N. C. JINDAL PUBLIC SCHOOL,PUNJABI BAGH, NEW DELHI-110026, ANNUAL CURRICULUM, 2025-2026						
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	Matrices	Introduction, Matrices & types of matrices, Equality	roduction,Matrices & types of matrices,Equality I 01		5/4/2025	7
Mathematics		of matrices, Transpose of a matrix, Symmetric and				
Grade-XII		Skew symmetric matrix,				
CBSE Publication						
		Algebra of Matrices and it's real life applications	Ι	7/4/2025	11/4/2025	5
Mathematics Lab	Determinants	Introduction of Determinants, Inverse of a matrix	Ι	14/4/2025	19/4/2025	7
Mannual Class XII	Inverse of Matrix	Solving system of simultaneous equations using				
Published by	Solution of System	matrix method and Cramer's rule,Formulate				
NCERT	of Equation real life problems and find solution by thease method					
	Differentiations	Differentiation of Implicit & Parametric function Derivatives up to second order	Ι	21/4/2025	25/4/2025	7
	Revision	Revision for First PeriodicTest 2025-26	Ι	28/4/2025	3/5/2025	8
	Application of	Determine the rate of change of various quantities	Ι	5/5/2025	9/5/2025	7
	Differentiations	Marginal Cost and Marginal Revenue using derivatives				
		Increasing /Decreasing Functions,Maxima &Minima Solve applied problems related to optimization of cost, revenue and profit only.	Ι	13/5/2025	16/5/2025	5
	Numbers, Quantifi-	Modulo Arithmetic, Congruence Modulo It's meaning	Ι	1/7/2025	5/7/2025	7
	cation &Numerical	Example, Algebra & application, Alligation & Mixture				
	Applications	Apply rule of allegation in real life situation				

	Solve real life problems mathematically like Boats &	Ι	7/7/2025	11/7/2025	7
	Streams (upstream and downstream)				
	Pipes and Cistens, Race & Games, Numerical	Ι	14/7/2025	19/7/2025	8
	Inequalities.				
Probability	Probability distribution of Random and discreate	Ι	21/7/2025	25/7/2025	7
Distributions	variables, Mathematical Expectation & Variance				
	Binomial Ditributions and its Mean ,Variance &S.D	Ι	28/7/2025	2/8/2025	8
	Poison Ditributions and its Mean & Variance				
Revision	Revision for Second PeriodicTest 2025-26	Ι	4/8/2025	8/8/2025	7
	Normal Ditributions and its evaluation of Standard	Ι	11/8/2025	14/8/2025	5
	Normal variate, Area relation of Mean & SD				
Time Based Data	Time Series, Meaning and Definition, Components of	Ι	18/8/2025	22/8/2025	7
	Time Series, Time Series analysis for univariate data				
	Secular Trend & Method of measuring trend.				
Linear	Introduction and related terminology, Mathematical	Ι	25/8/2025	29/8/2025	7
Programming	formulation of Linear Programming Problem				
	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				
Project & File	Suggested Project discussion and File Submission	Ι	1/9/2025	6/9/2025	7
Revision	Revision for Half Yearly Examination 2025-26	Ι	8/9/2025	11/9/2025	5
Examination	Half Yearly Examination 2025-26	Ι	15/9/2025	26/9/2025	0

Integrals	Introduction, Indefinite Integrals as family of curves,	II	29/9/2025	9/10/2025	8
	Evaluate indefinite integrals of simple algebraic				
	functions by method of:(i)substitution (ii) partial				
	fraction (iii) by parts				
Application of	Evaluate simple Defnite Integral, Definite Integrals as	II	13/10/2025	17/10/2025	7
Integrals	area ,under the curv,Understand fundamental theorem				
	of Integral calculus & apply it to evaluate the definite				
	integral, Apply the definite integral to find CS & PS				
Differential equations	Recognize a differential equation, Find the order and degr	II	24/10/2025	31/10/2025	7
and Modeling	of a differential equation, Formulating and Solving				
	Differential Equations (Verification & Solution				
Financial Mathematics	Perpetuity and Sinking Funds, Valuation of Bonds	II	1/11/2025	7/11/2025	4
Revision	Revision for Third PeriodicTest 2025-26	II	10/11/2025	15/11/2025	8
Financial Mathematics	Calculation of EMI, Compound Annual Growth Rate	II	17/11/2025	21/11/2025	7
	Linear method of Depreciation				
Inferential Statistics	Population and Sample, parameter and Statistics and	II	24/11/2025	28/11/2025	7
	Statistical Interferences, Null and Alternate Hypothesis				
	t-Test (one sample t-test and for a small group sample)				
Revision	Revision for Pre- Board Examination 2025-26	II	1/12/2025	5/12/2025	8
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 Examination	Pre- Board Examination 2025-26	II	6/12/2025	17/12/2025	0
				<u></u>	
Revision	Revision Classes for Board Examination 2025-26	II	18/12/2025	31/12/2025	12
Prepared by: KKJ	Sign.				
MATHEMATICS CO-ORDINATOR : KKJ					

Syllabus Planning for First Periodic Examination 2025-26

Class-XII Sub:-Applied Mathematics(241) Time:- 45 minutes

Marking Scheme

SI.No.	Chapter/ Topic	Max.Marks
1	Matrices & Determinants	20

Syllabus Planning for Second Periodic Examination 2025-26

Class-XII Sub:-Applied Mathematics(241)

Mathematics(241) Time:- 45 minutes Marking Scheme

SI.No.	Chapter/ Topic	Max.Marks
1	Differentiation	7
2	Applications of Differentiation	13
	Total	20

Syllabus Planning for Half Yearly Examination 2025-26

	Class-XII	Sub:-Applied Mathematics	s(241) Time:-3 hours
		Marking Sche	me
SI.No.	Ch	apter/ Topic	Max.Marks
1	Matrices & De	terminants	10
2	Differentiation	1	8
3	Applications of	f Differentiation	11
4	Numbers & its Application		14
5	Probability Dis	tributions	17
6	6 Time Based Data		10
7	Linear Progra	mming	10
	Total		80

Syllabus Planning for Third Periodic Examination 2025-26

Time:- 45 minutes

Class-XII

Sub:-Applied Mathematics(241) Marking Scheme

SI.No.	Chapter/ Topic	Max.Marks
1	Integration and its Applications	10
2	Differential Equations & Modeling	10
	Total	20

Syllabus Planning for Pre Board Examination 2025-26

Class-XII Sub:-Applied Mathematics(241) Time:-3 hours Marking Scheme

Marking Seneme				
SI.No.	Chapter/ Topic	Max.Marks		
1	Numbers, Quantification &	11		
2	Algebra	10		
3	Calculus	15		
4	Probability Distributions	10		
5	Inferential Statistics	5		
6	Time Based Data	6		
7	Financial Mathematics	15		
8	Linear Programming	8		
	Total	80		

Prepared by: KKJ	Sign.
MATHEMATICS CO-ORDINATOR : KKJ	

N. C. JINDAL PUBLIC SCHOOL, PUNJABI BAGH, NEW DELHI-110026 CLASS: -XII (2025-2026) APPLIED MATHEMATICS (241) Internal Assessment Max. Marks: 20 Evaluation Criteria

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

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