

Computing

List of subjects in particular semesters

1st semester

1	Mathematical analysis
2	Fundamentals of fiber optics
3	Physics
4	Theoretical foundations of computing
5	Foreign language (English/German)
6	Fundamentals of philosophy
7	Electronics and theory of circuits
8	Introduction to programming
9	Ergonomics
10	Health and safety at work
11	Library training
12	Physical education

2nd semester

1	Linear algebra with analytical geometry
2	Probabilistic methods
3	Foreign language (English/German)
4	Physical education
5	Electronics and theory of circuits
6	Computer architecture
7	Object programming
8	Discrete mathematics
9	IT tools
10	Physics
11	Professional traineeship

3rd semester

1	Foreign language (English/German)
2	Electronics and measurements
3	Digital circuits
4	Low level programming
5	Algorithms and data structure
6	Operating systems
7	Logic and set theory

4th semester

1	Operational research
2	Fundamentals of automatic control
3	Fiber optics systems
4	Declarative programming
5	Formal languages and compilers
6	Software engineering
7	Operating systems
8	Database systems
9	Professional traineeship

5th semester

1	Artificial intelligence
2	Software engineering
3	Microprocessor technology
4	Computer graphics
5	Computer networks
6	Database systems
7	Geographic information systems

6th semester

1	Fundamentals of management
2	Digitization of business
3	Internet application design
4	Computer security
5	Embedded systems
6	Visual programming
7	Professional internship

7th semester

1	Social and professional problems of computing
2	Team project
3	Diploma seminar
4	Smart buildings
5	Social communication
6	Diploma thesis preparation
7	Intellectual property protection
8	Professional traineeship