



Computer Science Paper X
Software Testing Tools
[SECC-I]

Semester: VI	Credits: 2	Subject Code: BS62210	Lectures: 36
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Course Outcomes:
At the end of this course, the learner will be able to:
<ul style="list-style-type: none">● Learn various software testing methods and strategies.● Understand a variety of software metrics and identify defects and managing those defects for improvement in quality for given software● Design test cases and test plans, review reports of testing for qualitative software● Use latest testing tools used in the software industries.

Unit 1: Introduction to Test case design	4
<ul style="list-style-type: none">● How to identify errors, bugs in the given application● Design entry and exit criteria for test case, design test cases in Excel● Describe features of a testing method used	

Unit 2: Test cases for simple programs	4
<ul style="list-style-type: none">● Write simple programs make use of loops and control structures.● Write Test Cases for above programs.	

Unit 3: Test cases and Test plan	4
<ul style="list-style-type: none">● Write Test Plan for given application with resources required.● Write Test case for given application.● Prepare Test report for test cases executed.	

Unit 4: Defect Report and Testing Tools	6
<ul style="list-style-type: none">● Defects<ul style="list-style-type: none">○ Defect Life Cycle○ Classification of Defect○ Write Defect Report○ Testing Tools● How to make use of Automation Tools<ul style="list-style-type: none">○ Types of Testing Tools.	

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Unit 5: Practical Assignments	18
<ul style="list-style-type: none"> Demonstration of assignments on testing using any open-source testing tool 	

Recommended Basic Reading:
<ul style="list-style-type: none"> Rex Black, <i>Managing the Testing Process: Practical Tools and Techniques for Managing Hardware and Software Testing</i>, Microsoft Press, 1999 Roger S. Pressman, <i>Software Engineering – A Practitioners Approach 7th Edition</i>, Tata McGraw Hill, 20 Srinivasan Desikan, Gopaldaswamy Ramesh, <i>Software Testing Principles and Practices</i>, Pearson. William E Perry, <i>Effective Methods of Software Testing</i>, 3rd Edition, Wiley Publishing Inc.

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