



BHARATIYA VIDYA BHAVAN'S
SARDAR PATEL INSTITUTE OF TECHNOLOGY
MUNSHI NAGAR, ANDHERI (WEST), MUMBAI – 400 058.
(Autonomous Institute Affiliated to University of Mumbai)
MASTER OF COMPUTER APPLICATIONS
Academic Year: 2025– 2026

MC503 – Software Engineering (FYMCA) (Odd Semester)

Innovative Teaching–Learning Practice

Teaching–Learning Technique

Case-Based Reverse Engineering of the RAD Model

Pedagogy: Experiential Learning through Case-Based Learning (CBL)

Objective

To help students understand the Rapid Application Development (RAD) model by analyzing and relating the features of a real-world application to each phase of the software development process.

Activity

Students were instructed to actively use the Uber/Ola mobile application and observe its workflow from user registration to ride completion and payment. While using the application, they completed a guided worksheet by mapping their observations to the corresponding RAD phases. They identified business requirements, data handling, process flow, rapid feature development, and continuous feedback mechanisms. Each group presented and justified how the observed features aligned with the respective RAD phases.

Learning Outcomes

- Related RAD phases to a real-world application.
- Improved analytical and observation skills.
- Enhanced collaborative learning and problem-solving.
- Understood rapid development, reusability, and continuous improvement.

Outcome

The activity promoted active participation and enabled students to connect software engineering concepts with an application they use in everyday life, leading to better understanding and retention of the RAD model.