Introduction



ECTS

https://bamaflexweb.kdg.be/BMFUIDetailxOLOD.aspx?a=147427&b=1&c=2

- 6 ECTS credits
- Raoul Van den Berge in / Lars Willemsens in raoul.vandenberge@kdg.be
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- Application of software development principles, practices and APIs in a project
 - Spring (REST / Security / Testing)
 - npm and webpack
 - ... and more (profiles, JPA fine tuning, ...)

- Lectures:
 - Introduction and theory of new concepts
 - Live demonstrations and application of these concepts
- Canvas:
 - Slides
 - Project and assignments
 - Links to sample code



- Evaluation (100%):
 - Examination Interview based on the submitted project
 - During the exam period at the end of term 4 (after 12th week)



Week 1	
Week 2	
Week 3	
Week 4	
Spring break	
Week 5	
Week 6	
Exam week	
Week 7	Feedback workshop
Easter holidays	
Easter holidays	
Week 8	
Week 9	Project work
Week 10	
Week 11	
Week 12	
Study week	
Exam	Examination Interview (100%)

Is there a policy on AI tools?











Use with care

You're required to follow Programming 5 guidelines and best practices

Failure to explain AI code

- What does this code do?
- Why did you use this code in this specific instance?

Which added value do **you** bring? Are employers better off just deploying AI-generated code?

• **Tip:** try to use AI-generated code as little as possible

Schedule for term 3

Week 1	RefactoringSetup and RefactoringJPA best practices
Week 2	 Web API REST and AJAX Implementation using Spring Framework Frontend: fetch API
Week 3	
Week 4	 Security Form login, cookies, CSRF, Implementation using Spring Framework Users & roles
Week 5	
Week 6	TestingIntegration tests (repositories + services)

Spring profiles & seeding strategies



Schedule for term 4

Feedback workshop Week 7 **Testing** Week 8 Integration tests (MockMvc) **Testing with Spring Security** Code coverage Project work Week 9 **Testing** Week 10 Unit tests Continuous integration Frontend Week 11 npm and webpack

Gradle integration

Week 12

