Course Descriptions None 2024-2025

Course Title	Database Management
Course Code	EBC2179
ECTS Credits	6,5
Assessment	Whole/Half Grades

Period

Period	Start	End	Mon	Tue	Wed	Thu	Fri
4	3-2-2025	30-3-2025	X		X		

Level	no level
Coordinator	Ron Triepels For more information:r.triepels@maastrichtuniversity.nl
Language of instruction	English
Goals	* Data modeling, SQL, dimensional modeling, normalization, and data security. * Students apply problem solving approaching to exercises from the book and the course manual and develop relevant and creative soluations. Also, they apply their knowledge to their final project. * By learning a structured method to design data models the students are able to find the best possible solution to a given database problem. * When trying to design data bases there are often more then one solution possible. Through discussions in the class rooms students are sensitized for the advantages or disadvantages of the various options. * Students learn to design data bases that work efficiently and effectively. * During the meeting on data security and privacy the impact of data management and collection on individuals and society is explicitely discussed. Also, during guest lectures theses topics are often discussed. * The students are motivated to participate in the classrooom discussion either as a discussion leader or a participant. The work on the final paper develops the students written communication skills. * By letting the students play discussion leader during tutorial meetings they are motivated to take control of their own learning process. * The students work in subgroups for their final paper and for the discussion leader role.
Description	The aim of this course is to introduce students to the theoretical and practical issues related to database management. This includes designing databases using data modelling, querying databases using SQL and understanding the underlying theoretical issues. In addition, we will discuss some data issues from a managerial perspective. The first part of the course will focus on the theoretical and practical issues of designing and using relational databases, which are the foundation of most data management systems in organisations. The concepts of relational databases will be the main emphasis of the course. However, the course will also cover non-relational models, such as dimensional solutions. The second part of the course will be dealing with new trends and approaches to problems in modern web-driven organisations. Formative assessment: Feedback by tutors and peers Summative assessment: Exam, participation, final project presentation and report, subgroup work for final paper and discussion leader role Instructional approach: Tutorial meetings organized by the students, guest lectures
Literature	
Prerequisites	
Keywords	
Teaching methods	
Assessment methods	Written Exam
Evaluation in previous academic year	For the complete evaluation of this course please click http://iwio-sbe.maastrichtuniversity.nl/rapporten.asp?referrer=codeUM

This course belongs to the following programme / specialisation

Bachelor Business Analytics	Year 2 Compulsory Course(s)
Bachelor Econometrics and Operations Research	Year 3 Elective Course(s)