

## Robust multivariable control

Number of ECTS credits: Coefficient:

### Description:

This course develops the following elements:

- modeling of parametric and dynamic uncertainties,
- taking into account uncertainties in the synthesis of control law,
- robustness in stability and performance,
- H-inf methods for the synthesis of robust correctors.

### Pedagogical objectives:

At the end of this course, students are able to:

- propose structures of classical uncertainties and model them,
- integrate these uncertainty models into the synthesis of control law by the H-inf methods,
- study the robustness in stability and performance of a servo.

### Bibliography: Prerequisite:

Automatic Linear Frequency

Lectures Hours: 12

Tutorials Hours: 4.5

Labs Hours: 12

Knowledge monitoring modalities: 100% continuous assesement

Assesement: Reports of labs, exam

### Leader:

### Participants: