

# **STUDENT ASSIGNMENTS (SESSION 2025-26)**

## **Certificate of Information Technology (Distance Mode)**

### **Guidelines to submit Assignments**

The students are required to read carefully and follow the instructions given below:

1. Submission of one complete Assignment in each paper of the program is compulsory.
2. Completed Handwritten Assignments on **A4** size papers in a **PDF** format need to be submitted on Google Classroom on or before the due date
3. Write Following details as required on the cover page of each Assignment.

**Roll No.:** .....

**Name of Student.:** .....

**Father's Name.:** .....

**Contact No.:** .....

**Course.:** .....

**Subject Code.:** .....

**Subject Title.:** .....

4. For Assignments Submitted after due date mentioned, a late fee of Rs. 100/- per assignment will be payable through Demand Draft in favor of Jamia Millia Islamia, Payable at New Delhi
5. For ex-students who failed to submit assignments during the course of the program are required to submit Rs. 200/- per assignment payable through Demand Draft in favor of Jamia Millia Islamia, Payable at New Delhi.
6. Please go through your Program Guide carefully for further details.
7. Last Date for Assignment Submission is **30-April-2026**
8. All Students must upload PDF of Assignment in the Correct Folder (Assignment uploaded in Wrong Folder will not be evaluated and marked as ZERO)
9. Name of uploaded PDF (for each assignment) must be your **RollNo** followed by **SubjectCode**.  
**(Example, D25CIT001\_CIT101)**
10. Link to upload Assignments:

<https://drive.google.com/drive/u/1/folders/14O4u5h0e03MlfTK0e8FOKobnwsX430cF>

<b>Course Title:</b>	<b>Fundamentals of Computing</b>	<b>Course Code:</b>	<b>CIT-101</b>
<b>Session:</b>	<b>2025-26</b>	<b>Max. Marks</b>	<b>30</b>

**Note:** Attempt any **three** of the following five questions. All questions carry equal marks.

<b>Q.No.</b>	<b>Question</b>	<b>Marks</b>
1.	a) Define the concept of data and information? b) Convert the following binary number to decimal : 10111101, 1000111,10111011,11101101.	5 5
2.	a) Convert the following decimal number to binary : 128, 72,96,228. b) Draw the block diagram of Computer and explain each block	5 5
3.	a) What are the types of Information and explain each ? b) What is network Topologies? Explain Bus ,Ring, Star Topology?	5 5
4.	a) What are the differences between Object-oriented and Procedure-Oriented Programming? b) What is remote sensing and weather forecasting ?	5 5
5.	a) What is algorithm and explain its characteristics ? b) Explain high -level programming language and its example ?	5 5

<b>Course Title:</b>	<b>Introduction to Computer</b>	<b>Course Code:</b>	<b>CIT-102</b>
<b>Session:</b>	<b>2025-26</b>	<b>Max. Marks</b>	<b>30</b>

**Note:** Attempt any **three** of the following five questions. All questions carry equal marks.

<b>Q.No.</b>	<b>Question</b>	<b>Marks</b>
1.	a) How does a keyboard allow input into the computer? b) What is a joystick ?	5 5
2.	a) How does the Arithmetic Logic Unit do ? b) Name a few popular name of operating systems .	5 5
3.	a) What is software requirement ? b) what is a computer network ?	5 5
4.	a) What is a computer virus ? b) Name the three different classes of antivirus packages .	5 5
5.	a) Discuss the significance of computer maintenance. b) Differentiate among LAN, MAN, WAN .	5 5

<b>Course Title:</b>	<b>PC Application Software(MS Office)</b>	<b>Course Code:</b>	<b>CIT-103</b>
<b>Session:</b>	<b>2025-26</b>	<b>Max. Marks</b>	<b>30</b>

**Note:** Attempt any **three** of the following five questions. All questions carry equal marks.

<b>Q.No.</b>	<b>Question</b>	<b>Marks</b>
<b>1.</b>	<b>a) Explain the features and components of MS Word. You are required to prepare a 20-page project report in MS Word. Explain in detail how you will:</b>  i. Use Styles and Themes for consistent formatting	<b>5</b>

