

Minor "Artificial Intelligence in Biomedical Engineering" (AIBE) - Master AI					Contact: Marlene Reuschel: marlene.reuschel@fau.de			
	Module-Title	Lecturer	Language	Type	WS/SS	SWS	ETCS	Exam-Details
AIMI LaB – Professorship for Artificial Intelligence in Medical Imaging								
	Seminar Digital Pathology and Deep Learning (SemDP)	Breinger	English	Seminar	SS	2	5	seminar performance, assessed
ExpHNO – Experimental Otorhinolaryngology								
	Cognitive Neuroscience for AI Developers	Krauss, Maier	English	Lecture	SS	4	5	written exam, 60min
HEX Lab – Professorship of Human-Centered Computing and Extended Reality								
	Exergames	Roth/ Morschheuser	English	Lecture /Project	WS	4	5	Lecture, project work, part exam
ISS – Professorship of Intelligent Sensorimotor Systems								
	AI in Medical Robotics	Weygers/ Bachhuber	English	Lectures +Exercises	WS	4	5	written exam, 60min
LME – Pattern Recognition Lab								
	Colloquium in Pattern Recognition [subLV: Kolloquium MRI]	Bickelhaupt/ Knoll/Laun/ Maier/Nagel/ Zaiss	English	Seminar	WS+SS	2	2.5	seminar performance, assessed
	Medical Image Processing for Diagnostic Applications (MIPDA)	Maier	English	Lecture	WS+SS	2	5	written exam, 60min
	Interventional Medical Image Processing	Maier	English	Lecture	WS+SS	2	5	written exam, 60min
IDEA Lab– Professorship for Image Data Exploration and Analysis								
	Medizintechnik II	Knoll/ Kainz	German /English	Lecture	SS	4	5	modular exam (report, code implementation, presentation, homework)
MAD Lab – Professorship for Machine Learning and Data Analytics (incl. Professorship for Computational Movement Science)								
	The why and how of human gait simulations [HGS]	Koelewijn	English	Seminar	WS	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	5	4	written exam, 60min
	Biomedical Signal Analysis (BioSig)	Kluge/ Eskofier	English	Lectures +Exercises	WS	2 (+2Ü)	5	written exam, 60min
N-squared Lab – Professorship for Neuromuscular Physiology and Neural Interfacing								
	Interfacing the Neuromuscular System	Del Vecchio	English	Lecture	SS	3	5	oral exam, 30min
	Movement Neuroscience	Del Vecchio	English	Lectures +Exercises	WS	2 (+1Ü)	5	oral exam, 30min
	Interpretation and Analysis of Neural and Muscle Signals	Del Vecchio /Yang	English	Seminar	WS	2	2.5	oral exam, 30min
	Physiological Driven Control and Design of Exoskeletons	Del Vecchio	English	Seminar	WS	3	5	oral exam, 30min
SLP Lab – Professorship of AI in Biomedical Speech and Language Processing								
	Seminar Digital Pathology using Speech Language Processing	Yang	English	Seminar	WS	2	2.5	oral exam, 30min
	Seminar Automatic Analysis of Voice, Speech and Language Disorders in Speech Pathologies	Yang	English	Seminar	WS+SS	2	2.5	seminar performance, presentations
AIRob Lab - Professorship of Assistive Intelligent Robotics								
	Seminar Rehabilitation and Assistive Robotics (SemRAR)	Sierotowicz	English	Seminar	WS	2	2.5	report+ presentation
	Seminar: Robotics for the Lower Limb (RLL)	Scheidl	English	Seminar	SS + WS	2	5	report+ presentation
	Rehabilitation and Assistive Robotics (RAR)	Castellini	English	Lectures +Exercises	SS	4	5	written exam, 60min
	Seminar Learning and Interaction in Medical Robotics (IMR)	Sierotowicz	English	Seminar	SS + WS	2	5	report+ presentation
	Seminar: Biosignals in Rehabilitation Robotics (BRR)	Egle	English	Seminar	SS + WS	2	5	report+ presentation
	Upper-Limb Prosthetics (ULP)	Castellini	English	Lectures +Exercises	WS	4	5	written exam, 60min

Last edited on 17/04/2023