

# AIR FORCE SCHOOL, BAMRAULI

## ANNUAL SPLIT UP OF SYLLABUS

ACADEMIC SESSION 2026-27

CLASS & SEC: XII –A  
BOOK NAME: NCERT

SUBJECT: - MATHS (041)

Month	Chapter/Unit lesson	Topic/Sub topic	No. of Period	Activity
April	1	Relation and Function: Types of relation, Types of function, Composition of function.	10	
April	2	Inverse Trigonometry: Domain and range of inverse trigonometry. Properties of inverse trigonometric function	5	
April	3	Matrices: Order of matrix, Construction of matrix, Algebra of matrices, Multiplication of matrices, Transpose of matrix, Properties of transpose of matrix	8	
May	4	Determinant: Determinant by expansion, Area of triangle, Minors and cofactor, Adjoint and inverse of matrix, Application of determinant and matrices.	10	
May & June	5	Continuity and differentiability: Continuity, Differentiability, Derivative of composite function, Derivative of implicit function, Derivative of inverse trigonometric function, Exponential and logarithmic function, Logarithmic differentiation, Derivatives of function in parametric form, Second order derivatives.	18	

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July	6	Application of derivative: Derivative as rate measure, Increasing and decreasing function, Maxima and minima. Integral: Integration as inverse process of differentiation, Substitution method, Trigonometric function,	30	
August	7	Integral of some Particular function, Integration by partial fraction, Integration by parts, Integral of some of more types, Definite integral, Properties of definite integral.	28	
	8	Application of integral: Area under simple curves		
September	9	Differential equation: Order and degree of differential equation, General and particular solution of differential equation, First order and first-degree differential equation, Homogeneous differential equation, Linear differential equation.	12	
September	10	Vector Algebra: Types of vectors, Algebra of vectors, Scalar product. Vector product.	6	

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September & October	11	Three-dimensional geometry: Direction ratio and direction cosine of a line, "Straight line", Equation of line, Angle between two lines, shortest distance between two skew lines and b/w two parallel lines.	6	
October	12	Linear programming: Linear programming problem and its mathematical formulation, Graphical method of solving L P P. Up to three non- trivial constraints.	5	
October	13	Probability: Conditional probability, Multiplication theorem on probability, Theorem of total probability, Bayes' theorem, Random variable and probability distribution	12	
November, December and January		Revision, Pre- Board, CBSE Sample Papers and Practice papers		