Course Descriptions None 2020-2021

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

Period

Period	Start	End	Mon	Tue	Wed	Thu	Fri
2	26-10-2020	11-12-2020	X			X	

Level	Advanced
Coordinator	Lars Rieser For more information:l.rieser@maastrichtuniversity.nl
Language of instruction	English
Goals	* Understand the diverse data landscape of modern organizations * Be familiar with different data and file management systems such as RDBM, Data Warehouses, NoSQL and HDFS * Analyse and design organizational data infrastructure using data modelling * Apply ethical guidelines to analyse organizational data collection, storage and utilization * Develop insights with respect to the BI lifecycle in organizations, ranging from ETL to end user applications
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. 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 such traditional relational databases, but also more recent non-relational databases such as NoSQL databases or the Hadoop File System. We will further discuss and analyse the ethical implications of organizational data collection and storage and how legislative developments such as the General Data Protection Regulation (GDPR) or the California Consumer Privacy Act (CCPA) have impacted organizational behaviour. Teaching methods: Lectures, problem based learning (PBL), workshop Assessment methods: Final report, presentation
Literature	Textbook, articles
Prerequisites	
Keywords	big data, data management, data governance
Teaching methods	PBL / Lecture / Groupwork
Assessment methods	Final Paper / Attendance / 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 Course(s)