



Software Testing

Bachelors - Course Week 1

by J. Janvier (Jay/文字)

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Prerequisites

- Software Engineering
 - Software Design & Development
(Requirements Engineering)
 - Software Coding
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Level of Difficulty

- Not difficult if you pay attention in class
- Ask me/make appointment if you don't understand
- Lectures in English, but at the end Summary in Chinese

Grading

Total: 100 points

60% Final examination

40% Project (group)

No books required, exam is based on class content and slides.

Class Attendance

Class Attendance is Mandatory!

- 3 x Absence without valid reason = No Exam!
- Absence with valid reason: Need proof
(signed by students affairs office and(!) coordinator)

Course Overview/Objectives

Lectures Contents:

- Introduction to Software Testing
- Short Introduction to V-Model SDLC
 - Test Levels (Unit, Integration, System, Acceptance Testing)
- Planning of Testing
 - Writing a Test Plan
 - Test Prioritization Strategies
- Test Execution
 - Test Reporting
 - Static Testing
 - Reviewing Requirements
 - Extracting Test Scenarios from designs
 - Static Code Analysis
 - Dynamic Testing
 - Black, White and Grey Box Test Techniques
 - Test Automation
 - Tools, Simulators, Stubs
 - Security Testing
 - Non-Functional Testing

Course Overview/Objectives

Project Contents:

- Create Test Plan for Project
- Define Customer Acceptance Test Scenarios
- Apply Static Testing
- Apply Dynamic Testing
- Development of Test Code (nUnit)
- Development of Automated GUI testing
- Formal Report of Test Result(s)

For each step the students will receive detailed instructions of what is expected.

Purpose of the project is to LEARN.

If you are in doubt about something: Ask me!

Project Rules

Group-Based: Max. 5 Students

All documents must be in (understandable) English



Copying from other groups not allowed! (result: **0 points** for copied parts)



Re-use of materials found on the internet is allowed!

QQ Group (volunteer needed)

Decide on groups

Breaktime = boring. Ideas?

Questions?