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Overview of modules in M.Sc. Mind, Brain and Behavior

Modulnummer	Modulbezeichnung	Modulart
MBB-MA-KM-1	Practical Training	Core module (13 CP)
MBB-MA-KM-2	Research Practice	Core module (9 CP)
MBB-MA-THM-1	Visual Perception of Color and Materials	Theory module (6 CP)
MBB-MA-THM-2	Perception and Action	Theory module (6 CP)
MBB-MA-THM-3	Visual Cognition and Object Perception	Theory module (6 CP)
MBB-MA-THM-4	Current Topics in Cognition and Development	Theory module (6 CP)
MBB-MA-AM-1	Programming	Application module (8 CP)
MBB-MA-AM-2	Capturing and Emulating the World	Application module (8 CP)
MBB-MA-AM-3	Computational Modelling	Application module (8 CP)
MBB-MA-AM-4	Imaging and Recording Brain Activity	Application module (8 CP)
MBB-MA-AM-5	Measuring Human Behavior	Application module (8 CP)
	L	I
MBB-MA-REF-1	Elective Module 1	Elective module (6 CP)
MBB-MA-REF-2	Elective Module 2	Elective module (6 CP)
MBB-MA-TM	Master Thesis Module	Thesis module (30 CP)

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MBB-MA-KM-1		Practical Training		13 CP
Core module	FB	06 / Psychologie / Studiendekana	ət	3. semester
		first offered in WS 2023/24		5. semester
 Neuroscienc gain experie Neuroscienc combine the 	rith professiona e nce and practic e ir acquired skill	l activities in fields related to Be al training in fields related to Bel s with practical on-the-job traini neir personal career planning	navioral Scien	-
Frequency and Dura	tion: annually	sional fields related to Mind, Bra	in, and Behav	ior
Module Coordinato				
Applies to the Study	Programs: M.S	Sc. Mind, Brain, and Behavior		
Prerequisites for Par	rticipation: Nor	ne		
Forms of Instruction	:	Contact hours		on, exercises and w-up work
Practical tra	ining	360		30
Total:		39	90	
Prerequisites for Exa	amination: Non	e		
Module final examin Term paper The module	(5 pages)	ut evaluated with passed/failed		
Language of instruct	ion and exami	nation: English		
Notes: Module infor	mation and lite	rature: see semester notice / Da	tes: see cours	se catalog.

Behavior"	Special Regulation for Master Degree Courses in Faculty 06 Joint Attachment 2: Module descriptions "Mind, Brain and Behavior"	04.02.2021	7.36.06 Nr. 5	S. 4
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Please note that only the German version of the modules is official and legally binding. The English version is for informative purposes only.

MBB-MA-KM-2	Research Practice	9 CP
Core module	FB 06 / Psychologie / Studiendekanat	3. Semester
	first offered in WS 2023/24	J. Jemester

Learning Outcomes:

The students

- gain practical experience in empirical data collection and scientific work in the context of ongoing research projects in the departments
- gain knowledge and skills about the steps involved in experimental science
- learn to apply a particular set of methodical procedures
- learn to evaluate and document recorded data
- learn to present, interpret and discuss scientific findings
- are able to choose a topic for the Master thesis

Content:

Research projects in the field of

- Experimental psychology (Prof. für Allgemeine Psychologie, Kurt-Koffka-Professur für Experimentelle Psychologie)
- Perception and action (Prof. für Allgemeine Psychologie mdS Wahrnehmung und Handlung)
- Visual Neuroscience (Prof. für Allgemeine Psychologie und Visuelle Neurowissenschaften)
- Developmental Psychology (Prof. für Entwicklungspsychologie)
- other related topics (e.g., movement sciences, computer science)

Frequency and Duration: annually, 2 Semester, Seminar 1 WS or SS, Seminar 2 WS or SS

Module Coordinator: Studiendekanat

Applies to the Study Programs: M.Sc. Mind, Brain, and Behavior

Prerequisites for Participation: None

Forms of Instruction	Contact hours	Preparation, exercises and follow-up work	Project
Seminar	30	60	0
Project	0	0	180
Total:		270	

