

Modulliste

für den Masterstudiengang

Data & Knowledge Engineering



an der

**Otto-von-Guericke-Universität Magdeburg
Fakultät für Informatik**

Wintersemester 2024/2025

**Auflistung der Bereiche innerhalb des Studienganges
inklusive der darin vorgesehenen Module:**

FIN: M.Sc. DKE

Masterarbeit

FIN: M.Sc. DKE - Learning Methods & Models for Data Science

ENG - Applied Discrete Modelling
ENG - Data Mining II - Advanced Topics in Data Mining
ENG - Eudaimonic Interaction Design
ENG - Human-Centred Approaches and Technologies
ENG - Human-Centred Natural Language Processing
ENG - Numerical Methods for Visual Computing
ENG - Swarm Intelligence

FIN: M.Sc. DKE - Data Processing for Data Science

ENG - Introduction to Data Warehousing
ENG - Distributed Data Management
DEU - Einführung in die Wissensrepräsentation
DEU - Geometrische Datenstrukturen
DEU - In-Memory und Cloud-Technologien 1
DEU - In-Memory und Cloud-Technologien 2
ENG - Information Retrieval
ENG - Transaction Processing
ENG - VLBA – Cloud DevOps Technologies

FIN: M.Sc. DKE - Applied Data Science

ENG - Algorithm Engineering
ENG - Clean Code Development
DEU - Digitalhandwerk
ENG - Estimation for Autonomous Mobile Robots
DEU - Ethische Herausforderungen im Digitalen Zeitalter
ENG - Eudaimonic Interaction Design
ENG - Human-Centred Approaches and Technologies
ENG - Human-Centred Natural Language Processing
ENG - IT-Security of Cyber-Physical Systems
DEU - Musik Information Retrieval
DEU - Praktikum IT Sicherheit
DEU - Prozessmanagement
DEU - Qualitätsmanagementsysteme (FIN)
ENG - Scientific Writing
DEU - Scrum-in-Practice
DEU - Selected Chapters of IT Security 1
ENG - Selected Chapters of IT Security 2
DEU - Selected Chapters of IT Security 3
DEU - Selected Chapters of IT Security 4
ENG - Seminar Predictive Maintenance
DEU - Software-Development for Industrial Robotics

DEU - VLBA 1: Systemarchitekturen
ENG - VLBA – Cloud DevOps Technologies
ENG - Visual Analytics in Health Care
ENG - Visualization
Wissenschaftliches Team-Projekt
Wissenschaftliches Teamprojekt KMD
DEU - Wissensmanagement – Methoden und Werkzeuge

FIN: M.Sc. DKE - Fundamentals of Data Science

ENG - Introduction to Simulation
ENG - Machine Learning
ENG - Numerical Methods for Visual Computing
ENG - Principles and Practices of Scientific Work and Soft Skills