

NIMCET Syllabus 2025

NIMCET Maths Syllabus 2025

Unit Name	Important Topics
Set Theory	Concept of sets - Union, Intersection, Cardinality, Elementary counting; permutations and combinations.
Probability and Statistics	Basic concepts of probability theory, Averages, Dependent and independent events, frequency distributions, measures of central tendencies and dispersions.
Algebra	Fundamental operations in algebra, expansions, factorization, simultaneous linear/quadratic equations, indices, logarithms, arithmetic, geometric and harmonic progressions, determinants and matrices.
Coordinate Geometry	Rectangular Cartesian coordinates, distance formulae, equation of a line, and the intersection of lines, pair of straight lines, equations of a circle, parabola, ellipse, and hyperbola.
Calculus	Limit of functions, continuous function, differentiation of function, tangents and normals, simple examples of maxima and minima. Integration of functions by parts, by substitution and by partial fraction, definite integrals, and applications of definite integrals to areas.
Vectors	The position vector, addition and subtraction of vectors, scalar and vector products and their applications to simple geometrical problems and mechanics.

Simple identities, trigonometric equations properties of triangles, Trigonometry solution of triangles, heights and distances, general solutions of trigonometric equations.

NIMCET Analytical Ability & Logical Reasoning Syllabus 2025

- Analogy
- Coding Decoding
- Puzzle
- Matrix
- Word Formation
- Venn Diagram
- Direction & Distance
- Blood Relation
- Order & Ranking
- Number Series
- Verbal Reasoning
- Non-Verbal Reasoning

NIMCET English Syllabus 2025

- Basic English
- Comprehension
- Vocabulary
- Meanings and Phrases
- Idioms
- Technical Writing
- synonyms & antonyms
- Fill in the Blanks
- Spellings
- Phrases & Idiom Meaning
- Active & Passive Voice
- Direct & Indirect Speech
- Para Jumble & Sentence Jumble
- Phrase Replacement/Sentence Correction
- Error Spotting
- Sentence Correction
- Cloze Test
- Para Jumbles
- Reading Comprehension

NIMCET Computer Awareness Syllabus

Units

Important Topics

Computer Basics

Organization of a computer, Central Processing Unit (CPU), the structure of instructions in the CPU, input/output devices, computer memory, and backup devices.

Data Representation

Representation of characters, integers and fractions, binary and hexadecimal representations, binary arithmetic: addition, subtraction, multiplication, division, simple arithmetic and two's complement arithmetic, floating-point representation of numbers, Boolean algebra, truth tables, Venn diagrams.