

Guru Nanak College, Sri Muktsar Sahib

Session : 2022-23

Name of the Department: Chemistry

## **Training Programme on C and C++ language**

Sponsored by DBT , New Delhi (Under Star College Scheme)

- 1. Name of the Activity Organized:** Training Programme on C and C++ language.
- 2. Date and Venue of the Activity:** 10 March, 2023 – 15 March, 2023, Computer Lab, Guru Nanak College, Sri Muktsar Sahib.
- 3. Name of the Resource Person, Designation and Address:**

*10 March 2023 (Session I and II): Dr. Subhash Chander, Assistant Professor in Computer Science, Punjabi University College, Jaito;*

*11 March 2023 (Session I and II): Dr. Rajiv Kapoor, Assistant Professor in Computer Science, Punjabi University College, Jaito;*

*13 March 2023 (Session I and II): Dr. Manish Kumar Jindal, Professor in Computer Science and Applications, Panjab University Regional Centre, Sri Muktsar Sahib;*

*14 March 2023 (Session I and II): Dr. Mohinder Kumar Jindal, Assistant Professor in Computer Science and Applications, Panjab University Regional Centre, Sri Muktsar Sahib.*

*15 March 2023 (Session I and II): Dr. Subhash Chander, Assistant Professor in Computer Science, Punjabi University College, Jaito*

#### **4. Objectives:**

**10/03/2023**

##### **Session I (Theory):**

- To introduce the students to the basics of C language.
- To make the students familiar with advantages, facts and rules of writing C language.
- To acquaint students with Turbo commands, C program structure and tokens.

##### **Session II (Practical):**

- To be able to write program to write Welcome Note.
- To be able to write program to find sum of numbers.

**11/03/2023**

##### **Session I (Theory):**

- Recapitulation of Basics of C programming.
- To acquaint the students with If, If else and If ladder statements.
- To make the students familiar with switch statements.

**Session II (Practical):**

- To be able to write program to calculate simple interest
- To be able to write program for arranging numbers in ascending order using If statements.
- To be able to write program for arranging numbers in descending order using If statements.
- To be able to write program to find sum of n natural numbers
- To be able to write program to find sum of square of n natural numbers

**13/03/2023**

**Session I (Theory):**

- To acquaint the students with integer and float type data.
- To make the students familiar with modulus operator, Scanf statements and printf statements.
- To introduce the students to loop, while loop and for loop.

**Session II (Practical):**

- To be able to write program for arranging numbers in ascending order using for and while loop.
- To be able to write program for arranging numbers in descending order using for and while loop.

**14/03/2023**

**Session I (Theory):**

- To acquaint the students with operators such as arithmetic, logical and implement operator.

**Session II (Practical):**

- To introduce the students to programs such as mean and median.

**15/03/2023**

**Session I (Theory):**

- To acquaint the students with valid and invalid identifiers.
- To introduce the students to white space characters.
- To make the students familiar with constants and literals.
- To acquaint the students with input and output program.
- To be able to create an online word document.
- To be able to work on spreadsheet.

**Session I (Practical):**

- To be able to write program to find percentage of numbers.
- To be able to create an online word document.
- To be able to work on spreadsheet.

- 5. Number and Details of the Participants/Beneficiaries:** Total 38 students participated in the workshop. Following classes participated: B.Sc.1(N.M) and B.Sc.1(Medical)
- 6. Feedback by students:** Students were satisfied with the workshop.
- 7. Outcome of the Activity:** The workshop helped the students to understand C language and its importance.

**Learning outcomes:**

**10/03/2023**

**Session I (Theory):**

- Students understood basics of C language.
- Students became familiar with advantages, facts and rules of writing C language.
- Students became acquainted with Turbo commands, C program structure and tokens.

**Session II (Practical):**

- Students could write program to write Welcome Note.
- Students could write program to find sum of numbers.

**11/03/2023**

**Session I (Theory):**

- Students could recapitulate basics of C programming.
- Students became acquainted with If, If else and If else ladder statements.
- Students became familiar with switch statements.

**Session II (Practical):**

- Students could write program to calculate simple interest
- Students could write program for arranging numbers in ascending order using If statements.
- Students could write program for arranging numbers in descending order using If statements.
- Students could write program to find sum of n natural numbers
- Students could write program to find sum of square of n natural numbers

**13/03/2023**

**Session I (Theory):**

- Students got acquainted with integer and float type data.

- Students got familiar with modulus operator, Scanf statements and printf statements.
- Students understood while loop and for loop.

**Session II (Practical):**

- Students could write program for arranging numbers in ascending order using for and while loop.
- Students could write program for arranging numbers in descending order using for and while loop.

**14/03/2023**

**Session I (Theory):**

- Students got acquainted with operators such as arithmetic, logical and implement operator.

**Session II (Practical):**

- Students could write programs such as mean and median.