Prerequisites for Examination: Participation in 1 research project of a department (conception, planning, implementation)

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Behavior"	04.02.2021	7.50.00 Nr. 5	3.5
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Module final examination:

- Term paper (5 pages) or presentation (20-40 minutes) about 1 research project at the teacher's discretion, will be determined at the beginning of the course
- The module is not graded but evaluated with passed/failed

Language of instruction and examination: English

Notes: Module information and literature: see semester notice / Dates: see course catalogue

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MBB-MA-THM-1	Visual	l Perception of Color and M	laterials	6 CP
	FB 06 / Psycł	hologie / Abt. Allgemeine F	Psychologie	
Theory module	fi	irst offered in WS 2022/23		- 1. Semeste
 gain fundamental gain an overververververververververververververv	ental knowledge view of techniques o critically discuss s in color and mat niques (e.g. psych	ophysics, neuroimaging, m	dy color- and ma on color- and m	iterial perception laterial perception
recent development Frequency and Durat Module Coordinator Visuelle Neurowissen	opments in the fie tion: annually, S1 : Prof. für Allgeme nschaften	elds of color and material p WS or SS, S2 WS or SS eine Psychologie / Prof. für	r Allgemeine Psy	chologie und
 recent development development Frequency and Durat Module Coordinators Visuelle Neurowissen Applies to the Study 	opments in the fie tion: annually, S1 : Prof. für Allgeme schaften Programs: M.Sc.	elds of color and material p WS or SS, S2 WS or SS	r Allgemeine Psy	chologie und
recent development Frequency and Durat Module Coordinator Visuelle Neurowissen	opments in the fie tion: annually, S1 : Prof. für Allgeme oschaften Programs: M.Sc. ticipation: None	elds of color and material p WS or SS, S2 WS or SS eine Psychologie / Prof. für	Allgemeine Psy Preparatic	chologie und on, exercises and w-up work
recent development develo	ppments in the fie tion: annually, S1 : Prof. für Allgeme schaften Programs: M.Sc. ticipation: None : 1 –	elds of color and material p WS or SS, S2 WS or SS eine Psychologie / Prof. für Mind, Brain, and Behavior	Allgemeine Psy Preparatic	on, exercises and
recent development Frequency and Durat Module Coordinator Visuelle Neurowissen Applies to the Study Prerequisites for Par Forms of Instruction: Seminar S1	ppments in the fie tion: annually, S1 : Prof. für Allgeme schaften Programs: M.Sc. ticipation: None : 1 – and practice	elds of color and material p WS or SS, S2 WS or SS eine Psychologie / Prof. für Mind, Brain, and Behavior Contact hours	Allgemeine Psy Preparatic	on, exercises and w-up work

• Regular attendance and a combination of a maximum of 2 of the following examination types, to be determined by the teacher at the beginning of each seminar: presentation (20-40 minutes), group work (30-40 minutes), term paper (5 pages)

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Module final examination:

• Written exam (90-120 minutes), oral exam (20-40 minutes), or term paper (10-16 pages)

Language of instruction and examination: English

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MBB-MA-THM-2	Perception and Action	6 CP
Theory module	FB 06 / Psychologie / Abt. Allgemeine Psychologie und Abt. Entwicklungspsychologie	1. Semester
	first offered in WS 2022/23	

Learning Outcomes:

The students

- gain knowledge on the theoretical basis of the interplay of perception and action
- understand space perception for action
- acquire knowledge about typical experimental paradigms and methods to study the interplay of perception and action
- study the characteristics of different goal-directed movements and their application in psychological research
- gain knowledge about theories and current debates on the development of perception and action
- acquire knowledge about experimental designs and methods of infant research
- gain knowledge about theories on action planning
- study the role of motor development in children' object perception
- acquire knowledge about theories on perception-action coupling in children with motor impairments

Content:

- models of perception and action
- prediction in perception and action
- spatial reference frames
- eye movements
- reaching and grasping in infants and adults
- acting in real and virtual environments
- predictive abilities in early childhood
- visual-spatial abilities during infancy
- changes in action planning during childhood
- motor development

