

Topic: STRAIGHT LINES

Pre-Content/content Post-Content	Learning Outcome/Objectives	
	General	Specific
Pre-Content The knowledge of coordinates', distance formula, section formula, area of triangle. Content Slope of a line when coordinates of any two points on the line are given Collinearity of three points Conditions for parallelism and perpendicularity of lines in terms of their slopes Angle between two lines Various Forms of the Equation of a Line--Horizontal and vertical line Point-slope form. Two-point form Slope-intercept form Intercept - form Normal form Different forms of $Ax + By + C = 0$ (a) Slope-intercept form (b) Intercept form (c) Normal form Distance of a Point from a Line Distance between two parallel lines Post Content To work out extra practice questions	Students will be able to develop the problem solving & thinking ability of student. acquire knowledge about slope of a line find slope if coordinates of two points are given. apply transformation & use symmetry to analyze mathematical structure. relate mathematical concepts & skills to life experience. assimilate the different forms of $Ax + By + C = 0$ apply the knowledge in solving practical problems	Students will be able to recall and understand Geometry with algebra. know the concept of slope of a line apply the formula to Calculate the slope between two points in a plane. apply the formula and Find equation of lines in (a) Point-slope form (b) Two-point form (c) Slope-intercept form (d) Intercept - form Normal form understand and apply formula to find equation of lines convert the equation from one form to another forms apply concept of slope for collinearity of points. acquire problem solving skills by performing calculations to solve various problems

Home Work /Assignment

- 1) NCERT Exercise questions (Questions from Ex .10.1 to 10.3 and misc. Ex from NCERT book)
- 2) Exemplar problem

CLASS XI: 2/2

Teacher's Activity	Students' Activity	Teacher's Observation and Remedial action taken
The teacher will introduce the topic by asking questions about distance formula, section formula, area of triangle explain the concept of slope of a line and will ask students to find slope of a line, if two points are known. present various forms of line to the students. Two-point form Slope-intercept form Intercept - form Normal form. convert equation of line of general form to other forms as mentioned above. demonstrate the application for proving collinearity of points	Students will be able to attempt questions while teacher will observe them as they are solving the questions and will help the students if they are not able to solve. solve Questions from Ex-10.1 solve Questions from Ex-10.2 solve Questions from Ex-10.3, solve questions from misc. exercise in class & some questions will be given as H.W.	Teacher will write observation and remarks after the class

Teaching Aids; Smart board, graph paper.

Methodology/Innovative Methods: lecture and interpretation.

Interdisciplinary Links: Used in Science and Engineering.

Coordinator

Vice-Principal

Principal