<u>**Class – XII**</u>

<u>**Lesson Plan**</u>

<u>**Sessioon 2023-24**</u>

<u>**TOPIC: INDEFINITE INTEGRALS**</u>

<u>**BRIEF DESCRIPTION;**</u> -In this chapter, students are taught about an anti derivative of a function and various methods to calculate anti derivatives.
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<u>**UN Sustainable Goals to be achieved (if any):**</u>

<u>**Objectives:**</u> **(put Bloom's level)**

I - <u>**Specific Objectives**</u>

To enable the students to:

S1 Interpret integration(U)

S2 Classify Different methods of indefinite integration(U)

S3 Find Integration by partial fraction(An/Organizing)

S4 Design Integration by parts (Sy/Planning)

S5 Develop different formula for integration.(Sy/Generating)

   <u>**Behavioral Objectives**</u>

After learning this chapter students will be able to develop

B1 Logical thinking

B2 Critical thinking

<u>**Process / Activities**</u>
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- **Activity (to introduce the lesson)**

ACT1 Students will be asked to recall derivatives of certain terms and reverse e process **(K)**

- **Activity (to support learning)**

ACT2 To derive formula integration of log x using by parts(An)

  Skills (as per subject) Reasoning Skill

<u>**Expected Learning Outcomes**</u>

Students would be able to :

1 Explain integration (U)

2 Identify the Different methods of indefinite integration(U)

3 Apply Integration by partial fraction(A/Execution)

4 Differentiate Integration by parts and other methods (An)

5 Discriminate different formula for integration.(An/Differentiating)

<u>**Assessment:**</u> **(put Bloom's level)**

A1   Write the derivative of $x, x^2, \sin x$ then their anti derivative .(K/recall)

A2.   Find the rule for integral of tanx(U/inferring)

A3   Derive the integral of secx (An/ Organizing)
A4.   Find the integral of xsinx (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	A4	A3		