

LP00

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Course Content

- Git / Java / Gradle
- Unit Testing
- SOLID Principles
- UML: Class and Sequence diagrams
- Design Patterns
- Refactoring and Code Smells

Master Plan

| | theoretical | practical | evaluation | |
|----|------------------------|-----------|-----------------|------|
| 1 | Git | Java | | |
| 2 | Carnival | | Git | Java |
| 3 | Java | Gradle | Java | |
| 4 | Unit Testing | | Unit Testing | |
| 5 | SOLID | UML | SOLID | |
| 6 | Design Patterns | | Design Patterns | |
| 7 | Refactoring | | Refactoring | |
| 8 | Easter | | | |
| 9 | Easter | | Refactoring | |
| 10 | Design Patterns | | Project | |
| 11 | SOLID Live Coding | | | |
| 12 | Java | | | |
| 13 | Burning of the Stripes | | | |
| 14 | Java | | Project | |
| 15 | UML | | Demo | |
| 16 | Property Based Testing | | | |

Java Quiz

Intermediary Report

Code and Final Report

Multiple Choice Quiz

Main Bibliography

- Bruce Eckel; Thinking in Java. ISBN: 0-13-027363-5 (4th edition)
- Russ Miles and Kim Hamilton; Learning UML 2.0. ISBN: 978-0-596-00982-3
- Kent Beck; Test-driven development. ISBN: 978-0-32-114653-3
- Erich Gamma... [et al.]; **Design Patterns**. ISBN: 0-201-63361-2
- Martin Fowler ; with contributions by Kent Beck... [et al.]; **Refactoring**. ISBN: 0-201-48567-2

Evaluation

- To obtain frequency, students may not exceed the maximum number allowed of missed classes. Attendance will be registered in practice sessions.
- You must obtain a minimum of **40%** in all evaluation components.
- Final grade will be calculated as follows:

