AIR FORCE SCHOOL, BAMRAULI

ANNUAL SPLIT UP OF SYLLABUS
ACADEMIC SESSION 2026-27

CLASS & SEC: XII **SUBJECT: - APPLIED MATHS (241)**
BOOK NAME: M L AGRAWAL

Month	Chapter/Unit lesson	Topic/Sub topic	No. of Period	Activity
April	1	Number Quantification and Numerical problems: Modulo Arithmetic, Congruence modulo, Alligation and Mixture, & Numerical problems.	25	
April	2	Numerical inequalities: Solution of inequalities, graphical solution.	5	
May	3	Matrices: Types of matrices, equality of matrices, transpose of matrices, symmetric and skew symmetric matrix, and algebra of matrices.	10	
June	4	Determinant: Inverse of matrices, Solving system of simultaneous equations using matrix method, Cramer's rule	15	
June	5	Differentiation: Implicit function, Logarithmic differentiation, Parametric form and Higher order derivatives	10	
July	6	Application of derivative: Derivative as rate measure, Tangent and Normal, Increasing and decreasing function, Maxima and minima, Marginal cost and marginal revenue, fixed and variable cost, average cost and Marginal function.	18	
August	7	Integral: Indefinite integrals, substitution method, Partial fraction, Integration by parts, Definite integral, Properties of indefinite integrals, Application of integrals	15	

September	8	Differential equation: Order and degree of differential equation, General and particular solution of differential equation, Formation of differential equations, Variable separable form, Linear differential equation, Application of differential equations	10	
September	9	Probability: Random variable and its probability distribution, mean and variance, Binomial experiment mean and variance, Poisson distribution, Normal distribution	6	
September	10	Inferential Statistics: Population and sample, parameter and statistics and statistical inferential inferences t-test.	6	
September	11	Time based data: Time series, Method of least squares	5	
October	12	Perpetuity, sinking funds and EMI	8	
October	13	Returns, Growth and Depreciation,	8	
October	14	Linear Programming: Graphical method of solving an LPP.	8	
November Dec and Jan 27		Revision, CBSE Sample Paper and Practice paper		