

TQS 2023/24 - Weekly Plan

45426 - TESTE E QUALIDADE DE SOFTWARE - 2º Semestre - 2023/2024														
Dia	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Segunda														
Terça									TP1 (*) (ANF, IV)					
Quarta														
Quinta		P2 (*) (04.2.17)							P1 (*) (04.2.11)		P3 (*) (04.2.11)			
Sexta				P4 (*) (04.2.11)										
Sábado														

TP1 (Tue)		P2, P1, P3 (Thu)		P4 (Fri)	
13-02		15-02	Lab 1: Unit testing (JUnit) Write unit test using JUnit framework. Analyse coverage.	16-02	Lab 1
20-02	(TP1) Introduction to SQA. The tests pyramid and the role of unit testing. Synthesizing test objects for collaborators	22-02	Lab 2: Mocking dependencies Write tests using JUnit and Mockito. Apply @Mock and @Spy.	23-02	Lab 2
27-02	(TP2) Synthesizing test objects for collaborators. (TP3) Testing multi-layered applications (Spring Boot approach).	29-02	Lab 3: Spring Boot applications testing Spring Boot instrumentation for multi-layer applications testing. Testing API endpoints.	01-03	Lab 3
05-03	(TP4) Acceptance testing. Web automation. The Selenium framework.	07-03	Lab 4: Web testing automation Using WebDriver and Selenium. Page Objects pattern.	08-03	Lab 4
12-03	(TP5) Behavior-driven development. The Cucumber framework.	14-03	Lab 5: Behavior-driven Development (BDD) Writing tests with features using the Cucumber framework.	15-03	Lab 5
19-03	(TP6) Static code analysis. Code quality metrics.	21-03	Lab 6: Code inspection with static code analysis tools.	22-03	Lab 6
26-03	Easter break.]	28-03	[Easter break.]	29-03	[Easter break.]
02-04	HW assignment review.	04-04	HW assignment review.	05-04	HW assignment review.

TP1 (Tue)	P2, P1, P3 (Thu)	P4 (Fri)	
09-04 (TP7) CI cycle.	11-04 Lab 7: Complementary test tools (Test Containers, DbUnit, RestAssure)	12-04	Lab 7
16-04 (TP8) Project kick-off.	18-04 Project Iter. 1	19-04	Project Iter. 1
23-04 (TP9) Tests and business continuity.	25-04 [Public holiday.] Project Iter. 2 – no classes.	26-04	Project Iter. 2
30-04 [Academic week.]	02-05 [Academic week.]	03-05	[Academic week.]
07-05 (TP10) Code reviews.	09-05 Project Iter. 3	10-05	Project Iter. 3
14-05 (TP10) Software Quality models. SQA and the Software Development Lifecycle.	16-05 Project Iter. 4	17-05	Project Iter. 4
21-05 (TP11) Testing for non-functional qualities. Performance testing.	23-05 Project Iter. 5	24-05	Project Iter. 5
28-05 Testing AI. AI-assisted testing. [t.b.c.]	30-05 [Public holiday.]	31-05	Project presentation.
04-06 Review questions for the exam.	Project presentation: to be scheduled. 5/6?		

- [Semester calendar](#)