Cursus
Manufacturing
Microsystèmes et microélectronique
Robotique, contrôle et systèmes intelligents

Type
Obl.

Language
English

Credits
4

Session
Exam

Workload
120h

Hours
56

Lecture
42

Practical work
14

Number of positions
22

Frequency
Every year

Remarque
Next time: June 2-12, 2020 (exam on June 17)

Summary
The course offers 10 intensive days of lectures on various topics at the hearth of microtechnology.

Content
The course includes lectures on a wide range of subjects such as: scanning probe fabrication, advanced & additive manufacturing, electro-optical microcircuits, mechanical micro-manufacturing, lasers, micro- and nano-robotics, low-noise image sensors, quantum computing and sensing, biosensors, photonics, etc.
Each lecture lasts between 4x45' and 8x45' and is given by a specialist of the field.
At the end of the course, a visit to a company will be proposed.
The detailed program will be made available on memento.epfl.ch.

Note
This course takes place on EPFL Neuchâtel Campus.
A maximum of 50 students will be accepted for the course. This number is set by the classroom capacity.
The fees for this course, CHF 210.- per PhD student registered, must be paid by the lab of the student. Please note it is possible to cancel without fees until 2 weeks before the course starts.

Learning Prerequisites
Recommended courses
Master in Microtechnology or a related topic.

Resources
Websites
• https://www.epfl.ch/education/phd/programs/edrs-robotics_control_and_intelligent_systems/edrs-highlights-in-microtechnology-en/