

# **MASTER OF COMPUTER APPLICATIONS (MCA\_NEW)**

## **ASSIGNMENTS OF MCA\_NEW (2Yrs) PROGRAMME SEMESTER-I**

**(January - 2025 & July - 2025)**

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

**MCSL-216, MCSL-217**



**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 Programme Guide of MCA (2Yrs).
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 (2yrs).
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.

<b>Course Code</b>	<b>:</b>	<b>MCSL-217</b>
<b>Course Title</b>	<b>:</b>	<b>Software Engineering Lab</b>
<b>Assignment Number</b>	<b>:</b>	<b>MCA_NEW(I)/217/Assign/2025</b>
<b>Maximum Marks</b>	<b>:</b>	<b>100</b>
<b>Weightage</b>	<b>:</b>	<b>40%</b>
<b>Last Dates for Submission</b>	<b>:</b>	<b>30<sup>th</sup> April 2025 (for January session)</b> <b>31<sup>st</sup> October 2025 (for July session)</b>

**This assignment has one question for 40 marks. Answer this question. Your Lab Records 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.**

**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.**

**Q1:**

ABC is a network of Hospitals. Its having Hospitals across the World. Its possible to take appointment for any Doctor for an available slot on an available date through its website. Its having a Chatbot also. There are many specialities in each of its Hosptitals. However, not all specialities are available across all its Hospitals. Doctors may provide consultancy services in more than one hospital of its network. Its possible to make payment of consultation fee online while taking appointment or directly at hospital prior to consultation. Make assumptions, wherever necessary. Also, list them very clearly.

Now, with reference to the above, answer the following:

- |   |                   |
|---|-------------------|
| (1) List the Entities                             | <b>(10 Marks)</b> |
| (2) For each Entity, list Attributes              | <b>(10 Marks)</b> |
| (3) Define relationships between the Entities     | <b>(10 Marks)</b> |
| (4) Finally, draw the Entity Relationship Diagram | <b>(10 Marks)</b> |