AMITY UNIVERSITY MUMBAI

Report on Collaborative Learning

Program: MCA Semester I

Course: Android Programming

Date: 4th September, 2025

Mode: In-Class Group Activity

Room No: 420

1. **Introduction**

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

2. **Pre-Activity Preparation**

   Students were provided with **reference materials, and documentation** on LMS:Intents in Android (Explicit vs Implicit) , Types of Adapters (ArrayAdapter, BaseAdapter, RecyclerView.Adapter) Each group of student was asked to prepare a short example/code snippet demonstrating either Intents or Adapters.

3. **Activity Procedure**

   The students are divided in to two 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 Android applications using Intents (e.g., navigating between activities, opening the browser, sending SMS). Another group of student set of groups showcased examples of Adapters (ArrayAdapter with ListView, custom Adapter with RecyclerView). After presentation both group discuss the concepts by cross question answering activity.

4. **Student Participation and Engagement**

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Active participation from all students was observed. Around 49 students attended the session.Most students were able to present practical examples confidently.

5. Learning Outcomes

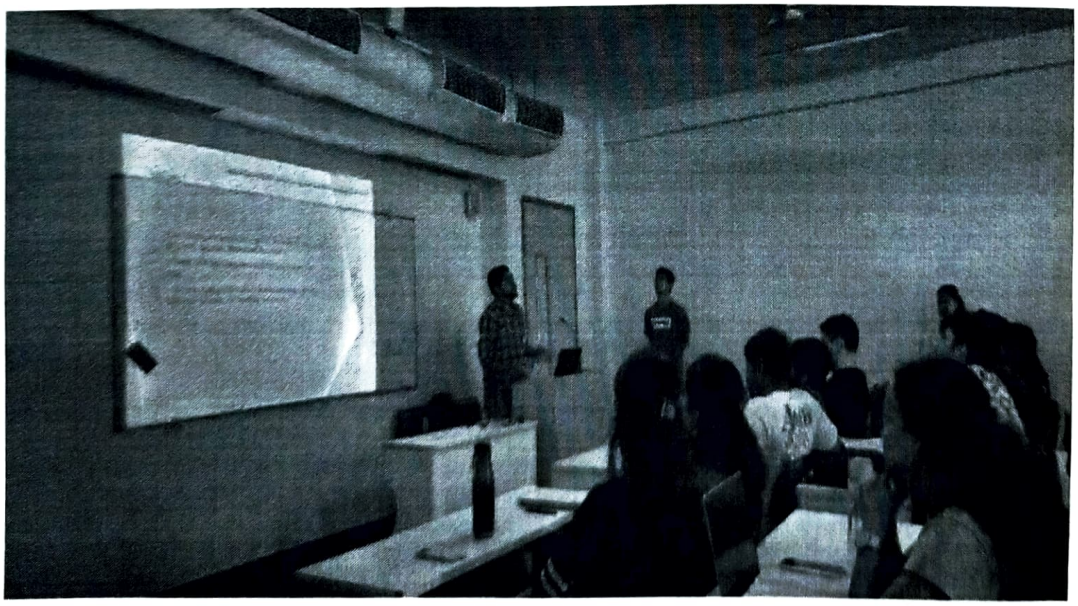
The flipped classroom approach proved highly effective in achieving the intended learning objectives. The key outcomes observed were:

- Differentiate between explicit and implicit Intents.
- Apply Intents to enable activity navigation and inter-app communication.
- Implement ArrayAdapter and RecyclerView.Adapter in simple Android projects.
- Work collaboratively to build, test, and demonstrate Android apps.

7. Summary

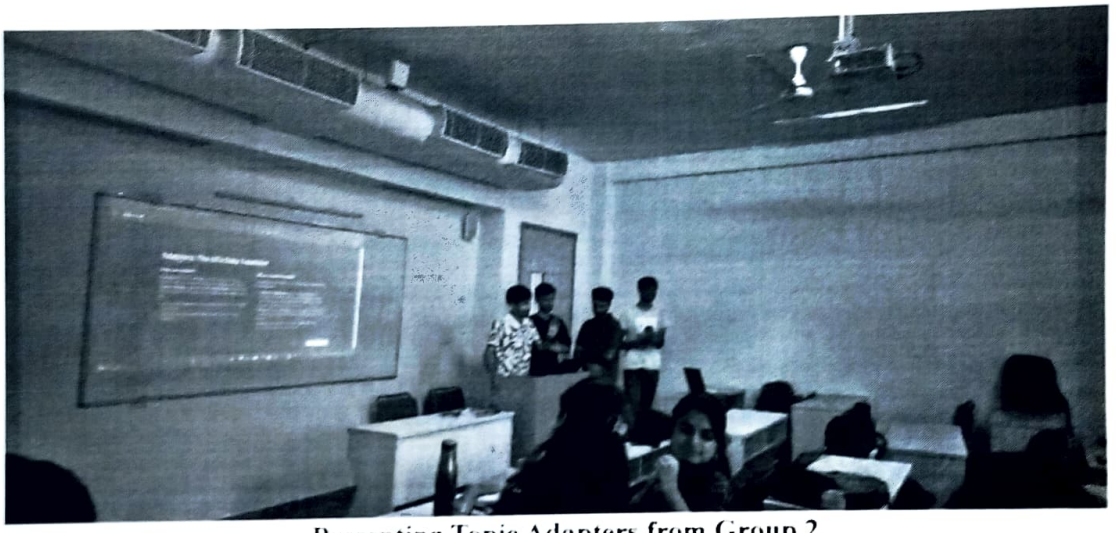
The flipped classroom approach successfully enhanced **concept clarity and practical application** for the topics Intents and Adapters in Android programming. The session promoted **self-learning, teamwork, and problem-solving skills**, aligning well with the course outcomes of MCA Sem I.

Glimpses:



Presenting Topic Intent from Group I

Presenting Topic Intent from Group 1



Presenting Topic Adapters from Group 2

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Question Answering Session under faculty supervision

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