

DIGITAL TECHNOLOGIES AND CODING B.SC.

Artificial Intelligence

1ST SEMESTER

| | |
|-------------------------------|----------------|
| Academic Writing and Research | 5 ECTS 3 SWS |
| Basics of Coding | 5 ECTS 4 SWS |
| IT as a profession | 5 ECTS 3 SWS |
| Analysis | 5 ECTS 3 SWS |
| Information Security | 5 ECTS 3 SWS |
| Operating and Data Systems | 5 ECTS 3 SWS |
| 30 ECTS 19 SWS | |

2ND SEMESTER

| | |
|-----------------------------|----------------|
| Global Awareness | 5 ECTS 2 SWS |
| Advanced Coding Skills | 5 ECTS 4 SWS |
| Agile IT Project Management | 5 ECTS 3 SWS |
| Discrete Mathematics | 5 ECTS 3 SWS |
| Networks | 5 ECTS 3 SWS |
| Database Systems | 5 ECTS 3 SWS |
| 30 ECTS 18 SWS | |

3RD SEMESTER

| | |
|-----------------------------------|-----------------|
| Communication OR Self-Reflection* | 5 ECTS 2 SWS |
| Software Project 1 | 10 ECTS 4 SWS |
| Data Structures and Algorithms | 5 ECTS 4 SWS |
| Data Science | 5 ECTS 3 SWS |
| Neural Networks | 5 ECTS 3 SWS |
| 30 ECTS 16 SWS | |

4TH SEMESTER

| | |
|--|-----------------|
| Student Initiative Project OR Creative Thinking* | 5 ECTS 2 SWS |
| Software Project 2 | 10 ECTS 4 SWS |
| Special Topics in Digital Technologies & Coding | 5 ECTS 3 SWS |
| Machine Learning | 5 ECTS 3 SWS |
| AI Systems | 5 ECTS 3 SWS |
| 30 ECTS 15 SWS | |

5TH SEMESTER (INTERNSHIP)

| | |
|---|----------------|
| Technological and Media Literacy OR Civic Literacy* | 5 ECTS 2 SWS |
| Internship | 25 ECTS |
| 30 ECTS 2 SWS | |

6TH SEMESTER

| | |
|---|------------------------------|
| Entrepreneurship OR Social responsibility* | 5 ECTS 2 SWS |
| Entrepreneurship and Innovation | 5 ECTS 3 SWS |
| Research specialisation Digital Technologies & Coding | 5 ECTS 2 SWS |
| Bachelor Thesis | 15 ECTS Individual Support |
| 30 ECTS 7 SWS | |

*Choose from one module from two options.
Winter semester start. Updated Feb 2025. Subject to errors and changes.
Only module plans published in the student portal at the start of the course are binding.