Faculty of Applied Sciences

INMA1375   Project in applied mathematics

[0h+45h exercises] 5 credits

This course is taught in the 2nd semester

Teacher(s):   Pierre-Antoine Absil, François Glineur (coord.), Yurii Nesterov, Vincent Wertz
Language: French
Level: First cycle

Aims

Interdisciplinary training in Mathematical Engineering

Main themes

Small teams of students develop a Mathematical Engineering Application by combining methods and scientific knowledge from three out of the fundamental disciplines of Applied Mathematics : Numerical analysis, Algothmics, Optimisation, Differential equations and Dynamical systems, Statistics and Probabilities, Continuum Mechanics.

Content and teaching methods

The project involves a bibliographic investigation, the development of an appropriate methodology, the development of suitable algorithms and codes, a performance evaluation, the preparation of a final report.

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

Oral presentation of the project.

Other credits in programs

FSA13BA   Troisième année de bachelier en sciences de l'ingénieur,   (5 credits)
                 orientation ingénieur civil