AIR FORCE SCHOOL, BAMRAULI

ANNUAL SPLIT UP OF SYLLABUS

ACADEMIC SESSION 2022-23

Class & sec xi –ab subject: - maths

Book name: NCERT

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| Month | Chapter/Unit lesson | Topic/Sub topic |
| August | 123 4 | Set Theory:Introduction, Sets and their representation, types of sets, Subsets, Venn diagram, Some properties of operation of union and intersection, Practical problem on union and intersection of two sets.Relation and function:Introduction, Cartesian product of sets, Relation, FunctionTrigonometric Function:Introduction, Angles, Relation Between degree and radian, Trigonometric function, Trigonometric function of sum and difference of two angles, Sine and cosine formula |
| September | 567 | Complex Number:Introduction, Iota, Complex Number, Algebra, modulus and conjugate of Complex Number, Argand Plane and, Quadratic Equation.Linear Inequalities:Introduction, Inequalities, Graphical solution of inequalities in one variable, Graphical solution of Linear Inequalities in two variables.Permutation and Combination:Introduction, Fundamental principle of counting Factorial notation, Permutation, Combination. |
| October & November | 891011 | Binomial theorem Binomial expansion general term and middle termSequence and Series:Introduction, Sequence, Series, AP, GP, Relationship between AM & GM.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:Introduction, Circle, Parabola, Ellipse, Hyperbola, Application of Conic section. |
| December | 1213 | Three Dimensional Geometry:Introduction, Distance between two points, Section formula.Limits and Derivatives:Introduction, Limits, Existence of limit, Algebra of limits, Derivatives from first Principle, Product rule, Quotient rule. |
| January | 15 | Statistics:Introduction, Mean deviation about mean and median, Variance and Standard Deviation, |
| February | 15 | Probability:Introduction, Sample Space, Event, Types of event, Probability, Algebra of probability.(Revision for Annual Exam) |