

SYLLABUS FOR THE SESSION 2023-24

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CLASS -XI		SUBJECT-Maths	
MONTH	CHAPTERS	DIGITAL RESOURCES	SUBJECT ENRICHMENT ACTIVITIES
May	chapter-1 Sets chapter-2 Relations and functions	E-library notes,smart class	<ol style="list-style-type: none"> 1.To find the number of subsets of a given set and verify that if a set has n number of elements then the total number of subsets is 2^n. 2. To verify distributive law for the three given non-empty sets A,B and C. $A \cup (B \cap C) = (A \cup B) \cap (A \cup C)$. 3.To verify that for two sets A and B, $n(A \times B) = mn$ and the total number of relations from A to B is 2^{mn}, where $n(A) = m$ and $n(B) = n$.
July	chapter-3 Trigonometric functions chapter-4 Complex numbers and quadratic equations	E-library notes,smart class	<ol style="list-style-type: none"> 1. To verify the relation between the degree measure and the radian measure of an angle. 2. To find the values of sine and cosine functions in second, third and fourth quadrants using their given values in first quadrant. 3.To interpret geometrically the meaning of $i = \sqrt{-1}$ and its integral powers.
August	chapter-5 linear inequalities chapter-6 permutations and combinations chapter-7 binomial theorem	E-library notes,smart class	
September	chapter-8 Sequence and series	E-library notes,smart class	To demonstrate that the arithmetic mean of two different positive numbers is always greater than or equal to the geometric mean.
October	chapter-9 Straight lines chapter-10 Conic sections	E-library notes,smart class	

November	chapter-11 Introduction to 3-D geometry chapter-12 Limits and derivatives	E-library notes,smart class	To find analytically $\lim_{x \rightarrow c} f(x) = x^2 - c^2/x - c$
December	chapter-13 Statistics chapter-14 Probability	E-library notes,smart class	To verify the addition theorem on probabilities i.e. $P(A \cup B) = P(A) + P(B) - P(A \cap B)$.
January	Revision		