| 1. Semester (30 KP) | 2. Semester (30 KP) | 3. Semester (30 KP) | 4. Semester (30 KP) |
|--|----------------------------|---|---|
| RO4100-KP08 Robot Learning 8 KP (4V + 2Ü) RO4000-KP12 Autonomous Systems 12 KP (4V + 4Ü) RO4300-KP08 | | RO5000-KP12 Internship Robotics and Autonomous Systems 1 12 KP (12P) | RO5990-KP30 Master Thesis Robotics and Autonomous Systems 30 KP |
| Machine Learning and Computer Vision 8 KP (4V + 2Ü) | | RO5001-KP12 Internship Robotics and Autonomous Systems 2 12 KP (12P) | |
| Specialization Course 12 KP | | | |
| Elective Courses 16 KP | | | |
| | | PS5000-KP06 Student Conference 6 KP (4S) | |
| Interdisciplinary Field 4 KP | | | |
| 10 Examinations* | | 3 Examinations | 1 Examination |
| Contact hours: V: Lecture / Ü: Laboratory / P: Internship / S: Semina | | ır | KP : Credit points / ECTS credits |
| Compulsory module Robotics und Autonomous Systems | Specialization | Elective (subject-specific) | Elective (interdisciplinary) |

Master Degree Program Robotics and Autonomous Systems (Wintersemester 2019/2020)

Specialization modules RO5100-KP12 Medical Robotics 4V+2Ü+2S RO5200-KP12 Bio-inspired Robotics 4V+2Ü+2S RO5500-KP12 Autonomous Vehicles 4V+2Ü+2S RO4500-KP12 Advanced Control & Estimation 4V+2Ü+2S CS4503-KP12 Ambient Computing 3V+2S+3P CS4504-KP12 Cyber Physical Systems 4V+2Ü+2S

| Elective modules | Language |
|--|----------|
| RO4290-KP04 Current Issues Robotics & Autonom. 2V+1Ü | EN |
| CS4130-KP06 Information Systems 2V+2Ü | DE |
| CS4150-KP06 Distributed Systems 2V+1Ü | DE |
| CS4170-KP06 Parallel Computer Systems 2V+2Ü | EN |
| CS5170-KP04 Hardware/Software Co-Design 2V+1Ü | EN |
| CS4405-KP04 Neuroinformatics 2V+1Ü | DE |
| CS4220-KP04 Pattern Recognition 2V+1Ü | DE |
| RO5100-KP08 Medical Robotics 4V+1Ü | EN |
| RO5200-KP08 Bio-inspired Robotics 4V+2Ü | EN |
| RO5500-KP08 Autonomous Vehicles 4V+2Ü | EN |
| RO4500-KP08 Advanced Control & Estimation 4V+2Ü | EN |
| CS4374-KP06 Medical Deep Learning 2V+2Ü | EN |
| RO5801-KP04 Advanced Topics in Robotics 2V+1Ü | EN |
| CS5204-KP04 Artificial Intelligence 2 2V+1Ü | EN |

^{*}The number of examinations varies according to the choice of modules.