



M.Sc. Human-Centred Artificial Intelligence (from winter semester 2025/26)

Course of study

Full-time: Start of studies (only) in winter semester

The following exemplary course of study shows you in which semesters we recommend which courses, if you complete the Master's degree program full-time. You have a great deal of freedom of choice here, as we offer courses with different focuses in many modules. It is recommended that you complete a total of 30 ECTS* through modules or courses per semester (totalling 120 ECTS in four semesters).

Courses are usually offered on an annual rhythm, i.e. they cannot be completed in every semester, but either annually in the winter semester or annually in the summer semester.

*ECTS and credit points (CP) or in German Leistungspunkte (LP) are the same thing: a measure of the workload during your course of study. According to the European Credit Transfer System (ECTS), one ECTS/CP corresponds to 25 to 30 hours of work (course attendance, preparation and follow-up time as well as studying for exams or writing assignments or papers). Approximately 30 ECTS/CP should be completed in one semester of full-time studies - i.e. 60 ECTS/CP in one academic year of full-time studies.

Full-time

| Module code | Module/course title | CHs | ECTS | Examinations | ECTS per semester |
|-------------------------------|---|-----|------|--------------------------------------|-------------------|
| 1st semester: winter semester | | | | | |
| HCAI-M01.1 | Lecture Introduction to Human-Centred AI | 2 | 3 | written exam | 30 |
| HCAI-M01.2 | Lab Introduction to Human-Centred AI | 2 | 3 | | |
| HCAI-M02.1 | Lecture AI Ethics | 2 | 3 | written paper (incl. presentation) | |
| HCAI-M02.2 | Lab AI Ethics | 2 | 3 | | |
| HCAI-M03.1 | Lecture Technologies for Human-Centred AI 1 | 2 | 3 | written exam or project work | |
| HCAI-M03.2 | Lab Technologies for Human-Centred AI 1 | 2 | 3 | | |
| HCAI-M04.1 | Lecture Technologies for Human-Centred AI 2 | 2 | 3 | written exam or project work | |
| HCAI-M04.2 | Lab Technologies for Human-Centred AI 12 | 2 | 3 | | |
| HCAI-M05 | Free Elective (event of your choice from our offer) | 6 | 6 | written or oral exam or project work | |
| 2nd semester: summer semester | | | | | |
| HCAI-M06.1 | Lecture Explainable AI for Human-Computer-Interaction | 2 | 3 | written or oral exam or project work | 30 |
| HCAI-M06.2 | Lab Explainable AI for Human-Computer-Interaction | 2 | 3 | | |
| HCAI-M07.1 | Lecture Generative AI for Human-Computer-Interaction | 2 | 3 | project work | |
| HCAI-M07.2 | Lab Generative AI for Human-Computer-Interaction | 2 | 3 | | |
| HCAI-M08.1 | Lecture Advanced Information Behaviour | 2 | 3 | project work | |

| | | | | | |
|-------------------------------|---|---|----|--|----|
| HCAI-M08.2 | Lab Advanced Information Behaviour | 2 | 3 | | |
| HCAI-M09.1 | Lecture Deep Reinforcement Learning for Human Decision Strategies | 2 | 3 | oral exam | |
| HCAI-M09.2 | Lab Deep Reinforcement Learning for Human Decision Strategies | 2 | 3 | exercises | |
| HCAI-M10.1 | Project seminar Group Project in Human-Centred AI | 2 | 4 | project work | |
| 3rd semester: winter semester | | | | | |
| HCAI-M11.1 | Project seminar Empirical Human-Centred AI | 4 | 6 | written or oral exam or project work | 30 |
| HCAI-M12.1 | Project seminar Computational Human-Centred AI | 4 | 6 | written or oral exam or project work | |
| HCAI-M13.1 | Project seminar Research Project in Human-Centred AI | 4 | 18 | project work | |
| 4th semester: summer semester | | | | | |
| HCAI-M14.1 | Colloquium Master's Thesis Colloquium | 2 | 2 | regular active participation & final presentation of the Master's Thesis | 30 |
| HCAI-M14.2 | Master's Thesis | | 30 | Master's Thesis | |