

Study program



Engineering School



2025/2026



Icam - Strasbourg-Europe Campus





The Engineering Program offered at Icam - Strasbourg-Europe Campus is a five-year program composed of two main cycles:

- Preparatory Cycle : Year 1 and 2
- Engineering Cycle : Year 3, 4 and 5

The Preparatory Cycle follows the French national educational program with subjects like Physics, Chemistry and Engineering Sciences. The second-year students follow either one or two semesters abroad. This program unifies technical competences with language skills creating internationally oriented engineers.

The Engineering Cycle is oriented to Mechanical and Electrical Engineering. Students also have classes in Robotics, Industrial Engineering, Management and Languages.

On top of classes, Icam - Strasbourg-Europe Campus offers laboratory projects in different fields of study, either as a complement or as an isolated assignment. Students can request a laboratory project indicating the number of credits required, the subject of their interest and the foreseen project period by sending an e-mail to: international.strasbourg-europe@icam.fr



Preparatory Cycle - First Academic Year



Semester 1	ECTS	Language
Mathematics for engineers 1 <i>(EC01-PIPN-MathFond)</i> Fundamentals of Mathematics <i>(EC01-PIPN-MathAna)</i> Analysis <i>(EC01-PIPN-Mathalg)</i> Algebra	1 3 2	French French French
Physics for engineers 1 <i>(EC01-PIPN-MécaPoint)</i> Mechanics of Particles <i>(EC01-PIPN-Thermo)</i> Thermodynamics	3 3	French French
Computer sciences 1 <i>(EC01-PIPN-Bureautique)</i> Office computer tools <i>(EC01-PIPN-Algo)</i> Algorithmics	1 1	French French
Electrical engineering and automation 1 <i>(EC01-PIPN-Elec-1)</i> Electric Circuits	6	French
Mechanical engineering 1 <i>(EC01-PIPN-Conception)</i> Mechanical design and CAD	3	French
Economy and law 1 <i>(EC01-PIPN-ProjEnt)</i> Entrepreneurship project	1	French
Social and Management Skills 1 <i>(EC01-PI-Accom)</i> Intercultural Support and Engineer's Ethics <i>(EC01-PIPN-Com)</i> Communication <i>(EC01-IR)</i> Intercultural report	1 2 4	French French French or English
Student Commitment 1 <i>(EC01-PIPN-projEnga)</i> Project in Commitment	2	French
Language skills 1 <i>(EC01-PIPN-Ang)</i> English language <i>(EC01-PI-All)</i> German language <i>(EC01-PI-Esp)</i> Spanish language <i>(EC01-FLE)</i> French as a Foreign Language	2 2 2 4	English German Spanish French



Semester 2	ECTS	Language
Mathematics for engineers 2 (EC02-PIPN-MathAlg) Algebra (EC02-PIPN-MathAna) Analysis	3 3	French French
Mechanical engineering 2 (EC02-PIPN-Conception) Mechanical design and CAD	3	French
Economy and Law 2 (EC02-PIPN-ProjEnt) Entrepreneurship project	1	French
Social and Management Skills 2 (EC02-PI-Accom) Intercultural Support and Engineer's Ethics (EC02-PIPN-Com) Communication (EC02-IR) Intercultural report	1 1 4	French French French or English
Internship 2 (EC02-PI-ProjPro) Professional project (EC02-PIPN-Stage) Internship	1 2	French French
Student Commitment 2 (EC02-PIPN-ProjEnga) Project in commitment	2	French
Physics for engineers 2 (EC02-PIPN-Electromag) Electromagnetism (EC02-PIPN-MécaSol) Rigid Body Mechanics	3 3	French English
Computer sciences 2 (EC02-PI-InfoIndus) Industrial Informatics	2	English
Electrical engineering and automation 2 (EC02-PIPN-Autom) Automatism (EC02-PIPN-Elec-2) Electronics	2 4	English English
Language skills 2 (EC02-PIPN-Ang) English language (EC02-PI-All) German language (EC02-PI-Esp) Spanish language (EC02-FLE) French as a Foreign Language	2 2 2 4	English German Spanish French



