

Class – XII

Lesson Plan

Session 2023-24

TOPIC: DEFINITE INTEGRALS

BRIEF DESCRIPTION; -In this chapter, students are taught about meaning of definite integrals and Properties of definite integrals

Objectives: (put Bloom's level)

I - Specific Objectives

To enable the students to:

S1 **Interpret** definite integration.(U)

S2 **Explain** Different methods of definite integration.(U)

S3 **Apply** different properties of definite integral (Ap/Execution)

S4 **Verify** questions on definite integral (Sy/Planning/**Design**)

S5 **Develop** different formula for definite integral.(Sy/Generating)

Behavioral Objectives

To enable the students to develop

B1 Logical thinking/Reasoning

Process / Activities

- **Activity (to introduce the lesson)**

ACT1 Students will be asked to recall the formula for indefinite integral of certain function **(K)**

- **Activity (to support learning)**

ACT2 To derive properties of definite integral. (An)

Skills (as per subject) Reasoning Skill)

Expected Learning Outcomes

Students would be able to:

1 **Identify** definite integration.(K/**Recognize**)

2 **Interpret** Different methods of definite integration.(U)

3 **Apply** different properties of definite integral (Ap/**Execution**)

4 **Prove** statements on definite integral (An/**Organizing**)

5 **Learn** different formula for definite integral.(K/**Recall**)

Assessment: (put Bloom's level)

A1 Find the integral of x, x^2 from 0 to 1.(K/**recall**)

A2 Find $\int_0^{\pi/2} \sin^2 x dx$.(A/**Execution**)

A3 Find $\int_{-\pi/2}^{\pi/2} \sin^7 x dx.$ (An/ Organizing)

A4. Find the integral of $x \sin x$ from 0 to $\frac{\pi}{2}$ (A/Execution)

Placement of Objectives, Instructional Activities and Assessment

| TOPIC/START DATE/ASSESSMENT | | | | | |
|-----------------------------|---------------|-------------|----------|-----------|------------|
| KNOELEDGE | UNDERSTANDING | APPLICATION | ANALYSIS | SYNTHESIS | EVALUATION |
| | S1 | S3 | | S4 | |
| | S2 | | | S5 | |
| ACT1 | | | ACT2 | | |
| A1 | | A2 | A3 | | |
| | | A4 | | | |

REVIEW OF THE LESSON PLAN
(TO BE DONE WHEN THE LESSON GETS OVER)

Problems faced –

Success-

Failure-

Real Learning Outcomes

ELO-

Students' response/ participation

Teacher's Learning

TO INCORPORATE IN TERM 2-