



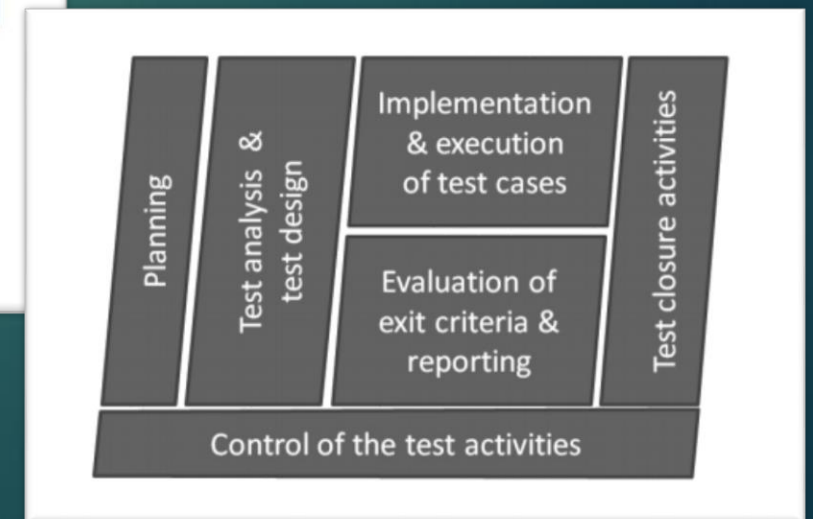
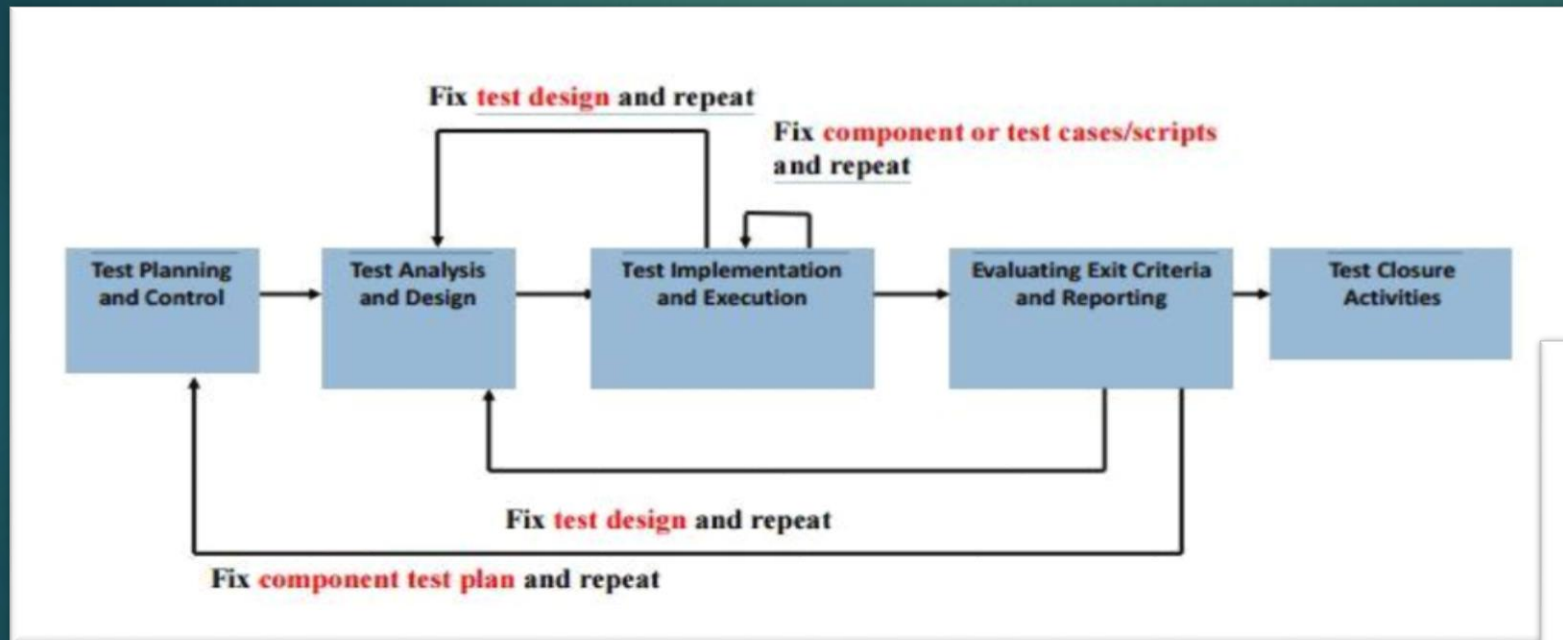
Software Quality Assurance & Testing

TOPIC2: LECTURE 3

Test Process

There is no one universal software test process but there are common sets of test activities.

- ▶ Common five stages of the fundamental test activities



a) Test planning and control

- ▶ Test planning is the activity of verifying the mission of testing, defining the objectives of testing and the specification of test activities in order to meet the objectives and mission .
- ▶ It involves **taking actions** necessary to **meet the mission and objectives** of the project. In order to **control testing**, it **should be monitored** throughout the project .Test planning takes into account the feedback from monitoring and control activities.

b) Test analysis and design

▶ b) Test analysis and design

Test analysis and design is the activity where general testing objectives are transformed into tangible test conditions and test cases.

Test analysis and design has the following major tasks:

- ❑ Reviewing the test basis (such as requirements, architecture, design, interfaces).
- ❑ Evaluating testability of the test basis and test objects.
- ❑ Identifying and prioritizing test conditions based on analysis of test items, the specification, behavior and structure.
- ❑ Designing and prioritizing test cases.
- ❑ Identifying necessary test data to support the test conditions and test cases.
- ❑ Designing the test environment set-up and identifying any required infrastructure and tools.