**Linea guida per la valutazione individuale (competenze per l'ammissione Laurea Magistrale)**

*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.*

### *Data & Knowledge*

*Candidates for the DK 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.*