Candidates for all curricula are expected to have knowledge of computer science fundamentals. In particular, the prerequisites include:

- Fundamentals of programming and programming languages.
- Fundamentals of algorithms and data structures.
- Fundamentals of computer architecture and operating systems.
- Fundamentals of probability and statistics.

Furthermore, each curriculum requires the following specific prerequisites:

**AI**
Candidates for the AI curriculum are expected to have knowledge of mathematics and computer science fundamentals. In particular, the prerequisites include:

- Fundamentals of mathematical analysis: elements of calculus (functions, differential calculus).
- Fundamentals of numerical analysis (including matrix calculus and related notations).
- Fundamentals of formal logic.

**Software**
Candidates for the SW curriculum are expected to have knowledge of mathematics and computer science fundamentals. In particular, the prerequisites include:

- Fundamentals of mathematical analysis: elements of calculus (functions, differential calculus).
- Fundamentals of numerical analysis (including matrix calculus and related notations).
- Fundamentals of formal logic.
- Fundamentals of software engineering.
- Fundamentals of computer networking.

**Big Data Technologies**
Candidates for the BD curriculum are expected to have knowledge of mathematics and computer science fundamentals. In particular, the prerequisites include:

- Fundamentals of mathematical analysis: elements of calculus (functions, differential calculus).
- Fundamentals of numerical analysis (including matrix calculus and related notations).
- Fundamentals of formal logic.
- Fundamentals of databases.
- Fundamentals of computer networking.

**ICT**
Candidates for the ICT curriculum are expected to have knowledge of mathematics and computer science fundamentals. In particular, the prerequisites include:

- Operating systems and computer networking.
- Fundamentals of software engineering.
- Fundamentals of probability and statistics.