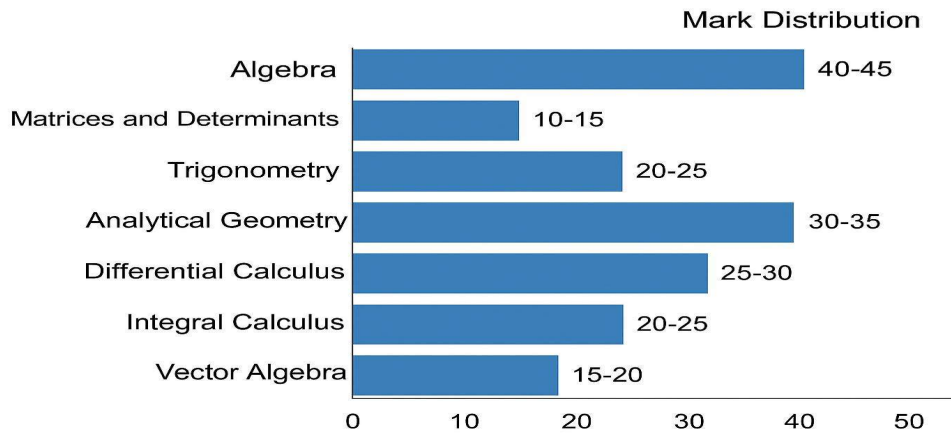


NDA Complete Syllabus (Mathematics + GAT)

NDA Maths Syllabus Weightage



MATHEMATICS (300 MARKS)

1. ALGEBRA

- Sets, Relations, Functions
- Complex Numbers (Argand Plane, Modulus, Conjugate)
- Quadratic Equations (Roots, Discriminant)
- Sequence & Series (AP, GP, HP)
- Binomial Theorem
- Logarithms

2. MATRICES & DETERMINANTS

- Types of Matrices
- Matrix Operations
- Determinants
- Adjoint & Inverse

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3. TRIGONOMETRY

- Trigonometric Ratios
- Identities
- Heights & Distances
- Inverse Trigonometry

4. ANALYTICAL GEOMETRY

- Straight Line
- Circle
- Conic Sections (Parabola, Ellipse, Hyperbola)
- 3D Geometry

