

Manufacturing Management

Research in Industrial Engineering

IDENTIFICATION

CODE : GI-5-S1-EC-RGI
ECTS : 3.0

HOURS

Lectures : 10.0 h
Seminars : 10.0 h
Laboratory : 6.0 h
Project : 0.0 h
Teacher-student
contact : 26.0 h
Personal work : 30.0 h
Total : 56.0 h

ASSESSMENT METHOD

Written report + Oral presentation

TEACHING AIDS

Depending on the topic of the project.

TEACHING LANGUAGE

English

CONTACT

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AIMS

This teaching unit [EC] contributes to the following skills:

A3 Implement an experimental approach or a production approach

A5 Process data

A6 Communicate an analysis, a scientific approach, a proof or a solution in a reasoned and logical way

B2 Work, learn, evolve independently

B4 Show creativity, innovate, undertake

C1 Observing, measuring, analyzing and interpreting an activity or a system from data

C2 Modeling and designing an information, decision and production system, of goods and services

C3 Evaluating, prototyping and simulating a system

C13 Considering technological and methodological innovation

Skills mobilized :

A1 Analyze a system (real or virtual) or a problem

A2 Exploit a model of a real or virtual system

C8 Managing supply in connection with the planning and inventory management policy

C14 Collectively managing a project: organization, communication, group coordination

C16 Identifying, analyzing and controlling the risks inherent to a project

B3 Interact with others, team work

B7 Work in an international and intercultural context

CONTENT

Research methodology [8 hours]: bibliographic management tools, writing a bibliographic analysis, structure of a research article

Research project, in pairs, allowing the student to learn and experiment a research/innovation approach, on a subject proposed and supervised by a teacher-researcher, according to the following steps:

- appropriation of the subject
 - formalization of the research problem and proposal of possible solutions
 - development of solutions and experiments
 - analysis of results, proposal of perspectives
 - writing of a document respecting the editorial standards of a research article
- The project gives rise to a report and a defense.

BIBLIOGRAPHY

Depending on the topic of the project.

PRE-REQUISITE

Depending on the topic of the project.