Programme structure – Data Science (M. Sc.)

1. Semester
- Winter
  - Data Security, Law and Ethics in Data Science

2. Semester
- Summer
  - Big Data Technologies
  - Master seminar
  - OR
    - Research project (5 ECTS),
    - Soft skill course (5 ECTS),
    - 2 mandatory courses (MSc Applied Computer Science/Global Software Development) (2·5 ECTS),
    - 2 further courses/electives or electives Data Science (2·5 ECTS)
  - Colloquium

3. Semester
- Summer or Winter
  - Team project (10 ECTS)
  - Data Visualization
  - Data Mining and Predictive Analytics
  - Process Mining
  - Data Engineering
  - Data Analysis
  - Business Developing
  - Security and Ethics
  - Application

4. Semester
- Summer or Winter
  - Master’s thesis
  - Only 120 ECTS option
  - Note:
    - Winter semester: Mid October – End February.
    - Summer semester: Mid April – End July.

Each block has a size of 5 ECTS (except Team project, 10 ECTS). This schedule is valid for a start in winter semester.