



UNIVERSITÉ  
PARIS-EST  
MARNE-LA-VALLÉE

Institut Francilien de Sciences Appliquées (IFSA)

# BACHELOR ENGINEERING SCIENCES

## Génie industriel

BACHELOR L2-L3

FIELD Sciences, technologies, santé

Course suitable for

Initial Education

Continuing Education

Recognition of prior learning

Apprenticeship

• How to apply :

Parcoursup - eCandidat- Campus France -Candidatures libres

• Course venue :

Bâtiment Lavoisier - Champs sur Marne

• Calendar :

De début mai à fin aout en stage - De début septembere à fin aout en stage en alternance.

For further details :

Information, Career guidance and Professional integration

Department

(SIO-IP) : [sio@u-pem.fr](mailto:sio@u-pem.fr) / +33 1 60 95 76 76



### ENTRY REQUIREMENTS

In L1: varied recruitment of baccalaureates (foreign bins, by Campus France, multiple French bins). We are working on the integration of STI2D bachelors. In L3: internal recruitment (L2 UPEM), external recruitment (Campus France, IUT, other French universities). The integration of third-year DUT graduates is satisfactory.

BAC S- BAC STI2D- BACPRO -BTS CPI- BTS ATI - BTS IPN- BTS MAI-DUT GMP -DUT QLIO - DUT MP - Bachelor's degree in Science and Technology

### ACQUIRED SKILLS

Analysis of a technical problem: clear presentation of the analysis of a problem, and the paths chosen to solve it.

Mastery of mathematical and physics tools corresponding to the SPI discipline field (adapted to each of the three paths).

Working from specifications, retrieving information from technical documents, manipulating units and orders of magnitude, using various digital media Use and selection of a suitable software tool: many Practices for the mastery of simulation software - teamwork (binomials/ trinômes en travaux pratiques, projets transversaux, avec soutenances orales, culture professionnelle)

Techniques of expression, oral communication

Calendar management of a project, independent work, different evaluation methods

Practical English (bachelor level groups, passing from TOEIC to Master, practicing company-oriented English).

Business Internship (FI) or Alternating (AF)

### YOUR FUTURE CAREER

2% of graduates of the SPI degree directly earn the world of work. The other graduates continue in training in the area of SPI (masters, engineering schools), and then work in companies, many of which correspond to the specialities of the different L3 courses.

In particular, the course GI allows further study in the UPEM Master Industriel Engineering (GI ) of the UPEM.

### BENEFITS OF THE PROGRAM

Arrangements for organising support for UPEM paths

- a pedagogical secretariat per course and an administrative officer.

- Student Workshops by the BAIP (Bureau d'aide à l'Insertion Professionnelle) for the writing of letters of motivation and CV, for assistance in the search for placements and preparation for interviews.

- workshops with the library service for documentary retrieval on different media (paper, computer,...) and place (library, digital campus, internet, external library,...). These workshops are conducted as a complement to the communication EUs provided in L3. In L1: 2 professional speakers. In L2: 13 professional workers. In L3: 29 professional workers spread over the routes.

# STUDY PROGRAM

## Semestre 3

Mathématiques pour les SPI  
Mécaniques des fluides  
Mécaniques des solides  
Thermodynamique  
Communication  
Economie d'entreprise  
Gestion de production  
Anglais

## Semestre 4

Statistiques pour les SPI  
Dessin Technique  
Résistance des matériaux  
Informatique  
Ingénierie et enjeux environnementaux  
Propriétés des matériaux et structures  
Production Industrielle 1  
Conception des systèmes 1

## SEMESTRE 5

UE Science pour l'Ingénieur 1 Outils mathématiques 1 - Mécanique des solides rigides et déformables - Qualité Sécurité Environnement - Développement Durable - Organisation des entreprises -  
UE Anglais  
UE Approche énergétique en GI Electrotechnique industrielle -  
Transmissions hydrauliques -  
UE Conception des systèmes 2  
UE Matériaux - Procédés

## SEMESTRE 6

UE Science pour l'Ingénieur 2 Outils mathématiques 2 - Mécanique des milieux continus - Approche énergétique -  
UE Stage  
UE Technique de communication  
UE Automatismes et Système de régulation  
UE Production des systèmes industriels 2  
UE Spécification et contrôle des pièces  
UE Outils informatiques pour le Génie Industriel