**15/03/2023**

**Session I (Theory):**

- Students got acquainted with valid and invalid identifiers.
- Students understood white space characters.
- Students became familiar with constants and literals.
- Students were able to create an online word document.
- Students were able to work on spreadsheet.

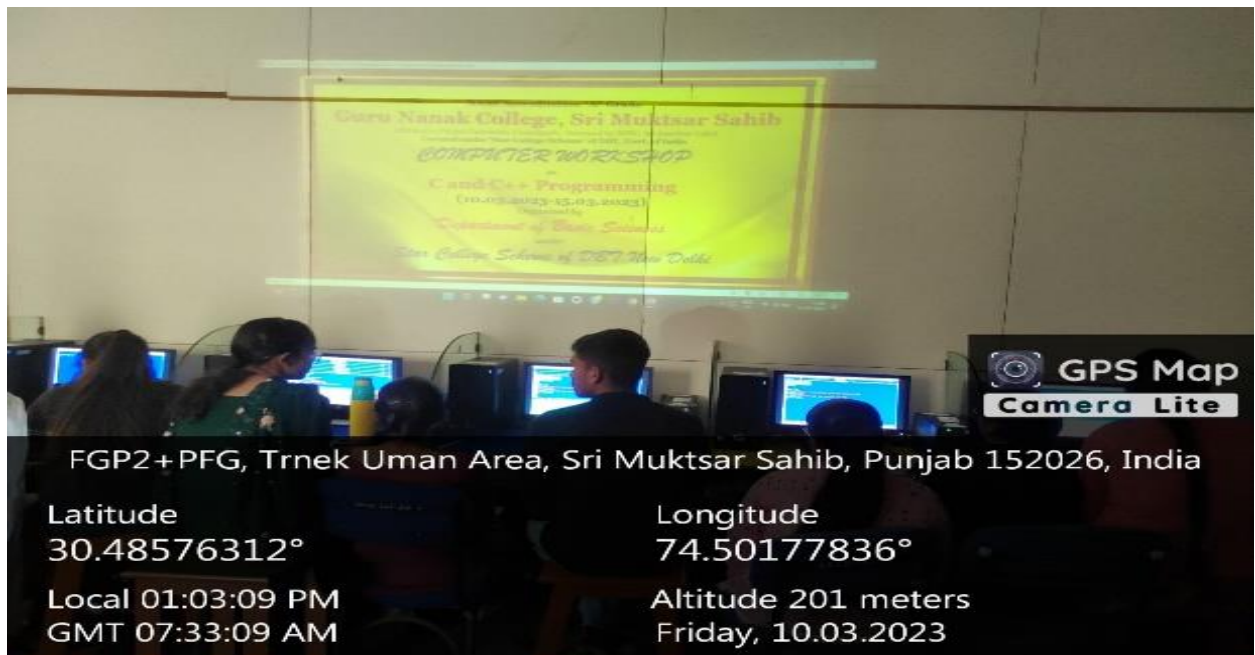
**Session I (Practical):**

- Students could write program to find percentage of numbers.
- Students could create an online word document.

