MASTER in SCIENCES, TECHNOLOGY, HEALTH
in Electronics, Electrical, Energy, Automatic control engineering (EEEA)
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

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 final 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

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