5. DIFFERENTIAL CALCULUS

- Limits
- Continuity
- Differentiation

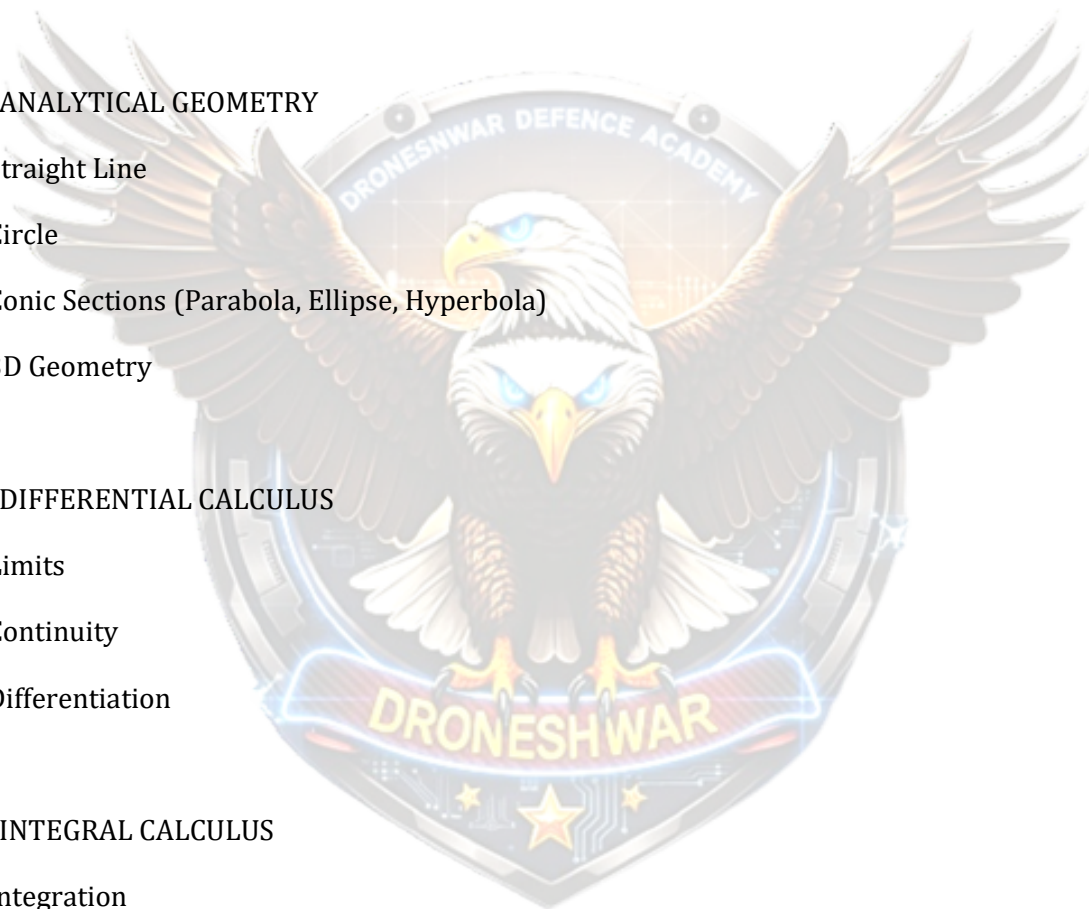
6. INTEGRAL CALCULUS

- Integration
- Definite Integration
- Area under Curve

7. VECTOR ALGEBRA

- Vector operations
- Dot & Cross product

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8. STATISTICS & PROBABILITY

- Mean, Median, Mode
- Variance, Standard Deviation
- Probability

Section	Questions	Marks
English	50	200
Physics	23–27	92–108
History	18–22	72–88
Geography	16–20	64–80
Polity	12–16	48–64
Chemistry	12–16	48–64
Biology	10–14	40–56
Current Affairs + Static GK	10–15	40–60
Economy + Defence	6–10	24–40

GAT (600 MARKS)

PART A: ENGLISH (200 MARKS)

- Grammar (Parts of Speech, Tenses, Articles, Prepositions)
- Vocabulary (Synonyms, Antonyms, Idioms)
- Sentence Correction

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- Comprehension

PART B: GENERAL KNOWLEDGE (400 MARKS)

1. PHYSICS

- Mechanics
- Thermodynamics
- Waves & Sound
- Optics
- Electricity & Magnetism

2. CHEMISTRY

- Atomic Structure
- Chemical Bonding
- Periodic Table
- Organic Chemistry Basics

3. GENERAL SCIENCE

- Biology Basics
- Human Body
- Plants & Animals

4. HISTORY

- Ancient, Medieval, Modern India
- Freedom Movement

5. GEOGRAPHY

- Physical Geography
- Climate, Soil, Resources
- World Geography

6. POLITY

- Constitution
- Fundamental Rights
- Parliament
- President & PM

7. CURRENT AFFAIRS

- National & International News
- Defence, Awards, Sports

IMPORTANT STRATEGY

- Focus on NCERT (Class 11–12)
- Practice Previous Year Questions
- Revise formulas regularly

Mathematics

Algebra, Matrices and Determinants, Trigonometry, Analytical Geometry (2D and 3D), Differential Calculus, Integral Calculus and Differential Equations, Vector Algebra, Statistics and Probability, Set Theory, Complex Numbers, Linear Equations, Quadratic Equations, Arithmetic and Geometric Progressions, Binomial Theorem, Logarithms, Mensuration

English (Part of GAT)

Grammar and Usage, Vocabulary, Comprehension and Unseen Passages, Spotting Errors, Fill in the Blanks, Synonyms & Antonyms, Idioms and Phrases, Sentence Improvement, Para Jumbles, Cloze Test

Physics (NDA Physics Syllabus)

Physical Properties and States of Matter, Motion and Laws of Motion, Force, Gravitation, Work and Energy, Power, Sound Waves, Heat, Thermodynamics, Light - Reflection and Refraction, Optics, Static and Current Electricity, Magnetism, Electromagnetic Induction, Nuclear Physics, Modern Physics, Units and Measurements, Simple Machines, Principles of Archimedes and Pascal

Chemistry

Matter and Its States, Atomic Structure, Chemical Bonding, Elements, Compounds and Mixtures, Chemical Reactions and Equations, Acids, Bases and Salts, Periodic Table, Metals and Non-metals, Carbon and Its Compounds, Fertilizers, Petroleum and Natural Gas, Environmental Chemistry, Important Chemicals in Daily Life

General Science

Basic Biology, Human Body Systems (Digestive, Respiratory, Circulatory), Reproduction, Genetics, Food and Nutrition, Diseases and Prevention, Immunity, Ecology and Environment, Bio-diversity, Plant and Animal Kingdom, Cell Structure and Functions, Biotechnology Basics

History (NDA History Syllabus)

Indian Ancient, Medieval, and Modern History, Indian Freedom Struggle, Revolt of 1857, Indian National Congress, Important Movements and Leaders, Constitution of India, Fundamental Rights and Duties, Basic Governance Structure, Indian Monuments and Culture, World History (Renaissance, French Revolution, Industrial Revolution, World Wars)

Geography

Earth and Its Structure, Rocks and Minerals, Mountains, Rivers and Lakes, Climate and Weather, Soil Types in India, Natural Vegetation, Agriculture and Industries, Important Sea Ports and Airports, Latitudes and Longitudes, Time Zones, Earthquakes and Volcanoes, Oceans and Continents, Environmental Issues, Population and Urbanization

Current Affairs

National and International Events, Defence Exercises and Agreements, Government Schemes, Awards and Honours, Important Personalities, Science and Technology Developments, Sports, Economy and Finance Updates, Environmental Issues, Space and Defence Technology (like ISRO, DRDO), International Organizations (UN, WHO, IMF, World Bank)