Course Descriptions None 2026-2027

Course Title	Business Intelligence and Data Governance
Course Code	EBC4254
ECTS Credits	5,0
Assessment	Whole/Half Grades

Period

Period	Start	End	Mon	Tue	Wed	Thu	Fri
2	26-10-2026	11-12-2026	X			X	

Level	Advanced
Coordinator	Lars Rieser For more information:l.rieser@maastrichtuniversity.nl
Language of instruction	English
Goals	* Articulate the need for Business Intelligence in organizations and understand how organizational strategy influences BI architecture decisions * Understand the need for centralized data governance and how proper data governance is a necessary condition for successful BI * Demonstrate an understanding of the different types of databases implemented in organizations. * Understand the need for Information Security at the individual and organizational level * Evaluate real-life BI architectures/strategies and recognize strength and weaknesses of individual approaches
Description	In the course "Business Intelligence Systems" students learn about the myriad of ways organizations collect, store, manage and analyse data as well as the foundational technologies of the Big Data era. While talk of Big Data and its applications is dominating the headlines of the business press, many organizations struggle with organizing their corporate data and managing it in a strategic, efficient, and ethical manner. In this course students will become familiar with all aspects of the Business Intelligence lifecycle, ranging from the initial extract, transform and load (ETL) processes over data storage to the final end-user application. In doing so we will discuss about different database and file management systems but will also dedicate an equal amount of time to discussing aspects related to Business Intelligence architecture and Business Intelligence Strategy. The course is designed to give equal attention to the understanding of the technical and theoretical principles that underpin organizational Business Intelligence, as well as to the practical application of this knowledge. As such this course makes use of the case studies methodologies in which students are asked to apply their theoretical knowledge towards resolving real-life cases.
Literature	Academic Articles, Case Studies (Harvard Business Cases)
Prerequisites	
Keywords	big data, data management, data governance
Transitional Regulations	
Teaching methods	Lecture / Groupwork
Assessment methods	Final Paper / Assignment / Presentation
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 Intelligence and Smart Services	Compulsory Courses