

BACHELOR OF COMPUTER APPLICATIONS (BCA_NEW)

BCA_NEW /ASSIGN/SEMESTER-III

ASSIGNMENTS

(July, 2025 & January, 2026 Sessions)

MCS-208, MCSL-209, MCS-207, BCS-131, BCSL-135, BCS-040



**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 BCA 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 BCA Programme Guide.

Course Code	:	MCSL-209
Course Title	:	Data Structures and Algorithms Lab
Assignment Number	:	BCA_NEW(III)L-209/Assignment/2025-26
Maximum Marks	:	100
Weightage	:	25%
Last Dates for Submission	:	31st October,2025(For July 2025 Session) 30th April, 2026 (For January 2026 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.

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.