

**CURRICULUM M.SC. DATA SCIENCE
DISTANCE LEARNING, 120 ECTS**



Semester		Module		Course Code	Course	ECTS	Type of Exam
FT	PT I PT II	1. Semester	2. Semester				
				DLMBDSA01	Data Science	5	Exam
				DLMDSAM01	Advanced Mathematics	5	Exam
				DLMDSDDSS01	Seminar: Data Science and Society	5	Research Essay
				DLMDSAS01	Advanced Statistics	5	Advanced Workbook
				DLMDSUCE01	Use Case and Evaluation	5	Oral Assignment
				DLMDSPPSUC01	Project: Data Science Use Case	5	Portfolio
				DLMDSPWP01	Programming with Python	5	Written Assignment
				DLMDSML01	Machine Learning	5	Exam
				DLMDSDL01	Deep Learning	5	Oral Assignment
				DLMDSBDT01	Big-Data-Technologies	5	Oral Assignment
					e.g. Data Science Specialist	10	
				DLMCSITSDP01	Cyber Security and Data Protection	5	Oral Assignment
				DLMDSME01	Case Study: Model Engineering	5	Case Study
				DLMDSSEDIS01	Software Engineering for Data Intensive Sciences	5	Oral Assignment
					e.g. Industrial Automation and Internet of Things	10	
				DLMDSCTDS01	Seminar: Current Topics in Data Science	5	Research Essay
				MIMTHE01 MIMTHE02	Master Thesis Colloquium	27 3	Master Thesis
Total						120 ECTS	



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.



* Electives: Choose two modules, every elective module can only be chosen once.

FT: Full-Time, 24 months
PT I: Part-Time I, 36 months
PT II: Part-Time II, 48 months



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

Elective A

- Data Science Specialist
- Technical Project Lead
- Data Engineer
- Business Analyst

Elective B

- Management
- Sales, Pricing and Brand Management
- Consumer Behaviour and Research
- Corporate Finance
- Innovative and Change
- Cognitive Computing
- Applied Autonomous Driving
- Self Learning Systems
- Industrial Automation and Internet of Things