Flipped Classroom-An Innovative Approach

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Abstract

Flipped class room is a new innovative teaching learning method where strategy of teaching is reversed .It involves the use of technology. Here content is provided to students in form videos, power point, e-text before teaching and assignment are performed in class with the help of teachers and peers in collaborative manner. It is a blended form of learning which and is a leaner centered approach .So in the present era of technology the need of hour is to transform traditional method of learning to flipped class room teaching and learning. The paper discusses the concept and historical background of flipped class room. It also discusses models, technological tools required and advantages of flipped classroom, challenges posed by flipped classroom and methods of implementing flipped classroom technology.

Keywords: Flipped classroom, Models, Tools.

Introduction

Flipped Classroom is a method of teaching which is learner centered and beneficial for teachers and students. As the name suggests the teaching strategy is reversed here. Instead of providing the content related to topic in class the content is given to students in form of videos, power pointsor e-text and assignments are provided in class which are performed in with the help of teachers, peers and in collaborative manner. Flipped classroom are implemented with the help of technological tools which includes software tools and internet. Here classroom time is managed fruitfully for enhancing the learning skills of student. Teacher can give more time to individual students to address their problems. More time can

be given to explore the concepts and their practical applications. Flipped classroom is a concept which is beneficial for education system globally.

Concept of Flipped Classroom

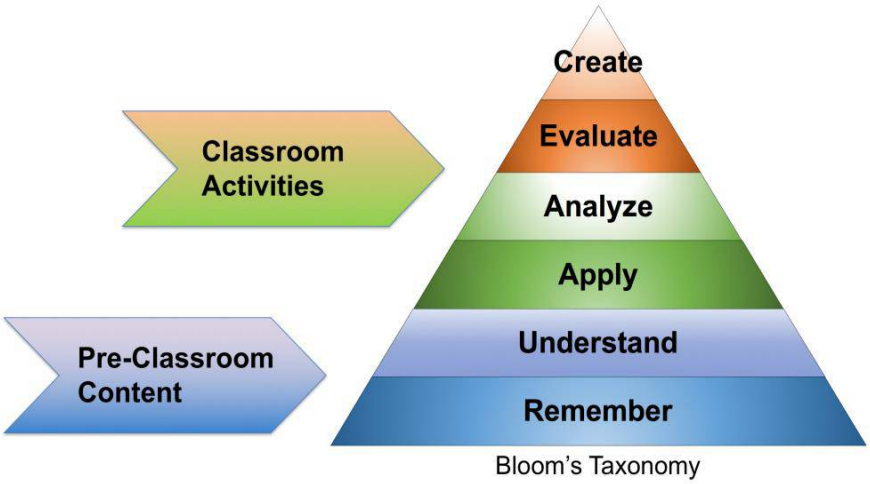
As the word flipping means reversing or inverting so the flipped classroom means reversing or inverting the traditional classroom activities. As we all are aware that teacher teaches new concepts in class, students take notes and then assignments are given as homework. Here in flipped class room the concept is totally reversed. The students here are introduced to learning the concepts at home or outside the class before the class and the class time is utilized for assignment or problem solving with the help of instructors or peers through discussions and problem solving activities.

So flipped class room concept involves the concept-

- Teaching at Home
- Working at School

In flipped classroom therole of instructor is to guide the students to enhance their thinking at application level. The main motto of flipped class room is to make learning student centered.

Framing Flipped Classroom model using Bloom's Revised Taxonomy



According to Bloom's revised taxonomy , 2001 students undergo the lower level of cognitive task like acquisition of knowledge and comprehension outside the class and higher form of cognitive task like application, analysis, synthesis, and/or evaluation in the class with the help

and support of instructors or peers in the class. As this model is in contrast with traditional model where students first acquire and comprehend knowledge in classrooms first through lecture and then assimilate their knowledge to perform the assignments at home. This is what the term flipped classroom means.

History of Flipped classroom

In 2004 flipped teaching was initiated started by two chemistry teachers Jonathan Bergmann and Aaron Sams at Woodland Park high school in Colorado, USA. The were working in rural settings where students were more involved in sports and other activities. And missed a lot of their class time .Other schools in district were very far off. So In order to cover the studies and class room lectures that were missed by students they recorded the lectures and posted them online. The students who missed the class could not be benefitted from it. Bergman and Sam found a solution in a technology magazine. They founda software that could record a power point slide show with voice and notes. In 2007 they began to record all their lectures and converted them to videopresentation . Then they decided to use the technique for all their classes.They asked the students to watch presentation before school and in class the student would discuss it, experiment with the material and receive assistance from their teachers in doing their tasks.Gradual students all over the world started watching their videos, asking questions and the concept of flipped classroom came to existence.

Pillars of Flipped Classroom-There are four main aspects or characteristics of flipped classroom which are as follows

F-Flexible Environment-It provides flexibility in learning environment. He/She can learn at any place and at any time .Flipped learning also provides a variety of learning modes so as to support learners for either group work or independent study.

L-Learning Culture: Culture of learning is totally changed in flipped classroom.In traditional classroom knowledge is provided by teacher. The approach of teaching is teacher centered whereas in flipped classroom teaching is learner centered teacher centered.Here class time is utilized in exploring topics in greater depth and creating new opportunities for learning.So here students are involved in knowledge construction in knowledge construction as they participate in learning activities and their learning is evaluated.