

POST GRADUATE DIPLOMA IN COMPUTER APPLICATIONS PGDCA-(NEW)

PGDCA-NEW/ASSIGN/SEMESTER-II

ASSIGNMENTS

(July – 2026 & January – 2027)

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**

CONTENTS

Course Code	Assignment No.	Submission-Schedule		Page No.
		For July-December Session	For January-June Session	
MCS-206	PGDCA(II)/206/Assignment/26-27	31 st October 2026	30 th April, 2027	3
MCS-207	PGDCA(II)/207/Assignment/26-27	31 st October 2026	30 th April, 2027	5
MCS-208	PGDCA(II)/208/Assignment/26-27	31 st October 2026	30 th April, 2027	8
MCSL-209	PGDCA(II)/L-209/Assignment/26-27	31 st October 2026	30 th April, 2027	9
MCSL-210	PGDCA(II)/L-210/Assignment/26-27	31 st October 2026	30 th April, 2027	10

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/2026-27**
Maximum Marks : **100**
Weightage : **30%**
Last Dates for Submission : **31st October, 2026 (for July session)**
30th April, 2027 (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 that accepts a Graph as input (20 Marks) and prints its adjacency matrix and adjacency list.

Question 2: Write an algorithm to list the data fields of the nodes of a Binary tree T by level. (20 Marks)
Within levels, nodes are to be listed left to right.