



Gujarat Technological University

Report on FLIPPED CLASSROOMS

A discussion meeting held on 14th February 2016

INTRODUCTION:

Gujarat Technological University under its initiative, known as “*Active Learning*”, wants to support the Faculty Members, who may want to experiment with the idea of “*Flipped Classroom*” and through 2 circulars and 96 registrants we were able to set up a discussion meeting on 14th February 2016, Sunday. We had 2 experts with us:-

- Dr. Ravi Gor Director (Academic), Dr. Babasaheb Ambedkar Open University, Gujarat
Email ravigor@hotmail.com ; ravi.gor@baou.edu.in
- Dr. Dilip Barad (Ph.D.), Professor & Head, Department of English, Maharaja Krishnakumarsinhji Bhavnagar University, Bhavnagar dilipbarad@gmail.com

The flipped classroom is a pedagogical model in which the typical lecture and homework elements of a course are reversed. Short video lectures are viewed by students at home before the class session, while in-class time is devoted to exercises, projects, or discussions.

Dr Ravi Gor started with the requirement of flipping the classroom and reversing the role of teacher. He also briefed about some of the easy to use applications like Doodle cast, screenshot etc for creating presentations videos, nuggets etc. He motivated Faculty Members to learn about the platform, by grasping the technology. He also told Faculty Members to use any kind of Open Source technologies, which are readily available now days. He said Flipped Classrooms should be such, where students should do the task which Faculty Members want them to do. Since his domain was Mathematics he highlighted how the usage of flipped classroom at Canada in Mathematics made students do a lot many things like processing their findings, communicating with each other about their findings, presentation etc. Video resources of not more than 10-12 minutes, which is the maximum attention period of students, could be a great resource of flipped learning.

Dr Dilip Barad started with a note that flipped classroom does not require any expertise. He stressed about how a proper usage of technology can produce successful results. He said platforms like Moodle, A-View can really present tasks in an organized way. He also said that a small meaningful video is necessary for flipped learning. He told Faculty Members to take up some of the courses at Coursera and first learn how to teach as they have very good videos. He also shared his blog in which he briefly explained about ‘What is a Flipped Classroom and Flipped Learning?’

The table, on the next page, provides references for creating the Flipped Learning Environment.

• TED-ED Lessons	• http://ed.ted.com/lessons/plato-s-allegory-of-the-cave-alex-gendler
• NPTEL	• http://nptel.ac.in
• Coursera MOOC	• https://class.coursera.org/mythology-002/lecture
• More Examples	• https://sites.google.com/site/flippedlearninggtu/additional-resources
• Platforms to create personalized FLNs	• Google Sites for FLN • Blog (http://dilipbarad.blogspot.in/2014/12/t-s-eliot-tradition-and-individual.html)

ADDITIONAL RESOURCES

- Practice Flipped Learning
- TED Ed
- Khan Academy
- NPTEL (National Programme on Technology Enhanced Learning)
- Coursera
- edX

Dr Dilip Barad also explained how we can make it happen in our routine classrooms by taking small steps:-

1. **Identify**- The Faculty Member should first of all identify the Unit, Chapter topic, Sub Topics etc, which are to be covered in flipped Classrooms?
2. **Platform**- The Faculty Member should identify the technology/ Platform to be used. He should study examples like GTU Moodle, Blog, Websites etc, which can be used.
3. **Prepare**-The Faculty Member should do proper search of resources to be used like videos, animations, pictures, quizzes reading materials etc.
4. **Share**- Platforms chosen can be used for sharing.
5. **Feedback**-This shows both the learners' as well as teachers' reflection.

SUPPORT BY GTU

GTU can provide support as follows:

- (i) Providing 'Work Study' support to students, who may be selected by the Faculty Member for helping him (Please see http://files.gtu.ac.in/circulars/15Oct/14102015_01.pdf)
- (ii) GTU IT section will be able to help set up a Learning Management System for Flipped Learning, in case such a system is not available at the College.
- (iii) GTU will be able to provide the help of a Research Assistant, if required.

PHOTO GALLERY:



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