ACADEMIC PLANNER 2025-26 MATHEMATICS CLASS X

MONTH /DATES/ DAYS	CONTENT	LEARNING OUTCOME	H.W./ ASSIGNMENT	ACTIVITY/MODEOF ASSESSMENT	TEACHING PEDAGOGY	INTERDISCIP LINARY 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 vacab 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,Relatioship 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 Equ ations 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

JULY(1-15) 12 days	Ch-6 Triangles Similar Figures, BPT, Criteria for Similarity of Triangles	establishes properties for similarity of two triangles logically using different geometric criteria established earlier such as, Basic Proportionality Theorem, e	Ex 6.1 - Ex 6.3	educosoft assessment , class test Activity - verification of BPT	Activity based learning	Architecture	Creativity and innovation
JULY(16-31) 14 days	Ch-13 Statistics Mean, Median and Mode of grouped data	calculates mean, median and mode for different sets of data related with real life contexts.	Ex 13.1 - Ex 13.3	educosoft assessment , case study	Data-Driven Learning, Technology Integration	Climate and population studies	Analytical thinking / SDG 13 Climate action
AUGUST (1- 15) 11 days	Ch-11 Areas Related to Circles Perimeter and area of circle, Area of sector and segment Ch-8 Trigonometry Trigonometric Ratios	computes the areas of sectors and segments of a circle, applying these concepts to solve related problems.	Ex 11.1 Ex. 8.1	educosoft assessment , case study	Experiential learning	Art integration	critical thinking, logical reasoning
AUGUST (1- 15) 12 days	Ch-8 Trigonometry Trigonometric Ratios of Some Specific Angles, Trigonometric identities Ch9. Applications of Trigonometry	determines all trigonometric ratios with respect to a given acute angle (of a right triangle) and uses them in solving problems in daily life contexts like finding heights of different structures or distance from them	Ex 8.2-Ex 8.3 Ex 9.1	educosoft assessment , case study Activity verification of trigonometric identity	Inquiry based learning	use of trigonometry in designung bridges	critical thinking, problem solving/ SDG 9 - Industry,Innovati on and infrastructure
SEPTEMBER (1-15) 11 days	Ch-12 Surface Areas and Volumes Surface area and volumes of combination of solids Revision for Half Yearly Examination	finds surface areas and volumes of objects in the surroundings by visualising them as a combination of different solids	Ex 12.1-Ex 12.2	educosoft assessment , case study Activity - making 3D toys using combination of solids	Experiential learning - Use of TLM	Sports integration	Creativity / SDG 6 - Clean water and sanitation
SEPTEMBER (16-30) 12 days	HALF YEARLY EXAMINATION						

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	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	situations.	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