

SUBJECT: MATHEMATICS

LESSON PLAN

TOPIC: APPLICATION OF INTEGRALS

Pre-Content/content Post-Content	Learning Outcome/Objectives	
CONTENT	General	Specific
Application in finding area under simple curves	Students will be able to appreciate the need of integration in finding area under the given curves.	Students will be able to draw simple curves like circles, Parabola, ellipse etc. and find the area under these using integration.
Area of the region bounded by a curve and a Straight line	visualize and and shade the required region between a given line and a curve and find its area.	generate the limits of integration by solving the curve and the line and integrate between these limits.
Area between two curves	understand that area between two curves is area under upper curve – area under lower curve between calculated limits and appreciate them.	evaluate the limits by solving two curves and calculate the corresponding area using integration.

Home Work /Assignment

1)NCERT Exercise questions (Questions from Ex .8.1 to 8.2 and misc. Ex from NCERT book)

2)Exemplar problem

MONTH: August_

CLASS: XII

Teacher's Activity	Student's Activity	Teacher's Observation And Remedial
Teacher will help students in recalling class xi concepts in conic sections and draw the corresponding curves appraise the student's difference between area formed with x-axis and area formed with y-axis. Illustrate with various examples and figures how to find area between two curves.	Students will recall, equation of simple curve like circles, Parabola, ellipse etc. and Solve Questions from EX 8.1 apply knowledge of integration and Participate in the discussion and workout the given problem Solve Questions from EX8.2 solve Questions from misc. ex on chapter 8	Teacher will write observation and remarks after the class

Teaching Aids: Smart board,

Methodology/Innovative Methods: Discussion, Recall, Explanation, Question-Answer method, problem solving

Interdisciplinary Links: Applied in Engineering, Science and Economics

Co-Ordinator

Vice-Principal

Principal

