

POST GRADUATE DIPLOMA IN COMPUTER APPLICATIONS PGDCA-(NEW)

PGDCA-NEW/ASSIGN/SEMESTER-II

ASSIGNMENTS

(July – 2025 & January – 2026)

MCS-206, MCS-207, MCS-208, MCSL-209, MCSL-210



**SCHOOL OF COMPUTER AND INFORMATION SCIENCES
INDIRA GANDHI NATIONAL OPEN UNIVERSITY
MAIDAN GARHI, NEW DELHI – 110 068**

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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 PGDCA Programme Guide.
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 PGDCA Programme Guide.
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-209**
Course Title : **Data Structures and Algorithms Lab**
Assignment Number : **PGDCA-NEW(II)/L-209/Assignment/2025-26**
Maximum Marks : **100**
Weightage : **30%**
Last Dates for Submission : **31st October, 2025 (for July session)**
30th April, 2026 (for January session)

There are two questions in this assignment carrying a total of 40 marks. Each question carries 20 marks. Your Lab Record will carry 40 Marks. Rest 20 marks are for viva voce. You may use illustrations and diagrams to enhance the explanations. Please go through the guidelines regarding assignments given in the Programme Guide for the format of presentation.

Question 1: Write an algorithm and program in ‘C’ language to merge two sorted linked lists. The resultant linked list should be sorted. **(20 Marks)**

Question 2: Write an algorithm and a program in ‘C’ language to insert and delete edges in an adjacency list representation of an undirected graph. Make assumptions, if necessary. **(20 Marks)**