# Course Descriptions None 2022-2023

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

Period

| Period | Start | End | Mon | Tue | Wed | Thu | Fri |
|---|---|---|---|---|---|---|---|
| 2 | 31-10-2022 | 16-12-2022 | X | | | X | |

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| 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<br>* Understand the need for centralized data governance and how proper data governance is a necessary condition for successful BI<br>* Demonstrate an understanding of the different types of databases implemented in organizations.<br>* Understand the need for Information Security at the individual and organizational level<br>* Evaluate real-life BI architectures/strategies and recognize strength and weaknesses of individual approaches |
| Description | PLEASE NOTE THAT THE INFORMATION ABOUT THE TEACHING AND ASSESSMENT METHOD(S) USED IN THIS COURSE IS WITH RESERVATION. A RE-EMERGENCE OF THE CORONAVIRUS AND NEW COUNTERMEASURES BY THE DUTCH GOVERNMENT MIGHT FORCE COORDINATORS 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.<br><br>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 |
| 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

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| Master Business Intelligence and Smart Services | Compulsory Course(s) |