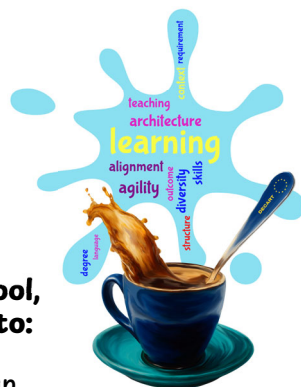




Agility,
Resilience and
Transformation
in Curriculum Design



The DECART curriculum canvas, as a tool, permits higher education stakeholders to:

- share & confront ideas in curriculum design in a synthetic manner abstracting details
- increase the quality & relevance of curriculum design activities
- foster collaboration & enhance capacity to operate jointly between programs
- boost interoperation of curriculums

With this curriculum canvas, you can:

- shape the broadlines of a new curriculum to design
- describe an existing or under development curriculum
- stimulate changes with cards & discuss component links
- confront a curriculum to an operational context
- pressure a curriculum with disruption & crisis cards

Once a curriculum designed in the canvas, curriculum resilience analysis & transformation are available via other DECART tools.

More infos:

www.decartproject.eu decart-contact@imt-atlantique.fr [#decartproject](https://twitter.com/decartproject)



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IMT Atlantique, France



FISE:
Formation Ingénieur
Statut Etudiant

1.4, July 2025

More Details
[PDF brochure link]

Master of Science in Engineering
French "Diplôme d'Ingénieur"
[Web link]

General Description

- 3-year curriculum on digital, energy & environmental sectors, maintaining a focus on the humanities & social sciences.
 - Stance on society's major industrial, digital & environmental transformations
 - Multipath curriculum,
- Min. 9 months of internships, in France or abroad:
 - spread over the 3-year curriculum to map out a solid professional project & develop professional competencies
- An IMT Atlantique engineer expected to:
 - have top-level understanding of complex, highly interconnected systems,
 - understand & master the major challenges of a future company, as executives,
 - network in an intercultural environment,
 - focus on agility, to create a diverse & inspiring career path.
- Fees:
 - 3,200€ (Y1), 2,900€ (Y2) & 2,650€ (Y3), nonEU: 4,850€
- French CTI & EUR-ACE accredited, annually CTI certified data: [\[Web link\]](#)

Operational Context

- Technological University under authority of French Ministry of Industry & Digital Technologies
- Rankings:
 - In top 400 universities THE World 2025
 - 7th out of the 57 THE French schools ranked
 - 69th worldwide in THE Impact
 - In French top 10 of *Gr&es Ecoles*
 - 3rd of *l'Etudiant Eng. Schools*
- Approx. 2300 students:
 - incl. approx. 40% international students, originating from >70 countries,
 - stability of student numbers.
- Accommodation/Housing Service on campus: 80% of students on-campus
- Teaching & research staff:
 - 260 faculty, incl. 115 with habilitation to direct research
- 91% of graduates in work:
 - within 2 months of graduation (incl. 77% before the end of their studies),
 - average salary €43,867 (2024).



Learning Outcomes



Aligned with French accreditation CTI
Program Outcomes & RNCP38322
[Web link]

- **Core BC01** - Manage a project, system or organization in the fields of digital expertise & transformation, energy & the environment.
- **Core BC02** - Actively contribute to a team responsible for a project, mission or organization.
- **Core BC03** - Develop a diagnosis in the fields of digital expertise & transformation, energy & the environment.
- **Core BC04** - Design a solution to a problem following diagnosis in the fields of digital expertise & transformation, energy & the environment
- Specialization - Produce, implement & maintain a system or organization in the field of
 - **BC05** - Energy, nuclear & environmental engineering
 - **BC06** - telecommunications, embedded systems, robotics & automation
 - **BC07** - IT & networks
 - **BC08** - industrial systems & organizations
 - **BC09** - health engineering

Teaching & Learning



- **Internship:** 26%
 - min. of 9 months' internships, spread over the 3 years
- **Labs:** 18%
- **Practicals:** 16%
- **PjBL:** 15%
- **Lectures:** 10%
- **Flipped classroom:** 5%
- **Foreign languages:** 6%
- **Breadth intersemesters:** 4%
- **Sport:** (ECTS credited)
- Associative activities.