	<p>ii. Generate automatic Table of Contents</p> <p><b>b)</b> Explain the complete procedure of Mail Merge for generating 100 personalized offer letters from an Excel database.</p>	5
2.	<p><b>a)</b> What is <b>MS Excel</b>? Explain the use of formulas and functions. Differentiate between relative and absolute cell referencing with examples. (5 Marks)</p> <p><b>b)</b> Write short notes on the following Excel functions with examples:</p> <p>i. SUM()  ii. IF()  iii. VLOOKUP()  iv. COUNT()  v. AVERAGE()</p>	5
3.	<p><b>a)</b> Explain the features of <b>MS PowerPoint</b>. How do you create a professional presentation using themes, transitions, and animations?</p> <p><b>b)</b> Compare Slide Transitions and Animations with practical scenarios. Explain how poor use of these features affects professional communication.</p>	5
4.	<p><b>a)</b> A college wants to create a database for managing student records (Student_ID, Name, Course, Semester, Marks, Attendance).</p> <p>Explain how you will:</p> <p>i. Design tables with appropriate data types  ii. Define Primary Key and Foreign Key</p> <p><b>b)</b> Write SQL queries in MS Access for the following:</p> <p>i. Display students scoring more than 75 marks.  ii. Count total students in each course (GROUP BY).  iii. Display students sorted by marks in descending order.  iv. Update attendance of a specific student.  v. Delete records where attendance is below 40%.</p>	5
5.	<p><b>a)</b> Explain how cloud-based applications such as <b>Google Docs</b>, <b>Microsoft OneDrive</b>, and <b>Gmail</b> differ from traditional PC-based software. Discuss advantages and limitations.</p>	5

	<b>b)</b> Discuss common cyber threats (Phishing, Malware, Ransomware). Explain preventive measures using antivirus software, firewall, and strong password practices.	
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<b>Course Title:</b>	<b>Internet &amp; Multimedia</b>	<b>Course Code:</b>	<b>CIT 104</b>
<b>Session:</b>	<b>2025-26</b>	<b>Max. Marks</b>	<b>30</b>

**Note:** Attempt any **three** of the following five questions. All questions carry equal marks.

<b>Q.No.</b>	<b>Question</b>	<b>Marks</b>
<b>1.</b>	a) Explain how the Internet works and describe the basic components involved in Internet communication.	<b>5</b>
	b) Discuss Internet addressing and the role of the Domain Name System (DNS).	<b>5</b>
<b>2.</b>	a) Explain different methods of connecting a computer to the Internet.	<b>5</b>
	b) What is HTML? List and briefly explain the commonly used HTML tags used in web page creation.	<b>5</b>
<b>3.</b>	a) Define Interactive Media and Hypermedia with suitable examples.	<b>5</b>
	b) Explain how the World Wide Web (WWW) works and describe the structure of web pages.	<b>5</b>
<b>4.</b>	a) Define Multimedia and explain the components of a multimedia system.	<b>5</b>
	b) Discuss multimedia applications and multimedia hardware used in multimedia systems.	<b>5</b>
<b>5.</b>	a) What is Mobile Computing? Explain its features and advantages.	<b>5</b>
	b) Discuss wireless networking and its importance in modern communication.	<b>5</b>

<b>Course Title:</b>	<b>Computer Programming(C,C++)</b>	<b>Course Code:</b>	<b>CIT-105</b>
<b>Session:</b>	<b>2025-26</b>	<b>Max. Marks</b>	<b>30</b>

**Note:** Attempt any **three** of the following five questions. All questions carry equal marks.

<b>Q.No.</b>	<b>Question</b>	<b>Marks</b>
<b>1.</b>	a) Explain constants, variables, and data types in C. Discuss different types of data types with memory size and range.	<b>5</b>
	b) Explain operators in C: <ul style="list-style-type: none"> <li>i. Arithmetic</li> <li>ii. Relational</li> <li>iii. Logical</li> <li>iv. Bitwise</li> <li>v. Assignment</li> <li>vi. Conditional</li> </ul> With suitable examples.	<b>5</b>

<p><b>2.</b></p>	<p>a) Explain looping statements:</p> <ul style="list-style-type: none"> <li>i. while</li> <li>ii. do-while</li> <li>iii. for</li> </ul> <p>Compare them with suitable examples.</p> <p>b) Explain arrays in C. Discuss:</p> <ul style="list-style-type: none"> <li>i. One-dimensional array</li> <li>ii. Two-dimensional array</li> <li>iii. Character arrays (Strings)</li> </ul>	<p><b>5</b> <b>5</b></p>
<p><b>3.</b></p>	<p>a) What are structures and unions? Compare them with memory representation diagram.</p> <p>b) Explain Inline functions and Function Overloading in C++ with examples.</p>	<p><b>5</b> <b>5</b></p>
<p><b>4.</b></p>	<p>a) What are pointers? Explain declaration, initialization, and dereferencing of pointers.</p> <p>b) Explain string handling functions in C:</p> <ul style="list-style-type: none"> <li>i. strlen()</li> <li>ii. strcpy()</li> <li>iii. strcmp()</li> <li>iv. strcat()</li> </ul>	<p><b>5</b> <b>5</b></p>
<p><b>5.</b></p>	<p>a) Explain constructors and destructors in C++ with example.</p> <p>b) Explain polymorphism:</p> <ul style="list-style-type: none"> <li>i. Compile-time (Function Overloading)</li> <li>ii. Run-time (Function Overriding)</li> </ul>	<p><b>5</b> <b>5</b></p>