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| 2017-FPTU-L-01 | **KẾ HOẠCH TRIỂN KHAI HỌC PHẦN**  PLAN OF COURSE IMPLEMENTATION |

DANANG CAMPUS

**Tên học phần/***Course name: SWT301 – Kiểm thử phần mềm / Software Testing*  
Course name

1. **Thời gian triển khai: Học kỳ: FA 2024 từ 04/09/2024 đến 08/11/2024**

*Duration: Fall from 04/9/2024 to 08/11/2024*

1. **Số lớp triển khai/***Number of classes : 2*
2. **Đề cương triển khai:** <nêu tên, link syllabus triển khai trên LMS>

*Implement in accordance with Syllabus: <name of syllabus and link to LMS>*

1. **Danh sách Giảng viên triển khai học phần/** *List of Classes and Lecturers:*

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| STT  *No.* | Tên giảng viên  *Lecturer* | STT  *No.* | Tên giảng viên  *Lecturer* |
| 1 | SE18B06 - Lê Thị Bích Tra | 4 |  |
| 2 | SE17B04 - Lê Thị Bích Tra | 5 |  |
| 3 |  | 6 |  |

1. **Danh sách giảng viên hỗ trợ, trợ giảng, khách mời (nếu có),**

*Supporting Lecturers, assistants, guest speakers (if any)*

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| STT  No. | Họ và tên  Full name | Vai trò  Role | Nội dung  Content | Thời lượng  Duration | Thời gian  Time | Số lớp  No of Class | Kinh phí  Budget |
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1. **Các hoạt động phát sinh:***Addtional Activities:*

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| STT  No. | Họ và tên  Full name | Mục tiêu  Target | | Thời lượng  Duration | Thời gian  Time | Số lớp  No of Class | Kinh phí  Budget |
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1. **Tài liệu tham khảo bổ sung/***AdditionalReferences:*

**‘**

* Foundations of Software Testing: ISTQB Certification, Dorothy Graham, ‎ Erik van Veenendaal,‎‎ Rex Black, Cengage Learning, EMEA, 2020, 4th edition
* Software Quality Engineering: Testing, Quality assurance, and Quantifiable Improvement. Jeff Tian
* Agile Testing: A Practical Guide for Testers and Agile Teams, Lisa Crispin, Janet Gregory

1. **Môi trường, công cụ triển khai bổ sung/** *Update Environments and Tools (if any):*
2. Thực hiện giảng dạy hoặc sử dụng trên những website nào:

*Websites for Teaching or Using:*

1. Yêu cầu về công cụ, kỹ thuật đặc thù gì *(cái gì, ở đâu, như thế nào…)*

*Specific Tools and technical required(What? Where? How?, etc.)*

1. Kênh trao đổi thông tin giữa thầy và trò *(kể cả việc nộp bài, cho điểm, nhận xét…)*

*Communication channels among lecturers and students (including submitting assignments, marking, and giving comment)*

***10. Lịch triển khai môn học***

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| *Slot* | *Week* | *Chapter -Topic -Content* | *Assessment* | *Assignment Homework* | *Note* |
| *1* | *Week 1* | Introduction to the Course  **Topic 1. Fundamentals of testing**  1.1 Why is testing necessary?  1.2 What is testing? |  |  |  |
| *2* | 1.3 Testing principles |  |  |  |
| *3* | *Week 2* | 1.4 Fundamental test process  1.5 The psychology of testing |  |  |  |
| *4* | 1.5 The psychology of testing (cont.)  1.6 Codes of ethics |  | *Lab1* |  |
| *5* | *Week 3* | **Topic 2. Testing throughout the software life cycle**  2.1 Software development models  2.2 Test levels |  |  |  |
| *6* | 2.2 Test levels (cont.)  Lab 1 Introduction |  |  |  |
| *7* | *Week 4* | 2.3 Test types: the targets of testing |  |  |  |
| *8* | 2.3 Test types: the targets of testing (cont.)  Guiding Lab 1 (Create Test Plan)  Progress test 1 |  | Progress test 1 |  |
| *9* | *Week 5* | **Topic 3. Static techniques**  3.1 Reviews and the test process  3.2 Review process |  |  |  |
| *10* | 3.3 Static analysis by tools  Lab 1 Assistant  Guiding Lab 2 (Static Analysis by tools) |  |  |  |
| *11* | *Week 6* | **Topic 4. Test design techniques**  4.1 The test development process |  | *Lab2* |  |
| *12* | 4.2 Categories of test design techniques  4.3 Specification-based or black-box techniques  Lab 2 Assistant |  |  |  |
| *13* | *Week 7* | Automation Test Tool  (Use tools: NUnit, JUnit, Selenium... )  Defect Management System: Mantis, bugzilla,… |  |  |  |
| *14* | Automation Test Tool (Use tools: NUnit, JUnit, Selenium .. ) Defect Management System: Mantis, bugzilla,… (cont.) |  |  |  |
| *15* | *Week 8* | 4.4 Structure-based or white-box techniques 4.5 Experience-based techniques  4.6 Choosing a test technique  Guiding Lab 3 (Unit Test) |  | Lab 3 |  |
| *16* | Progress Test 2 |  | Progress Test 2 |  |
| *17* | *Week 9* | **Topic 5. Test management** 5.1 Test organization 5.2 Test plans, estimates, and strategies  5.3 Test progress monitoring and control |  |  |  |
| *18* | Lab 3 Assistant Review Problems  5.4 Configuration management 5.5 Risk and testing 5.6 Incident management  Guiding Lab 4 (Integration Test or System Test) |  | Lab 4 |  |
| *19* | *Week 10* | **Topic 6. Tool support for testing** 6.1 Types of test tool 6.2 Effective use of tools: Potential benefits and risks  6.3 Introducing a tool into an organization  Lab 4 Assistant |  | Progress Test 3 |  |
| *20* | **Topic 7. ISTQB Foundation Exam** 7.1 Preparing for the exam 7.2 Taking the exam  7.3 Mock exam  **Topic 8. Agile Testing** 8.1 The fundamentals of Agile software development  8.2 Aspects of Agile approaches  8.3 Mostly used Agile Methods  8.4 Fundamental Agile Testing Principles, Practice and Processes  8.5 Agile Testing Methods, Techniques and Tools  Review |  | Presentation |  |

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| Người phê duyệt/*Approver*  *GĐCS/Campus’s Director* | Người kiểm tra/*Reviewer*  *TBĐT/Head of Academic Affairs Board)* | Người lập/*Creator*  *CNBM/Head of department* |
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| Họ tên/*Name:*  Ngày/*Date:* | Họ tên/*Name:*  Ngày/*Date:* | Họ tên/*Name: Lê Thị Bích Tra*  Ngày/*Date: 02/9/2024* |