

## **MC5412 WEB APPLICATION DEVELOPMENT LABORATORY**

### DETAILED SYLLABUS

#### **OBJECTIVES**

- To design applications using J2EE, Struts and Hybernate.
- To develop a web application with n-tier architecture.
- To develop a simple application using Spring MVC.
- To develop a web service using JSON and XML formats.

#### **LIST OF EXPERIMENTS**

1. Develop a car showroom inventory web application with 2-tier architecture. Use JSP and JDBC.
2. Develop a real estate web application with n-tier architecture. Use JSP, Servlets and JDBC. The application should be able to add and search all properties such as rental/own, individual/ apartment and duplex/semi-duplex.
3. Develop a standalone java application or a web application to manage books in an online library, support CURD operations.
4. Develop a simple Spring MVC application that take user input and checks the input using standard validation annotations.
5. Develop a simple database application using Spring JDBC/Struts with CURD functionality.
6. Develop any web application which authenticates Spring LDAP.
7. Design a student identity management web application using struts framework. The application should be able to provide an identity such as student id, access to department assets with department id, access to lab assets with lab id.
8. Create an simple online bookstore using Spring MVC
9. Build an application that uses Spring"s RestTemplate to retrieve a random Spring Boot quotation at <http://gturnquist-quoters.cfapps.io/api/random>
10. Create weather service using spring/struts which will return the temp in JSON format and XML format.