

Degree Programme	Bachelor of Science 'Human Movement in Sports and Exercise'
Module	Neuro Cognitive and Neuro Motor Performance
Module Number	9

1	Basic information
Semester	3.-4. semester
Credit points (CP)	12
Workload (h) - total	360
Duration of module	2 Semester
Status of module	mandatory Module

2	Profile
Objective of the module/integration into the curriculum	The module provides the extended competences in the field of training science, especially in the areas of neurocognition and neuromotor function.
Content of Module	This module aims to provide students with the knowledge and skills necessary to understand and conduct research in the field of training science. The seminars "Cognition" and "Performance" develop and deepen the basic understandings of cognition and motor skills. The "Reading and Journal Club" allows students to read seminal books and papers in the field of research, as well as to discuss questions with fellow students, more advanced students, and experts in this field. An "Intervention Project" conceived by the student her/himself, discussed with the tutors, and carried out with their help, enables students to carry out interventional research approaches relevant in fields such as training and adaptation. The two seminars "Cognition" and "Performance" are offered in the first semester, the "Reading and Journal Club" and the "Intervention Project" in the second semester of the module.
Learning outcomes	Students acquire knowledge and fundamental concepts of cognitive and motor training and their interactions. They learn that training interventions lead to specific cognitive and motor (performance) changes and can classify these findings in the current state of research. The module focuses on adaptive changes in the sporting context and enables research-based intervention strategies to be implemented.

3 Module Structure						
Components of module						
No.	Course type		Course	Status (mandatory/elective)	Workload (h)	
					Attendance (h)/SWS	Individual study time (h)
1	S		Neuroscience, Cognition, and Motor Performance	m	30 (2 SWS)	60
2	S		Motor Learning, Training, and Adaptation	m	30 (2 SWS)	60
3	S		Motor and Neuocognitive Performance	m	30 (2 SWS)	60
4	S		Intervention Project in Neurocognition and Performance	m	30 (2 SWS)	60
Options within the Module		none				

4 Examination concept					
Degree-Relevant Examination(s)					
No.		Type	Duration/Length	course no.	Weighting for Module Grade
1		Exam	60 min.		100%
Weighting of Module Grade for Final Overall Grade		10%			
Required Coursework					
No.		Type	Duration/Length	course no.	
1		Short and extensive coursework is necessary for the preparation, realization, and post-processing of courses. Short and extensive coursework include e.g. protocols (approx. 1–2 pages) and written/oral assignments (approx. 10 pages/10–15 minutes), respectively. The type of coursework will be announced at the beginning of the course. Duration and extent of coursework will be oriented towards the underlying workload.		LV No. 1	
2		Short and extensive coursework is necessary for the preparation, realization, and post-processing of courses. Short and extensive coursework include e.g. protocols (approx. 1–2 pages) and written/oral assignments (approx. 10 pages/10–15 minutes), respectively. The type of coursework will be announced at the beginning of the course. Duration and extent of coursework will be oriented towards the underlying workload.		LV No. 2	
3		Short and extensive coursework is necessary for the preparation, realization, and post-processing of courses. Short and extensive coursework include e.g. protocols (approx. 1–2 pages) and written/oral assignments (approx. 10 pages/10–15 minutes), respectively. The type of coursework will be announced at the beginning of the course. Duration and extent of coursework will be oriented towards the underlying workload.		LV No. 3	
4		Short and extensive coursework is necessary for the preparation, realization, and post-processing of courses. Short and extensive coursework include e.g. protocols (approx. 1–2 pages) and written/oral assignments (approx. 10 pages/10–15 minutes), respectively. The type of coursework will be announced at the beginning of the		LV No. 4	

	course. Duration and extent of coursework will be oriented towards the underlying workload.			
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5 Requirements	
Module related participation requirements	Successful completion of M1 and M2 is strongly recommended.
Credit points	The credit points for the module are awarded if the module has been successfully completed overall, i.e. it has been demonstrated by passing all examinations and coursework that the learning outcomes assigned to the module have been acquired.
Attendance	In all courses, 100% participation is recommended. 80% attendance is mandatory because students need to be guided on an interactive basis to acquire the extensive knowledge and competencies within this module. Anyone who exceeds the number of permitted absences forfeits their right to take the examination.

6 CP - Distribution		
Attendance (= time of presentness)	LV No. 1	1 CP
	LV No. 2	1 CP
	LV No. 3	1 CP
	LV No 4	1 CP
Degree-Relevant Examination(s)	No. 1	4 CP
Required Coursework	LV No 1	1 CP
	LV No 2	1 CP
	LV No. 3	1 CP
	LV No 4	1 CP
Sum CP		12 CP

7 Module offer	
Cycle/Timing	every Semester
Module Coordinator	Prof. Dr. Claudia Voelcker-Rehage
Faculty	FB07

8 Mobility/Recognition	
Usability in other study programs	none
Module title	Neuro Cognitive and Neuro Motor Performance
English Translation of module component of field 3	are in english

9 Additional Information	
	All seminars are in English. All reading and writing assignments will be in English, as well as all exams and presentations.