

# **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** : **BCS-131**  
**Course Title** : **Programming in C++**  
**Assignment Number** : **BCA\_NEW(III)-131/Assignment/2025-26**  
**Maximum Marks** : **100**  
**Weightage** : **30%**  
**Last Dates for Submission** : **31<sup>st</sup> October,2025(For July 2025 Session)**  
**30<sup>th</sup> April, 2026 (For January 2026 Session)**

**This assignment has three questions carrying a total of 80 marks. Answer all the questions. Rest 20 marks are for viva-voce. You may use illustrations and diagrams to enhance explanations. Please go through the guidelines regarding assignments given in the Programme Guide for the format of presentation. Wherever required, you may write C++ program and take its output as part of solution**

- Question 1.** What are Virtual Constructor and Virtual Destructor? What are the differences between a Virtual Constructor and a Constructor? What are the differences between a Virtual Destructor and a Destructor? Explain with examples. **(30 Marks)**
- Question 2.** What do you mean by Exception Handling? How is it implemented? What are its advantages and disadvantages? **(30 Marks)**
- Question 3.** What are the C++ header files that support the programs which draw figures? Make assumptions , if necessary. **(20 Marks)**