

Week-1	Testing Techniques, Black Box Testing Technique
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Course Outline

Course Title:	Software Testing	Course Code:	509
Credit Hours:	3+0	Prerequisites:	None
Course Instructor:	Waheed Javed		
Teaching Methodology: Lectures, Assignments, Quizzes, labs, Projects, Presentations, etc. Major component of the course should be covered using conventional lectures			
Course Assessment: At least 02 assignments (01 assignment before mid exam and 01 before final exam) At least 02 quizzes (01 quiz before mid exam and 01 before final exam) Mid-semester examination (Conducted after 7 weeks)			
Course Learning Outcomes (CLO's)			
The goal of a software testing course is to equip students with the knowledge and skills needed to ensure that software products meet high-quality standards and are reliable, secure, and effective.			
Week-2	White Box Testing and Grey Box Testing Techniques		
Week-3	Quality Assurance Planning and Execution		
Week-4	Automated Testing Topics include constructing a framework		
Week-5	Scripting Techniques,		
Week -6	Generating a Test Data		
Week-7	Mid-Term Examination		
Week-8	Generating Test Architecture		
Week-9	Pre/Post Processing		
Week-10	Test Maintenance and Job Specific Metrics		
Week-11	Current research in Software Testing and Quality Assurance		
Week-12	Revision		
Week-13	Revision		
Week-14	Final term examination		
Recommended Books & Readings:			
1. <i>Software Quality Assurance: Integrating Testing, Security, and Audit</i> (Internal Audit and IT Audit), Abu Sayed Mahfuz, Auerbach Publications, 2016. 2. <i>Practical Model-Based Testing: A Tools Approach</i> , Mark Utting and Bruno Legeard, Morgan Kaufmann Publishers Inc., San Francisco, CA, 2006. 3. <i>Software Quality Engineering, Testing, Quality Assurance, and Quantifiable improvements</i> , Jeff Tian, IEEE Computer Society, 2005. 4. <i>Introduction to Software Engineering</i> , P Ammann and J Offutt, Cambridge University Press, 2008.			