Innovative Teaching Practice:Seminars/Flipped Classroom

Faculty Name	Ch. Mary
Course Name	Object Oriented Programming Through C++
Academic Year	2023-24
Class	II/I SEM
Topic	Lists, Maps

Objective of the Activity:

A seminar is a group meeting (either face-to-face or online) where a number of students participate at least as actively as the teacher, although the teacher may be responsible for the design of the group experience, such as choosing topics and assigning tasks to individual students.

Involves students studying learning materials at home, while class time is used for interactive, problem-solving activities.

Pre-Class Preparation:

This pre-class preparation will provide students with a foundational understanding of **lists** and **maps** in C++ as part of Object-Oriented Programming (OOP). These data structures are essential in managing and organizing data, and they play a crucial role in real-world software development scenarios.

- Understand the role of **lists** and **maps** in C++ programming.
- Learn how to use C++ Standard Template Library (STL) to manage collections of data.
- Practice implementing and using lists and maps in C++ to solve practical programming problems.

In-Class Activity:

This in-class activity will allow students to apply the concepts of **lists** and **maps** in C++ to solve practical problems. They will work with these data structures in the context of **Object-Oriented Programming (OOP)** to better understand their usage and functionality.

- To practice using **lists** and **maps** in C++ in the context of object-oriented programming.
- To understand the practical applications of these data structures when designing real-world systems.
- To develop problem-solving skills by implementing classes that utilize **lists** and **maps** for data management.

Time Allotted for Activity:

- Pre-class preparation:**50 Minutes**
- In-Class **Activity:30 Minutes**

Images / Screenshot of the practice

Activity on Seminars	

Benefits of practice:

- **Better Understanding:** Group work helps students understand Lists, Mapsby sharing ideas and solving problems together.
- **Hands-On Learning:** Practical coding tasks make learning these concepts easy and practical.
- Improves understanding through active participation and discussion. Enhanced problem-solving and critical thinking skills

Signature of Faculty Member

HOD

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