

SYLLABUS - 2020 - 21

STANDARD : 10

SUBJECT : MATHEMATICS

Unit	Content
1. Relations and Functions	1.1 Introduction 1.2 Ordered Pair 1.3 Cartesian Product 1.4 Relations
2. Numbers and sequences	2.1 Introduction 2.2 Euclid's Division Lemma 2.3 Euclid's Division Algorithm 2.4 Fundamental Theorem of Arithmetic 2.6 Sequences 2.7 Arithmetic Progression
3. Algebra	3.1 Introduction 3.2 Simultaneous Linear Equations in three Variables 3.3 GCD and LCM of Polynomials 3.4 Rational expressions 3.5 Square Root of Polynomials. 3.6 Quadratic Equations 3.8 Quadratic Graphs
4. Geometry	4.1 Introduction 4.2 Similarity 4.3 Thales Theorem and Angle Bisector Theorem (Theorems 1,3-with proof & 2,4-without proof) 4.4 Pythagoras Theorem(Theorem 5-with proof) 4.5 Circles and Tangents(Theorem 6-without proof) 4.6 Concurrency Theorems
5. Coordinate Geometry	5.1 Introduction 5.2 Area of a Triangle 5.3 Area of a Quadrilateral 5.4 Inclination of a Line 5.5 Straight Line

6. Trigonometry	6.1 Introduction 6.3 Heights and Distances
7. Mensuration	7.1 Introduction 7.2 Surface Area 7.3 Volume 7.4 Volume and Surface Area of Combined Solids
8. Statistics and Probability	8.4 Probability 8.5 Algebra of Events
(*All examples and exercise problems for the content mentioned above)	