

ACADEMIC PLANNER 2025-26
MATHEMATICS CLASS X

MONTH /DATES/ DAYS	CONTENT	LEARNING OUTCOME	H.W./ ASSIGNMENT	ACTIVITY/MODE OF ASSESSMENT	TEACHING PEDAGOGY	INTERDISCIPLINARY ASPECT	21ST CENTURY SKILLS/ SDG
APRIL(1-15) 10 Days	Ch - 1 Real Numbers The Fundamental Theorem of Arithmetic, Irrational Numbers	generalises properties of numbers and relations among them	Ex 1.1 - Ex 1.2	educosoft assessment , math vocab cards	storytelling	historical evolution of real numbers	reasoning and critical thinking / SDG 4 Quality education
APRIL(16-30) 12 Days	Ch - 2 Polynomials Geometrical Meaning of the zeroes of a polynomial, Relationship between the zeroes and coefficients of a Polynomial Ch-14 Probability A Theoretical Approach	develops a relationship between algebraic and graphical methods of finding the zeroes of a polynomial. Determines the probability of an event and applies the concept in solving daily	Ex 2.1 - Ex 2.2 Ex 14.1	educosoft assessment , graphic organiser	Collaborative Learning, Experiential learning	polynomials used in calculating molecular mass	Creativity, Logical Reasoning
MAY(1-15) 11 Days	Ch. 3 Pair of Linear Equations In Two Variables Graphical Method of solving Equations, Substitution Method, Elimination Method	finds solutions of pairs of linear equations in two variables using graphical and different algebraic methods.	Ex 3.1 - Ex 3.3	educosoft assessment , graph test Activity - geometric patterns using linear equations	Inquiry based learning	cost profit analysis using linear equations	quantitative reasoning and logical thinking.
MAY(16-25) 8 Days	Ch 7. Co-ordinate Geometry Distance Formula, Section Formula	derives formulae to establish relations for geometrical shapes in the context of a coordinate plane, such as, finding the distance between two given points, to determine the coordinates of a point between any two given points	Ex 7.1 - Ex 7.2	educosoft assessment , case study Activity verification of distance formula using graph	Technology Integration	Art integration	Analytical thinking / SDG 11 - Sustainable Cities & Communities

OCTOBER (1-15) 8 days	Ch-4 Quadratic Equations Introduction, solution of equations, Nature of roots	demonstrates strategies of finding roots and determining the nature of roots of a quadratic equation	Ex 4.1-Ex 4.3	educosoft assessment , class test	collaborative learning - peer teaching	projectile motion under gravity - quadratic path	problem solving
OCTOBER (16-31) 10 days	Ch-10 Circles Tangent to a circle, number of tangents to a circle	derives proofs of theorems related to the tangents of circles	Ex 10.1-Ex 10.2	educosoft assessment , case study Activity - verification of equality of lengths of tangents from an external point	Activity based learning	tangents in X-ray imaging	creativity
NOVEMBER (1-15) 11 days	Ch-5 Arithmetic Progression Introduction, nth term of an AP	develops strategies to apply the concept of A.P. to daily life situations.	Ex 5.1-Ex 5.2	educosoft assessment , case study Activity - verification of formula for sum of first n natural numbers	Activity based learning	Art integration	crativity and innovation
NOVEMBER (16-30) 12 days	Ch-5 Arithmetic Progression sum of first n terms		Ex 5.3				
DECEMBER (1-15) 12 days (16-31) 13 days	PREBOARD EXAMINATION						
JANUARY (1-15)	WINTER BREAK						
JANUARY (16-31) 13 days	REVISION FOR ANNUAL EXAMINATION						
FEBRUARY	ANNUAL EXAMINATION						

TERMWISE SYLLABUS

UNIT TEST 1	Ch-1,2,3,14
HALF YEARLY	Ch -1,2,3,6,7,8,11,14
PREBOARD	All chapters