

Subject: MATHEMATICS

LESSON PLAN

TOPIC: LINEAR PROGRAMMING

Pre-Content/content Post-Content	Learning outcomes/Objectives	
	General	Specific
<u>Pre-Content</u> *Recall expression of linear Inequalities graphically <u>CONTENT</u> *Related terminology such as constraints, objective functions *Mathematical formulation of LP problems *Graphical method of solution of problems in two variables <u>POST-CONTENT</u> Problem Solving	Students will be able to construct the feasible region graphically. familiarized with the term's constraints and objective functions translate the given situation in to constraints and objective functions. develop the skill to arrive at optimal solution calculate faster and will be able to solve problems based on it	Students will be able to sketch the common region corresponding to the given inequalities. construct constraints after understanding the given situation. formulate objective function and decide whether to maximize or minimize the objective function. arrive at conclusions from table of values of objective function at corner points of the feasible region. acquire problem solving skills and will be able to solve various problems

Home Work /Assignment

1)NCERT Exercise questions (Questions from Ex .12.1 to 12.3 and misc. Ex from NCERT book)

2)Exemplar problem

MONTH: May
Class -XII

Teacher's Activity	Student's Activity	Teacher's observation and Remedial
Teacher will introduce the lesson recalling the concepts done in previous class help them break the given situation in various parts to help students to form constraint discuss where the feasible region become unbounded. encourage students to appreciate and foster respect for environment by discussing health/environment related questions give application-based questions	Students will solve questions from EX 12.1 solve questions from EX 12.2 solve questions from EX-12.3 solve questions from Misc. EX simplify and solve application-based problems.	Teacher will write observation and remarks after the class

Teaching Aids- Smart board, NCERT BOOK

Methodology/Innovative Methods Use of active inspire lessons, practice through assignments, reinforcement method.

Interdisciplinary Links Applications in day to day problems in various disciplines.

Coordinator

Vice-Principal

Principal