Course Descriptions None 2020-2021

Course Title	Data Management
Course Code	EBC4091
ECTS Credits	6,5
Assessment	Whole/Half Grades

Period

Period	Start	End	Mon	Tue	Wed	Thu	Fri
1	31-8-2020	16-10-2020	X			X	

Level	Advanced
Coordinator	Rita Walczuch For more information:r.walczuch@maastrichtuniversity.nl
Language of instruction	English

Goals

The aim of this course is to introduce you 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.

Graduates have profound, evidence-based and up-to-date academic knowledge and understanding of theories, methods and tools in business/economics. This includes demonstrating the ability to develop new ideas.
Graduates can apply their profound knowledge and understanding to identify and solve also unstructured or semi-structured real life business/economic problems in unfamiliar environments within broader multidisciplinary contexts. This includes demonstrating analytical skills and a problem-solving attitude.
Graduates can independently conduct research.
Graduates can effectively communicate both to specialist and nonspecialist audiences. This includes demonstrating strong presentation skills, project- management skills, interpersonal skills, a high level of argumentation and context sensitivity.

Description

PLEASE NOTE THAT THE INFORMATION ABOUT THE TEACHING AND ASSESSMENT METHOD(S) USED IN THIS COURSE IS WITH RESERVATION. THE INFORMATION PROVIDED HERE IS BASED ON THE COURSE SETUP PRIOR TO THE CORONAVIRUS CRISIS. AS A CONSEQUENCE OF THE CRISIS, COURSE COORDINATORS MAY BE FORCED TO CHANGE THE TEACHING AND ASSESSMENT METHODS USED. THE MOST UP-TO-DATE INFORMATION ABOUT THE TEACHING/ASSESSMENT METHOD(S) WILL BE AVAILABLE IN THE COURSE SYLLABUS.

The first half 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 content of this part of the course will closely follow the mandatory literature for the course.

The second part of the course will be dealing with new trends and approaches to problems in modern web-driven Organisations. The content of this part of the course is less analytical and more conceptual.
During most tutorial meetings, exercises will be discussed. These exercises have to be prepared by all individual students. Working in teams or groups on these assignments is full acceptable, but in no way mandatory. In addition, each student will be involved in hosting two or three tutorial meetings. Finally, the course includes one group assignment which has to be prepared by subgroups of 3-4 students.

Literature	Hofer, Venkatraman and Topi (2019) 'Modern Database Management' 13th edition (Ebook or hard copy)
Prerequisites	Course and workload are very demanding for all IB Master Courses. Exchange students need to have obtained a bachelor degree with a major in Business, Information Systems or a related field. An advanced level of English is mandatory.
Teaching methods	PBL / Presentation / Lecture / Assignment / Groupwork
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

Master Business Research - No specialisation	Year 1 Disc - IB Inf Mgmt Bus Int
Master Business Research - Operations Research	Year 1 Elective Course(s)
Master Business Research - Operations Research	Year 2 Elective Course(s)
Master International Business - Information Management and Business Intelligence	Compulsory Course(s)
Master Information and Network Economics	Business Electives
SBE Exchange Master	Master Exchange Courses
SBE Non Degree Courses	Master Courses