MASTER OF COMPUTER APPLICATIONS (MCA_NEW)

MCA_NEW 1st Semester Assignments

(January, 2026 & July, 2026 sessions)

MCS-211, MCS-212, MCS-213, MCS-214, MCS-215

MCSL-216, MCSL-217

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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. Also, be in touch with concerned IGNOU RC for any updates regarding assignments schedule etc.

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_NEW.

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_NEW.

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-216
Course Title	:	DAA and Web Design Lab
Assignment Number	:	MCA_NEW(I)/L-216/Assign/2026
Maximum Marks	:	100
Weightage	:	30%
Last Dates for Submission	:	30th April 2026 (for January session)
		31st October 2026 (for July session)

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. Please go through the guidelines regarding assignments given in the programme guide for the format of presentation.

Note: 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.

Section-1

Q1: Implement the task scheduling algorithm on your system to minimize the total amount of time spent in the system for the following problem: **(10 Marks)**

- Job   *1   5   2   10*
- Service Time   3   7   4   8

Q2: Implement a recursive binary search algorithm on your system to search for a number 100 in the following array of integers: **(10 Marks)**
10   35   40   45   50   55   60   65   70   100

Show the processes step by step. Also, Draw recursive calls to be made in this problem

Section-2

Q1: Design a form for booking a room in the Hostel through an institutional website

The form should have the following fields:

First Name

Last Name

email

Arrival Date

Departure Date

Country   Select

Payment mode   Debit card   Credit card

○   ○

| Submit | Reset |

- Use Java script to validate all the fields.
- Submit button should enter all the fields 'data to the database.
- Error message should be shown if a text field is left blank.
- Reset button resets all the fields to the blank.
- Design a check box for selecting payment mode.
- Design a drop down list for selecting a country field.