

## Faculty of Applied Sciences



### INGI2359 Software engineering seminar

[30h] 3 credits

This two-yearly course is taught in 2007-2008, 2009-2010,...

This course is taught in the 2nd semester

**Teacher(s):** Axel Van Lamsweerde (coord.)  
**Language:** French  
**Level:** Second cycle

#### Aims

- Understand and explain recent results from software engineering research.
- Assess the current state of the art in specific areas, and discuss open issues.
- Interrelate current issues of software engineering.

#### Main themes

Current topics of software engineering such as:

- modeling, analysing, and improving software processes,
- reusing software products and processes,
- engineering secure applications,
- designing and analysing software architectures,
- domain-specific architectures,
- agent-oriented software,
- software testing,
- software engineering environments,
- formal methods,
- knowledge-based software engineering,
- software reengineering,
- software engineering techniques for specific types of systems: open systems, web services, reactive systems, real-time systems, safety-critical systems, mobile systems, ubiquitous systems, hybrid systems, etc.

#### Content and teaching methods

Personal study of recent book chapters and papers, followed by interactive group presentations and discussions.

#### Other information (prerequisite, evaluation (assessment methods), course materials recommended readings, ...)

- Prerequisite

INGI2251 Software Engineering : Development Methods.

- References

Recent books and papers.

- Evaluation

Based on the quality of presentation, on the degree of participation to other presentations, and on the quality of the report on a topic presented by another group.