

Module description: Natural Sciences						
Module Code	t.BA.MIP.NS.23HS					
ECTS Credits	4					
Language of Instruction/Examination	German					
Organizational Unit	ICP					
Module Coordinator	Andreas Witzig					
Legal Framework	The module description is part of the legal basis in addition to the general academic regulations. It is binding. During the first week of the semester a written and communicated supplement can specify the module description in more detail.					
Module Characteristic	Type 3a 2 lecture lessons per semester week and class+ 2 lab bi-weekly lessons per semester and half-class					
Module Description	The focus is on three practical courses: 1) analysis of body movements, 2) functioning of muscles and 3) measurement of brain waves. In the lectures the necessary physical basics are worked out and in the post-processing of the practical courses the measurement data are evaluated.					
Module Content	<ul style="list-style-type: none"> Practical courses with IMU (=Inertia Movement Unit), EMG (= Electromyography) and EEG (= Electroencephalogram). Matching physical basics: mechanics, current and voltage. 					
Prerequisite Knowledge						
Learning Objectives (Competences)	Students...		Competencies	Taxonomies		
	Students will know the basic physical relationships necessary to understand IMU, EMG, EEG.		SO, M, SE, F	K3, K4, K5		
	Students will know the basic physical relationships necessary to understand IMU, EMG, EEG.		M, F	K1, K2, K3		
Performance Assessment	End-of-module exam	Assessment	Length (min.)	Weighting	Form	
	written exam	Grade	90	75	acc. to module agreement	
	Performance assessment during the semester		Assessment	Length (min.)	Weighting	Form
	written exam		Grade	45	25	acc. to module agreement
Classroom Attendance Requirement	None					
Learning material						
Comments						