MASTER OF COMPUTER APPLICATIONS (MCA_NEW)

MCS-218, MCS-219, MCS-220, MCS-221

MCSL-222, MCSL-223

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THE PEOPLE'S
UNIVERSITY

SCHOOL OF COMPUTER AND INFORMATION SCIENCES
INDIRA GANDHI NATIONAL OPEN UNIVERSITY
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Important Notes

1. Submit your assignments to the Coordinator of your Study Centre on or before the due date.

2. Assignment submission before due dates is compulsory to become eligible for appearing in corresponding Term End Examinations. For further details, please refer to Programme Guide of MCA (2Yrs).

3. To become eligible for appearing the Term End Practical Examination for the lab courses, it is essential to fulfill the minimum attendance requirements as well as submission of assignments (on or before the due date). For further details, please refer to the Programme Guide of MCA (2yrs).

4. The viva voce is compulsory for the assignments. For any course, if a student submitted the assignment and not attended the viva-voce, then the assignment is treated as not successfully completed and would be marked as ZERO.

Course Code	:	**MCSL-222**
Course Title	:	**OOAD and Web Technologies Lab**
Assignment Number	:	**MCA_NEW(II)/L-222/Assign/2025-26**
Maximum Marks	:	**100**
Weightage	:	**30%**
Last date of Submission	:	**31ˢᵗ October, 2025 (For July, 2025 Session)**
		15ᵗʰ April, 2026 (For January, 2026 Session)

Note: This assignment has two sections. Answer all questions in each section. Each Section is of 20 marks. Your Lab Records will carry 40 Marks (20 Marks for each section). Rest 20 marks are for viva voce. You may use illustrations and diagrams to enhance the explanations. You must execute the program and submit the program logic, sample input and output along with the necessary documentation. Assumptions can be made wherever necessary. Please go through the guidelines regarding assignments given in the Programme guide for the format of presentation.

Section 1: OOAD Lab

Q1: Draw Use Case Diagram and Deployment Diagram for Online Shopping System. **(10 Marks)**
Make necessary assumptions required.

Q2: Draw Class Diagram for Online Shopping System. Make necessary assumptions **(10 Marks)**
required.

Section 2: Web Technologies Lab

Q1: Write a program using JDBC and JSP to support editing (address modification, **(10 Marks)**
mobile number/ email id update) of customers of online shopping portal.
The program should take email-id or registered mobile number as input.

Q2: Write a program to create simple CRUD (Create, Read, Update, and Delete) **(10 Marks)**
application using Spring Boot and Hibernate for Online Examination
Registration System. Make necessary assumptions required.