

IDENTIFICATION

Course code : ESI-SPI-CI-IN4-S7-UE1-EC1
ECTS : 2

DURATION

Lectures : 4
Tutorial classes : 10
Labs : 6
Total : 20

Project :
Personnal work :

ASSESSMENT

At least two continuous assessments.

TEACHING MATERIALS

Slides, practical work sheets.

LANGUAGE

English

CONTACT

Understand and implement information system supervision mechanisms for maintenance and security purposes.

Modifié le : 14 juillet 2026

UE : UE7-SYSRES

COURSE : Computer Networks : Administration, Supervision and Management

SCOPE OF THE COURSE

OBJECTIVES

COMPETENCE AND SKILLS

- Monitor an information system
- Implement mechanisms and software for data collection and analysis for preventive maintenance and detection of anomalies in the information system

PROGRAM

- Typical architectures for network management, including management consoles, aggregators, and device agents.
- Data collection and types : log files, metrics, traces.
- Structure of Management Information (SMI), Management Information Base (MIB), SNMP administration protocol.
- Tools for supervision and administration through collection tools and dashboards.
- Alert and incident management.
- Supervision of modern environments : cloud, containers.

BIBLIOGRAPHY

REQUIREMENTS

The Systems and Networks modules from previous semesters.