EPITA
SCHOOL OF ENGINEERING & COMPUTER SCIENCE

CONFÉRENCE DES GRANDES ÉCOLES

IB

► Endorsed by French & international companies
► Program dedicated to computer science & numerical sciences
► Action Learning through doing
► Multi-cultural educational environment

In Paris

100% English

3 3 years

1 1 Intake Sept

International BACHELOR of Computer Science

The aim of the **International Bachelor in Computer Science** Program is to prepare students to be multi-disciplined engineers in all IT sectors. Students will learn algorithms, programming, mathematics, in addition to human sciences. Individual and group projects will be daily tasks.

+ **International preparation by collaborating with French and international students**

+ **A hands-on internship that will allow everyone to measure themselves against the realities of the workplace**

+ **The promotion of creativity and a vision of global business.**

Programs

Bachelor 1		Bachelor 2		Bachelor 3	
Sem. **1** (S1)	Sem. **2** (S2)	Sem. **3** (S3)	Sem. **4** (S4)	Sem. **5** (S5)	Sem. **6** (S6)
30 ECTS	30 ECTS	30 ECTS	30 ECTS	30 ECTS	30 ECTS
Sep to Jan	Feb to Jun	Sep to Jan	Feb to Jun	Sep to Jan	Feb to Jul

Master 1		Master 2	
Students enrolled in this program can pursue a 2-year masters program to obtain the French engineering degree.			

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FRANCE

STAY IN TOUCH with us

Learning Objectives

The heart of this program is to prepare students to obtain "an engineering degree in Computer Science and the related fields:

▸ **Multimedia & Information Technology**
▸ **Systems, Network & Security**
▸ **Embedded & Realtime Systems**
▸ **Telecommunications & Networks**
▸ **Information Systems & Software Engineering**
▸ **Global IT Management**
▸ **Data Science & Artificial Intelligence**
▸ **Image Processing**
▸ **Research**

€ Average salary:
35K€ gross annually

Internship salary:
1000-1200€ monthly

Application

Requirements

▸ Scientific High School Degree with solid mathematics and general sciences background

Fees

▸ Tuition fees per year: 9900 €/per year
▸ Application fees: 60 €

Deadline

📅 **30th of June (September Intake)**

Procedure

APPLY ONLINE www.epita.fr/en

1 Validation of the candidacy
2 Online interview
3 Online math exam
4 Admission results

✉ Status of an application is communicated by **email during each phase of the procedure.**

Checklist

▸ Resume
▸ Passport
▸ Official High School transcripts
▸ Certified copy of the High School certificate
▸ 2 letters of recommendation
▸ TOEFL 80, TOEIC 800, IELTS 6.0
▸ Motivation letter

Program Outline

Teaching Unit	Course			
	S1	**S2**	**S3**	**S4**
Cultural Integration	Social studies FLE (French for Foreigners)			
Mathematics	Algebra - Logic and Set Theory Algebra - Enumeration Calculus - Finite Probabilities Calculus - Numerical Sequences Algebra - Arithmetic	Calculus - Numerical Functions Calculus - Differential Equations Algebra - Linear Algebra	Calculus - Numerical Series Calculus - Power Series Calculus - Discrete Probabilities Algebra - Linear Algebra	Calculus - Indefinite Integrals Algebra - Bilinear Algebra Calculus - Functional Sequences and Series Calculus - Fourier Series Calculus - Multivariate Functions
Algorithm	Algebra Abstract Types Elementary Data Structures The sets & Multi-sets Searching Algorithms	Trees Basic Sorting Algorithms	Sorting algorithms Graphs	Strongly Connected Components Shortest Paths
Languages & Programming	Functional Programming – Calm Imperative Programming – C#	Object-Oriented Programming Technics C# Programming Building .NET applications using C# Design & development of a multi-user application	The UNIX System C programming Language	Advanced programming System Programming Introduction to Network Programming Introduction to Multithreading
Computer Architecture	Computer Arithmetic Combinational Logic and Boolean Algebra	Floating-Point Numbers Sequential Logic Counters	The 68000 Microprocessor	Advanced Coding Techniques
Physics	Particle and Solid Mechanics	Thermodynamics	Electrostatics Electrokinetics Magnetostatics	Electromagnetic Waves: EM Atomic physics Quantum Mechanics
Electronics	Definitions of Electronics Direct Current Circuits	Alternating Current circuits Filters	Semiconductor's Physics Diodes and their Applications Bipolar Junction Transistor	Junction Field Effect Transistor (JFET) Perfect Operational Amplifier Digital-to-Analog & Analog to Digital Converters

Teaching Unit	**S5**	**S6**
Corporate, Sports, Communication	International Week Sports & Student Life Activities Professional Project Workshop	Sport & Student Life Activities Professional Project
Cultural Integration	FLE (French for Foreigners)	
General Science	Set Theory and Algebraic Structures Indefinite Integrals for Engineering Function Series for Engineering Logic and Propositional Calculus Mathematics for Signal Processing Discrete Probabilities	Multivariate Optimization Continuous Probabilities Descriptive and Inferential Statistics Operations Research Numerical Methods Finite Elements Method Math for System Security
Fundamentals of Computer Science	Complexity of Algorithms Compiler Construction Computer Language Theory Tiger Compiler	Tiger Compiler Project Data Compression Graph Theory Concepts in Programming Languages
Management & Engineering Culture	Project Management Introduction Team Management Business Writing Internet Geopolitics Personal Management Internet Law Sociology of Organizations	Project Management 2 Training for Project Reporting ITIL Methodology
Professional & Business Training	Principles of Quality Management French Law	Economic Notions for IT Markets
Programming and Software Engineering	C & Unix Programming C/Unix Project Object-Oriented Modeling 1 Object-Oriented Modeling 2 Functional Programming	Compiler Construction C++ Workshop Java Workshop
Systems & Networks	Assembler, System & Microprocessors Unix Shell Project Operating Systems OSI Network 1 OSI Network 2	DevOps Telecom, Networks & Services Discovering Active Directory under Windows 2008. TCP /IP Network
Information Systems Management & Database		Relational Databases Database Project JAVA & J2EE Project