ARMY PUBLIC SCHOOL, BANGALORE
SPLIT UP SYLLABUS 2023-24

CLASS -   12
SUBJECT-   MATHEMATICS

SL. NO.	MONTH & WORKING DAYS	CONTENT
1.	**MARCH,** **13 DAYS**	**1. Relations & Functions** • Types of relations, Reflexive, Symmetric, Transitive and equivalence relations
2.	**APRIL,** **14 DAYS**	• **Continuation of Relations and Functions** - Bijective function **2. Inverse Trigonometric Functions (ITF)** The values of different inverse trigonometric functions, domain and range of ITF

3.	**JUNE,**
	24 DAYS
		3. Matrices
		Types of matrices, formation of matrices,
		
		• **Continuation of ITF**
		   - Principal Value Branch (PVB)
		
		• **Continuation of Matrices**
		   - Operations on Matrices, Transpose of a matrix
		
		5. Continuity and Differentiability
		   - Continuity, Differentiability, Exponential and Logarithmic functions, Parametric form of differentiation, successive differentiation

			6. **Applications of Derivatives**
			- Rate of Change of bodies,
4.		**JULY, 23 DAYS**	• **Continuation of Matrices** - Symmetric and Skew symmetric matrices, Proof of uniqueness of inverse if it exists. • **Continuation of Applications of Derivatives** - Increasing and decreasing functions, maxima and minima 4 **Determinants** - Determinants, Area of a triangle 7 **Integrals** - Methods of integrations
5.		**AUG, 24 DAYS**	• **Continuation of Determinants** - Minors and Cofactors, inverse of a matrix • **Continuation of Integrals** - Integration by Partial fraction and by parts, definite integral, Properties of integrals 8 **Applications of Integrals** - Area under curves, Area under curves and lines

6.	**SEPT, 22 DAYS**	• **Continuation of Determinants** - Applications of determinants and matrices **9 Differential Equations (DE)** - Order & degree of DE, Methods of solving firs Order, First degree DE, Homogeneous DE, Linear DE
7.	**OCT, 16 DAYS**	• **Continuation of Determinants** - Applications of determinants and matrices **10 Differential Equations (DE)** - Order & degree of DE, Methods of solving firs Order, First degree DE, Homogeneous DE, Linear DE
8.	**NOV, 21 DAYS**	**11 LPP** - Objective function, subject to constraints, feasible region and Corner points. **12 Probability** - Conditional Probability, Multiplication theorem on probability, Independent events, - Baye's theorem, Random Variables and its probability distribution
9.	**DEC, 18 DAYS**	• Revision/ Preboard I
10.	**JAN, 23 DAYS**	Revision/ Preboard II

11.	**FEB,** **24 DAYS**	
12.	**MARCH,** **21 DAYS**	

BOOKS: NCERT TEXTBOOK, RD SHARMA TEXTBOOK,