

Class – XII
DELETED SYLLABUS
(For the Session of 2020-21 Only)
MATHEMATICS
(THEORY)

UNIT I. RELATIONS AND FUNCTIONS

1. **Relations and Functions :**
Composite functions, inverse of a function.
2. **Inverse Trigonometric Functions:**
Graphs of inverse trigonometric functions. Elementary properties of inverse trigonometric functions.

UNIT-II: ALGEBRA

1. **Matrices:**
Existence of non-zero matrices whose product is the zero matrix. Concept of elementary row and column operations. Proof of the uniqueness of inverse, if it exists.
2. **Determinants:**
Properties of determinants, Consistency, inconsistency and number of solutions of system of linear equations by examples

UNIT-III: CALCULUS

1. **Continuity and Differentiability:**
Rolle's and Lagrange's Mean Value Theorems (without proof) and their geometric interpretations.
2. **Applications of Derivatives:**
Rate of change, approximation
3. **Integrals:**
Definite integrals as a limit of a sum
4. **Applications of the Integrals:**
Area between the two above said curves
5. **Differential Equations:**
Formation of differential equation whose general solution is given.

UNIT-IV: VECTORS AND THREE-DIMENSIONAL GEOMETRY

1. **Three - dimensional Geometry:**
Angle between (i) two lines, (ii) two planes. (iii) a line and a plane.

UNIT-V: LINEAR PROGRAMMING

- 1. Linear Programming:** Mathematical formulation of L.P. problems,

UNIT-VI: PROBABILITY

- 1. Probability:**
Mean and variance of haphazard variable. Binomial distribution.