



Course	Java Programming	Year / Semester	II / II
Topic	JDBC, ODBC Connectivity	Innovative Method Chosen	Flipped Classroom

Flipping the classroom is an inverting the classroom approach to teaching. In this approach, the traditional in-class teaching is "flipped" to better meet the needs of individual learners. Students gain control of the learning process through studying course material outside of class, using readings, pre-recorded video lectures. It helps the faculty/lecturer to redefine in-class activities and include homework problems and keep the students engaged in the content.

Details of the Implementation:

- ↓ **Plan:** JDBC, ODBC Connectivity already learnt in the subject Java Programming and few topics related to JDBC AND ODBC Connectivity is given as self-learning through self-exploration.
- ↓ **Identify and Share:** Related materials are identified and posted relevant references / materials / notes of Java Programming to the students and given as self-learning. The following figure shows the activities / discussion as a team on the self-exploration topics.



Figure: N. Renuka Madhavi (229P1A05B8) Flipped method of TLP

Evaluate:

Faculty have prepared few questions related to the content shared and ask those questions in the class session and make the students to write/present in class. The following figure shows the student **N Renuka Madhavi (219P1A05B8)** plaining the self-explored concepts on JDBC, ODBC Connectivity.

Make the students to find out the answer by their own by learning.

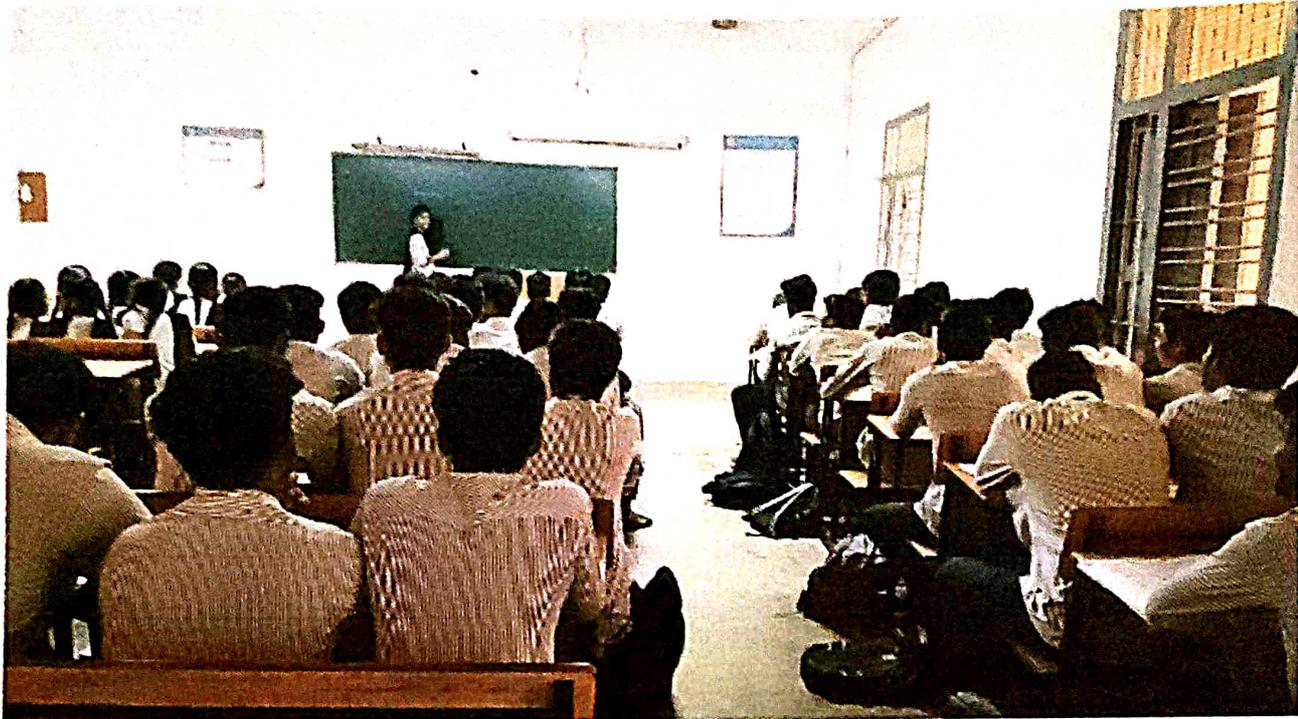


Figure: D. Keerthika (219P1A0528) Flipped method of TLP

Details of the Implementation:

A flipped classroom is a kind of cooperative learning in which students watch videos and refer notes uploaded in ECAP at home, take notes based on their comprehension level, and they have learned. As a result, students self-learning habits get better. The happening of event was intimated to the students in the class room exactly one week in prior. The supporting notes and video (<https://www.youtube.com/watch?v=mNP44rZYiAU>) were uploaded five days before in ECAP. On the day of event, totally 40 students were present. Also, teams of size five were formed to discuss the concept and discussed in the class room. The topic and the event was announced to them in the previous week itself. After discussion with the team members, one per team was called on stage to present their ideas related to JDBC, ODBC Connectivity. Figure 1 shows a sample snap taken during the event and it covers three teams.


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