

## Course Descriptions None 2025-2026

Course Title Data Engineering and Data Governance  
Course Code EBC2199  
ECTS Credits 6,5  
Assessment Whole/Half Grades

Period	Start	End	Mon	Tue	Wed	Thu	Fri
4	2-2-2026	27-3-2026	X		X		

Level Advanced  
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Language of instruction English  
Goals

- Build and manage scalable data architectures (data lakes, warehouses, etc.)
- Perform data wrangling, cleaning, and transformation on large datasets
- Understand and implement data governance principles, ensuring compliance, security, and quality across the data lifecycle
- Integrate ontologies and metadata management for improved data semantics and discoverability
- Leverage cloud-based data platforms for storage, processing, and analysis
- Establish and monitor data pipelines that are reliable, automated, and efficient

Description As data is the main backbone of data science, business intelligence and data-driven decision-making, the main aim of this course is to introduce different data collection, storage, and processing of large volumes of data in a reliable and efficient way.

Literature

Prerequisites

Keywords

Transitional Regulations

Teaching methods PBL / Lecture

Assessment methods Final Paper / Participation / Assignment

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 3 Elective Courses