

# BAI0168 Technology and methodology of system development

## Course information

**Semester requirement:** practical certificate

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### Thematics

- Life cycle of system development
- Definition of requirements
- Process models
- System models
- UML
- Architectural design, object-oriented design
- Design of user interfaces, ergonomics
- User support, documentation
- Verification and validation
- API testing, UI testing, performance testing
- Project management
- Quality assurance standards
- Version management systems, Git

### Requirements

A task to be submitted by the end of the diligence period, which must be completed in a team.

An application implemented according to the theme, with minimal frontend.

The application must be versioned in Git and uploaded to a sharing site (e.g. Github, Gitlab).

Unit tests must be created for the logic of the application.

The application requires a minimal CI-CD pipeline to be put together.

As well as performing at least one of the following three tasks: creating UI or API or Performance tests for the application.

### Bibliography

- Lecture outline
- Ian Sommerville: Software-Engineering-9th-Edition