

**CURRICULUM M.SC. DATA SCIENCE**  
**DISTANCE LEARNING, 60 ECTS credits**

Semester			Module	Course Code	Course	ECTS credits	Type of Exam
FT	PT I	PT II					
1. Semester	1. Semester	1. Semester	Advanced Statistics	DLMSAS01	Advanced Statistics	5	Advanced Workbook
			Use Case and Evaluation	DLMSUCE01	Use Case and Evaluation	5	Oral Assignment
			Seminar: Current Topics in Data Science	DLMSSCTDS01	Seminar: Current Topics in Data Science	5	Research Essay
	2. Semester	2. Semester	Machine Learning	DLMSML01	Machine Learning	5	Exam
			Deep Learning	DLMSDL01	Deep Learning	5	Oral Assignment
			Case Study: Model Engineering	DLMSME01	Case Study: Model Engineering	5	Case Study
2. Semester	3.	ELECTIVE A **		e.g. Big Data and Software Engineering	10		
	3.	4.	Master Thesis	DLMMTHE01 DLMMTHE02	Master Thesis Thesis Defence	18 2	Master Thesis Presentation: Colloquium
Total			60 ECTS credits				



You've already planned out exactly how your course schedule should look? Wonderful! The IU offers you the flexibility to choose any module you like from any semester. You can work on a number of modules at the same time or one by one.



At the beginning, choose modules that particularly interest you or that you can use directly in your job. This motivates you and gives you success right from the start.



\* Elective: Choose one module

FT: Full-Time, 12 months  
PT I: Part-Time I, 18 months  
PT II: Part-Time II, 24 months

**Elective A**

Big Data and Software Engineering  
Smart Manufacturing Methods and Industrial Automation  
Applied Autonomous Driving  
AI and Mastering Prompting



You can find more information about your degree program in the module handbook on our website.