

RI Project

Introducing

Description

The student will work on an open problem in applied science and will implement the four major skills of the engineer in applied mathematics

- Reformulate a user need to produce a problem that can be treated mathematically
- Analyze and design a digitally implementable solution to the mathematical problem posed
- Implement the digital solution to make it a demonstrator
- Use the technical and digital solution to produce a decision support tool (a study or a calculation code) meeting user needs

Objectives

The student will be able to:

- Interact with a specialist or engineer from another discipline.
- Organize collaborative work in small groups.
- Define the framework and specifications of an original mathematical modeling problem.
- Conduct the necessary bibliographic research to solve the problem.
- Develop the deterministic and/or stochastic model adapted to its resolution.
- Implement its numerical resolution.
- Report in writing and orally on the results obtained.

Necessary prerequisites

Applied Mathematics L3/M1-M2

Évaluation

L'évaluation des acquis d'apprentissage est réalisée en continu tout le long du semestre. En fonction des enseignements, elle peut prendre différentes formes : examen écrit, oral, compte-rendu, rapport écrit, évaluation par les pairs...

Practical info

Location(s)

 Toulouse