Frequency and Duration: annually, S1 WS or SS, S2 WS or SS

Module Coordinator: Prof. für Allgemeine Psychologie mdS Wahrnehmung und Handlung / Prof. für Entwicklungspsychologie

Applies to the Study Programs: M.Sc. Mind, Brain, and Behavior

Prerequisites for Participation: None

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Forms of Instruction:	Contact hours	Preparation, exercises and follow-up work
Seminar S1 – Space perception and action	30	60
Seminar S2 – Development of perception and action	30	60
Total:	Total: 180	

Prerequisites for Examination:

• Regular attendance and a combination of a maximum of 2 of the following examination types, to be determined by the teacher at the beginning of each seminar: presentation (20-40 minutes), term paper (5 pages)

Module final examination:

• Written exam (90-120 minutes), oral exam (20-40 minutes), or term paper (10-16 pages)

Language of instruction and examination: English

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MBB-MA-THM-3	Visual Cognition and Object Perception	6 CP
Theory module	FB 06 / Psychologie / Abt. Allgemeine Psychologie	1. Semester
meory module	first offered in WS 2022/23	1. Semester

Learning Outcomes:

The students

- gain knowledge about the interplay between perceptual processes and cognition, with a focus on objects and their properties
- learn how to dissect behavioral tasks to identify distinct computational challenges and their associated processes in the human perceptual and cognitive systems
- understand the historical context of current controversies in object perception and cognition
- gain knowledge about the primary methods used to probe attention, working memory and perceptual process associated with objects
- understand how computational models can formalize psychological theories of objectrelated perceptual and cognitive processes

Content:

- pre-attentive perceptual processes involved in identifying and tracking objects and their properties
- visual search, attentional selection and saliency
- processing capacity limitations and their impact on human task performance
- visual working memory: theory and experiments
- objects as a psychological construct: historical and contemporary perspectives in infants and adults
- theories and computational models of object recognition
- grouping, occlusion and object permanence
- implicit and explicit physical reasoning
- numerosity, number sense and statistical representations

Frequency and Duration: annually, S1 WS or SS, S2 WS or SS

Module Coordinator: Kurt-Koffka-Prof. für Experimentelle Psychologie

Applies to the Study Programs: M.Sc. Mind, Brain, and Behavior

Prerequisites for Participation: None

Forms of Instruction:

Contact hours

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Seminar S1 – Visual object perception	30	60
Seminar S2 – Visual cognition	30	60
Total:	180	

Prerequisites for Examination:

• Regular attendance and a combination of a maximum of 2 of the following examination types, to be determined by the teacher at the beginning of each seminar: presentation (20-40 minutes), term paper (5 pages)

Module final examination:

• Written exam (90-120 minutes), oral exam (20-40 minutes), or term paper (10-16 pages)

Language of instruction and examination: English

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MBB-MA-THM-4 Curre		ent Topics in Cognition and Development		6 CP		
FB 06 / Psyc		ologie / Abt. Allgemeine Psychologie und Abt. Entwicklungspsychologie		12. Semester		
_		first offered in WS 2022/23				
 Learning Outcomes: The students gain insight into current research topics in experimental and developmental psychology (e.g., color and material perception, perception and action, development of face processing, motor cognition, music perception) deepen their knowledge about theories and current debates in perception, cognition and the development of perception, cognition and action deepen their knowledge about experimental paradigms and methods to study perception, cognition and the development of perception, cognition and action 						
 Content: recent developments in the fields of perception, cognition and developmental psychology different research topics from the fields of perception, cognition and developmental psychology with a focus on new findings and current debates (e.g., color and material perception, perception and action, development of face processing, motor cognition, music perception) Frequency and Duration: annually, S1 WS or SS, S2 WS or SS 						
Module Coordinator	: Prof. für Allge	meine Psychologie / Prof. für Ent	twicklungspsy	chologie		
Applies to the Study	Programs: M.S	c. Mind, Brain, and Behavior				
Prerequisites for Par	ticipation: Non	e				
Forms of Instruction:		Contact hours	•	on, exercises and ow-up work		
Colloquium 1 – Current topics in perception and cognition		30	60			
Colloquium 2 – Deve perception, cognition		30		60		
Total:		1	.80			
Prerequisites for Exa	mination:					