**8. Geo tag photographs:**  
**DAY 1**  
**10/03/23**  
**SESSION I (THEORY)**



**SESSION II (PRACTICAL)**

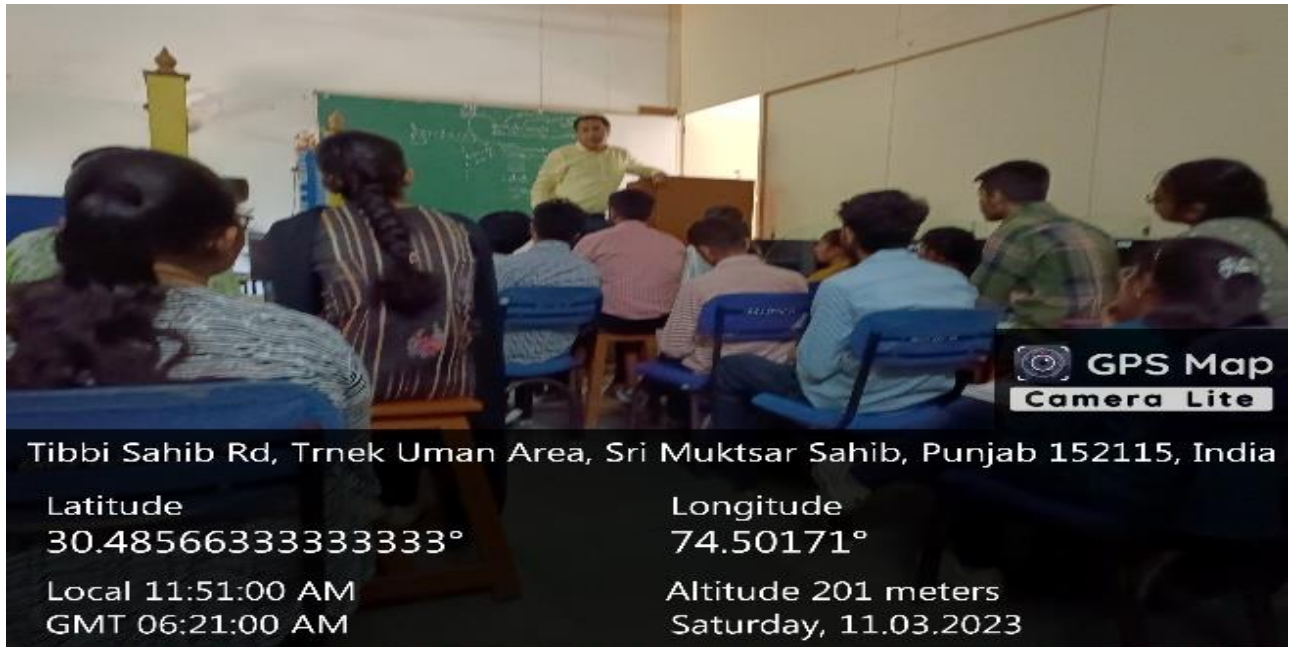




**DAY 2**

**11/03/2023**

**SESSION I (THEORY)**



**SESSION II (PRACTICAL)**

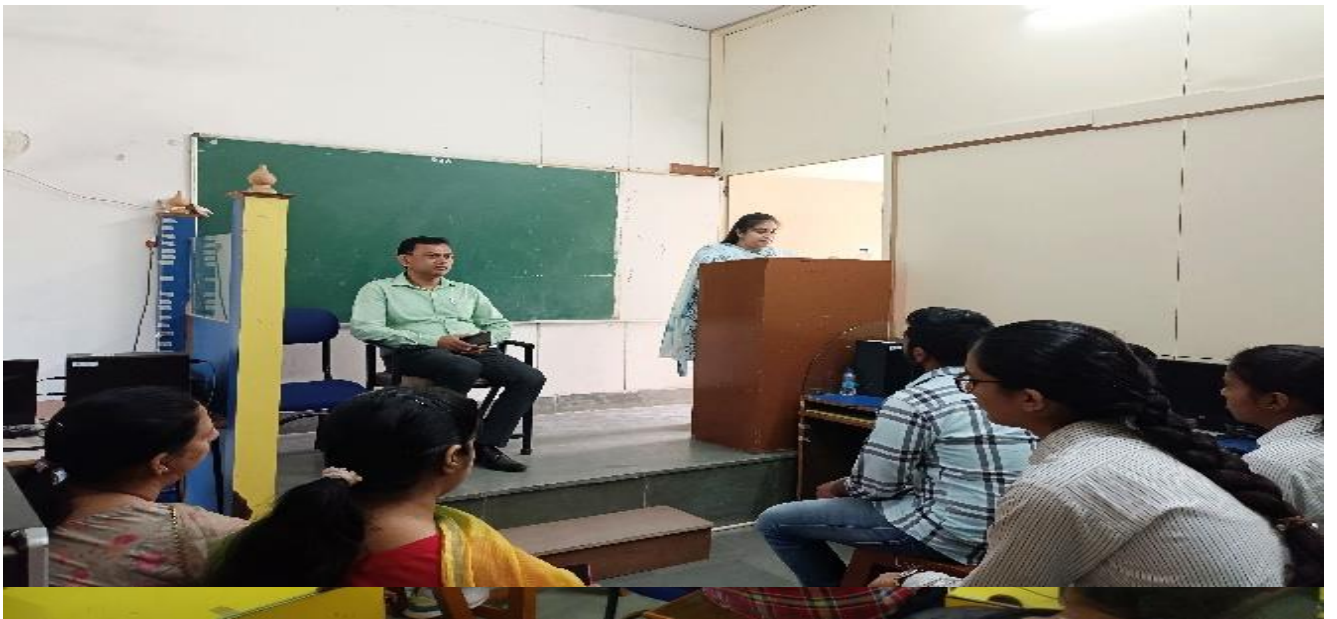


**DAY 3**



13/03/2022

SESSION I (THEORY)



## SESSION II (PRACTICAL)



**DAY 4**

**14/03/2023**

**SESSION I (THEORY)**



**SESSION II (PRACTICAL)**





**DAY 5**

**15/03/2023 Session I (Theory and Practical)**



**9. Members of the Organizing Committee:** Dr. Anita Rani, Ms Kirandish Kaur, Dr. Prabhjeet Kaur, Ms Rajveer Kaur, Ms Sandeep Kaur, Ms Gaganjot Kaur, Ms Muskan Nagpal, Ms Gurwinder Kaur

**10. Name of the Department Coordinator:** Ms. Kirandish Kaur

**Dr. Anita Rani**  
**DBT Program Coordinator**

**Dr. Tejinder Kaur Dhaliwal**  
**Principal**