

NEW ERA SENIOR SECONDARY SCHOOL, NIZAMPURA, VADODARA.
APPLIED MATHS SYLLABUS CLASS-XII 2025-26

MONTH	No. OF DAYS	CHAPTER
APRIL	22	ALGEBRA <ul style="list-style-type: none"> • Matrices and • Determinants • Matrices and types of matrices • Equality of matrices, Transpose of a matrix, Symmetric and Skew symmetric matrices • Algebra of Matrices • Determinants • Inverse of a matrix • Solving system of simultaneous equations using matrix method, Cramer's rule
MAY	03	<ul style="list-style-type: none"> • Linear Programming • Introduction and related terminology • Mathematical formulation of Linear Programming Problem • Different types of Linear Programming Problems • Graphical method of solution for problems in two variables • Feasible and Infeasible Regions
JUNE	18	CALCULUS <ul style="list-style-type: none"> • Differentiation and its Applications • Higher Order Derivatives • Application of Derivatives • Marginal Cost and Marginal Revenue using derivatives • Increasing /Decreasing Functions • Maxima and Minima
JULY	26	<ul style="list-style-type: none"> • Continue.... Integration and its Applications <ul style="list-style-type: none"> • Integration • Indefinite Integrals as family of curves • Definite Integrals as area under the curve • Application of Integration
AUGUST	22	<ul style="list-style-type: none"> • Continue.... Differential Equations and Modeling <ul style="list-style-type: none"> • Differential Equations • Formulating and Solving Differential Equations • Application of Differential Equations

SEPTEMBER	23	PROBABILITY DISTRIBUTIONS <ul style="list-style-type: none"> • Probability Distribution • Mathematical Expectation • Variance • Binomial Distribution • Poison Distribution • Normal Distribution
OCTOBER	11	NUMBERS, QUANTIFICATION AND NUMERICAL APPLICATIONS <ul style="list-style-type: none"> • Modulo Arithmetic • Congruence Modulo • Alligation and Mixture • Numerical Problems • Boats and Streams (upstream and downstream) • Pipes and Cisterns • Races and Games • Numerical Inequalities
NOVEMBER	21	Continue... INFERENTIAL STATISTICS Population and Sample Parameter and Statistics and Statistical Interferences t-Test (one sample t-test and two independent groups t-test)
DECEMBER	23	Continue...