

<b>Title of Module (English):</b>	Neurocognition and Performance
<b>Title of Module (German):</b>	Neurokognition und Leistung
<b>Degree Programme:</b>	Bachelor of Science "Human Movement in Sports and Exercise"

<b>1</b>	<b>Module Number:</b> 9	<b>Status:</b> <input checked="" type="checkbox"/> Mandatory Module <input type="checkbox"/> Elective Module
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<b>2</b>	<b>Frequency:</b> <input type="checkbox"/> Every semester <input checked="" type="checkbox"/> Every winter semester <input type="checkbox"/> Every summer semester	<b>Duration:</b> <input type="checkbox"/> 1 semester <input checked="" type="checkbox"/> 2 semesters	<b>Semester:</b> 3-4	<b>CP:</b> 11	<b>Workload (h):</b> 330
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<b>3</b>	<b>Module Structure:</b>						
	No.	Type	Course	Status (mandatory/ elective)	CP	Attendance (h + SWS <sup>17</sup> )	Individual Study Time (h)
	1	L	General Psychology and Cognitive Neuroscience	<input checked="" type="checkbox"/> m <input type="checkbox"/> e	4	30 (2 SWS)	90
	2	S	The Acting Brain: Linking Brain and Behaviour	<input checked="" type="checkbox"/> m <input type="checkbox"/> e	2	30 (2 SWS)	30
	3	S	Reading and Journal Club "Issues in Cognitive Neuroscience of Action"	<input checked="" type="checkbox"/> m <input type="checkbox"/> e	2	15 (1 SWS)	45
	4	S	Intervention Project "Plasticity and Adaptation"	<input checked="" type="checkbox"/> m <input type="checkbox"/> e	3	10 (2 SWS)	80

<b>4</b>	<p><b>Content of Module:</b></p> <p>This module aims to provide students with the necessary knowledge and tools to understand and conduct research in the field of action-related neuroscience. The lecture "General Psychology and Cognitive Neuroscience" is based on knowledge in neurophysiology and the physiology of the senses and addresses issues in learning and memory. Approaches in experimental psychology and cognitive neuroscience will be linked to conceptual models. The "Reading and Journal Club" offers students the opportunity to read seminal books and papers in the field of action research and to discuss issues with fellow students, more advanced students, and experts in the field. In the seminar "The Acting Brain", special issues in the cognitive neuroscience of action will be addressed in more depth. 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 training, adaptation, and learning. The lecture and the seminar "The Acting Brain" are offered in the first semester of the module, the "Reading and Journal Club" and the "Intervention Project" in the second semester of the module.</p>
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<b>5</b>	<p><b>Learning Outcomes:</b></p> <p>Students learn to bridge the divide between brain basics and behaviour in order to understand their mutual interaction. Behavioural interventions lead to plastic changes in the relevant brain networks and the organization of the brain imposes important constraints on behaviour. The module focuses on adaptive changes in the sports context, allowing the students to relate intervention strategies to their behavioural and neural basis.</p>
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<b>6</b>	<p><b>Options within the Module:</b></p> <p>None</p>
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<b>7</b>	<p><b>Type of Examination:</b></p> <p><input checked="" type="checkbox"/> Final Module Examination <input type="checkbox"/> Module Examination <input type="checkbox"/> Component Examinations</p>
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<sup>17</sup> SWS (Semesterwochenstunden) = hours of instruction per week

8	<b>Degree-Relevant Examination(s):</b>		
	Number and form (e.g. written examination, oral examination); assigned to course no. <sup>18</sup> :	Duration or length	Weighting of grade for module grade in %
	Written Examination	60 min	100%
9	<b>Required Coursework:</b>		
	Number and form; assigned to course no.:		Duration or length
	Short and extensive coursework is necessary for the preparation, realization, and post-processing of courses. Short and extensive coursework includes 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.		
10	<b>Requirements for Obtaining Credits (CP):</b>		
	The credit points of the module are awarded when the entire module, i.e. the degree relevant Examination and the required coursework, has been completed successfully.		
11	<b>Weighting of Module Grade in Calculation of Final Overall Grade:</b>		
	10%		
12	<b>Admission to Module:</b>		
	Successful completion of M1 and M2 is strongly recommended.		
13	<b>Attendance:</b>		
	In all courses, 100% participation is recommended. 80% attendance is mandatory because students need to be guided on an interactive basis in order to acquire the extensive knowledge and competencies within this module.		
14	<b>This Module is also an Element of the Following Degree Programmes:</b>		
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15	<b>Module Coordinator:</b>		<b>Faculty:</b>
	Prof. Dr. K. Zentgraf		
16	<b>Additional Information:</b>		
	All classes, except the lecture in General Psychology provided by the Psychology Department, are in English. All reading assignments will be in English, as well as the examination.		

<sup>18</sup> Not applicable to final module examination