Module MA-INF 3203	**Intelligent Information Systems**		
Workload 180 h	**Credit points** 6 CP	**Duration** 1 semester	**Frequency** every year
Module coordinator	Prof. Dr. Rainer Manthey		
Lecturer(s)	Prof. Dr. Rainer Manthey		
Classification	**Programme** M. Sc. Computer Science	**Mode** Optional	**Semester** 2. or 3.
Technical skills	Students master the principles of management of derived data both theoretically and in practical systems development and application modeling. They are able to understand and classify the state-of-the-art in research in deductive databases.		
Soft skills	Communicative skills (oral/written presentation, "defending" solutions), self-competence (time management, self-organisation, creativity), social skills (constructive discussion, sharing work in small teams)		
Contents	Syntax and semantics of deductive rules (views); efficient query processing in deductive DB; rule-based change management; IS design for rule-based applications		
Prerequisites	**Recommended:** Good knowledge of the foundations of SQL, predicate logic and set theory		

Format

Teaching format	**Group size**	**h/week**	**Workload[h]**	**CP**
Lecture	60	2	30 T / 45 S	2.5
Exercises	30	2	30 T / 75 S	3.5

T = face-to-face teaching; S = independent study

Exam achievements	Written exam	(graded)
Study achievements	Successful exercise participation	(not graded)
Forms of media		
Literature	• C. Zaniolo, S. Ceri et al.: Advanced Database Systems, Morgan Kaufmann, San Francisco/USA, 1997 • E. Bertino, G. Zarri, B. Catania: Intelligent Database Systems, Addison Wesley, 2001	