

Tecniche Avanzate di Sviluppo del Software

Advanced Software Development Techniques

Introduction

<http://softeng.polito.it/01LGE/>



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Who

- Software Engineering group
 - ◆ Marco Torchiano
 - ◆ Paolo Falcarin
 - ◆ Maurizio Morisio

- And what about you?
 - ◆ Who are you?
 - ◆ Which is your research topic?
 - ◆ What do you expect from this course?

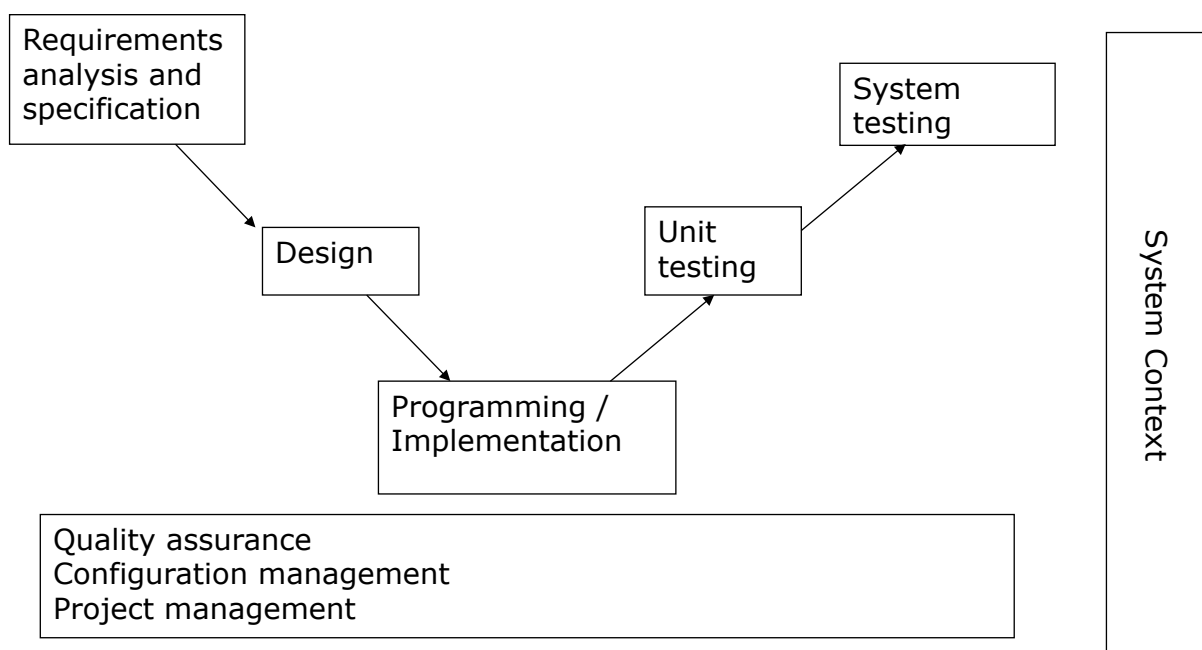
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Agenda

- Topics
- Motivation
- Exame rules
- Schedule

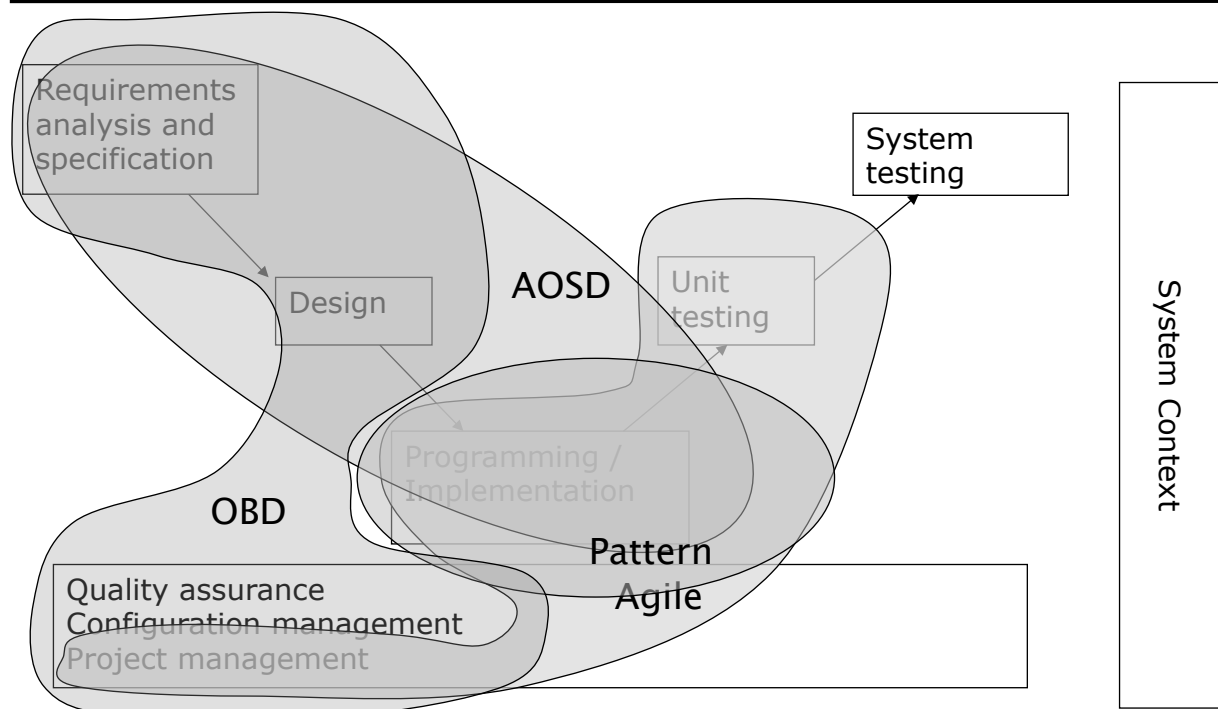
Software development



Topics

- OTS-based software development
- Aspect Oriented Software Development
- Agile software development
 - ◆ eXtreme Programming
 - ◆ Test-Driven Development
- Software design patterns

Software development



Motivation

- Several topics are not treated in any master course
- There are few techniques
 - ◆ Widespread among developers
 - ◆ Of increasing interests both for the industry and academia

Approach

- As far as as possible we'll adopt a scientific approach
 - ◆ Scientific method based on empirical knowldege
- The goal is to provide useful basic knowledge to be able to take decisions during an engineering approach

Exam rules

- Pick one of the topics presented during the course
- Select one or more article related to that topic
- Presentation in the class
 - ◆ Slides delivered 1 day in advance
 - ◆ Duration: Max 20 minutes + questions
- Groups are allowed

Schedule

Date	Time	Room	Topic
Wed 12-Nov	10:30	Sala C	Introduction
Mon 17-Nov	14:00	Sala C	OTS-Based development
Wed 19-Nov	15:00	6C	Software Product Lines
Mon 24-Nov	15:00	15	Aspect Oriented Development
Wed 26-Nov	15:00	6C	AspectJ
Fri 28-Nov	14:00	Sala C	Agile sw development
Tue 2-Dec	15:00	?	Software Design Patterns