

IDENTIFICATION

Course code : SR603
ECTS : 2

DURATION

Lectures : 0
Tutorial classes : 16
Labs : 0
Total : 16

Project :
Personnal work :

ASSESSMENT

Continuous assessments and practical evaluations.

TEACHING MATERIALS

Slides, guided work sheets and practical work sheets.

LANGUAGE

English

CONTACT

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UE : UE6-SYSRES

COURSE : Tools for Engineers : Virtual Environments and Collaboration Practices

SCOPE OF THE COURSE

OBJECTIVES

This course aims to train students in the use of virtual environments and best collaboration practices in engineering. It enables the acquisition of skills necessary to work effectively in distributed environments, using modern tools for development, project management and communication.

COMPETENCE AND SKILLS

- Manually deploy and administer services
- Organize projects according to project management methodologies
- Write and implement software tests
- Integrate OpenData APIs into an ETL pipeline
- Select suitable development environments (IDEs) for prototyping and product development

PROGRAM

- Introduction to virtual environments
- Collaboration and source code management
- Tools for real-time collaboration
- Project management practices in distributed environments
- Collaboration in virtual environments

BIBLIOGRAPHY

Sameer Naik, Sébastien Goasguen, Jonathan Michaux, *Kubernetes Cookbook : Building Cloud Native Applications*, 2024

REQUIREMENTS

- Tools for Engineers : Version Control, Deployment and Documentation
- Tools for Engineers : IT Project Management
- Tools for Engineers : Monitoring and Technical Document Writing