

Department of Computer Engineering



Approved by AICTE New Delhi, Recognized by the Government of Maharashtra
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Accredited by NAAC with A grade

Academic Year : 2023-24

SUBJECT: **Software Testing and Quality Assurance**

CLASS: BE-B

SEMESTER: I

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Roll No: 76

TOPIC: SOFTWARE TESTING

WEBSITE URL REFERRED: <https://www.digimat.in/nptel/courses/video/106105150/L02.html>

Summary/Abstract/Review:

The purpose of Levels of testing is to make software testing structured/efficient and easily find all possible test cases/test scenarios at a particular level. In the SDLC model, there are personalized phases such as requirement meeting, analysis, coding, design, execution, testing, and deployment. These all phases go through the process of levels of testing in software testing.

There are many different testing levels that are used or help to check actions and performance for software testing. These testing levels are designed for missing areas and re-coded and re-linked between the development lifecycle states.

In general, mainly four levels of testing in software testing: Unit Testing, System Testing, Integration Testing, and Acceptance Testing.

- Unit Testing
- Integration Testing
- System Testing
- Acceptance Testing

Unit testing is also the first level of functional testing. The primary goal of unit testing is to validate the performance of unit components.

Integration testing means combining different software modules and phases and testing as a group to make sure that the integrated system is ready for system testing or not, and there are many ways to test how different components of the system function at their interface.

System testing is allowed to check the system's compliance as per the requirements and all the components of the software are tested as a whole in order to ensure that the overall product meets the requirements specified. It involves load, reliability, performance, and security testing.

acceptance testing is to evaluate whether the system complies with the end-user requirements and if it is ready for deployment.

Name & Sign of Subject In-charge: