

Course Title	Data science for business IT		
Semester	Fall (semester 1)		
Inholland	Engineering, Design and Informatics (Techniek, Ontwerp en Informatica)		
Faculty			
Language of	English		
instruction			
Cycle	Bachelor level		
Inholland	Term 1: Alkmaar		
Location	Term 2: Alkmaar/Diemen (every other week - transport costs will be covered)		
Code Subjects	Code	Subject Title	ECTS
	1921DATAIZ	Data Integration	15
	1921DATASZ	Data Science	15
Number of ECTS	30		
Content	Data integration		
subjects	You will collect data from heterogeneous sources. You will design and		
	implement an architecture for storing this data. Making the data available to a		
	data scientist.		
	Data science		
	You will translate the customer's question into a question for the data scientists		
	(Mathematical Engineering students). When they have done their work, you will		
	translate their answers inter	o an answer that your cust	tomer can understand.
Lecturer(s)	Lecturer/ Coordinator: , Erik Ellinger		
	Business IT and Management Lecturers: Bob Montijn, Andries Kooijman		
	Mathematical Engineering lecturers: Frank Brandse, Vera Hollink		
Learning	Data Integration		
outcomes	The student identifies and opens heterogeneous sources to be able to load		
	them into a database. An architecture must be designed for this. The student		
	cleans up the data and assesses and checks the quality of the sources. The		
	student does this in prepa	ration for the transformatio	on of the sources to make
	the data suitable for analy	sis in the follow-up project	
	Data Science		
	The student can generate	business insights from dat	ta together with a data
	scientist and present them	to the business. The stud	lent does this by collecting
	and interpreting data from	different heterogeneous s	ources from the first
	project. The student tries t	o find answers to the clien	t's question. The student
	collects the requirements	and discusses with the ME	students which analysis



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	must be performed to answer the question. The analysis is performed by a ME		
	student. The student then checks whether the prediction comes true and		
	provides steering information for further decision-making. Based on this, the		
	student formulates a recommendation for the business.		
Mode of	During the minor, you work on two projects for an external client.		
delivery,			
planned	The first phase focuses on the "Data Integration" project. During this project,		
activities and	you, and a group of 3 students will unlock sources and load them into a		
teaching	database. You will then clean up the data and assess and check the quality of		
methods	the sources. You can see these steps as preparation for project 2 "Data		
	Science" in which you will analyze the data.		
	This second project is being carried out together with students from the		
	Mathematical Engineering (ME) study program in Diemen.		
	Project meetings are held every week in which the students work on the		
	project, workshops are held, or guest lectures are given.		
	Testing and assessment takes place based on the two completed projects of		
	"Data Integration" and "Data Science."		
Prerequisites	Knowledge of databases		
and co-			
requisites (if			
applicable)			
Recommended			
or required			
reading and/or			
other learning			
resources/tools			
Assessment	For both projects, the students must deliver a product and a final report to be		
methods and	presented in a final presentation. The result is judged by the lecturers and the		
criteria	clients. Lecturers and clients must both approve the result.		