DKM – Data and Knowledge Management

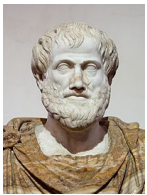
Meet us on the 9th floor!

Martin Giese

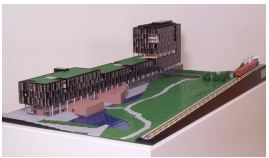
Universitetet i Oslo

12 August 2025

DKM – Data and Knowledge Management



Logic,
Reasoning



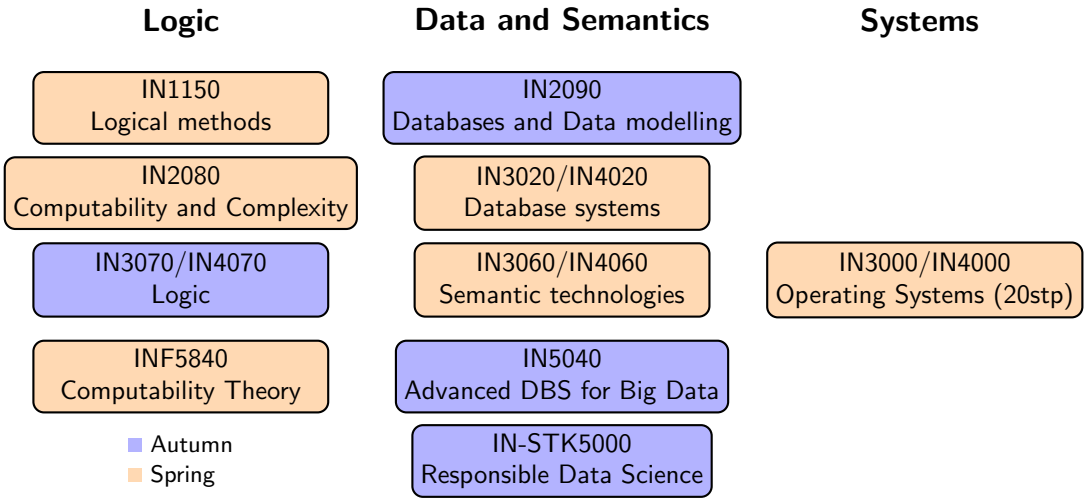
Modeling

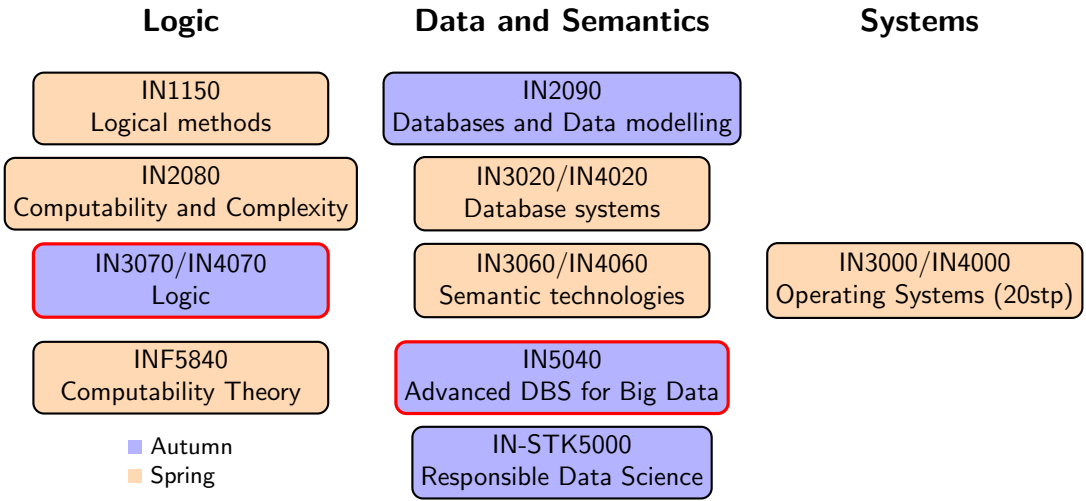
Semantic Web
Technologies

Explainable AI
Responsible AI

Model-driven
Systems

Databases
Data Streams


Logic
Data and Semantics
Systems
IN1150
Logical methods
IN2090
Databases and Data modelling
IN2080
Computability and Complexity
IN3020/IN4020
Database systems
IN3070/IN4070
Logic
IN3060/IN4060
Semantic technologies
IN3000/IN4000
Operating Systems (20stp)
INF5840
Computability Theory
IN5040
Advanced DBS for Big Data
Autumn
Spring
IN-STK5000
Responsible Data Science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Responsible Data Science

IN3070/IN4070 — Logic

Topics:

- Different logics for different purposes
- Different calculi (algorithms) for different logics and purposes
- Proving properties of logics and calculi
- Automated Reasoning – how to make computers prove theorems!

Mondays 10:15–12:00 (Prolog)

Contact: Martin Giese, martingi@uio.no, room 9463, 9th floor

IN5040/IN9040 — Advanced DBS for Big Data

Topics:

- Data Stream Management Systems, Complex Event Processing
- Distributed, Heterogeneous, Multi-Database Systems
- Data Warehouses, Data Mining (ML)
- Web and XML Data Management
- Scalable and Cloud Data Management, NoSQL DBS

IN3020 or IN4020 **strongly** recommended prerequisite.

Lectures: Wesdnesdays, 3 hours, 12:15-15:00, Lille Aud. (KN hus, old Ifi)

Contact: Vera Goebel, goebel@uio.no, room 9163, 9th floor

Exchange Program: Milano — Italy

- Joint supervision
- Spend the 3rd semester abroad
- Human-Centered AI Master Program at the University of Milano-Bicocca

Contact: Ana Ozaki, anaoz@uio.no, room 9464, 9th floor

Interested?

Logic? Ontologies? Semantics? Databases?

Find us on the 9th floor