

Outils & Méthodes

Introduction to Scientific Research

IDENTIFICATION

CODE : GI-5-S1-EC-INR
ECTS : 2.0

HOURS

Lectures : 6.0 h
Seminars : 16.0 h
Laboratory : 0.0 h
Project : 0.0 h
Teacher-student
contact : 22.0 h
Personal work : 20.0 h
Total : 42.0 h

ASSESSMENT METHOD

Written report + Oral presentation

TEACHING AIDS

Depending on the subject.

TEACHING LANGUAGE

English

CONTACT

MME BOTTA-GENOULAZ
Valerie
valerie.botta@insa-lyon.fr
Phone : 0472436074

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

B3 Interact with others, team work

B7 Work in an international and intercultural context

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

C9 Localizing and assigning the production, storage and transportation processes to different members of the supply chain

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

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

Understand the subject by mobilizing the relevant theoretical knowledge and by carrying out a state of the art

- Understand and formalize the research problem

- Suggest possible solutions

- Develop solutions and conduct experiments

- Analyze the results obtained and propose recommendations

- Present and defend the results of the research project

CONTENT

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

- appropriation of the subject

- formalization of the research problem and proposition of resolution tracks

- development of solutions and possible experiments

- results analysis and perspective proposals

BIBLIOGRAPHY

Depending on the subject.

PRE-REQUISITE

Depending on the subject.