Department of Computing

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BESE-5B

**Lab 8: Gradebook**

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**SE312: Software Construction**

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**GitHub:** <https://github.com/SyedDawoud/University/tree/master/Software%20Construction/Labs>

# Introduction

This lab is about the usage of different frameworks in one application. For this lab, we have to use the spring and hibernate in one application. Hibernate will be for the Database related stuff and spring will be for dependency injections. The main intent is to setup a gradebook, which is a small module for LMS. Gradebook manages the grades for a particular course of a student. For that course, it manages who is the instructor, the grades of the different course materials, and the clos.

# Approach & Analysis

For the lab, we have been provided with the entity classes, DAO and the Hibernate utility. First of all, there is the creation of Business Objects, which will use DAO to interact with the database. BO will interact with DAO and DAO will return the results accordingly. For the querying, HCQL will be used. Spring Beans will be used to set the information.

# Running the Code

This particular code uses the Maven Build Automation to setup the dependencies. If the one has installed maven, simply add this project (with existing resources) and it will run. Maven is the required thing for running this lab.