

### Quality, security, environment

# Introducing

Statistics course of 3MIC.

#### Description

Program (detailed contents):

- Specific QSE: Statistical process control (SPC); notions of metrology; capability of a process; control cards; the SPC system in a company.
- Health and Safety at work: notions of risks, evaluation, prevention, protection.
- Notions of IT security: bases of cryptography; electronic certificates; protocol https; digital signature.

#### 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

# **Objectives**

At the end of this module, the student will have understood and be able to explain (main concepts):

- Mains concepts and tools for quality control
- The principles and stakes in the health and in the safety at work.
- The main concepts of the IT security.

The student will be able to:

Integrate the aspects of Quality, Security, Environment into the analysis of problems and the development of solutions.

### Necessary prerequisites

For the statistical process control part, the Probability and Statistics course of 2MIC and the Inferential

