CURRICULUM M.SC. DATA SCIENCE

DISTANCE LEARNING, 120 ECTS

Semester FT	Semester PT I	Semester PT II	Module	Course Code	Course	ECTS	Type of Exam
1. Semester	1. Semester	1. Semester	Data Science	DLMBDSA01	Data Science	5	Exam
			Advanced Mathematics	DLMDSAM01	Advanced Mathematics	5	Exam
			Seminar: Data Science and Society	DLMDSSDSS01	Seminar: Data Science and Society	5	Research Essay
		2. Semester	Advanced Statistics	DLMDSAS01	Advanced Statistics	5	Workbook
	2. Semester		Use Case and Evaluation	DLMDSUCE01	Use Case and Evaluation	5	Oral Assignment
			Project: Data Science Use Case	DLMDSPDSUC01	Project: Data Science Use Case	5	Portfolio
2. Semester		3. Semester	Programming with Python	DLMDSPWP01	Programming with Python	5	Written Assignment
			Machine Learning	DLMDSML01	Machine Learning	5	Exam
	3. Semester		Deep Learning	DLMDSDL01	Deep Learning	5	Oral Assignment
		4. Semester	Big Data Technologies	DLMDSBDT01	Big Data Technologies	5	Oral Assignment
			ELECTIVE MODULE A **		e.g. Data Science Specialist	10	
3. Semester	4. Semester	5. Semester	Cyber Security and Data Protection	DLMCSITSDP01	Cyber Security and Data Protection	5	Oral Assignment
			Case Study: Model Engineering	DLMDSME01	Case Study: Model Engineering	5	Case Study
		6. Semester	Software Engineering for Data Intensive Sciences	DLMDSSEDIS01	Software Engineering for Data Intensive Sciences	5	Oral Assignment
	5. Semester		ELECTIVE MODULE B **		e.g. Industrial Automation and Internet of Things	10	
		7.	Seminar: Current Topics in Data Science	DLMDSSCTDS01	Seminar: Current Topics in Data Science	5	Research Essay
4.	6.	8.	Master Thesis	MMTHE01 MMTHE02	Master Thesis Colloquium	27 3	Master Thesis
Total 120 ECTS							

Elective A	Elective B
Data Science Specialist	Management
Technical Project Lead	Sales, Pricing and Brand Management
Data Engieer	Consumer Behaviour and Research
Business Analyst	Corporate Finance
	Innovative and Change
	Cognitive Computing
	Applied Autonomous Driving
	Self Learning Systems
	Industrial Automation and Internet of Things