# B. TECH. THIRDYEAR

## Course Code: AMICSE0651

**L TP Credit**

**Course Title: ADVANCED JAVA PROGRAMMING LAB          0 0 2 1**

## List of Experiments

1. Install a database (MySQL or Oracle). Program to illustrate JDBC connectivity. Program for maintaining database by sending queries.
2. Write program to create a demo table employee by using JDBC.
3. Write program to execute and read select query using JDBC.
4. Write a program to insert a record in database using JDBC with the help of PreparedStatement interface.
5. Write a JDBC program to display the details of employees (eno, ename, department, sal) whose department is IT.
6. Write a Program to Update Customer Information.
7. Install TOMCAT web server and APACHE. Access the above developed static web pages for books web site, using these servers by putting the web pages developed.
8. Write a simple servlet that just generates plain text.
9. Write a Program which displays cookie id. HTTP Servlet
10. Write a program that provide the GenericServlet class and its method implementation.
11. Write a HTTP servlet program to display Hello! This is Your First Servlet on browser and also deploy the complete process into the container<web.xml> file.
12. Write a program that takes three input as: User Name, User Password and User Mobile from html form and access these data by using servlet also display these details on browser.
13. Write a servlet program to select the details of an employee (emp id, empname, empadd,empphone) and display on browser in appropriate format.
14. Write a program to add any data on cookies and also access these data from cookies.
15. Write servlet a program to implement the redirection of any request to other resources such as an html file.
16. Create a table which should contain at least the following fields: name, password, email-id, phone number Write a java program/servlet/JSP to connect to that database and extract data from the tables and display them. Insert the details of the users who register with the web site. whenever a new user clicks the submit button in the registration page.
17. Design and implement a simple servlet book query with the help of JDBC & SQL. Create MS Access Database, create on ODBC link, Compile & Execute JAVA JDBC Socket.
18. Design a simple application program using Servlet and Database 1. Simple login form 2. Customer Feedback Form 3. Admission Form 4. Student Mark Sheet
19. Assume four users user1, user2, user3 and user4 having the passwords pwd1, pwd2, pwd3 and pwd4 respectively. Write a servlet for doing the following. Create a Cookie and add these four-user id's and passwords to this Cookie.2. Read the user id and passwords entered in the Login form and authenticate with the values available in the cookies.

20. Write a JSP program to Print current date & time.
21. Write a JSP program for basic arithmetic functions.
22. Write a JSP program to display Strings. *activex*
23. Write a JSP program to show and display at least 3 active control.
24. Write a JSP program to upload file into server.
25. Write a JSP program count no. of visitors on website.
26. Write a JSP program session tracking.
27. Write a JSP program for error handling. → *covered in program 21*
28. Write a JSP program to Demonstrate expression tag. → *covered in program 25*
29. Write a JSP program to retrieve data from HTML into JSP page and display on browser.
-26]
-26] → 30. Write a JSP program to demonstrate JSP implicit object.
-29]
31. Write a JSP program to validate username and password.
32. Write a JSP program to select record from database.
33. Design and develop JSP application to demonstrate 1. JSP Scripting elements 2. JSP Directives 3. JSP Implicit Objects 4. JSP Action tags.
34. Write a JSP which insert the details of the 3 or 4 users who register with the web site by using registration form. Authenticate the user when he submits the login form using the user's name and password from the database. Design and implement a simple shopping cart example with session tracking API.
35. Set up the environment, boot the spring container, and test it with a unit case.
36. Create the First Spring Application using command Prompt and print the value from XML.
37. Create the First Spring Application using eclipse/other framework and print the value from XML.
38. Write the program in spring to inject primitive and string-based values using Constructor Injection.
39. Write the program in spring to inject primitive and string-based values using Setter Injection.
40. Create and use a Spring context to access a bean instance by printing Spring World.
41. Write a program to display Spring annotations.
42. Write a Spring Web application using HTML forms to submit the data to the controller and display a processed result.
43. Write a spring program to implement JDBC framework.
44. Write a program to transform a regular Java class into an entity class with the help of an example.
45. Write the program for Spring Web MVC Framework.
46. Write a program to access static pages along with dynamic pages in Spring MVC Framework.
47. Write a program to handle exceptions in Spring MVC Framework.
48. Write the program for Spring Boot Example.
49. Creating REST Service with Spring Boot.
50. Write a program to inject a collection to bean in spring.
51. Creating a simple Web Application with Spring Boot with JSP.
52. WAP to transform a regular Java class into an entity class.
53. WAP to insert data into database through entities.
54. WAP to search a particular record and fetch it on the console screen.
55. WAP to update the age of a student on the basis of primary key.
56. WAP to delete a data of particular entity using filter.

57. WAP on List data structure as an interface and perform insert and delete elements on the basis of index.
58. WAP on set data structure as an interface and retrieve elements on the basis of index. →HashSet
59. WAP of JPQL to fetch single column from database by using **createQuery()** method.
60. WAP to implement JPA inheritance.