



Institut Francilien de Sciences Appliquées (IFSA)

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 :

Batimen Lavoisier - Noisy-Champs

• Calendar :

De début mai à fin aout en stage - De début septembre à fin aout en stage en alternance

• Contacts :

- Coordinator of the degree program : TASSEL Stephane
- Academic coordinator : TROUETTE Benoit (L2)
- Academic coordinator : KRZYZYK Daniel (L3)
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For further details :

Information, Career guidance and Professional integration Department

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BACHELOR ENGINEERING SCIENCES



Ingénierie des organisations

BACHELOR L2-L3

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 EEF- BTS MAI-DUT GMP -DUT QLIO - DUT GTE - 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 (large groups or SMEs), many of which correspond to the specialities of the three L3 courses.

In particular, the IO course allows further studies in the Master MQSE Management Quality, security, environment 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

Semester 3

Mathematics for SPI
Fluid mechanics
Solid mechanics
Thermodynamics
Communication
Business economics
Production management
English

Semester 4

Statistics for SPI
Technical drawing
Strength of materials
Computer science
Engineering and environmental challenges
Properties of materials and structures
Systems conception 1
Quality Safety Environment in business

SEMESTER 5

TU Science for engineers 1 Applied scientific culture 1 - QSE-SD concepts - Business organization - Mathematics tools -
TU English
TU Communication 1 Expression - communication - IT - desktop tools -
Optional
TU Quality Safety Environment - Sustainable Develop (QESD) Production management, analysis of industrial prod. systems - Industrial process description - QSE-SD management 1 - Quality tools 1 -
TU Industrial Project Management Assistant (IPMA) Study and design of electrical engineering systems - Study and dimensioning of mechanical systems - CAD bases -
TU Energy Efficiency for Indoor Climate Engineering (2EICE) Thermal regulations - Air-conditioning and heat recuperators - High-performance heat production - Fluid distribution and optimization -

SEMESTER 6

TU Science for engineers 2 Applied scientific culture 2 - Collaborative engineering - Digital data analysis -
TU placement
TU Communication 2 Business economics - Communication techniques -
TU Supervised Professional Project
Optional
TU Quality Safety Environment - Sustainable Develop (QESD) Digital tools for Quality - SPC - QSE-SD management 2 - Quality tools 2 -
TU Industrial Project Management Assistant (IPMA) Marketing / Law - CAD and simulation tools -
TU Automation and control systems (IPMA)
TU Energy Efficiency for Indoor Climate Engineering (2EICE) Energy management and control - Optimized Refrigerating systems - Building water management - Building energy audit -