MSc Degree in Data Science Matriculation Fall 2021	ce for Society and Business						
Module Code	Program-Specific Modules	Туре	Assessment	Period	Status ¹	Semester	СР
Semester 1							30
	CORE Area						10
	Unit: Digital Societies						
MDSSB-DSOC-01	Module: Digital Societies and Future Economies Digital Societies and Future Economies	Lecture	Written examination	Examination period	m	1	5
MDSSB-DSOC-02	Module: Data Science Concepts	Lecture	WITELETT EXBITITION	Examination period	m	1	5
	Data Science Concepts	Lecture/Tutorial	Written examination	Examination period			
	Elective Area - students choose one module from those listed below						5
	Methods Area						5
MDSSB-MET-01	Module: Data Science Tools				m	1	5
	Data Science Tools Discovery	Lecture/Tutorial	Project report	Examination period			5
MDSSB-APP-01	Module: Current Topics and Applications in Data Science				m	1	-
	Current Topics and Applications in Data Science	Lecture	Project report	Examination period			
	CAREER						5
MCA006	Module: Communication and Presentation Skills		01		m	1	2.5
ITI A year	Communication and Presentation Skills Module: Language 1	Seminar	Oral presentation	During semester	m	1	2.5
JTLA-xxx	German is the default language. Native German speakers take modules in and	other offered language.				1	2.3
JTLA-xxx	Language 1	Seminar	Various	Various	me		
Semester 2							30
	CORE Area						10
	Unit: Digital Transformation in Business						
MDSSB-DTRANS-01	Module: Digital Public Spheres				m	2	5
	Digital Public Spheres	Seminar	Term paper	Examination period			
MDSSB-DTRANS-02	Module: Digital Business Models & Functions				m	2	5
	Digital Business Models and Functions Elective Area	Lecture	Term paper	Examination period			5
	- Students choose a module from those listed below.						-
	Methods Area						5
MDSSB-MET-02	Module: Text Analysis and Natural Language Processing				m	2	5
	Text Analysis and Natural Language Processing	Seminar/Lab	Project report	Examination period			
	Discovery						5
MDSSB-DSCI-01	Module: Data Science Lab Data Science Lab	Lab	Project	Examination period	m	2	5
	CAREER	Lau	rioject	Examination period			5/2.5
MDSSB-EIR-01	Module: IT-Law				me*	2	2.5
JTLA-xxx	Data Ethics Module: Language 2	Lecture	Term Paper	Examination period	m	2	2.5
JTLA-xxx	Language 2	Seminar	Various	Various	me		
Semester 3							30
	CORE Area						10
	Unit: Data Science and Artificial Intelligence Concepts						-20
MDSSB-DSAI-01	Module: Digital Transformation and Innovation				m	3	5
A	Digital transformation of organizations Digital services and innovation	Seminar Seminar	Term paper	Examination period			2.5 2.5
MDSSB-DSAI-02	Module: Artificial Intelligence in Business & Society	Seriillai			m	3	5
	Artificial Intelligence in Business and Society	Lecture/Lab	Project	During semester			
	Elective Area						5
	- students choose one module from those listed below Methods Area						5
MDSSB-MET-03	Module: Visual Communication and Data Story Telling				m	3	5
	Visual Communication and Data Story Telling	Lecture/Tutorial	Project report	During semester			
	Discovery						5/0
MDSSB-CAP-01	Module: Capstone Project	Combon	Desires	D. day and the	me*	3	5
	Capstone Project CAREER	Seminar	Project	During semester			5/12.5
MDSSB-EIR-01	Module: Ethics and the Information Revolution				me*	3	2.5
	The Information Revolution	Seminar	Term paper (report)	Examination period	e		2.5
JTLA-xxx	Module: Language 3	Schiller	- February		me*	3	2.5
JTLA-xxx	Language 3	Seminar	Various	Various			
MDSSB-INT-01 Semester 4	Module: Internship	11. 11. 10. 1			me*	3	10
	Internship	Internship/Project	Report	Examination period			30
MDSSB-THE-01	Master Thesis						30
	Module: Master Thesis DSSB Master Thesis				m	4	30
Total CP	INIOSCEL LITESIS						120

Total CP
Im = mandatory, me = mandatory elective

* Students can replace the Capstone project, and two of the indicated career modules with an internship. See 3.5.5 in the handbook.

Elective Area							
Students choose 15 CP of	manadatory electives						
,	Society and Business Track						25
MDSSB-SOCB-01	Module: Cybercriminology				me	1 or 3	5
	Cybercriminology	Seminar	Term paper	Examination period			
MDSSB-SOCB-02	Module: Introduction to Computational Social Science				me	2	5
	Computational Social Science	Seminar	Term paper	Examination period			
MCO009	Module: Smart Cities and Transport Concepts				me	3 or 1	5
51009	Smart Cities and Transport Concepts	Lecture	Project report	Examination period			
MDSSB-ECON-01	Module: Sustainability Economics				me	3 or 1	5
	Sustainability Economics	Seminar	Presentation / term paper	Examination period / during semester			
MCO010	Module: Principles of Consulting				me	3 or 1	5
51010	Principles of Consulting	Lecture/Seminar	Group project (report)	Examination period			
	Advanced Data Science Track						20
MCO011	Module: Data Analyitcs				me	1 or 3	5
340131	Data Analyitcs	Lecture/Tutorials	Written examination	Examination period			
MESC001	Module: Data Mining				me	2	5
340122	Data Mining	Lecture	Project report	Examination period			
MCO013	Module: Machine Learning				me	2	5
320372	Machine Learning	Lecture	Written examination	Examination period			
MMM014-	Module: Introduction to Data Management with Python				me	3	5
	Introduction to Data Management with Python	Lecture/Tutorials	Written examination/ Programming assignments	Examination period / during semester			
	Environment and Health Track						20
MEGI001	Module: Geo-Informatics				me	1	5
210103	Geo-Information Systems	Lecture	Term paper	Examination period	m		2.5
210103	Introduction to Eath and System Data	Lecture	тепп рарег		m		2.5
MEGI002	Module: Geo Informatics Lab				me	2	5
210001	Geo Informatics Lab	Lecture	Term paper	Term paper			
MEBI003	Module: Modeling and Analysis of Complex Systems				me	1 or 3	5
550453	Modeling and Analysis of Complex Systems	Lecture	Written examination	Examination period			
MMM007	Module: Network Approaches in Biology and Medicine				me	3 or 1	5
	Network Approaches in Biology and Medicine	Lecture	Presentations	During semester			
Total CP							65