AIR FORCE SCHOOL, BAMRAULI ANNUAL SPLIT UP OF SYLLABUS

ACADEMIC SESSION 2025-26

CLASS & SEC: XII -A BOOK NAME: NCERT SUBJECT: - MATHS (041)

Month	Chapter/Unit	Topic/Sub topic	No. of Period	Activity
	lesson			
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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ACADEMIC SESSION 2025-26						
July	6	Application of derivative: Derivative as rate measure,	30			
		Increasing and decreasing				
		function, Maxima and minima.				
		Integral:				
		Integration as inverse process of				
		differentiation, Substitution				
		method, Trigonometric function,				
August	7	Integral of some Particular	28			
		function, Integration by partial				
		fraction, Integration by parts,				
		Integral of some of more types,				
		Definite integral, Properties of				
		definite integral.				
		Application of integral:				
	8	Area under simple curves				
		rited dilder simple edives				
September	9	Differential equation:	12			
		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.				
September	10	Vector Algebra:	6			
		Types of vectors, Algebra of				
		vectors, Scalar product. Vector				
		product.				

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ACADEMIC SESSION 2025-26						
September	11	Three-dimensional geometry:	6			
&October		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.				
October	12	Linear programming:	5			
		Linear programming problem				
		and its mathematical				
		formulation, Graphical method				
		of solving L P P. Up to three				
		non- trivial constraints.				
October	13	Probability:	12			
		Conditional probability,				
		Multiplication theorem on				
		probability, Theorem of total				
		probability, Bayes' theorem,				
		Random variable and				
		probability distribution				
November,		Revision, Pre- Board, CBSE				
December		Sample Papers and Practice				
and		papers				
January						