Engineering methods

ECTS
5 credits

Component
INSTITUT NATIONAL DES SCIENCES APPLIQUEES TOULOUSE

Number of hours
71h

Presentation

Description

The goal of this UF is to introduce the main principles of systems engineering and software engineering. A first course introduces the concepts, methods and tools, to define and control the process development of a critical embedded system.

A second course focuses on the agile management of engineering processes in a project of development of a critical embedded system.

A MOOC allows the student to synthetize all the notions of this UF and to reinforce some.

All method, tools and good practices presented in the UF will be used in a transversal project of development of a critical embedded system.

Organisation

4 parts with lectures, on line lectures, paper work and lab works, a transversal project.

Objectives

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

Main principles of systems engineering and software engineering: concepts, methods and tools, to define and control the process development of a critical embedded system.

The student will be able to:

- apply these general competences to computer based embedded systems

explain different methods and chose the best adapted to develop a specific application.

Useful info

Contacts

Education manager

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Place

Toulouse