

**MASTER OF SCIENCE
ARTIFICIAL INTELLIGENCE &
MACHINE LEARNING
(MSCAIML)**

MSCAIML/ASSIGN/SEMESTER-I

ASSIGNMENTS

(July – 2026)

**MCS-061, MCS-081, MCS-208, MCS-082, MCSL-209,
MCSL-083**



**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 MSCAIML Programme Guide.
3. To become eligible for appearing in the Term End Practical Examination for the labcourses, 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 MSCAIML 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 : **MSCAIML(I)/L-209/Assign/2026**
-27Maximum Marks : **100**
Weightage : **30%**
Last Date of Submission : **31st October, 2026 (for July 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.

- Q1:** Write an algorithm and program in ‘C’ language that accepts a Graph as input and prints its adjacency matrix and adjacency list.
- Q2:** Write an algorithm to list the data fields of the nodes of a Binary tree T by level. Within levels, nodes are to be listed left to right.