## Informatics

## Main topics for entrance examination:

Recursive functions.
Turing machines.
Abstract state machines.
Complexity of algorithms.
Algorithms for sorting and search.
First-order logic (predicate calculus).
Modal logics.
Data types in programming languages.
Object-oriented programming. The notions of classes, objects, inheritance, and interface.
Relational databases. Data normalization in relational databases.

