N. C. JINDAL PUBLIC SCHOOL,PUNJABI BAGH, NEW DELHI-110026, ANNUAL CURRICULUM, 2023-2024

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,Type,Operation, Transpose ,Inverse of	I	18-03-2023	29-03-2023	10
Mathematics		Matrices and their uniqueness,Symmetric & Skew				
Grade-XII		Symmetric of Matrices				
CBSE Publication						
	Determinants	Introduction of Determinants and their simple	I	01-04-2023	06-04-2023	5
Mathematics Lab		properties ,Area of a triangle				
Mannual Class XII						
Published by NCERT	Inverse of Matrix	Minors, cofactors,Adjoint and inverse of Matrices	I	10-04-2023	15-04-2023	7
	Solution of System	Solution of System of Equation by Cramer's &				
	of Equation	Matrix Method				
	Differentiation	Differentiation of Implicite & Parametric function	I	17-04-2023	21-04-2023	7
		Differentiation of Second & higher order Derivative	I	24-04-2023	28-04-2023	7
	Application of	Introduction of Rate Measure ,Tangents & Normal	I	01-05-2023	06-05-2023	7
	Differentiation	Marginal cost & Marginal Revenue				
	Revision	Revision for First PeriodicTest	I	08-05-2023	12-05-2023	7
	Application of	Increasing & Decreasing functions and Application	I	15-05-2023	18-05-2023	6
	Differentiation					
		Maxima & Minima of functions and Application	I	01-07-2023	07-07-2023	8
	Numbers,Quantifica-	Modulo Arithmetic & conruence Modulo	I	10-07-2023	15-07-2023	8

	tion and Numerical					
	Applications	Alligation and Mixture ,Real life problem like Boats and Stream				
		Pipes and Cistens, Race & Games, Numerical Inequalities.	I	17-07-2023	21-07-2023	7
	Probability Distributions	Probability distribution of Random and discreate variables , Mathematical Expectation & Variance	I	24-07-2023	28-07-2023	7
		Binomial Ditributions and its Mean ,Variance &S.D Poison Ditributions and its Mean & Variance	I	31-07-2023	05-08-2023	*8*
	Revision	Revision for Second PeriodicTest	I	07-08-2023	11-08-2023	7
	Probability Distributions	Normal Ditributions and its evaluation of Standard	I	14-08-2023	18-08-2023	5
		Normal variate, Area relation of Mean & SD	I	21-08-2023	25-08-2023	7
	Index Number and Time Based Data	Chronological Data,Component of Time Series & its analysis for univariate data	I	28-08-2023	02-09-2023	7
		Secular Trend & Method of measuring trend .	I	04-09-2023	08-09-2023	6
	Revision	Revision for Half yearly Examination 2023-24	I	11-09-2023	14-09-2023	6
	Integrals	Introduction,Method of Integration,Integrals of Particular function by Substitution,by Partial Fraction & by Parts,Introduction of Defnite Integral	II	03-10-2023	06-10-2023	6

		Evaluation of Defnite Integrals by Defnition &Subs- titution Evaluation of Defnite Integrals by Property				
	Application of Integrals	Introduction, Area under simple curve using Funda- mental Theorem of Calculus, C.S & P.S	II	09-10-2023	13-10-2023	7
	Differential equations and Modeling	Introduction, Concept of Degree ,Order,Formulation ,solution & application of Differential equations	II	16-10-2023	19-10-2023	5
	Linear Programming	Introduction ,Formation and Graphical solution of LPP &Revision of Second PeriodicTest	II	25-10-2023	31-10-2023	7
	Financial Mathematics	Perpetuity, Sinking Funds,Calculation of EMI and Return,CAGR and Linear method of Depreciation	II	02-11-2023	10-11-2023	10
	Revision	Revision for Pre- Board -1 Examination 2023-24	II	16-11-2023	21-11-2023	7
	Inferential Statistics	Population and Sample,parameter and Statistics Statistical interference and t-Test	II	04-12-2023	06-12-2023	4
	Revision	Revision for Pre- Board -2 Examination 2023-24	II	12-12-2023	19-12-2023	5
	Prepared by: KKJ	**Co-ordinator Name-PCJ**				

Syllabus Planning for First Periodic Examination 2023-24

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

Marking Scheme

Sl.No.	Chapter/ Topic	Max.Marks
1	*Matrices & Determinants*	11
	Total	*20*

Syllabus Planning for Second Periodic Examination 2023-24

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

Marking Scheme

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

Syllabus Planning for Half Yearly Examination 2023-24

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

Marking Scheme

Sl.No.	Chapter/ Topic	Max.Marks
1	*Matrices & Determinants*	19
2	*Differentiation*	8
3	*Applications of Differentiation*	11
4	Numbers & its Application	15
5	*Probability Distributions*	17
6	*Index Nos & Time based data*	10
	Total	**80**

Syllabus Planning for Pre Board Examination 2023-24

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

Marking Scheme

Sl.No.	Chapter/ Topic	Max.Marks
1	Numbers, Quantification & Numerical Application	*11*
2	*Algebra*	10
3	*Calculus*	15
4	*Probability Distributions*	10
5	*Inferential Statistics*	5
6	*Index Numbers& Time based data*	6
7	Financial Mathematics	15
8	*Linear Programming*	8
	Total	**80**

Co-ordinator Name-PCJ	**Sign.**
Subject Teacher Name: KKJ	**Sign.**

N.C. JINDAL PUBLIC SCHOOL
CLASS: -XII (2023-2024)
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 (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.