Assessments

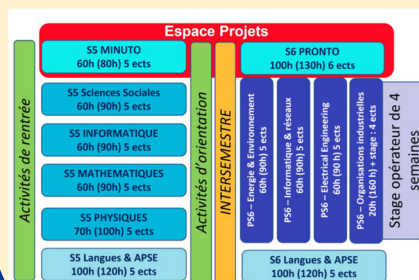


- European 2+3 LMD model: 30 ECTS per semester (L3 at 60 ECTS, M1&M2. at 120 ECTS)
- Competency-based with proficiency levels (no 0-100 marks), aligned with French RNCP engineer title
- Each Core BC to validate, at least one block from BC05-BC09
- B2 (CEFR)
- Written exams, Orals, Reports, simulated & real situations (e.g. Internship assessments on competencies).

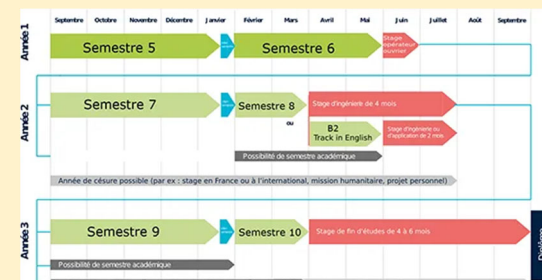
Structure



- **Multipath curriculum style:**
 - **Year 1 (L3):** either the Brest or Nantes campus:
 - common core syllabus in S5 & S6, Pronto & CoDev projects, inter-semester course, 1st experience in a company "Stage ouvrier"
 - **Year 2 (M1):** open up a wide range of opportunities on 3 campuses & abroad
 - TAF-based majors S7 & S8, completed by 2 specialisation subjects, CmdEntreprise project & inter-semester activities
 - B2 English track
 - 2nd experience in a company "Stage ingénieur"
 - 1 intl academic semester, optional 1-year break for professional development
 - **Year 3 (M2, S9 & S10):**
 - ProcCom project
 - Majors (TAFs = *thématiques d'approfondissement*): (1) Energy, nuclear & environmental engineering, (2) CS & networks, (3) Industrial engineering & organizations, (4) Electrical engineering/robotics, electronics, automation, telecommunication & embedded systems, & (5) Healthcare engineering
 - long internship



Year 1 Common core (PCF)



Year's 1, 2 & 3 workflow

Transversal Skills



- Exhibit openness, autonomy, & flexibility, adapt to new ideas & changing environments,
- Apply a wide range of scientific & technical skills across a broad scope of disciplines,
- Develop & utilize interpersonal & cross-disciplinary skills to collaborate effectively,
- Work effectively in an intercultural environment, respecting & valuing diversity,
- Analyze & contribute to environmental & societal transformation (TES: *Transition Écologique et Sociétale*),
- Assess & articulate the significant contribution of research to the challenges of TES,
- Engage in research & innovation to address complex problems & advance knowledge.

Entry Requirements



- Tests in Sciences & French:
 - Maths & physics
 - electronics-electricity-automation
 - IT
 - engineering sciences
 - mechanics, civil engineering
- Admission capacity:
 - 305 after the French *Concours commun Mines-Ponts* competitive entrance exam or the French *GEI-Univ.*,
 - 90 for Intl. students with MSC.,
 - 60 for French & foreign students who hold a BSc. or MSC.

Diversity & inclusion



- ODD 10: >29% of intl. students
- 100% of students with food & accommodation financial aid
- ODD5: 23,2% female students
 - Women in STEM, CPED member
 - Leadership & salary negotiation for women
 - *mission Egalité Femmes*
 - Women 100 Professions programme
 - online module to raise awareness of sexual & gender-based violence
- *Bienvenue en France* label_level3.

Languages



- Courses in French & some in English
- For graduation:
 - English (level C1),
 - + one B2 language
- Up to 4 languages: Arabic, Chinese, French, German, Italian, Japanese, Portuguese, Russian, Spanish
- Interculturality courses & experiences.

Locations



3 campuses in Bretagne-Loire (France):
Nantes, Brest & Rennes

- Dual degrees & exchanges:
 - Intl experience as an academic semester at one of the partner universities, or a year abroad for a double degree, or an internship
 - network of >200 academic partners worldwide
 - 51 dual degree agreement.