Preparatory Cycle - Second Academic Year



Semester 3	ECTS	Language
Mathematics for engineers 3 (EC03-PIPN-Math) Mathematics	5	French
Computer sciences 3 (EC03-PI-ProgEmb) Embedded programming	2	French
Electrical engineering and automation 3 (EC03-PI-ElecEmb) Embedded Systems	2	French
Industrial Engineering 3 (EC03-PI-Procédés) Manufacturing Processes	3	French
Social and Management Skills 3 (EC03-PI-Accom) Intercultural Support and Engineer's Ethics (EC03-IR) Intercultural report	1 4	French French/English
Materials Sciences 3 (EC03-PIPN-Matériaux) Materials	3	English
Mechanical engineering 3 (EC03-PI-Conception) Mechanical design and CAD (EC03-PI-Méca général) Engineering Mechanics	2 4	English English
Project 3 (EC03-PI-ProjetRobot) Robotic project	4	English
Language skills 3 (EC03-PIPN-Ang) English language (EC03-PI-All) German language (EC03-FLE) French as a Foreign Language (EC03-PI-ProjLing) Linguistic project	2 2 4 1	English German French English

→ **No incoming mobilities during Semester 4.**



Engineering Cycle - Third Academic Year



Semester 5	ECTS	Language
Electrical engineering 5 <i>(EC05-Converters)</i> Power converters and electric machines <i>(EC05-Fundamentals)</i> Fundamentals, Physical Parameters and Components <i>(EC05-Power)</i> Power generation Network and Distribution <i>(EC05-LowPower)</i> Low Power Systems	1 1 1 1	English English English English
Energy, Environment and Life Sciences 5 <i>(EC05-Analyse)</i> Environmental analysis <i>(EC05-Fluides)</i> Fluid mechanics <i>(EC05-Semaine)</i> Integral ecology week	1 2 1	English English French/English
Mechanical engineering and materials 5 <i>(EC05-RDS)</i> Resistance of Structures <i>(EC05-Mat)</i> Materials <i>(EC05-Elasticity)</i> Elasticity	1 3 2	French/English English English
People and Organization Management 5 <i>(EC05-Economy)</i> Economic and Social Environment <i>(EC05-Performance)</i> Industrial performance tools	1 1	English English
Mathematics, Computer Science, Automation 5 <i>(EC05-Automatics)</i> Linear Control System <i>(EC05-Data)</i> From Spreadsheets to Databases <i>(EC05-Optimization)</i> Optimization and Approximation	1 1 1	French English English
Humanities 5 <i>(EC05-Cultures)</i> Cultural identities and Globalization <i>(EC05-Ang)</i> English language <i>(EC05-All)</i> German language <i>(EC05-FLE)</i> French as a foreign language <i>(EC05-IR)</i> Intercultural report	2 2 2 4 4	French English German French French/English
Project 5 <i>(EC05-Proj)</i> Mechatronic project	5	English



Semester 6	ECTS	Language
Electrical engineering 6 <i>(EC06-Converters)</i> Power converters and electric machines <i>(EC06-Automated)</i> Automated Smart Systems <i>(EC06-LowPower)</i> Low Power Systems	1 1 1	French English English
Energy, Environment and Life Sciences 6 <i>(EC06-Fluides)</i> Fluid mechanics <i>(EC06-Conversion)</i> From the resource to its conversion <i>(EC06-Thermique)</i> Heat Transfer	1 2 1	English English French/ English
Mechanical engineering and materials 6 <i>(EC06-Mat)</i> Materials <i>(EC06-ElementsFinits)</i> Finite Elements <i>(EC06-Dynamique)</i> Dynamics	3 2 2	English English French/ English
People and Organization Management 6 <i>(EC06-MacroEco)</i> Macro-economics <i>(EC06-SysManag)</i> QHSE & CSR Management Systems	1 1	French French/ English
Mathematics, Computer Science, Automation 6 <i>(EC06-AIOT)</i> Artificial Intelligence for Objects	3	French
Humanities 6 <i>(EC06-Cultures)</i> Cultural identities and Globalization <i>(EC06-Ang)</i> English language <i>(EC06-All)</i> German language <i>(EC06-FLE)</i> French as a foreign language <i>(EC06-IR)</i> Intercultural report	2 2 2 4 4	French English German French French/ English
Project 6 <i>(EC06-Proj)</i> Mechatronic project <i>(EC06-Recherche)</i> Research Week Awareness Campaign	3 1	English French

