Minor "Artificial Intelligence in Biomedical Engineering" (AIBE) for the Bachelor and Master in Computer Science				Contact: Marlene Reuschel: marlene.reuschel@fau.de				
Module for	Module-Title	Lecturer	Language	Туре	ws / ss	sws	ECTS	Exam-Details
VII LaB – Pr	ofessorship for Artificial Intelligence in Medical Imagin	g						
Master	Projekt Intraoperative Imaging and Machine Learning [IIML]	Breininger	English	Project	WS	4	10	project work
X Lab – Pro	ofessorship of Human-Centered Computing and Extend	led Reality				_		
Master	Virtual and Augmented Reality	Roth	English	Lecture /Project	ws	8	10	Lecture, project work, p exam
	Exergames	Roth, Morschheuser	English	Lecture /Project	ws	4	5	Lecture, project work, p exam
– Professo	orship of Intelligent Sensorimotor Systems	I	1 1		1		1	
Bachelor or Master	Al in Medical Robotics	Weygers/ Bachhuber	English	Lecture	WS	4	5	written exam, 60min
	Introduction to Explainable Machine Learning	Bachhuber/ Weygers	English	Lecture	SS	4	5	written exam, 60min
	Inertial Sensor Fusion	Bachhuber/ Weygers	English	Lecture	ws	4	5	written exam, 60min
	Research Project on Intelligent Sensorimotor Systems (PRISM)	Bachhuber/ Weygers	English	Project	WS+SS	2	10	project work, presentat
AD Lab – Pr	ofessorship for Machine Learning and Data Analytics (incl. Professorship	for Computa	ational Moveme	nt Science)		1	
Bachelor or Master	Bewegungsanalyse und biomechanische Grenzgebiete (BABG)	Koelewijn	German	Lecture	WS+SS	2	2.5	written exam, 60min
	The why and how of human gait simulations (HGS)	Koelewijn	English	Seminar	ws	2	2.5	seminar performance assessed
	Legged Locomotion of Robots (LLR)	Koelewijn	English	Seminar	SS	2	2.5	seminar performance assessed
	Legged Locomotion of Robots Deluxe (LLR+)	Koelewijn	English	Seminar +Project	SS	4	5	seminar + project performance, assesse
Master	Catching your eyes: Al-driven modeling and analysis of eyetracking data (ETS)	Zanca	English	Seminar	SS	2	2.5	seminar performance assessed
	A look inside the human body - gait analysis and simulation (GAS)	Koelewijn	English	Lecture	WS	2	2.5	oral exam, 30min
	Gait analysis and simulation+ (GAS+)	Koelewijn	English	Lecture +exercise	WS	4	5	written exam, 60mir
uroTech La	b- Professorship of Sensory Neuroengineering	1	1 1		1		1	
Bachelor or Master	Computational Neurotechnology	Reichenbach	English	Lecture +Exercises	SS	2+2	5	written exam, 60mir
Master	Neurotechnology Project	Reichenbach	English	Project	WS+SS	8	10	report+ presentatior
L squared Lal	L b – Professorship for Neuromuscular Physiology and N	I Ieural Interfacing	1 1			-		
Bachelor or Master	Interfacing the Neuromuscular System	Del Vecchio	English	Lecture	SS	3	5	oral exam, 30min
Master	Applied Neuroengineering	Del Vecchio	English	Seminar +Project	ws	4	10	seminar, lecture + proj performance
	Movement Neuroscience	Del Vecchio	English	Lecture	WS	2+1	5	oral exam, 30min
I Rob Lab - Pr	rofessorship of Assistive Intelligent Robotics					1		
Master	Human-Robot Co-Adaptation (HRC)	Castellini	English	Lectures +Exercises	WS	4	5	written exam, 60mir
	Intent Detection and Sensory Feedback (IDF)	Castellini	English	Lectures +Exercises	SS	4	5	written exam, 60mir
	Rehabilitation and Assistive Robotics (RAR)	Castellini	English	Lectures +Exercises	SS	4	5	written exam, 60mir
	Seminar Biosignals in Rehabilitation Robotics (BRR)	Egle	English	Seminar	WS+SS	4	5	report+ presentatior
	Seminar Learning and Interaction in Medical Robotics (IMR)	Sierotowicz	English	Seminar	WS+SS	4	5	report+ presentatior
	Seminar Robotics for the Lower Limb (RLL)	Scheidl	English	Seminar	WS+SS	4	5	report+ presentatior
			1	Lectures				

Last edited on 17/04/2023