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• Regular attendance

Module Examination:

• No final examination, the module is not graded

Language of instruction and examination: English

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MBB-MA-AM-1		Programmir	ng	8 CP
Application	FB 06 / P	sychologie / Abt. Allge	meine Psychologie	
module		first offered in WS 2	022/23	12. Semester
learn how tolearn how togain experies	oncepts of prog work with arra work with extended work with extended	gramming with Matlab ays and matrices ernal data files and how se basics of logical ope ical experiments		d debugging
 introduction introduction transforming hands-on production 		ronment ons in Matlab designs into programm eoretical concepts (see		
Frequency and Dura	tion: annually,	S1 WS or SS, S2 WS or	SS	
Module Coordinator	: Prof. für Allge	meine Psychologie mo	IS Wahrnehmung und H	andlung
Applies to the Study	Programs: M.S	Sc. Mind, Brain, and Be	havior	
Prerequisites for Par	rticipation: Nor	1e		
Forms of Instruction	:	Contact hours	Preparation, exercises and follow-up work	Project
Seminar S1 – N	Matlab I	30	60	30
Seminar S2 – N	/latlab II	30	60	30
Total:			240	
Prerequisites for Exa	amination:	1		

• Regular attendance and a combination of a maximum of 2 of the following examination types, to be determined by the teacher at the beginning of each seminar: presentation (20-40 minutes), term paper (5 pages)

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Module final examination:

• Written exam (90-120 minutes), term paper (10-16 pages), or individual/group project work (60 hours; e.g., solving programming tasks)

Language of instruction and examination: English

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MBB-MA-AM-2	Capturing and Emulating the World	8 CP
Application	FB 06 / Psychologie / Abt. Allgemeine Psychologie	23. Semester
module	first offered in WS 2022/23	23. Jennester

Learning Outcomes:

The students

- learn about recent advances in computer graphics (CG) and virtual reality (VR) research
- understand how problems can be expressed in programming code
- study how motion capture and VR are used as a tool in psychological research
- acquire a working knowledge of CG software for stimulus generation
- understand the core concepts of 3D modelling, lighting design, material editing, and rendering
- learn to use stimuli and program a first VR experiment

Content:

- fundamental knowledge about CG and VR research in Psychology
- basic programming
- 3D modelling and stimulus generation
- scene conceptualization in real and virtual worlds
- real and virtual photography, videography and content editing workflows
- design and creation of a first VR experiment

Frequency and Duration: annually, S1 WS or SS, S2 WS or SS

Module Coordinator: Kurt-Koffka-Prof. für Experimentelle Psychologie / Prof. für Allgemeine Psychologie mdS Wahrnehmung und Handlung

Applies to the Study Programs: M.Sc. Mind, Brain, and Behavior

Prerequisites for Participation: None

Forms of Instruction:	Contact hours	Preparation, exercises and follow-up work	Project
Seminar S1 – Computer graphics, CG	30	60	30
Seminar S2 – Virtual reality, VR	30	60	30
Total:		240	

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Behavior"				
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Prerequisites for Examination:

• Regular attendance and a combination of a maximum of 2 of the following examination types, to be determined by the teacher at the beginning of each seminar: presentation (20-40 minutes), term paper (5 pages)

Module final examination:

• Written exam (90-120 minutes), term paper (10-16 pages), or individual/group project work (60 hours; e.g., designing a VR experiment).

