



Faculté des sciences appliquées

FSA

INMA2360 **Advanced methods in automatic control**

[30h+22.5h exercises] 5 credits

This course is taught in the 2nd semester

Teacher(s): Michel Gevers (coord.), Vincent Wertz
Language: french
Level: 2nd cycle course

Aims

This course is aimed for students willing to acquire an advanced training in automatic control and systems. The aim is to study in-depth various methods for the analysis and synthesis of automated systems.

Main themes

To thoroughly study one of the advanced methods in automatic through appropriate reading and presentation of various chapters from a given reference book that may change from one year to the other according to the teacher who has tenure of this course.

Content and teaching methods

The themes in this course may change from one year to another depending on the students' and teachers' interests. Among these themes, the following can be listed by way of example :

- optimal control
- control of discrete event systems
- control of distributed parameter systems
- etc...

Other information (prerequisite, evaluation (assessment methods), course materials recommended readings, ...)

This course will be taught through active pedagogical methods, in particular problem-based learning and guided reading.
 The teaching language : french or english

Other credits in programs

ELEC23	Troisième année du programme conduisant au grade d'ingénieur civil électricien	(5 credits)
FSA3DS/TO	Diplôme d'études spécialisées en sciences appliquées (automatique)	(5 credits)