Program Structure B.Sc. Information Engineering

1st semester	Introduction to Informatics (6 ECTS)	Fundamentals of Programming (6 ECTS)	Int. Computer Organization and Technology – Computer Architecture (8 ECTS)	Discrete Structures (8 ECTS)	Elective in General Studies (2 ECTS)
2nd semester	Introduction to Software Engineering (6 ECTS)	Basic Principles Operating Systems and System Software (6 ECTS)	Fundamentals of Algorithms and Data Structures (6 ECTS)	Computational Mathematics 1: Linear Algebra (8 ECTS)	Elective in General Studies (3 ECTS)
3rd semester	Fundamentals of Databases (6 ECTS)	Computer Networking and IT Security (6 ECTS)	Information Theory and Theory of Computation (6 ECTS)	Computational Mathematics 2: Calculus (8 ECTS)	Seminar (5 ECTS)
4th semester	Signal Processing (6 ECTS)	Foundations of Cyber-Physical Systems (8 ECTS)	Enterprise Architecture Management & Reference Models (6 ECTS)	Business Process Management (5 ECTS)	Discrete Probability Theory (6 ECTS)
5th semester	Bachelor Practical Course (10 ECTS)	Elective in Informatics (6 ECTS)	Elective in Management (6 ECTS)	Elective in Management (6 ECTS)	Elective in General Studies (2 ECTS)
6th semester	Bachelor's Thesis (12 ECTS)	Bachelor's Colloquium (3 ECTS)	Elective in Informatics (6 ECTS)	Elective in Management (6 ECTS)	Elective in General Studies (2 ECTS)

Informatics

Mathematics

Electives Informatics

Electives Management

Electives General Studies

Bachelor's Thesis