



**MARWADI EDUCATION FOUNDATION'S GROUP OF
INSTITUTIONS GAURIDAD CAMPUS.**
DEPARTMENT OF COMPUTER ENGINEERING & INFORMATION TECHNOLOGY

| Subject Name Subject Code | Semester Branch | Issue Date | Due Date |
|--------------------------------------|--|-------------------------|------------------------|
| Advance Java 2160707 | 6th – C1,C2,C3,D1 (EC1, EC2, EC3, ED1) | 16-December-2019 | 31-January-2020 |

Experiment# 1 Java Networking

Practical Name

- 1 Write an application which will retrieve IP address for given website.
- 2 Write an application which will retrieve the content of the given URL with different web-page related information.
- 3 Write a two – way network based chat application. It will use TCP/IP protocol and it will do communication in serial manner.
- 4 Write an application which will retrieve file from server machine and save that file on client machine. File name will be provided by client.
- 5 Write a client program to send any string from its standard input to the server program. The server program reads the string, finds number of characters and digits and sends it back to client program. Use connection-oriented communication.
- 6 Write a client program to send any string from its standard input to the server program. The server program reads the string, finds number of characters and digits and sends it back to client program. Use connection-less communication.

Prof. Tarannum Bloch
Subject Coordinator,
Department of IT
MEFGI

Prof. Jatin Ambasana
Subject Coordinator,
Department of CE
MEFGI

Prof. Jay Teraiya
Head of Department,
Department of CE
MEFGI

Prof. Krunal Vaghela
Head of Department,
Department of IT
MEFGI



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Experiment# 2 JDBC Programming

- 1 Write down Five Basic steps to establish JDBC connection from Java Application. Also mention sample code for each step.
- 2 Write a JDBC application which will interact with Database and perform the following task.
 - 1) Create Student Table with RollNo, Name, and Address field and insert few records.
 - 2) Using Statement Object display the content of Record.
 - 3) Using Statement Object Insert Two Record.
 - 4) Using Statement Object Update One Record.
 - 5) Using Statement Object Delete One Record.
 - 6) Using Statement Object display the content of Record.
- 3 Write a JDBC application which will interact with Database and perform the following task.
 - 1) Create Student Table with RollNo, Name, and Address field and insert few records.
 - 2) Using PreparedStatement Object display the content of Record.
 - 3) Using PreparedStatement Object Insert Two Record.
 - 4) Using PreparedStatement Object Update One Record.
 - 5) Using PreparedStatement Object Delete One Record.
 - 6) Using PreparedStatement Object display the content of Record.
- 4 Write a JDBC application which will interact with Database and perform the following task.
 - 1) Create a store procedure which will insert one record into employee table.
 - 2) Create a store procedure which will retrieve salary for given employee id.
 - 3) Write a java application which will call the above procedure and display appropriate information on screen.
- 5 Design a JDBC application which will demonstrate Scrollable Result Set functionality.
- 6 Design a JDBC application which will demonstrate Transaction management functionality.

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MEFGI

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Experiment# 3 Servlet

- 1 Write down the Program for testing the Servlet and study deployment descriptor.
- 2 Write down the program for testing the include action for Servlet collaboration.
- 3 Write down the program for testing the forward action for Servlet collaboration.
- 4 Create login form and perform state management using Cookies, hidden form field HttpSession and URL Rewriting.
- 5 Create Servlet file which contains following functions:
 1. Connect
 2. Create Database
 3. Create Table
 4. Insert Records into respective table
 5. Update records of particular table of database
 6. Delete Records from table.
 7. Delete table and also database.
- 6 Write down the Program in which error is handled by the deployment descriptor file (web.xml).
- 7 Implement Authentication filter using filter API.
- 8 Write down the programs for testing the Servlet context and servlet config interfaces.

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Experiment# 4 JSP

- 1 Write down the Program which displays the simple JSP file.
- 2 Write down the program in which input the two numbers in an html file and then display the basic mathematic operations in JSP file.
- 3 Write down the program in which display the error by common file for all general pages.
- 4 Develop JSP program to implement implicit objects.
- 5 Write down the Program for testing the include action tag in JSP.
- 6 Write down the Program for testing the forward action tag.
- 7 Write down a program which demonstrates the core tag of JSTL.
- 8 Write down a program which demonstrates the Format tag of JSTL.
- 9 Write down a program which demonstrates the Function tag of JSTL.
- 10 Write down a program which demonstrates the SQL tag of JSTL.
- 11 Write down a program which demonstrates the XML tag of JSTL.
- 12 Write down a program which demonstrates the Tag Handler with appropriate output.
- 13 Create database of student subject-wise data and retrieve all data using JSP and display all data using JSP. Develop the functionality to sort the results in ascending and descending order.

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Experiment# 5 Hibernate Framework

- 1 Study and implement Hibernate.
- 2 Study and Implement Hibernate Annotations.
- 3 Use Hibernate Query Language to insert, update and delete records in database.

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Experiment# 6 Spring Framework

- 1 Study and Implement MVC using Spring Framework
- 2 Inject Service using Aspect Oriented Programming.
- 3 Using Spring Template manages Database and Transaction.

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Experiment# 7 JSF

- 1 Use JSF Standard Components and Facelets Tags.
- 2 Implement JSF Converter Tag and Validation Tags.

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