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 | 1  2  3  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, Function  Trigonometric Function:  Introduction, Angles, Relation Between degree and radian, Trigonometric function, Trigonometric function of sum and difference of two angles, Sine and cosine formula |
| September | 5  6  7 | 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 | 8  9  10  11 | Binomial theorem  Binomial expansion general term and middle term  Sequence 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 | 12  13 | 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) |