**SE401: Software Quality Assurance & Testing**

**Test Plan and Specification**

# Objective

The objective of this activity is to develop a *Test Plan* and a *Functional Test Specification* based on a *Software Requirements Specification* (SRS) of the software product. The goal is to adequately test the implementation provided to reveal as many defects as you can.

# Files and Documents Provided

For this lab exercise, you are given a software requirements specification (SRS) of a software system to be tested and an implementation of the system.

All files are available in LMS

1. Requirements Specification: Golf Tournament Report SRS.pdf.
2. Implementation: GolfImpl.jar, which includes the following
   1. Source code:

edu.depaul.se433.GolfTournamentReport.java

* 1. Two sample input files:

Input-2007Buick.txt, Input-2009BMW.txt

1. Test plan template
2. Test plan check list

# Deliverables

1. A *Testing Plan* for adequately testing the product. Use the test plan template and check list provided.

1. A *Test Specification for Functional Test*, which consists of a list of specifications of test cases. Each test case specification should include the following:
   * + Name/Identifier
     + Test items (e.g., the class and method being tested)
     + Input specification
     + Output specification
     + External or environmental conditions (optional)
     + Special requirements (optional)
     + Dependencies (optional)

You may divide and organize the test case specifications into sections.

1. Discussion
   1. How do you divide and partition the SRS for the purpose of testing?
   2. What techniques/methods do you use to design the test cases?

All files must be in one of the following formats

* Plain text, including source code and scripts.
* Microsoft Word and Excel
* PDF

The entire deliverable set must be packaged in a single archive file using one of the following formats

* ZIP
* TAR and GZIP (GNU zip)
* JAR