

ACADEMIC PLANNER 2019-20

Sub : Mathematics

Class - X

DATE	TOPIC	C.W / H.W / ASSIGNMENT	Maths Lab Activity
April 1-15th April (11 days)	<u>Ch 1. Real Numbers</u> Euclid's Division Lemma The Fundamental Theorem of Arithmetic Irrational Numbers Decimal Expansion of Rational Numbers	Ex. 1.1 Ex. 1.2 to Ex. 1.4	Verify Euclid's Division Lemma
16- 30th April (11 days)	<u>Ch14. Statistics</u> Mean of a Grouped Data Median of a Grouped Data Mode of a Grouped Data 'More than' and 'Less than' Ogive	Ex. 14.1 to 14.4	Online Assessment Educsoft
	<u>Ch.2 Polynomials</u> Geometrical Meaning of the zeroes of a polynomial Relationship between zeroes and coefficients of a Polynomial Division Algorithm for Polynomials	Ex. 2.1 to Ex.2.3	Online Assessment Educsoft
May 1-15th May (11 days)	<u>Ch. 3 Pair of Linear Equations In Two Variables</u> Pair of linear equations in two variables Graphical Method of solving a Pair of Linear Equations Substitution Method Elimination Method Cross Multiplication Method Equations Reducible to a Pair of Linear Equations in Two Variables	Ex -3.1 to 3.2 Ex -3.3 to 3.6	
16-30th May (Extra Classes)	<u>Ch. 8 Trigonometry</u> Trigonometric Ratios Trigonometric Ratios of Some Specific Angles Trigonometric Ratios of Complementary angles Trigonometric Identities	Ex. 8.1 to 8.4	To prepare Angle Calculator.
JULY 1-15th July (12 days)	<u>Ch6. Triangles</u> Similar Figures BPT Criteria for Similarity of Triangles Areas of Similar Triangles Pythagoras Theorem	Ex - 6.1 to 6.5	To prepare perfect Height Finder.
16- 31st July (14 days)	<u>Ch9. Applications of Trigonometry</u> Heights And Distances	Ex. 9.1	Online Assessment Educsoft
	<u>Ch 7. Co-ordinate Geometry</u> Distance Formula Section Formula Area of a Triangle	Ex. 7.1 to 7.3	Online Assessment Educsoft

August 1-15th Aug. (10 days)	<u>Ch4. Quadratic Equations</u> Introduction of quadratic Equation Solution By Factorisation Method Solution by Completing the Square Nature of roots	Ex. 4.1 to 4.4	Online Assessment Educsoft
16 -31st Aug. (13 days)	<u>Ch4. Quadratic Equations</u> Introduction of quadratic Equation Solution By Factorisation Method Solution by Completing the Square Nature of roots	Ex. 4.1 to 4.4	Online Assessment Educsoft
September 1-15th Sept. (10 days)	<u>Ch5. Arithmetic Progression</u> Introduction of Arithmetic Progressions nth Term of an AP Sum of First n terms of an AP	Ex. 5.1 to 5.3	To verify: (i) $1+3+5+\dots+2n+1 = n^2$ (ii) $1+2+3+\dots+n = (n(n+1))/2$
16-30th Sept. (13 days)	Half Yearly Exam		
October 1-15th Oct. (6 days)	<u>Ch.10 Circles</u> Tangent to a Circle Number of Tangents to a Circle	Ex.10.1 to 10.2	To verify that lengths of tangents from an external points to a circle are equal by paper folding ,cutting and pasting.
16 -31st Oct. (11 days)	<u>Ch13. Surface Areas and Volumes</u> Surface Area and Volume of Combination of Solids Conversions of Solids Frustum of a Cone	Ex.13.1 to 13.4	Online Assessment Educsoft
November 1-15th Nov. (11 days)	<u>Ch.12 Area Related to Circles</u> Perimeter and Area of a Circle Areas of Sector and Segment of a circle Applications of areas related to circles	Ex. 12.1 to 12.2 Ex. 12.3	Online Assessment Educsoft
	<u>Ch 15 Probability</u> A Theoretical Approach	Ex.15.1	Online Assessment Educsoft
16-30th Nov. (13 days)	<u>PREBOARD - 1</u> <u>EXAMINATIONS</u>		
December 1-15th December (11 days)	<u>Ch11. Constructions</u> Division of a line Segment Construction of a triangle similar to a given triangle Construction of Tangents to a Circle	Ex. 11.1 to 11.2	Online Assessment Educsoft
16-31st December (13 days)	Revision		

January 15 -31st January (14 days)	Revision for Annual Exam
February 1-15 (12 days)	Revision for Annual Exam
16-28 (11 days)	Revision for Annual Exam

TERMWISE SYLLABUS	
Unit Test - I	
Online Assessment (CHAPTERS- 1, 14)	
Half Yearly Exam	
CHAPTERS- 1, 2, 3, 6,7, 8, 9, 14	
PREBOARD EXAMINATION - 1	
CHAPTERS- 1,2,3,4,5,6,7,8,9,13,14,15	
PREBOARD EXAMINATION - 2	
Complete Syllabus	