AIR FORCE SCHOOL, BAMRAULI

ANNUAL SPLIT UP OF SYLLABUS

ACADEMIC SESSION 2022-23

Class & sec xii –CD subject: - APPLIED maths

Book name: APC (ML AGGARWAL)

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| Month | Chapter/Unit lesson | Topic/Sub topic |
| April | 3 | Matrices:  Order of matrix, Construction of matrix, Algebra of matrices, Multiplication of matrices, Transpose of matrix, Elementary transformation to find inverse of matrix. |
| April | 4 | Determinant:  Determinant by expansion, Properties of determinant, Area of triangle, Minors and cofactor, Adjoint and inverse of matrix, Application of determinant and matrices |
| May | 1 | Numbers, quantification and Numerical Application. |
| 2 | Numerical In equalities |
| June & July | 5 | Derivative of implicit function, Exponential and logarithmic function, Logarithmic differentiation, Derivatives of function in parametric form, Second order derivatives |
| July  August | 6  7 | Application of derivative:  Derivative as rate measure, Increasing and decreasing function, Tangent and normal, Approximation, Maxima and minima.  Integration as inverse process of differentiation, Substitution method, Integral of some Particular function, Integration by partial fraction, Integration by parts, Integral of some of more types, Definite integral |
| August & September | 8 | Differential equation:  Order and degree of differential equation, General and particular solution of differential equation, Formation of differential equation, First order and first-degree differential  Equation, Homogeneous differential equation, Linear differential equation.  Application of differential equation |
| October | 9 | Probability |
| 10 | Inferential Statistics |
| 11 | Index Numbers and Time -based Data. |
| November | 12 | Perpetuity, Sinking Funds, Bonds and EMI |
| 13 | Stocks, shares and Debentures |
| 14 | Returns Growth and Depreciation |
| 15 | Linear Programming |
| December& January |  | Sample Papers and Revision for Board Examination |