



N. C. JINDAL PUBLIC SCHOOL, PUNJABI BAGH, NEW DELHI-110026
ANNUAL CURRICULUM (2026-2027)

Class-XII	Subject-Applied Mathematics(241)	Subject Teacher(Prepared by): KKJ		Designation: PGT		
Preferred Text Book /Material	Chapter's Name	Chapter Topic/Sub Topic	Term	StartDate	End Date	No of Pds.
Applied Mathematics Grade-XII CBSE Publication	<i>Matrices</i>	Introduction, Matrices & types of matrices, Equality of matrices, Transpose of a matrix, Symmetric and Skew symmetric matrix, Algebra of Matrices and its real life applications	I	1/4/2026	10/4/2026	11
Mathematics Lab	<i>Determinants</i>	Introduction of Determinants, Inverse of a matrix	I	13/4/2026	18/4/2026	7
<i>Manual Class XII</i>	Inverse of Matrix	Solving system of simultaneous equations using matrix method and Cramer's rule, Formulate real life problems and find solution by these methods				
Published by NCERT	Solution of System of Equation					
	<i>Differentiations</i>	Differentiation of Implicit & Parametric function Derivatives up to second order	I	20/4/2026	24/4/2026	7
	<i>Revision</i>	Revision for First Periodic Test 2026-27	I	27/4/2026	2/5/2026	7
	<i>Application of Differentiations</i>	Determine the rate of change of various quantities Marginal Cost and Marginal Revenue using derivatives	I	4/5/2026	8/5/2026	7
		Increasing /Decreasing Functions, Maxima & Minima Solve applied problems related to optimization of cost, revenue and profit only.	I	11/5/2026	18/5/2025	9
	Numbers, Quantification & Numerical	Modulo Arithmetic, Congruence Modulo Its meaning Example, Algebra & application, Alligation & Mixture	I	1/7/2026	4/7/2026	6

	<i>Applications</i>	Apply rule of allegation in real life situation				
		Solve real life problems mathematically like Boats & Streams (upstream and downstream)	I	6/7/2026	10/7/2026	7
		Pipes and Cistens, Race & Games, Numerical Inequalities.	I	13/7/2026	18/7/2026	8
	<i>Probability Distributions</i>	Probability distribution of Random and discrete variables , Mathematical Expectation & Variance	I	20/7/2025	24/7/2025	7
		Binomial Distributions and its Mean ,Variance &S.D	I	27/7/2025	1/8/2025	8
		Poisson Distributions and its Mean & Variance				
	<i>Revision</i>	Revision for Second Periodic Test 2026-27	I	3/8/2026	7/8/2026	7
		Normal Distributions and its evaluation of Standard Normal variate, Area relation of Mean & SD	I	10/8/2026	14/8/2026	7
	<i>Time Based Data</i>	Time Series, Meaning and Definition, Components of Time Series, Time Series analysis for univariate data Secular Trend & Method of measuring trend .	I	17/8/2026	21/8/2026	7
	<i>Linear Programming</i>	Introduction and related terminology ,Mathematical formulation of Linear Programming Problem	I	24/8/2026	29/8/2026	4
		Different types of Linear Programming Problems				
		Graphical method of solution for problems in two variables ,Feasible and Infeasible Regions, Feasible and infeasible solutions, optimal feasible solution				
	<i>Project & File</i>	Suggested Project discussion and File Submission	I	31/8/2026	5/9/2026	7
	<i>Revision</i>	Revision for Half Yearly Examination 2026-27	I	7/9/2026	11/9/2026	6
	<i>Examination</i>	Half Yearly Examination 2026-27	I	14/9/2026	28/9/2026	0

	<i>Integrals</i>	Introduction, Indefinite Integrals as family of curves	II	29/9/2026	3/10/2026	4
		Evaluate indefinite integrals of simple algebraic functions by method of: (i) substitution (ii) partial fraction (iii) by parts	II	5/10/2026	9/10/2026	7
	<i>Application of Integrals</i>	Evaluate simple Definite Integral, Definite Integrals as area, under the curve, Understand fundamental theorem of Integral calculus & apply it to evaluate the definite integral, Apply the definite integral to find CS & PS	II	12/10/2026	17/10/2026	8
	<i>Differential equations Formulating and Solutions</i>	Recognize a differential equation, Find the order and degree of a differential equation, Formulating & Solving Differential Equations (Verification & Solution)	II	21/10/2026	31/10/2026	9
	<i>Revision</i>	Revision for Third Periodic Test 2026-27	II	2/11/2026	6/11/2026	7
	Financial Mathematics	Perpetuity and Sinking Funds, Valuation of Bonds Calculation of EMI, Compound Annual Growth Rate Linear method of Depreciation	II	12/11/2026	21/11/2026	10
	<i>Inferential Statistics</i>	Population and Sample, parameter and Statistics and Statistical Inferences, Null and Alternate Hypothesis t-Test (one sample t-test and for a small group sample)	II	23/11/2026	27/11/2026	5
	<i>Revision</i>	Revision for Pre- Board Examination 2026-27	II	30/11/2026	5/12/2026	7
	<i>Examination</i>	Pre- Board Examination 2026-27	II	7/12/2026	21/12/2026	0
	<i>Revision</i>	Revision Classes for Board Examination 2026-27	II	22/12/2026	31/12/2026	8
	Prepared by: KKJ	Sign.				
	MATHEMATICS CO-ORDINATOR : KKJ					



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Evaluation Criteria (2026-2027)
Internal Assessment: Max. Marks: 20
CLASS: XII, APPLIED MATHEMATICS (241)

Weightage for each area of internal assessment may be as under:

Sl. No.	Area and Weightage	Assessment Area	Marks allocated
1	Project work (10 marks)	Project work and record	5
		Year-end Presentation/ Viva of the Project	5
2	Practical work (10 marks)	Performance of practical and record	5
		Year-end test of any one practical	5
Total			20

Assessment Plan

1. Overall Assessment of the course is out of 100 marks.
2. The assessment plan consists of an External Exam and Internal Assessment.
3. External Exam will be of 03 hours duration Pen/ Paper Test consisting of 80 marks.
4. The weightage of the Internal Assessment is 20 marks. Internal Assessment can be a combination of activities spread throughout the semester/ academic year. Internal Assessment activities include projects and excel based practical. Teachers can choose activities from the suggested list of practical or they can plan activities of a similar nature. For data-based practical, teachers are encouraged to use data from local sources to make it more relevant for students.
