

Osnabrück University - Department of Mathematics/Computer Science - Institute of Computer Science
Courses in English
Master
summer term¹

| no. | Identifier | German title | English title | Contact hours ⁴ | ECTS | Dependencies | Frequency |
|-----|----------------|---|---|----------------------------|------|---|-------------------|
| 1. | INF-INF-MK-6-S | 3D-Sensordatenverarbeitung | 3D Sensor Data Processing | 4 (L2+T2) | 6 | desirable: Programming Language C++ | every second year |
| 2. | INF-INF-MA-9-C | Komplexe Schedulingprobleme | Complex Scheduling Problems | 6 (L2+T2+P2) | 9 | expected: Combinatorial Optimization | unspecified |
| 3. | INF-INF-ME-6-H | Hardware für eingebettete Systeme | Embedded Systems Hardware | 4 (L2+T2) | 6 | none | every second year |
| 4. | INF-INF-MK-9-W | Wissensbasierte Systeme | Knowledge-based Systems | 6 (L4+T4) | 9 | expected: Artificial Intelligence | every second year |
| 5. | INF-INF-MK-6-C | Machine Learning for Complex Data | Machine Learning for Complex Data | 4 (L2+T2) | 6 | expected: Artificial Intelligence desirable: Knowledge-based Systems: Machine Learning and Knowledge Engineering | annually |
| 6. | INF-INF-ME-6-M | Mobilkommunikation | Mobile Communication | 4 (L2+T2) | 6 | obligatory: Computer Networks | every second year |
| 7. | INF-GI-M-RFE | Regionale Themen der (angewandten) Erdbeobachtung | Regional Topics in (Applied) Earth Observation | 6 (L2+S4) | 9 | recommended: Digital Image Analysis | annually |
| 8. | INF-INF-ME-9-Q | Software Qualität | Software Quality | 6 (L4+T2) | 9 | expected: Software Engineering | every second year |
| 9. | INF-INF-MK-6-R | Robotikprojekt | Robotic Project | 4 (P4) | 6 | expected: Robotics desirable: Programming Language C++ | every second year |
| 10. | INF-INF-MS-g | Masterseminar ² | Master Seminar ² | 2 (S2) | 3 | topic dependent | annually |
| 11. | INF-GI-M-TFG-y | Ausgewählte Themen der Fernerkundung und Geoinformatik ³ | Selected Topics in Remote Sensing and Geoinformatics ³ | 4 (S2+S2) | 6 | recommended: Digital Image Analysis | annually |

winter term¹

| no. | Identifier | German title | English title | Contact hours ⁴ | ECTS | Dependencies | Frequency |
|-----|----------------|--|--|----------------------------|------|---|-------------------|
| 1. | INF-INF-MA-9-F | Fortgeschrittene Graphenalgorithmen | Advanced Graph Algorithms | 6 (L4+T2) | 9 | expected: Graph Algorithms | every second year |
| 2. | INF-GI-M-MFE | Fortgeschrittene Methoden der Fernerkundung | Advanced Methods in Remote Sensing | 6 (L2+S4) | 9 | recommended: Digital Image Analysis | annually |
| 3. | INF-INF-MA-9-A | Algorithm Engineering | Algorithm Engineering | 6 (L2+T2+P2) | 9 | expected: Algorithms II | every second year |
| 4. | INF-INF-MA-6-G | Geometrieverarbeitung | Geometry Processing | 4 (L3+T1) | 6 | expected: Computer Graphics | annually |
| 5. | INF-INF-MK-9-K | Knowledge-based Systems: Machine Learning and Knowledge Engineering | Knowledge-based Systems: Machine Learning and Knowledge Engineering | 6 (L4+T2) | 9 | expected: Database Systems expected: Artificial Intelligence | annually |
| 6. | INF-INF-ME-6-M | Mobilkommunikation | Mobile Communication | 4 (L2+T2) | 6 | expected: Computer Networks | every second year |
| 7. | INF-INF-ME-6-V | Robuste Vernetzte Systeme | Robust Networked Systems | 4 (L2+T2) | 6 | obligatory: Computer Networks | every second year |
| 8. | INF-INF-ME-6-R | Rekonfigurierbare und parallele Rechnerarchitekturen | Reconfigurable and Parallel Computer Architectures | 4 (L2+T2) | 6 | desirable: Design of Microelectronic Systems | annually |
| 9. | INF-INF-MA-6-R | Ressourcenbeschränkte Projektplanung | Resource-Constrained Project Scheduling | 4 (L2+T2) | 6 | expected: Combinatorial Optimization | every second year |
| 10. | INF-GI-M-GDA | Geodatenanalyse | Geo Data Analysis | 4 (S2+S2) | 6 | recommended: Statistics | annually |
| 11. | INF-INF-MS-g | Masterseminar ² | Master Seminar ² | 2 (S2) | 3 | topic dependent | annually |
| 12. | INF-GI-M-TFG-y | Ausgewählte Themen der Fernerkundung und Geoinformatik ³ | Selected Topics in Remote Sensing and Geoinformatics ³ | 4 (S2+S2) | 6 | recommended: Digital Image Analysis | annually |

remarks:
¹ The given semester serves only as a hint when the course was last taught.

² There are multiple seminars with changing topics. One seminar per semester in English. Other seminars can be visited; talk and write-up can be in English.

³ There are multiple seminars with changing topics.

⁴ L: lecture, P: practical course, S: seminar, T: tutorial