M1 either come from the "Mechanics" programme of the Physics and Chemistry Licence degree or are accepted on the basis of application.

Second year: M1 or equivalent (60 ECTS credits) in a related field (mechanics, civil engineering, etc.).

### ACQUIRED SKILLS

This programme prepares students to take on technical and functional responsibilities through a global approach to the specificities of the construction, maintenance and operation of civil engineering structures.

Students also learn to master tools for the design, calculation, manufacture, construction and maintenance of structures. The course also covers strategies and techniques for managing all the implementation processes, including the specific legal aspects of each site.

### YOUR FUTURE CAREER

Sectors: Graduates work in large industrial civil engineering groups, specialist design offices, technical inspection companies and site-management firms. Some pursue further study through a specialised Master's (CHEBAP, CHEM, etc.).

Careers: business manager, technical inspector works engineer, design engineer, site manager, structural design engineer, project execution engineer, methods engineer.

### BENEFITS OF THE PROGRAM

Many civil engineering professionals are involved in the course: - speakers are mainly temporary staff from the professional world, - seminars are organised each year with professionals from leading civil engineering groups (Artelia, Paris Ouest, GTM) to give students initial contact with the industrial world and help them find a work placement, - the work placement is carried out in a company.

# PROGRAM

## SEMESTER 1

**Mécanique des milieux continus et calcul tensoriel (ECTS:5)**  
**Ondes et vibrations (ECTS:6)**  
**Méthodes mathématiques pour la mécanique (ECTS:4)**  
**Comportement des matériaux (ECTS:6)**  
**Mécaniques des composites (ECTS:3)**  
**Elasticité des poutres et plaques, instabilités (ECTS:6)**

## SEMESTER 2

**Stage (ECTS:7)**  
**Anglais (ECTS:3)**  
**Maintenance et réhabilitations des ouvrages (ECTS:3)**  
**Mécanique des fluides (ECTS:4)**  
**Méthodes numériques et éléments finis (ECTS:4)**  
**Phénomènes de transport/acoustique en milieux poreux (ECTS:3)**  
**Conception et calcul d'ouvrages (ECTS:6)**