



**STANLEY**  
**COLLEGE OF ENGINEERING & TECHNOLOGY FOR WOMEN**  
( Approved by AICTE , New Delhi | Affiliated to Osmania University ,Hyderabad)  
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**SE-561**

## **SOFTWARE QUALITY & TESTING**

### **UNIT-I**

Software Quality, Quality Management, Software Quality Metrics, Product Quality Metrics, In Process Quality Maintenance, Examples.

### **UNIT - II**

Quality tools in Software Development, Seven Basic Tools, Check List, Pareto Diagram, Histogram, Run Charts, Scatter Diagram, Control Chart, Cause and Effect Diagram, Defect Removal, Effect Removal Effectiveness, Quality Planning, Cost Effectiveness of Phase Effect Removal.

### **UNIT - III**

Software Testing Background, Software Development Process, Realities of Software Testing, Examining the Specification, Testing the Software with Blinders on Examining the Code, Testing the Software with X-ray.

### **UNIT - IV**

Configuration Testing, Compatibility Testing, Usability Testing, Testing the Documentation, Website Testing, Automated Testing and Test Tools Bug Bashes and Beta Testing.

### **UNIT - V**

Planning Your Test Effort, Writing and Tracking Test Cases, Reporting Measuring SQA.

### **Suggested Reading:**

1. Stephen H. Khan, "*Metrics and Models in Software Quality Engineering*", Pearson Education, India, 1995.
2. Ron Patton, "*Software Testing*", Sams Publishing, 2001.
3. Boris Beizer, "*Software Testing Techniques*", Sams Publishing, 2001.
4. Allan Gilles, "*Software Quality Theory And Management*", Thomson International Press, 1997.