



**MASTER in SCIENCES, TECHNOLOGY, HEALTH**  
**in Electronics, Electrical, Energy, Automatic control engineering (EEEE)**  
**Field : Automatic control System engineering (ASI)**

in the Electrical Engineering Department (GEP)

A one or two year program

Opening : sept 2022

Student application and courses details: see [www.univ-lyon1.fr](http://www.univ-lyon1.fr)

### Targeted students

- seeking to graduate in a major in automatic control
- students with bachelor degree in EEEA, math, or applied math
- french speaking student (semesters 1 2), or english speaking student (semesters 3 4)
- to enter as first or 2nd year of master
- to become :
  - full time student : 100 % of the time at the University + final internship
  - or part time student with an industrial contract : 50 % of the time at the University + final internship
- seeking to work in the industry or to work in research program (PhD thesis in Automatic control) both anywhere in the world.

### Year 1, fall: in all fields of EEEA

- all courses in french
- numerical analysis 1, industrial process control 1, electronics, sensors, electrical energy conversion, academic project or internship in a company

### Year 1, spring: mostly in the field of Automatic control

- all courses in french
- numerical analysis 2, industrial process control 2, linear systems 1, nonlinear systems 1 and 2, artificial intelligence, logic systems, industrial vision, oriented objet programming, academic project or internship in a company

### Year 2, fall: mostly in the field of Automatic control

- for full time student seeking to work to work in research program
  - all courses in english
  - linear systems 2, nonlinear systems 3 and 4, optimal control,
  - robust control, advanced control, identification, distributed parameter systems,
  - discovery of research
  - option: diagnosis, implicit system control, passive control, operational research, other credits in the european master program in hamiltonian systems of UCBL1
- for part time with an industrial contract
  - some courses in english : linear systems 2, nonlinear systems 3 and 4, optimal control, discovery of research
  - some courses in french : SCADA, real time control, internet of things, industrial project

### Year 2, spring: final 5 month internship

- for full time student seeking to work in research program : in a research laboratory (LAGEPP, AMPERE, DISP ...) of R&D department in a company. For french or english speaking person.
- for part time with industrial contract : in a company

**Contact (Head):** [pascal.dufour@univ-lyon1.fr](mailto:pascal.dufour@univ-lyon1.fr)<sup>1</sup> **Application :** [ecandidat.univ-lyon1.fr](http://ecandidat.univ-lyon1.fr)