Engineering Cycle - Fourth Academic Year



Semester 7	ECTS	Language
Electrical Engineering 7 (EC07-SystEmb) Embedded Systems	2	English
Materials Science and Engineering 7 (EC07-Trait) Heat treatments and corrosion	2	English
Mechanical Engineering 7 (EC07-Vib) Vibrations (EC07-MEF) Finite Element Method	2 2	English English
Energetic engineering 7 (EC07-MecaFlu) Fluid Mechanics (EC07-TransTherm) Heat Transfer & Heat Exchangers (EC07-MachinTherm) Thermodynamics and Heat Engines	3 2 2	English English English
Industrial Engineering 7 (EC07-InnoEco) Innovation & Eco Design (EC07-PrevPlan) Forecast & Planning (EC07-Indus) Industrialization	2 2 2	English English English
Technical Project 7 (EC07-ProjTech1) Technical Project	4	English
Human and Managerial training 7 (EC07-Accom) Cultural and Engineering Ethics (EC07-IR) Intercultural report	1 4	French French/English
Language Skills 7 (EC07-Ang) English language (EC07-All) German language (EC07-FLE) French as a foreign language	2 2 4	English German French
Engineering Project 7 (EC07-EP) Engineering project	5 to 15 ECTS	French/English



Semester 8	ECTS	Language
Computer Sciences 8 <i>(EC08-Archi)</i> Network Architecture and security <i>(EC08-BDD)</i> Databases	2 2	English English
Automation 8 <i>(EC08-Asser)</i> Analog Control of Systems <i>(EC08-Instru)</i> Instruments	2 1	English English
Electrical Engineering 8 <i>(EC08-CompoProg)</i> Programmable Components <i>(EC08-ElecPuis)</i> Power Electronics	1 2	English English
Materials Science and Engineering 8 <i>(EC08-Ceram)</i> Polymer and Ceramic Materials	2	English
Industrial engineering 8 <i>(EC08-Supply)</i> Supply Chain Management and Distribution <i>(EC08-MaintQual)</i> Maintenance & Quality	2 2	English English
Technical Project 8 <i>(EC08-ProjTech2)</i> Technical Project	4	English
Human and Managerial training 8 <i>(EC08-Accom)</i> Cultural and Engineer's Ethics <i>(EC08-IR)</i> Intercultural report	1 4	French French/English
Language skills 8 <i>(EC08-Ang)</i> English language <i>(EC08-All)</i> German language <i>(EC08-FLE)</i> French as a foreign language	2 2 4	English German French
Engineering Project 8 <i>(EC08-EP)</i> Engineering project	5 to 15 ECTS	French/English



Engineering Cycle - Fifth Academic Year



Semester 9	ECTS	Language
Economic and Legal Sciences 9 <i>(EC09-Mark)</i> Market study <i>(EC09-GesComp)</i> Accounting management <i>(EC09-Entrep)</i> Entrepreneurship <i>(EC09-Achat)</i> Technical purchasing & Negotiation <i>(EC09-Droit)</i> French labor and company law	1 2 2 1 1	English French French French French
Social and Management Skills 9 <i>(EC09-Accom)</i> Cultural and Engineer's Ethics <i>(EC09-Manag)</i> Engineering Management <i>(EC09-IR)</i> Intercultural report	1 2 4	French French French/English
Language skills 9 <i>(EC09-Ang)</i> English language or TOEIC preparation <i>(EC09-All)</i> German language or WiDaf preparation <i>(EC09-FLE)</i> French as a Foreign Language	2 2 4	English German French
R & D Project 9 <i>(EC09-PRD)</i> Research and development project	9	French
Engineering Project 9 <i>(EC09-EP)</i> Engineering project	5 to 15 ECTS	French/English

Semester 9 Majors - Classes in French	ECTS
Lean Manufacturing – LM <i>(EC09-LM-Culture)</i> Continual improvement <i>(EC09-LM-Flux)</i> Flux <i>(EC09-LM-Process)</i> Processes <i>(EC09-LM-Accom)</i> Coaching <i>(EC09-LM-Performance)</i> Performance Optimization	2 2 2 1,5 1,5
Materials and Sustainable Development - MDD <i>(EC09-DD-Juridique)</i> Law and society : ISO 26000 <i>(EC09-DD-AspectEner)</i> Energy <i>(EC09-DD-AspectMat)</i> Material <i>(EC09-DD-PerfEner)</i> Energy performance <i>(EC09-DD-AspectEco)</i> Economy	2 2 2 2 1



Grading System



0	10	20
0 worst	<10 Failed	> = 10 passed 20 best

→ 10 is needed to pass the exam.

→ The best grade is 20.

The grades are given as follow:

A: best 10%

B: next 25%

C: next 30%

D: next 25%

E: next 10%.

FX: non-sufficient, result between 10 and 9

F: non-sufficient, result between 9 and below

