

# Making a last lecture Energetic in a day with active and collaborative learning

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## Abstract:

Last lecture delivery in a day is very challenging in all education systems. Lecture management involves lecture planning, learning objectives, teaching methods and classroom engagement. Lecture management is two-way communications between teacher and students. This paper deals by making a last lecture in a day energetic, "an experience in engineering institute. This paper shares an experience, to make the classroom teaching active and collaborative learning. The paper focused on outcome based education system for lecture management through students' involvement by active and collaborative learning methods.

**Key Words:** energetic, collaborative, learning, lecture.

## 1. Introduction:

Nowadays each education system focuses on outcome based education system. Engineering education is mostly focused on outcome based education system. Teacher in the engineering education system trying different ways to meet the outcome based education system. Outcome based education system mainly focused on students i.e. what teachers are teaching are the students learning? To achieve outcome based education system lot of modern teaching methods and teaching aids developed. Every teacher uses different modern teaching methods as well as teaching aids. The teaching methods include lots of different learning activities to make the classroom more effective and students' participation. Some activities are role play, think-share-pair, group discussion, presentation, animated video clips, analogy and demonstration, think-pair-share, problem based learning(PBL), case studies, jigsaw, student team achievement

division(STAD), Fish bowl, etc. Lot of active and collaborative activities used in outcome based education system. The classroom management is very important for teaching, learning methodologies for two-way communication of student and teachers. If the lecture is last lecture in a day, it is very challenging for the teacher. In last lecture the teacher first role is to make the class energetic for active learning.

## 2. Why to make last lecture energetic?

Last three-year survey shows that the learning interest of students varies with time, place, course, contents and duration. Normally the engineering lecture hour is 60 minutes. But all 60 minutes effective learning of the students' is very difficult. The learning ability of the students varies with students e.g. IIT's and NIT's students, government college students, Deemed University students, private institutes' students and autonomous institute students. Individual student likes different classroom learning methods and styles. Some students like black board presentation, some concentrate on PPT presentation, few students like animated video clips and some students learn from real demonstration in the lecture, etc. Some learn by active involvement of them. Lot of reasons are present in the students learning abilities and interest.

The survey shows that first lecture of every day the students' concentration is up to 30 minutes and for second lecture is it is up to 25 minutes, after Lunch break third lecture students' concentration is up to 20 minutes. For fourth and fifth lecture it remains up to 15 minutes. At the last lecture the students' concentration is only 10 minutes. Last lecture management very challenging for teachers. The Timings and teaching strategy changed with respect to the lecture number i.e. whether the lecture