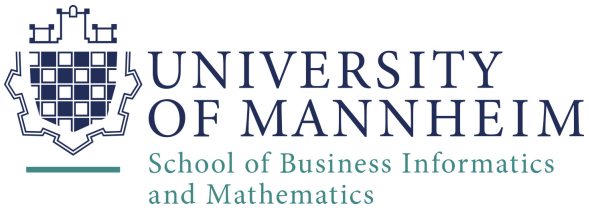
Master of Science (M.Sc.)

"Mannheim Master in Social Data Science"



– Appendix –

Academic Year
HWS 2026 / FSS 2027

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1. Overview

D. Data Science Methods: Specialization

Module no.	Name of Module	Offered	Language	ECTS	Page
	Advanced Quantitative Methods (6 ECTS) + Tutorium Advanced Quantitative Methods (2 ECTS)	FSS	E	8	*

*For further information about the course, please refer to the website of the Graduate School of Economics and Social Data Science

E. Data Science Applications

Module no.	Name of Module	Offered	Language	ECTS	Page
IE 697	Data Science in Action	HWS	E	6	3

2. Detailed descriptions

E. Data Science Applications

IE 697: Data Science in Action

Module number	IE 697
Title	Data Science in Action
Form of module	Lecture
Type of module	Elective
Level	Master
ECTS	6
Workload	**Hours in presence:** 28 h per semester (2 SWS) **Self-study:** 112 h per semester
Prerequisites	Recommended: Knowledge in Data Mining, Machine Learning, Statistics or empirical research methods
Aim of module	Participants get insights in current Data Science Research in Computer Science as well as the economic and social sciences. The participants get an insight in the different perspectives on Data Science present in different research communities
Learning outcomes and qualification goals	**Professional competence:** • Students will acquire knowledge of current research in Data Science (MK2, MK3) **Methodological competence:** • Students learn to understand and summarize the state of the art in a certain area and discuss achievements and open problems (MF2, MKO2) **Personal competence:** -
Media	Slides, Research Papers
Literature	Recommended Papers from invited speakers
Methods	Lectures, independent study
Form of assessment	Written Essay (length: 10-35 pages depending on the topic)
Admission requirements for assessment	-
Duration of assessment	6-8 weeks (writing of the essay)
Language	English
Offering	HWS
Person in charge	Prof. Dr. Heiner Stuckenschmidt
Duration of module	1 semester

Further modules	-
Programs	M.Sc. Data Science, M.Sc. Social Data Science
Semester	2nd/ 3rd/ 4th semester