

Report on Cooperative Learning

Program: MCA

Course: Android Programming

Mode: In-Class Group Activity

Room No: 726

1. Introduction

The objective of the flipped classroom session was to enable students to understand and apply the concepts of Menus in Android programming by engaging them in self-learning, collaborative activities, and practical demonstrations. Here two flip classroom conducted combine for better understanding of the topics.

2. Pre-Activity Preparation

Students were provided with **reference materials, and documentation** on LMS: Menus) , Each group of student was asked to prepare a short example/code snippet demonstrating on Menu types.

3. Activity Procedure

The students are divided in to three Groups they has to prepared presentation on the one of the topic and Present it within group topics are divided in to points and respective group need to clear that point to each student present in the class. One group of students demonstrated simple Option Menu. Another group of student Popup Menu and Theid Group Explain Context Menu. After presentation all group discuss the concepts by cross question answering activity.

4. Student Participation and Engagement

Active participation from all students was observed. Around 40 students attended the session. Most students were able to present practical examples confidently.

5. Learning Outcomes



The flipped classroom approach proved highly effective in achieving the intended learning objectives. The key outcomes observed were:

- Differentiate between Context, Popup and Option Menu.
- used Menus for respective applications.
- Implement of all three types of menus.
- Work collaboratively to build, test, and demonstrate Android apps.

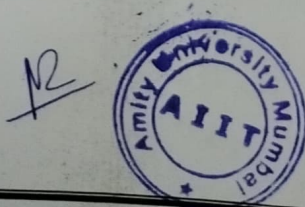
7. Summary

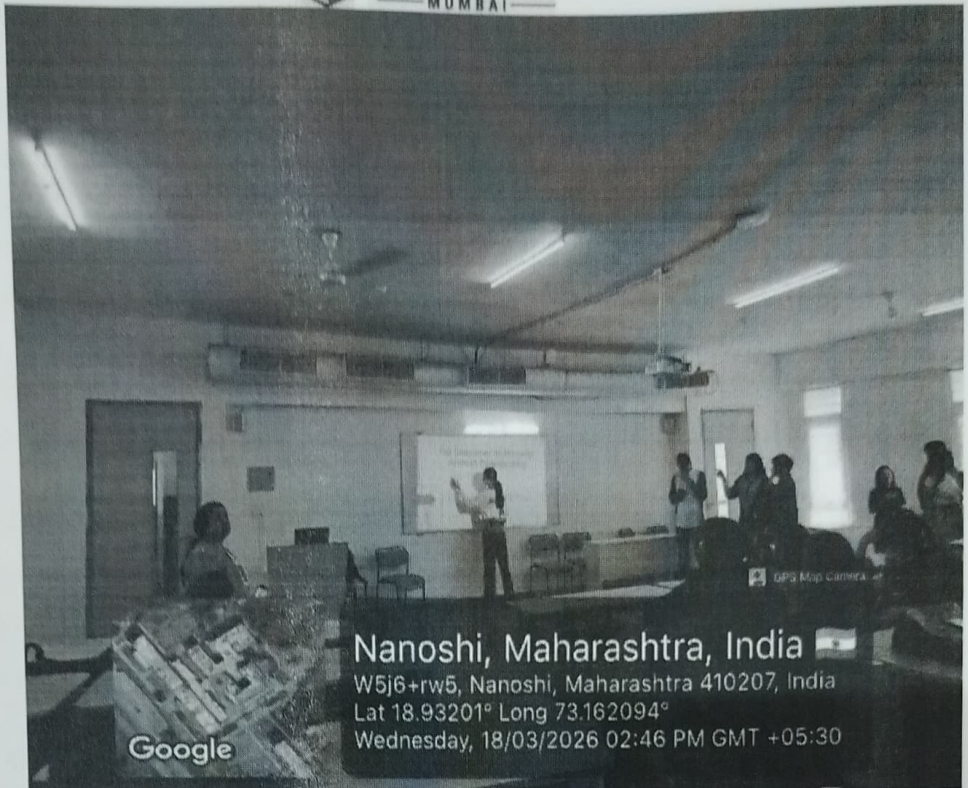
The flipped classroom approach successfully enhanced **concept clarity and practical application** for the topics Menus in Android programming. The session promoted **self-learning, teamwork, and problem-solving skills**, aligning well with the course outcomes of BCA and B.Sc.IT Sem IV.

