

## Course Descriptions Master 2021-2022

Course Title Data Analytics for DBE  
Course Code EBC4271  
ECTS Credits 6,5  
Assessment Whole/Half Grades

Period	Start	End	Mon	Tue	Wed	Thu	Fri
1	30-8-2021	15-10-2021			X		X

Level no level  
Coordinator Alexander Grigoriev For more information:a.grigoriev@maastrichtuniversity.nl  
Language of instruction English  
Goals The course introduces conventional quantitative techniques for business decision making and obtaining hands-on experience in analysing business processes using available data and quantitative techniques.

After successfully finishing this course, students will be able to:  
\* List several data analytics methods.  
\* Analyse data by using data science concepts.  
\* Demonstrate understanding by developing and explaining how data can be used to provide new insights into business and create value for the business.  
\* Translate business problems into canonical data mining tasks and study business problems from a data perspective.  
\* Interpret and communicate application results from data science concepts in a business context.

Description This course introduces data analytics methods which are often used to support business decisions, particularly data-intensive decision problems. Data science topics such as predictive modelling, data mining, different types of modelling problems, model evaluation and model deployment are discussed. This course relates to several application areas where business problems are studied from a data perspective, business decision making is supported using systematic data analysis. Examples of applications are operations, manufacturing, supply-chain management, customer behaviour modelling, marketing campaign performance, workflow procedures, and so on. Many decision problems in these application areas are characterized by large uncertainty in data. Uncertainty modelling techniques, discussed in this course, are designed to support data driven analysis under these circumstances.

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

Master Digital Business and Economics Compulsory Course(s)