

**DELETED PORTION
MATHEMATICS - 041
CLASS XI**

UNIT/ CHAPTER	SYLLABUS REDUCED
Unit- I: Sets and Functions	
1.Sets	<input type="checkbox"/> Difference of sets. <input type="checkbox"/> Complement of a set. Properties of Complement
2.Relations & Functions	<input type="checkbox"/> (up to $R \times R \times R$). <input type="checkbox"/> Sum, Difference, product and quotients of functions
3. Trigonometric Functions	<input type="checkbox"/> General Solutions of trigonometric equations of the type $\sin y = \sin a$, $\cos y = \cos a$ and $\tan y = \tan a$.
Unit II: Algebra	
1.Principle of Mathematical Induction	<input type="checkbox"/> Delete full chapter
2.Complex Numbers and Quadratic Equations	<input type="checkbox"/> Polar representation of complex numbers. <input type="checkbox"/> Square root of a complex number.
3.Linear Inequalities	Nil
4. Permutations and Combinations	<input type="checkbox"/> Derivation of formulae for ${}^n P_r$ and ${}^n C_r$
5.Binomial theorem	<input type="checkbox"/> Delete full Chapter
6. Sequence and Series	<input type="checkbox"/> Formulae for the following special sums $\sum k, \sum k^2, \sum k^3$.
Unit III: Coordinate geometry	
1.Straight Lines	<input type="checkbox"/> Shifting of origin. <input type="checkbox"/> Equation of family of lines passing through the point of intersection of two lines.
2 Conic sections	<input type="checkbox"/> a point, a straight line and a pair of intersecting lines as a degenerated case of a conic section.
3.Introduction to Three-dimensional Geometry	Nil
Unit-IV : Calculus	
1.Limits and Derivatives	Nil
Unit-V : Mathematical Reasoning	
1.Mathematical Reasoning	<input type="checkbox"/> Delete full chapter
Unit-VI: Statistics and Probability	

1. Statistics	<input type="checkbox"/> Analysis of frequency distributions with equal means but different variances.
2. Probability	<input type="checkbox"/> Axiomatic (set theoretic) probability, connections with other theories of earlier classes