Glimpses:

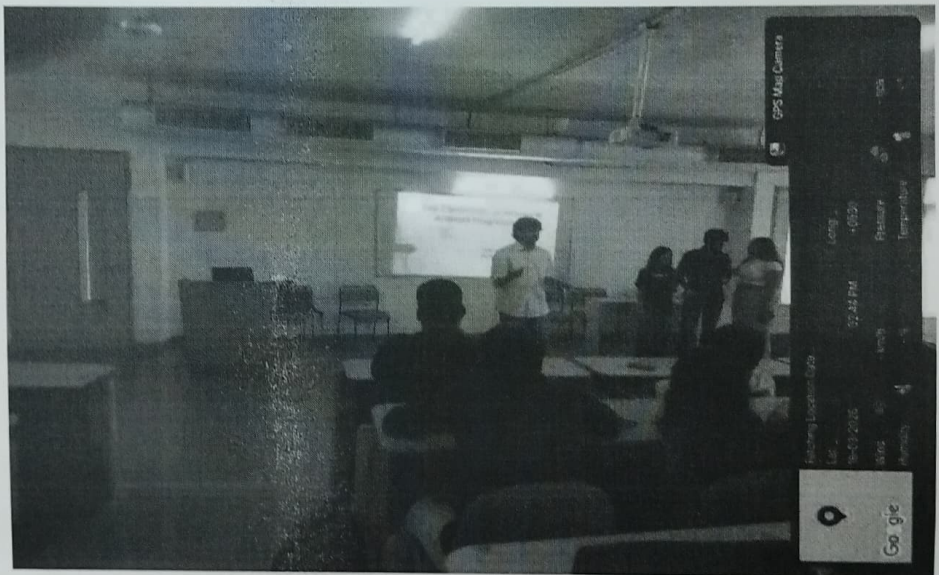


Presenting Topic Option Menu from Group 1





Presenting Topic Context Menu from Group 2



Presenting Topic Popup Menu from Group 3

Question Answering Session under faculty supervision



Report on Flipped Classroom Activity

Program: MCA

Course: Cyber forensic

Mode: In-Class Group Activity

Room No: 725

1. Introduction

The main objective of the flipped classroom was to engage students in active learning on the topic of major **IP Tracing and Snowflake Data Theft Campaign**. The session aimed to:

- Provide students with Basic Knowledge about IP Tracing and Snowflake Data Theft Campaign.
- Basic Commands of IP Tracing .
- Basic concept of Snowflake Data Theft Campaign.

2. Pre-Activity Preparation

Students were provided with reference materials, and documentation on topics on **IP Tracing and Snowflake Data Theft Campaign**. Individual student was asked to prepare a short Presentation for either **IP Tracing and Snowflake Data Theft Campaign**.

3. Activity Procedure

Student Presentations:

Students were individually Prepare presentation and delivered the same.

Comparison Discussion:

Facilitated by the instructor, students engaged in a comparative analysis of **IP Tracing and Snowflake Data Theft Campaign**.

Quiz & Q/A:

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A short quiz was conducted to reinforce learning, followed by Q&A sessions.

4. Student Participation and Engagement

participation from all students was observed. Around 17 students attended the session. Students found the flipped approach effective in understanding practical use cases. Interactive presentations improved their **confidence and communication skills**. The session encouraged **independent learning and collaboration**.

5. Learning Outcomes

The flipped classroom approach proved highly effective in achieving the intended learning objectives. The key outcomes observed were:

- Concept of **IP Tracing**
- Application of **IP Tracing**.
- Practical aspect of IP Tracing.
- Concepts of Snowflake Data Theft Campaign.

