

## Curriculum “Information and Data Technologies for Web Systems” – Optional Courses

This is the full list of optional courses available for this curriculum.

To see which courses are actually offered in each Academic Year, please refer to the “Courses” page.

Courses	Exam	Credit Points
Advanced Algorithms	yes	4
Advanced Human Computer Interaction	yes	4
Advanced Topics in Machine Learning	yes	4
Advanced Web Systems	yes	4
Applied Natural Language Processing	yes	4
Business processes modelling and tools	yes	4
Computational Biology	yes	4
Computational Linguistics	yes	4
Computer Graphics	yes	4
Conceptual Modelling for Information Systems	yes	4
Database Management and Tuning	yes	4
Decision Making and Support Systems	yes	4
Digital Libraries	yes	4
Distributed Databases	yes	4
eGovernment	yes	4
Embedded and Real-Time Systems	yes	4
Enterprise Application Integration	yes	4
Foundations of Databases	yes	4
Foundations of Logic and Constraint Programming	yes	4
Graph Theory	yes	4
Information Integration	yes	4
Infrastructures for open service oriented architectures	yes	4
Intelligent Agents	yes	4
Intelligent Interfaces	yes	4
Intelligent Systems	yes	4
Internet and Mobile Services	yes	4
Introduction to Artificial Intelligence	yes	4
Introduction to Linguistics	yes	4
Knowledge and content management systems	yes	4
Knowledge Bases and Databases	yes	4

Legal Issues in Computer Science	yes	4
Machine Learning: Algorithms and Applications	yes	4
Moving Objects Databases	yes	4
Multimedia and Hypermedia Systems	yes	4
Multimedia Software Development	yes	4
Open Business Intelligence techniques	yes	4
Open infrastructures for location-based services	yes	4
Open tools and technologies for IT management	yes	4
Project 4	yes	4
Project 8	yes	8
Project 12	yes	12
Randomized Algorithms	yes	4
Requirements and Design of Software Systems	yes	8
Scripting languages for the Internet	yes	4
Semantic Web Technologies	yes	8
Seminar in Databases	yes	4
Similarity Search	yes	4
Software Architectures	yes	4
Software Engineering for Distributed Systems	yes	4
Software Process Management	yes	8
Strategies for Software Production	yes	8
System Security	yes	4
Temporal and spatial Databases	yes	4
Text Processing	yes	4
Theories and Techniques of Optimization	yes	8
Ubiquitous Computing	yes	4
XML Storage and Indexing	yes	4