AIR FORCE SCHOOL, BAMRAULI
ANNUAL SPLIT UP OF SYLLABUS
ACADEMIC SESSION 2024-25

CLASS & SEC XI –AB   **SUBJECT: - MATHS**
BOOK NAME: NCERT

Month	Chapter/Unit lesson	Topic/Sub topic	No. of Periods	Activity
June & July	1	Set Theory: Introduction, Sets and their representation, types of sets, Subsets, Venn diagram, some properties of operation of union and intersection, Complement of sets.	6	
	2	Relation and function: Introduction, Cartesian product of sets, Relation, Function	6	
	3	Trigonometric Function: Introduction, Angles, Relation Between degree and radian, Trigonometric function, Trigonometric function of sum and difference of two angles, Submultiple angles	10	
	5	Complex Number: Introduction, Iota, Complex Number, Algebra, modulus and conjugate of Complex Number, Argand Plane and, Quadratic Equation	8	
August	6	Linear Inequalities: Introduction, Inequalities, Graphical solution of inequalities in one variable, Graphical solution of Linear	8	

		Inequalities in two variables.		
	7	Permutation and Combination: Introduction, Fundamental principle of counting Factorial notation, Permutation, Combination.	10	
September	8	Binomial theorem Binomial expansion general term and middle term	6	
	9	Sequence and Series: Introduction, Sequence, Series, GP, Relationship between AM & GM.	12	
	10	Straight Line: Introduction, Slope of line, various Forms of Equation, General Equation of line, Distance of a point from a line, Distance between two parallel, lines. Conic Section:	12	
October	11	Introduction, Circle, Parabola, Ellipse, Hyperbola, Application of Conic section.	10	
	12	Three-Dimensional Geometry: Introduction, Distance between two points, Section formula.	5	

November	13	Limits and Derivatives: Introduction, Limits, Existence of limit, Algebra of limits, Derivatives from first Principle, Product rule, Quotient rule.	10	
December	15	Statistics: Introduction, Mean deviation about mean and median, Variance and Standard Deviation,	10	
January	15	Probability: Introduction, Sample Space, Event, Types of events, Probability, Algebra of probability. (Revision for Annual Exam)	10	
February		Revision For Annual Exam		