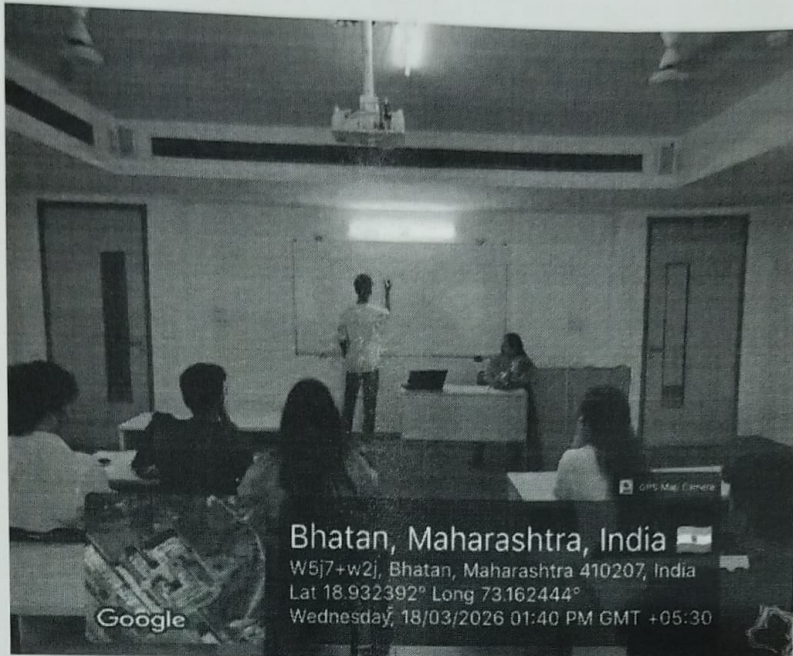
7. Summary

The flipped classroom on **IP Tracing and Snowflake Data Theft Campaign** proved successful in engaging students actively in the learning process. The pre-class preparation combined with in-class collaboration enabled deeper conceptual understanding of **IP Tracing and Snowflake Data Theft Campaign**.

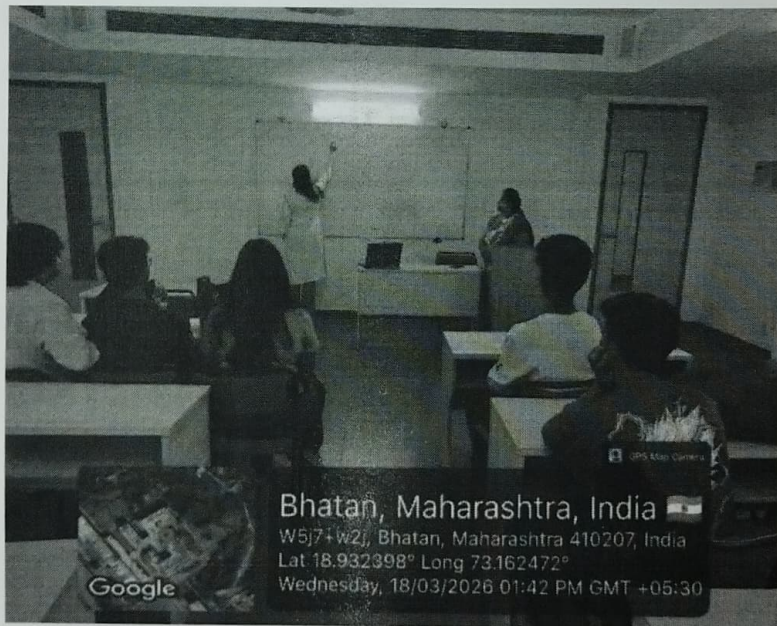
Glimpses:

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Teams to discuss the topics Snowflake



Teams to discuss the topics IP Tracing

M2





Report on Flipped Classroom Activity

Program: MCA

Course: DBMS

Date: 18th March, 2026

Mode: In-Class Group Activity

Room No: 420

1. Introduction

The main objective of the flipped classroom activity was to encourage students to learn foundational concepts of SQL data languages in database systems, specifically **DDL (Data Definition Language)**, **DML (Data Manipulation Language)**, and **DCL (Data Control Language)**, through self-study and collaborative learning. Students were expected to explore the topics prior to class and actively participate in discussions, presentations, and problem-solving activities during the session.

2. Pre-Activity Preparation

Topic 1 – DDL (Data Definition Language) Students were provided with reference materials and documentation on LMS. PPT resources were shared explaining DDL concepts such as database schema creation and modification. Reference books were also provided covering commands like CREATE, ALTER, DROP, TRUNCATE and their applications. Students were instructed to prepare short notes and at least one practical example of table creation.

Topic 2 - DML (Data Manipulation Language) Students were given study materials and examples explaining data manipulation operations such as INSERT, UPDATE, DELETE, and SELECT. They were asked to prepare practical examples demonstrating how data is added, modified, and retrieved from database tables.

Topic 2 - DCL (Data Control Language) Students were provided with reading materials on database security and access control. Concepts like GRANT and REVOKE were explained through PPTs and examples. Students were instructed to understand how permissions are assigned and prepare use-case scenarios.

3. Activity Procedure

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Topic1- DDL: Students presented their understanding of database structure and schema creation using DDL commands. Group activity included designing a simple database (e.g., Student or Employee table) using SQL queries. Some groups demonstrated table creation and modification commands.

Topic2- DML: Students demonstrated how to manipulate data using SQL queries. Group discussions focused on inserting records, updating values, deleting data, and retrieving information using SELECT queries. Practical examples were shared by students.

Topic3- DCL: Individual students explained database security concepts and user privileges. Group discussion included real-world applications of access control in organizations. A short quiz was conducted to assess understanding of permissions, roles, and security mechanisms.

