



BLOOM PUBLIC SCHOOL
C-8 Vasant Kunj, New Delhi
Syllabus for the Session 2023-24

Class: XII

Subject: MATHEMATICS

SYLLABUS		
MONTH	CHAPTER (NCERT Text book)	CONTENT
April	Chapter 4: Determinants	Determinant of a square matrix (up to 3 x 3 matrices), minors, co-factors and applications of determinants in finding the area of a triangle. Adjoint and inverse of a square matrix. Consistency, inconsistency and number of solutions of system of linear equations by examples, solving system of linear equations in two or three variables (having unique solution) using inverse of a matrix.
	Chapter 1: Relation and Functions	Types of relations: reflexive, symmetric, transitive and equivalence relations. One to one and onto functions.
	Chapter 2: Inverse Trigonometric Functions	Definition, range, domain, principal value branch. Graphs of inverse trigonometric functions.
May	Chapter 5: Continuity and Differentiability	Continuity and differentiability, chain rule, derivative of inverse trigonometric functions, <i>like</i> $\sin^{-1} x$, $\cos^{-1} x$ and $\tan^{-1} x$, derivative of implicit functions. Concept of exponential and logarithmic functions. Derivatives of logarithmic and exponential functions. Logarithmic differentiation, derivative of functions expressed in parametric forms. Second order derivatives.
	Chapter 6: Applications of Derivatives	Applications of derivatives: rate of change of quantities, increasing/decreasing functions, maxima and minima (first derivative test motivated geometrically and second derivative test given as a provable tool). Simple problems (that illustrate basic principles and understanding of the subject as well as real life situations).
July	Chapter 7: Integrals	Integration as inverse process of differentiation. Integration of a variety of functions by substitution, by partial fractions and by parts, Evaluation of simple integrals of the following types and problems based on them.

		theorem, Random variable and its probability distribution, mean of random variable.
November	Revision Pre-Board Exam	Chapter wise revision Sample papers & Previous years Board Exam papers
December	Revision Pre-Board Exam	Remedial classes
January	Revision	Remedial classes
February	Revision	Remedial classes
March	Board Exams	

ASSESSMENT SYLLABUS

PERIODIC ASSESSMENT -1	Chapter 2: Inverse Trigonometric Functions Chapter 3: Matrices Chapter 4: Determinants
PERIODIC ASSESSMENT -2	Chapter 1: Relation and Functions Chapter 5: Continuity and Differentiability Chapter 6: Applications of Derivatives
TERM -1 EXAM	Chapter 1: Relation and Functions Chapter 2: Inverse Trigonometric Functions Chapter 3: Matrices Chapter 4: Determinants Chapter 5: Continuity and Differentiability Chapter 6: Applications of Derivatives Chapter 7: Integrals Chapter 8: Applications of the Integrals Chapter 9: Differential Equations
PRE-BOARD EXAM	Chapter 1: Relation and Functions Chapter 2: Inverse Trigonometric Functions Chapter 3: Matrices Chapter 4: Determinants Chapter 5: Continuity and Differentiability Chapter 6: Applications of Derivatives Chapter 7: Integrals Chapter 8: Applications of the Integrals Chapter 9: Differential Equations Chapter 10: Vectors Chapter 11: Three - dimensional Geometry Chapter 12: Linear Programming Chapter 13: Probability
BOARD EXAM	Chapter 1: Relation and Functions Chapter 2: Inverse Trigonometric Functions

	<p>Chapter 3: Matrices</p> <p>Chapter 4: Determinants</p> <p>Chapter 5: Continuity and Differentiability</p> <p>Chapter 6: Applications of Derivatives</p> <p>Chapter 7: Integrals</p> <p>Chapter 8: Applications of the Integrals</p> <p>Chapter 9: Differential Equations</p> <p>Chapter 10: Vectors</p> <p>Chapter 11: Three - dimensional Geometry</p> <p>Chapter 12: Linear Programming</p> <p>Chapter 13: Probability</p>
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