

# IITBMO 2026 Syllabus

## Syllabus for Level I

### 1. Arithmetic

Basic arithmetic, ratio and proportion, time and distance, time and work

### 2. Algebra

Basic algebra, polynomials and equations, inequalities, surds, indices

### 3. Geometry

Basic geometry, mensuration, polygons, trigonometry

### 4. Number Theory

Divisibility, counting, progressions and patterns, mathematical induction

### 5. Miscellaneous

Permutations and combinations, basic probability

## Syllabus for Level II

### 1. Arithmetic

Basic arithmetic, ratio and proportion, time and distance, time and work

### 2. Algebra

Basic algebra, polynomials and equations, inequalities, logarithm, surds, indices, complex numbers, matrices, determinants

### 3. Geometry

Basic geometry, mensuration, polygons, trigonometry, 2-dimensional and 3-dimensional coordinate geometry, conic sections

### 4. Number Theory

Divisibility, counting, progressions and patterns, mathematical induction

### 5. Calculus

Functions, limits, continuity, differentiability, differentiation, integration, applications of calculus to optimization problems

### 6. Miscellaneous

Permutations and combinations, basic probability, linear programming problems (LPP)