

FLIPPED LEARNING

Course Name: Electromagnetic Theory, AY:2019-20, Sem:III

Topic: STEADY MAGNETIC FIELD, BIOT-SAVART'S LAW, AMPERE'S CIRCUITAL LAW

Goal: To make time for meaningful discussions, interactions and applications of the Various Laws of magnetics during classroom sessions

1. Learning Outcomes:

- a. An ability to calculate the H
- b. An ability to apply the Magnetic laws for real life problems

2. Resources:

- All students should refer the following videos and PPT before actual class room discussion
- a. Video Presentation on Flipped Class By Dr.K.Veera Swamy
- b. Video Presentation on Fundamentals of Steady Magnetic Field By Dr.K.Veera Swamy
- c. Video Presentation on Steady Magnetic Field-Laws By Dr.K.Veera Swamy
- d. PPT By Dr.K.Veeraswamy

3. Groups

- All students should form groups as per the roll numbers. First 4 roll numbers will form one group. Next 4 roll numbers will form another group etc.,
- Group 1(Roll No 1 to 4) - Discussion on steady Magnetic fields and applications along with quizzes
- Group2(Roll No 5 to 8) -Discussion on Biot-Savart's law and applications along with quizzes
- Group3(Roll No 9 to 12) - Discussion on Amperes Circuital law and applications along with quizzes
- Other groups will interact (Questions, Spontaneous quizzes, Deeper Understanding)

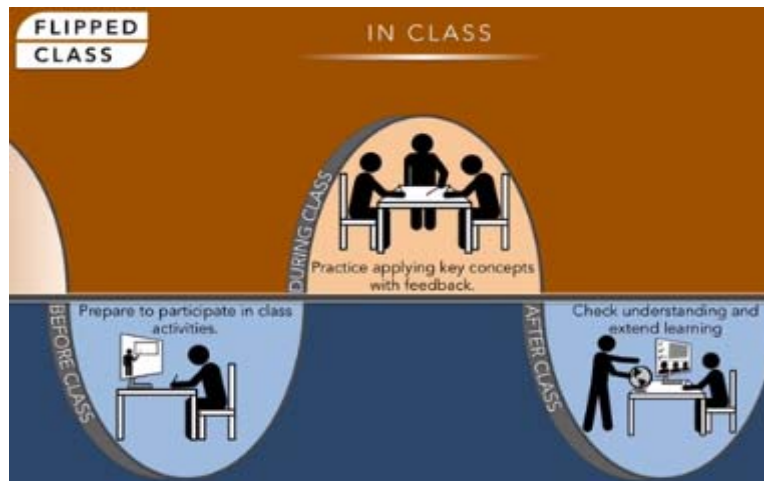
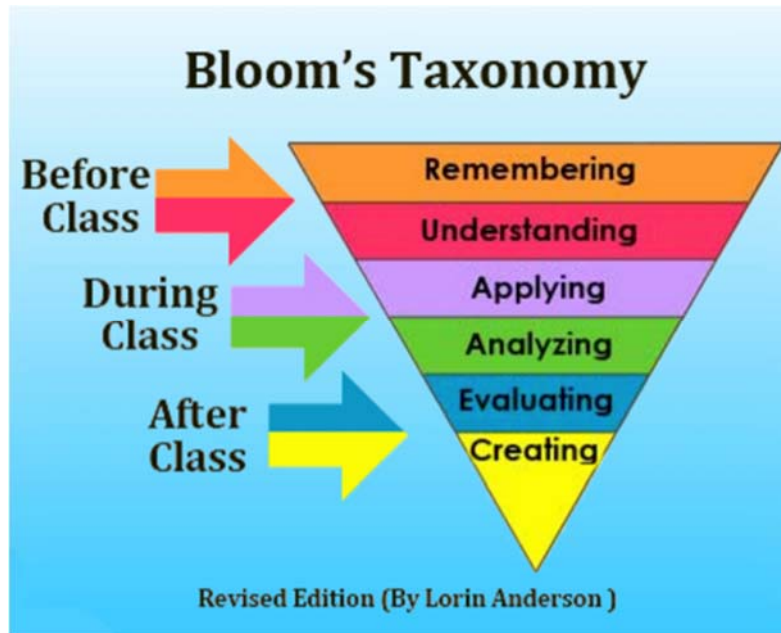
4. My Role:

In a flipped classroom, I may not give direct instruction. I will act as a facilitator.

Importance of Flipped learning:

In traditional learning, lower level of learning such as remembering and understanding is happening in class, while students are usually left to work on activities that involve higher level of learning outside of classroom. However, in the flipped classroom model, learning is flipped. As you can see from the pyramid, students can

finish the lower level of cognitive work before class. And when they come to class, they can engage in higher cognitive levels of learning with peers and teacher present.



Review/Critique/Feedback: Please give as an E-Mail: k.veeraswamy@staff.vce.ac.in