

NDA MATHS SYLLABUS

CHAPTER NAME	SUB TOPIC
FUNDAMENTAL OF MATHEMATIC	Number System Rational System H.C.F and L.C.M Inequality Inequality, wavy curve method Modulus Function
TRIGONOMETRY	Quadrant and Conversion Angle Compound angle Fundamental Transformation (If $A + B = 90^\circ$) General Solution Trigonometry Formula , maximum minimum.
INVERSE TRIGONOMETRIC FUNCTION	Basic of inverse trigonometry function and properties of inverse trigonometry
APPLICATION OF TRIGONOMETRY	Height and Distance and properties of triangle
2- D GEOMETRY	Cordinates and basic formula and equation of line, foot of perpendicular, and pair of straight line
3- D GEOMETRY	Basic, equation of plain and angle, equation of a line and angle between a plain and line
VECTOR	Basic Types of Vector Dot product, Cross product and properties
CONIC SECTION	Hyper bola, Ellipse, Parabola
CIRCLE	Circles General Equation Tangent of Circle
LOGARITHMS	Logarithms Logarithms Exponential form
COMPLEX NUMBER	Basics Power of iota Modulus Conjugate and its properties Polar from, Euler from, square root, Cube root of unity, locus .
SEQUENCE AND SERIES	A.P. G.P. H.P. A.G.P. Misc

STATISTICS	Mean, Median, Mode Measure of depression, correlation and regression
BINOMIAL THEOREM	Expansion, Property of coefficient, General term, Special Expansion, important Series, Miscellaneous
QUADRATIC EQUATION	Basic, Roots and Properties, transformation, Graph, location of roots
PERMUTATION & COMBINATION	Factorial, FPC, Basic Permutation, Restricted Permutation, Circular, Combination, dictionary, group formation
MATRICES	Basic of matrices, types of operation, adjoint of matrices
DETERMINANTS	Minor cofactor ,properties of determinant
FUNCTIONS	Basic of function, domain, Range ,types of function, graphs
SET	Basics, operation on sets, cardinal
RELATION	Basic of relation, type of relation
DIFFERENTIAL EQUATION	Order and degree and formation, solution DE
LIMIT	Basic and L' Hospital
CONTINUITY & DIFFERENTIABILITY	Continuity & Differentiability
DERIVATIVES	Derivatives Fundamental Basic Rules of Derivatives Logarithmic and Brometic Differentiation
APPLICATION OF DERIVATIVE	Rate and error, increasing and decreasing, maxima and minimum, normal and tangent
INDEFINITE INTEGRATION	Basics and all formula, integration by substitution ,integration by parts, praiial fraction.
DEFINITE INTEGRATION	Basic and Properties
APPLICATION OF INTEGRATION	Increasing, decreasing, maxima and minima, normal and tangent
PROBABILITY	Fundamental Conditional Probability Bernoulli Trial, Baye's theorem
BINARY NUMBER	Complete Binary