4. Student Participation and Engagement

Active participation from all students was observed. Around 17 students attended the session. Most students were able to confidently explain the concepts of **DDL, DML, and DCL** and demonstrated practical SQL queries effectively.

5. Learning Outcomes

The flipped classroom approach proved highly effective in achieving the intended learning objectives. The key outcomes observed were:

- Students developed self-learning and presentation skills through pre-class preparation
- Improved logical thinking and problem-solving ability by writing SQL queries
- Enhanced understanding of database structure, data manipulation, and access control
- Promoted teamwork and collaborative learning through group activities

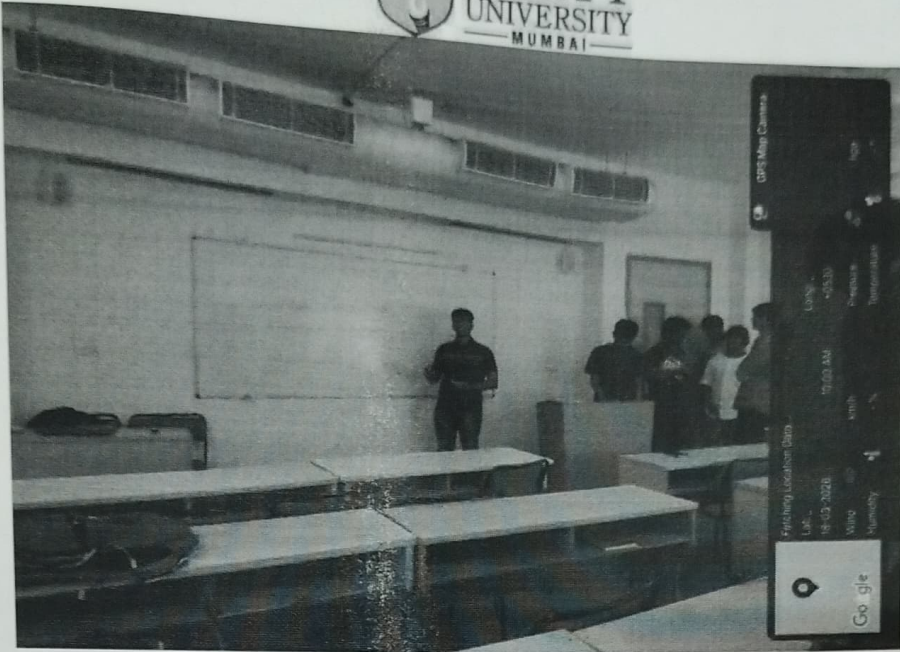
6. Summary

The flipped classroom session conducted on **18th March 2026** for the subject **B.Sc IT Semester II (DBMS)** was successful in achieving active participation and deeper understanding of SQL data languages (DDL, DML, DCL). Students showed enthusiasm and gained practical knowledge of applying SQL commands in real-world database systems.

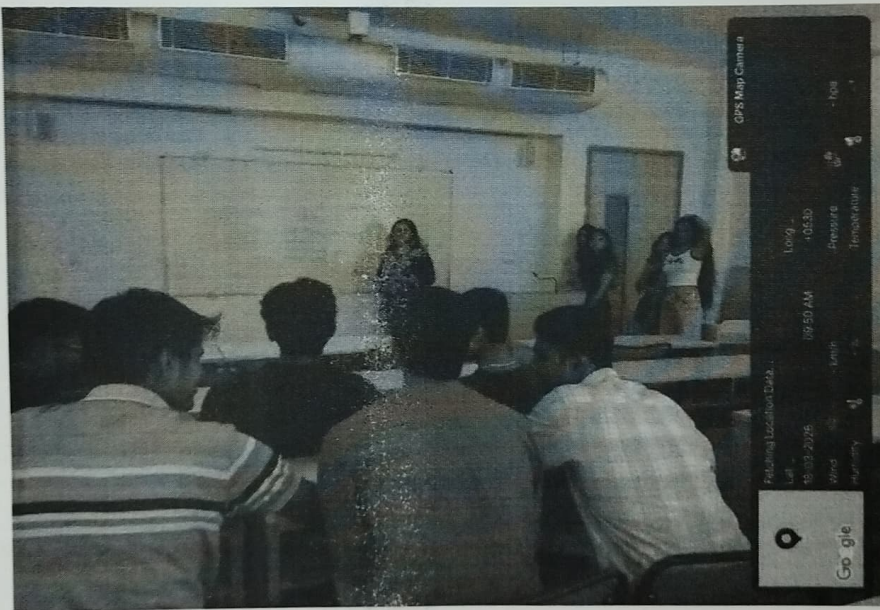
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Team Discussion on DDL



Team Discussion on DML

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