**QUALIDADE E TESTES DE SOFTWARE**

Master in Engenharia Informática

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Code: 26212

Main Scientific Area: Computer Science

Lecturer: Edite Joana Pereira Vilas Boas

Language of Instruction: Portuguese

Regime: S1

Contact Hours: 30h Total Workload: 130h

ECTS: 6,0

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**Objectives**

Give students the importance of adopting software testing strategies in the software development cycle:

• Relate test types to the software development cycle

• Plan, analyze, design, implement and execute software tests• Run software tests using automated testing tools

**Learning Outcomes**

Intended to instruct the student on the applicability of different software testing strategies in the software development cycle.

**Course Contents**

1. Software Quality

2. Testing Fundamentals

3. Testing through the software lifecycle

4. Test design techniques

5. Management and planning of tests

6. Testing support tools

7. Metrics8. Test automation;

**Recommended Bibliography**

Myres , G. F. “The Art of Software Testing”.Ed. John Wiley  Sons, Inc.New Jersey, 2004.

Software, I.,  Qualifications, T. (2011). Programa de Certificação de Testador ( Tester ) de Nível Foundation.

Galin, D. (2004).Software Quality Assurance From theory to implementation.

**Learning and Teaching Methods**

The syllabus was defined with the aim to give to the students the ability of learning of software testing concepts and, subsequently, learning and exploring technics to test applications.

**Assessment Methods**

The evaluation includes one practical assignment (NP) to be performed in a group of 2 or 3 people, and the final test (NT) to be performed individually. The final mark (FM) follows the next formula:

FM =Final Mark = 35% NT + 65% NPThe following restriction must be verified: NT>=10 and NP>=10