**Software Testing**

**Project’s Listings**

**Topic 1 (Agile Software Development and Testing) (Pham Minh Tuan)**

**Highlight the Importance of Agile Software Development and Agile Testing. Explore different Agile Testing Techniques. Highlight every technique significance and elaborate Agile Testing Lifecycle.**

**Case Study: Suppose your company is a App Development Company…How you apply Agile Testing Life Cycle in Development and How you prepare Test Cases and How you perform Agile Testing for Error Reporting and Analysis.**

**Topic 2 White Box Testing based ERP Solution (Pham Thi Thanh Thuy)**

**Highlight the Importance of White Box Testing. Explain all Techniques and How you will apply White Box Testing for Checking a Website based on ERP concept?**

**Case Study: Take a website-based ERP Solution, apply White Box testing, write test cases for testing the website and demonstrate with proper Testing Life Cycle.**

**Topic 3 Network Security Testing (Tran Cong Thanh Tu)**

**: Implement Test Cases and Testing Policies for Testing Network of an Organization.**

**Case Study: Take an Organization network, implement how you will perform Security/Penetration testing to secure the network.**

**Topic 4 Software Quality Assurance in Optimizing Organization’s Testing (Nguyen Anh Quan)**

**: Devise Software Quality Testing in Organization to optimize existing Software Development IN Organization.**

**Case Study: Study an Organization, existing testing framework, and deploy an Optimized Quality Assurance Technique to Optimize the Testing.**

**Topic 5: Product (Name of Product) Inspection & Review Analysis (Phan Cong Nam)**

**Elaborate Inspection Techniques in Testing? How Inspection is formulated in Organization?**

**Case Study: Take an example of Organization with finished Project----Website/App/Electronic Product/Any hardware? So how you will inspect, how you will design test cases and how to perform testing procedures to detect errors to make the Product proper before launch in Market?**

**Topic 6: Test Report of \_\_\_\_\_\_ (Tran Minh Thu)**

**Elaborate Testing Reports? How Testing Report is Made—Elaborate with Components?**

**Case Study--- Any Organization with Product—Almost Finished Stage, How you will inspect the Product, Make the test Case, Implement the Testing and make the complete Testing Report…**

**Topic 7: Web Testing (Ton That Binh)**

**Elaborate Web Testing? How it is crucial? Enlist the challenges and better scope for the improvement and how to perform well in real time?**

**Case Study—Take any website, and highlight how to perform web testing to maintain integrity and security for Non-Hack in Website or Web Servers?**

**Topic 8: Cloud Computing Services (Nguyen Van Khanh)**

**Elaborate Testing in Cloud? How cloud computing solution will be tested?**

**Case Study--- Take any Project on Cloud, and highlight the procedure to perform testing in Cloud Environments?**

**Topic 9: Software Testing Life Cycle (vo dinh hieu)**

**Elaborate STLC, Imagine the world of testing using STLC?**

**Case Study: Take any Product, service, or Software or Application elaborate how that particular thing will be tested by using STLC**

**Rules**

* 1 Team Member per Project
* A Report of 50 Pages
* Report Highlights
  + Introduction- 10 Pages
  + Details of the topic: 15 Pages
  + Diagrams- Min 3, Max: 5
  + Steps, Concepts, Framework and Example: 5 Pages
  + Case Study- 15 Pages
* Every Report must have a Live Case Study- A Team can make a Dummy Company and apply the report topic with regard to that company’s operations with regard to Software Project Management.
* Conclusion, Analysis and References- 5pages

Important Points:

* Proper Title Page
* Table of Contents
* Acknowledgement
* Text should be justified
* Font: Headings-Capital, Times New Roman- 14 Point, Text- Normal- Times new roman- 12 point
* Every page must have header and footer- Header containing the title and footer containing names of the team members and page number
* Every page must have a Border- Standard A4 Size.
* **THE TEXT SHOULD BE IN PROPER FORMAT, SPACING AND SHOULD BE JUSTIFIED.**
* 1 Print Copy to be Submitted- Per Team on specified Date.
* The Soft Copy to the emailed to: [anandnayyar@duytan.edu.vn](mailto:anandnayyar@duytan.edu.vn)
* Report must contain some Tabular Representations.