



Information Systems Department

Course Syllabus

IS435 – Software Quality and Testing

Catalog Description: This course introduces to the students, Software Quality, Quality Assurance during all the Stages of Software Development Process, Quality Standard Systems used in the Field of Software Industry and Information Systems, Different Types of Testing Techniques.

Credit Hours: 3 Credit hours: 3 Lectures per week 0 Labs. per week 0 Recitation per week

Prerequisites: IS335, IS336

Course Learning Outcomes:

1. Describe software testing and quality assurance as a fundamental component of software life cycle
2. Define the scope of SWT & QA projects
3. Apply T&QA activities using modern software tools
4. Estimate cost of a T&QA project and manage budgets
5. Prepare test plans and schedules for a T&QA project
6. Develop T&QA project staffing requirements
7. Operate a T&QA project
8. Work effectively in groups and exercise leadership when appropriate
9. Communicate effectively in oral and written form

Major Topics:

- Introduction to Software Quality
- Quality Assurance during all the Stages Of Software Development Process
- Quality Standard Systems used in the Field of Software Industry and Information Systems
- Different Types of Testing Techniques
- Project Discussions



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Text Books: Software Testing and Quality Assurance: Theory and Practice 1st Edition by Kshirasagar Naik , Priyadarshi Tripathy , ISBN-13: 978-0471789116, ISBN-10: 0471789119.

Grading: © The grading scale for this course is:

- 95 - 100 A+ Passing
- 90 - 94 A Passing
- 85 - 89 B+ Passing
- 80 - 84 B Passing
- 75 - 79 C+ Passing
- 70 - 74 C Passing
- 65 - 69 D+ Passing
- 60 - 64 D Passing
- 0 - 59 F Failing

© Final grades will be determined based on the following components:

- . 60% Semester Work
- . 40% Final Exam

© Students may not do any additional work for extra credit nor resubmit any graded activity to raise a final grade.

© Late submissions will not be accepted for any graded activity for any reason.

© Students have one week to request the re-grading of any semester work.

Attendance Policy: Students should attend 80% of the overall course hours taught in the semester as per the University regulations.

If a student fails to achieve this portion, he/she shall not be allowed to appear in the final exam and shall be awarded “DN” grade and repeat the course.

Cheating and Plagiarism Policy: The instructor will use several manual and automated means to detect cheating and/or plagiarism in any work submitted by students for this course.

When a student is suspected of cheating or plagiarism, the instructor raises the issue to the disciplinary committee.



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Communications: Registered students will be given access to a section of the Learning Management System (LMS) for this course. LMS will be used as the primary mechanism to disseminate course information, including announcements, lecture slides, assignments, and grades.

Communication with the instructor on issues relating to the individual student should be conducted using CIS email, via telephone, or in person.