

# Introduction to the course and exam procedure

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Tools and Techniques for Software Testing - Barbara Russo  
SwSE - Software and Systems Engineering group

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# People

- Lectures: Barbara Russo
- Lab instructor: Jorge Melegati Concalves

# Goal

- *To be able to*
  - *select,*
  - *use,*
  - *customize, and*
  - *deploy*
- *tools and*
- *apply techniques for software testing*

# Syllabus

- Introduction to testing
- Techniques for black box and white box testing
- Automated testing
- Dynamic testing and static testing
- Pipelines and DevOps
- Systematic testing
- Performance and monitoring
- Testing for security

# Highly practical

- We give you hints



# Highly practical

- You will create your own pipeline for testing



# Sources and material

- My public page: <http://www.inf.unibz.it/~russo/ToolsTechniquesST.html>
- Teams <https://teams.microsoft.com/l/team/19%3a35329e0dec774719ab3bb7a0fca24ab6%40thread.tacv2/conversations?groupId=03b06f49-9f1a-4b05-b519-ba98ded89bbd&tenantId=92513267-03e3-401a-80d4-c58ed6674e3b>
- Ole portal (emails, marks, non public material) <https://ole.unibz.it/course/view.php?id=8808>
- GitLab (your code) [https://gitlab.inf.unibz.it/ttst2122\\_\\_secondyear](https://gitlab.inf.unibz.it/ttst2122__secondyear)

# Office hours

- Wednesdays 14:00 - 16:00
- Appointment by email



# Milestones

- Lab: Assignments
- Written exam (Oral if COVID allows 🙄)
- Mark = **60%**Lab+**40%** written exam

# Assignments

- Each assignment inevitably depends a bit on the previous one, even though we try to make them as independent as possible
- Presentation at the lab hours

# Lab assessment

- Each Lab assignment is assessed on a **scale 0-33 with 18=“pass”**
- The final Lab mark is the **average of the assignments marks**
- The **last** assignment (“Project completion”) **must be passed**
- There will be **one point bonus** if assignments are completed by the last lab

# All-in-one exam

- If the average is **below “18”** or the last assignment has not been delivered, the Lab assignments can **be submitted as all-in-one one week** before the exam date of the **exam session**
- At the exam, **you will be asked to answer questions about your project as well as answer questions/solve exercises about the course content**

# Final assessment

- To access to the written exam, you must have passed the Lab **with 18 or greater**
- In case the Lab assessment is positive, the Lab mark is kept valid for all first three exam sessions (February, June, September)

# Written exam

- The written exam is a set of 5-6 questions that can be little exercises or theoretical ones
- The written exam is assessed on **scale 0-33** with **18=“pass”**
- The same for the whole course

# Questions?

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