

# AKAL ACADEMY BHAI DESA

**Lesson plan No.**

**Class:-12th**

**Date**

**Sub. :- Mathematics**

**Chapter:-8(Application of Integrals)**

**Overview:-** 3periods+1 periods

**Details of subtopics:-**

1. Introduction about application of Integrals.
2. Area under simple curve using integrals.
3. Area between two curves using Integrals.

**Educational objectives:-**

1. Student will understand the concept of Integrals and be able to implement these concept in their daily life.
2. Student will be able to find the Area between any curves using Integrals

**Material:-**Chalk, Duster, Board, Book, Classroom , Formulae Book etc.

**Engage:-** To make the classroom environment suitable and to warm up students teacher will ask some question.

1. What is an Integral?
2. What is the Integral value of any functions like trigonometric, polynomial, logarithmic and exponential functions?
3. Name of different types of functions ?

**Announcement of topic:-**After warm up teacher will announce the name of topic.

**Explanation:-**

1. Teacher will explain the topic by using laboratory method as well as inductive method.
2. Teacher will explain topic using real life example. He will also explain the uses of Integrals and it's different rules and formulae to solve Integration of any function.

**Explore:-**Students will explore their knowledge by doing some questions. Teacher will give them some examples to solve and also give some important formulae related to Integrals.

**Elaborate:-**In this session the assignment sheet will be given as home work at the end of the topic and separate sheets which will include questions of Logical Thinking and Higher Order Thinking skills based questions will be given to the above average students.

**Recapitulate:-** Teacher will revise the important points related to the chapter.

**Evaluation:-**

1. Teacher will ask the students to try questions from the exercise.
2. The oral test or written test will be conducted to evaluate the student's knowledge.

Sign of teacher

sign of HOD