

Compulsory Elective Modules

**Focus Area 1:
Algorithm Engineering
and Mathematical Modelling**

**Focus Area 3: Artificial Intelligence
Systems Engineering
min. 10 ECTS**

**Focus Area 2:
Artificial Intelligence Methods
min. 10 ECTS**

**Focus Area 4:
Artificial Intelligence Applications
min. 10 ECTS**

at least 55 ECTS out of Focus Areas 1 to 4

**Focus Area 5:
Cross-Cutting Concerns
min. 5 ECTS**

at least 70 ECTS out of Focus Areas 1 to 5

**Focus Area 6:
Research Seminars
max. 10 ECTS**

In total at least 80 ECTS

In total at least 120 ECTS

In total 40 ECTS

Compulsory Modules

**Introduction to AI Engineering
5 ECTS***

**Seminar on AI Engineering
5 ECTS**

**Master's Thesis
27 ECTS**

**Master's Thesis: Presentation
3 ECTS**

* has to be passed in the first or second semester