

LATEST NDA II 2026 SYLLABUS BREAKDOWN (MATHS & GAT)

If you're preparing for **NDA II 2026**, understanding the latest syllabus is the foundation of smart preparation. The exam is conducted by the Union Public Service Commission for admission into the prestigious National Defence Academy and Naval Academy.

This detailed guide provides a **complete syllabus breakdown for Mathematics and General Ability Test (GAT)** to help aspirants plan their preparation effectively.

NDA II 2026 Exam Structure - Quick Overview

Paper	Subject	Marks	Duration
Paper 1	Mathematics	300	2.5 Hours
Paper 2	General Ability Test (GAT)	600	2.5 Hours
Total	—	900 Marks	5 Hours

Both papers are objective type and conducted offline.

☐☐ NDA II 2026 Mathematics Syllabus (300 Marks)

The Mathematics paper tests conceptual clarity, accuracy, and speed. Questions are based on the **Class 11 & 12 level**.

1☐ Algebra

- Sets and operations
- Venn diagrams
- De Morgan laws
- Complex numbers
- Modulus and argument
- Cube roots of unity
- Binary system of numbers
- Arithmetic, Geometric & Harmonic Progressions
- Quadratic equations
- Permutations and Combinations

- Binomial theorem
- Logarithms and properties

2 **Matrices and Determinants**

- Types of matrices
- Matrix operations
- Determinants
- Adjoint and inverse of matrices
- Solving system of linear equations using matrices

3 **Trigonometry**

- Angles and their measures
- Trigonometric ratios
- Identities and formulae
- Inverse trigonometric functions
- Heights and distances
- Properties of triangles

4 **Analytical Geometry (2D & 3D)**

Two-Dimensional Geometry

- Cartesian coordinate system
- Distance formula
- Section formula
- Straight line
- Pair of lines
- Circle

- Parabola, Ellipse, Hyperbola

Three-Dimensional Geometry

- Coordinates in space
- Distance between points
- Direction cosines and ratios
- Equation of a line and plane
- Angle between lines and planes

5 □ Differential Calculus

- Limits and continuity
- Differentiation of functions
- Composite functions
- Chain rule
- Derivatives of implicit functions
- Applications of derivatives
- Increasing/decreasing functions
- Maxima and minima

6 □ Integral Calculus & Differential Equations

- Integration as inverse of differentiation
- Methods of integration
- Definite integrals
- Area under curves
- Differential equations
- First-order differential equations

7 **Vector Algebra**

- Vectors in two and three dimensions
- Magnitude and direction
- Addition and subtraction
- Scalar (dot) product
- Vector (cross) product
- Applications in geometry

8 **Statistics & Probability**

Statistics

- Mean, median, mode
- Variance and standard deviation
- Frequency distribution

Probability

- Random experiments
- Sample space
- Events and probability laws
- Conditional probability
- Bayes' theorem

▣▣ NDA II 2026 General Ability Test (GAT) Syllabus (600 Marks)

GAT evaluates English skills and general awareness.

▣▣ Part A — English (200 Marks)

Focuses on candidate's understanding of English language.

Topics Covered:

- Grammar and usage
- Vocabulary
- Sentence improvement
- Spotting errors
- Synonyms & Antonyms
- Idioms and phrases
- Comprehension passages
- Para jumbles
- Cloze test

☐☐ Part B – General Knowledge (400 Marks)

Tests awareness of science, humanities, and current events.

☐☐ Physics

- Physical properties and states of matter
- Motion and laws of motion
- Force and energy
- Gravitation
- Heat and thermodynamics
- Waves and sound
- Light and optics
- Electricity and magnetism
- Atomic structure

☐☐ Chemistry

- Physical and chemical changes

- Elements, mixtures, and compounds
 - Atomic structure
 - Chemical reactions
 - Acids, bases, and salts
 - Oxidation and reduction
 - Carbon and its compounds
 - Periodic table basics
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☐☐ **General Science**

- Life processes
 - Human body systems
 - Nutrition and health
 - Diseases and prevention
 - Environment and ecology
 - Biotechnology basics
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☐☐ **History**

- Ancient civilizations
 - Medieval India
 - Modern Indian history
 - Freedom struggle
 - World history (major events)
 - Indian constitution basics
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☐☐ **Geography**

- Earth structure

- Rocks and minerals
- Climate and weather
- Oceanography
- Natural vegetation
- Agriculture and resources
- Indian geography

☐☐ **Current Affairs**

- National and international events
- Defence exercises
- Awards and honours
- Sports events
- Science and technology updates
- Government schemes

☐☐ **Key Preparation Tips for NDA II 2026**

- ☐ Study NCERT Maths (Class 11 & 12) thoroughly
- ☐ Practice previous year NDA question papers
- ☐ Strengthen grammar fundamentals
- ☐ Read newspapers daily for current affairs
- ☐ Revise formulas regularly
- ☐ Take full-length mock tests

☐ **Frequently Asked Questions (FAQs)**

1. What is the syllabus for NDA II 2026?

It includes Mathematics and General Ability Test (English + General Knowledge).

2. Is NDA Maths tough?

It is moderate and based on Class 11-12 concepts.

3. How many marks is the GAT paper?

GAT carries 600 marks.

4. Is the NDA syllabus same every year?

Mostly yes, with minor updates by Union Public Service Commission.

5. Is NCERT enough for NDA preparation?

NCERT builds strong basics, but practice and mock tests are essential.

6. Which subjects are included in GAT?

English, Physics, Chemistry, General Science, History, Geography, and Current Affairs.

7. How should I start NDA II 2026 preparation?

Begin with syllabus understanding, concept clarity, and a study timetable.

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