

## Master in Computer science

# Computer engineering standard 2nd year

### Presentation

---

The Computer engineering program is a vocational training course in the field of **general software engineering**. The course focuses on the mastery of computer engineering methods and tools and offers specialization in the following areas : human-machine interaction, distributed and embedded systems as well as database and information systems. Training exists in two forms but with the same shared lessons (except for two teaching units):

- One for the **classical student** (status of intern during his/her presence in the company)
- The other in **block-release** (for an apprenticeship contract, a contract for professionalization, and a contract to provide professional training)

### Registration and scholarships

---

The second year master's is accessible to candidates according to their transcripts (and/or interview) :

- Having validated the first year of a compatible course - or by validating studies or acquired experience according to the conditions determined by the university or the training

Public continuing education : You are in charge of continuing education :

- if you resume your studies after 2 years of interruption of studies
- or if you followed a formation under the regime formation continues one of the 2 preceding years
- or if you are an employee, job seeker, self-employed

If you do not have the diploma required to integrate the training, [you can undertake a validation of personal and professional achievements \(VAPP\)](#)

Would you like to apply and register ? Please note that the procedure differs depending on the degree, the diploma obtained, or the place of residence for foreign students.

- **You are a non-EU citizen, resident in (you live in one of these countries):**

Algeria, Argentina, Benin, Brazil, Burkina Faso, Cameroon, Chile, China, Colombia, Comoros, Congo, Egypt, Indonesia, Ivory Coast, Lebanon, Madagascar, Mali, Mauritania, Mauritius, Mexico, Morocco, Peru, Russia, Senegal, South Korea, Syria, Taiwan, Togo, Tunisia, Turkey, Vietnam.

[Candidate for studies in France /](#) For other applicants : [Apply Now](#)

### Practicals informations :

---

- > **School** : UFR IM2AG (informatique, mathématiques et mathématiques appliquées)
- > **Duration** : 1 year
- > **Course type** : Initial and Continuing Education
- > **Location(s)** : Grenoble - University campus

> **Contacts :**

**Programme director**

Philippe Lalanda  
 Philippe.Lalanda@grenoble-inp.fr

**Programme administration**

Carolyn Cargnel  
 04.76.63.57.01  
 carolyn.cargnel@univ-grenoble-alpes.fr

## Program

### Master 2nd year

#### Semester 9

<b>UE ECOM integration project</b>	6 ECTS	63h
<b>UE Principles of agile methods</b>	3 ECTS	32h
<b>UE Communication skills in English</b>	3 ECTS	30h
6 option (s) to choose from 11		
<b>UE Security of information systems</b>	3 ECTS	30h
<b>UE Man-machine interaction : multimodality and mobility</b>	3 ECTS	30h
<b>UE Multimedia documents : automatic description and search</b>	3 ECTS	30h
<b>UE Distributed systems and applications</b>	3 ECTS	30h
<b>UE Communicating embedded systems for the internet of things</b>	3 ECTS	30h
<b>UE e-services for M2M and the internet of things</b>	3 ECTS	30h
<b>UE Wide scale data</b>	3 ECTS	40h
<b>UE Data analysis, data web and semantic web</b>	3 ECTS	30h
<b>UE Advanced validation techniques/ tests</b>	3 ECTS	30h
<b>UE Principles and techniques of model-driven engineering</b>	3 ECTS	30h
<b>UE Mobile development project</b>	3 ECTS	30h

**UE Software engineering : life cycle and quality**

6 ECTS

60h

#### Semester 10

<b>UE Conduct of software projects in companies</b>	24 ECTS
---	---------