Language of instruction and examination: English

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MBB-MA-AM-3		Computational M	odelling	8 CP
Application	FB 06 / Ps	sychologie / Abt. Allge	meine Psychologie	
module		first offered in WS 2	023/24	- 23. Semester
mind, brain a gain practica data learn a variet learn to prog Content: studies exem application o supervised at Bayesian app deep neural model and da Frequency and Durat Module Coordinator Applies to the Study	Ind behavior l experience in ty of modellin gram computa plifying differ f computation nd unsupervis proaches networks: trai ata visualization tion: annually : Kurt-Koffka- Programs: M ticipation: Fo	n developing and testi g approaches and the itional models in softwork rent modelling approach hal modelling methods sed machine learning r ining and testing on methods r, S1 WS or SS, S2 WS of Prof. für Experimentel .Sc. Mind, Brain, and E r participation, studer	s to real data nethods or SS lle Psychologie	lels of behavioral d weakness by researchers eted AM-1
Forms of Instruction	:	Contact hours	exercises and follow-up work	Project
Seminar S1 – Intro computational m		30	60	30
Seminar S2 – Deep	learning	30	60	30
Total:			240	
Prerequisites for Exa	mination:			

1				
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	Behavior"	04.02.2021	7.50.00 NT. 5	5.15
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• Regular attendance and a combination of a maximum of 2 of the following examination types, to be determined by the teacher at the beginning of each seminar: presentation (20-40 minutes), term paper (5 pages)

Module final examination:

• Written exam (90-120 minutes), term paper (10-16 pages), or individual/group project work (60 hours; e.g., training and testing a mathematical model).

Language of instruction and examination: English

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MBB-MA-AM-4	Ir	maging and Recording	Brain Activity	8 CP
Application	FB 06 / Ps	ychologie / Abt. Allge	meine Psychologie	
Learning Outcomes:		first offered in WS 2022/23		– 23. Semester
 acquire know humans acquire know (fMRI) learn how to learn how to learn how to acquire know learn how to Content: foundations event-related 	tages and disad wledge about th wledge about th o design an fMR o record brain a conduct brain wledge about di o analyze and in of electroencep d potentials in p	ne theoretical basis of ne theoretical basis of I experiment ctivity in the EEG lab scans using an MR sc ifferent types of artef terpret EEG and fMR phalography and of fM perception, action an	acts I data MRI	ecordings (EEG) in
 data pre-pro statistical da plotting data Frequency and Dura	teessing (e.g. art ta analyses (e.g a and interpretin tion: annually,	g. ERP amplitude and ng spatial maps S1 WS or SS, S2 WS o		ysis, MVPA)
 data pre-pro statistical da plotting data Frequency and Dura Module Coordinator	ta analyses (e.g. art ta analyses (e.g a and interpretin tion: annually, r: Prof. für Allge	tefact reduction, data g. ERP amplitude and ng spatial maps S1 WS or SS, S2 WS o	latency, GLM, ROI ana r SS ndS Wahrnehmung und	ysis, MVPA)
 data pre-pro statistical da plotting data Frequency and Dura Module Coordinator für Allgemeine Psych	ta analyses (e.g. art ta analyses (e.g a and interpretin tion: annually, r: Prof. für Allge nologie und Visu	tefact reduction, data g. ERP amplitude and ng spatial maps S1 WS or SS, S2 WS o emeine Psychologie m	latency, GLM, ROI ana r SS ndS Wahrnehmung und aften	ysis, MVPA)
 data pre-pro statistical da plotting data Frequency and Dura Module Coordinator für Allgemeine Psych	ta analyses (e.g. art ta analyses (e.g a and interpretin tion: annually, r: Prof. für Allge nologie und Visu Programs: M.S	tefact reduction, data g. ERP amplitude and ng spatial maps S1 WS or SS, S2 WS o emeine Psychologie m uelle Neurowissensch Sc. Mind, Brain, and B	latency, GLM, ROI ana r SS ndS Wahrnehmung und aften	ysis, MVPA)
 data pre-pro statistical da plotting data Frequency and Dura Module Coordinator für Allgemeine Psych Applies to the Study	ta analyses (e.g. art ta analyses (e.g a and interpretin tion: annually, r: Prof. für Allge nologie und Visu Programs: M.S	tefact reduction, data g. ERP amplitude and ng spatial maps S1 WS or SS, S2 WS o emeine Psychologie m uelle Neurowissensch Sc. Mind, Brain, and B	latency, GLM, ROI ana r SS ndS Wahrnehmung und aften	ysis, MVPA)
 data pre-pro statistical da plotting data Frequency and Dura Module Coordinator für Allgemeine Psych Applies to the Study Prerequisites for Par	ta analyses (e.g. art ta analyses (e.g a and interpretin tion: annually, r: Prof. für Allge nologie und Visu Programs: M.S rticipation: Nor	tefact reduction, data g. ERP amplitude and ng spatial maps S1 WS or SS, S2 WS o emeine Psychologie m uelle Neurowissensch Sc. Mind, Brain, and B	latency, GLM, ROI ana r SS ndS Wahrnehmung und aften ehavior Preparation, exercises and	ysis, MVPA) Handlung / Prof.

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Total: 240

Prerequisites for Examination:

• Regular attendance and a combination of a maximum of 2 of the following examination types, to be determined by the teacher at the beginning of each seminar: presentation (20-40 minutes), term paper (5 pages)

Module final examination:

• Written exam (90-120 minutes), term paper (10-16 pages), or individual/group project work (60 hours; e.g., collecting and analyzing imaging data)

Language of instruction and examination: English

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MBB-MA-AM-5		Measuring Human	Behavior	8 CP
Application	FB 06 / Ps	Psychologie / Abt. Allgemeine Psychologie		2 2 Somestor
module		first offered in WS 2	023/24	– 23. Semester
 learn how to use relevant the results understand t perceptual for Content: basic conception 	ith different e use tracking e programs to a the value of ey unctions, path	equipment and record inalyze and visualize e re and body movemen ological situations, as nt tracking	nt tracking techniques eye and body movem ye and body movemer at data for human perfo well as associated prac	nt data and interpret ormance,
 implications perception a introduction hands-on pra design and ir reaching/gra 	of eye and bo nd pathology to eye and bo actice of the th nplementation sping, standin	(e.g., training, rehabili dy movement tracking neoretical concepts (se n of eye and body mov g, walking)	g systems (e.g., Optotr	ak) ments (e.g.,
Frequency and Dura	tion: annually	, S1 WS or SS, S2 WS o	or SS	
Module Coordinator für Allgemeine Psych	-	emeine Psychologie m	ndS Wahrnehmung und	d Handlung / Prof.
Applies to the Study Programs: M.Sc. Mind, Brain, and Behavior				
-	Prerequisites for Participation: For participation, students have to have completed AM-1 Programming or provide evidence of experience with Matlab programming (e.g., module(s) with at least 6 CP).			
Forms of Instruction	:	Contact hours	Preparation, exercises and follow-up work	Project
Seminar S1 – Body analysis		30	60	30

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	Total:	240	
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Prerequisites for Examination:

• Regular attendance and a combination of a maximum of 2 of the following examination types, to be determined by the teacher at the beginning of each seminar: presentation (20-40 minutes), term paper (5 pages)

Module final examination:

• Written exam (90-120 minutes), term paper (10-16 pages), or individual/group project work (60 hours; e.g., collecting and analyzing behavioral data).

Language of instruction and examination: English

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Please note that only the German version of the modules is official and legally binding. The English version is for informative purposes only.

MBB-MA-TM	30 CP				
	FB 06 / Psychologie / Alle Abteilungen				
Thesis Module 4. Semester first offered in WS 2023/24 4. Semester					
Learning Outcomes: The students • gain profound knowledge about empirical data collection and scientific work • learn scientific argumentation • learn to reflect the contents of the Master program • learn to conduct, analyze and write down a research project					
 Content: Work independently on a research project Collect and analyze empirical data within a time of 150 days Complete a written thesis on the research project 					
Frequency and Duration: annually					
Module Coordinator: Alle departments					
Applies to the Study Programs: M.Sc. Mind, Brain, and Behavior					
Prerequisites for Participation: Registration to 1 core module, 4 theory modules, and 3 application modules					
Forms of Instruction:Contact hoursPreparation, exercises follow-up work					
Master thesis 100 800			800		
Total: 900					
Prerequisites for Examination: Participation in 2 research projects of a department					
 Module final examination: Complete and submit the master thesis in due time (50-80 pages) 					
Language of instruction and examination: English					

Language of instruction and examination: English

Notes: Module information and literature: see semester notice / Dates: see course catalogue