

AIBE NEBENFACH FÜR DEN MASTER AI

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BASIC COURSE INFORMATION

Group	Lecturer	Module	ECTS	SWS	Lect/Sem/Proj	Language	WS/SS	Exam
Nebenfach-AIBE (Neu-Anträge und bereits bestehende Module)								
LPM/IDEA	Knoll/Kainz	Medizintechnik II	5	4	Lecture	Ger+Engl	SS	modular exam (report, code implementation, presentation, homework)
LME	Bickelhaupt/Knoll/Laun/N	Colloquium in Pattern Recognition [subLV: Kolloquium Magnetic Resonance Imaging]	2.5	2	Seminar	Engl	WS+SS	seminar performance, assessed
SLP	Yang	Seminar Digital Pathology using Speech Language Processing (Sem.DPSLP)	2.5	2	Seminar	Engl	WS	oral exam, 30 min
SLP	Yang	Seminar Automatic Analysis of Voice, Speech and Language Disorders in Speech Pathologies (SemSprachPath)	2.5	2	Seminar	Engl	SS+WS	seminar performance, presentations
MediRob	Sierotowicz	Seminar: Rehabilitation and Assistive Robotics (RAR)	2.5	2	Seminar	Engl	WS	report+presentation
MediRob	Egle	Seminar: Robotics for the Lower Limb (RLL)	2.5	2	Seminar	Engl	WS	report+presentation
MediRob	Castellini/Sierotowicz	Rehabilitation and Assistive Robotics (RAR) [old title Intro to Rehab Rob (IRR)]	5	4	Lectures+Exercises	Engl	SS	written exam, 60 min
MediRob	Sierotowicz	Seminar: Learning and Interaction in Medical Robotics (IMR)	2.5	2	Seminar	Engl	SS	report+presentation
MediRob	Egle	Seminar: Biosignals in Rehabilitation Robotics (BRR)	2.5	2	Seminar	Engl	SS	report+presentation
MediRob	Castellini/Sierotowicz	Upper-Limb Prosthetics (ULP) [old title "Advanced ULP"]	5	4	Lectures+Exercises	Engl	WS	written exam, 60 min
NSquared	Del Vecchio	Interfacing the Neuromuscular System	5	3	Lecture	Eng	SS	oral exam, 30 min
NSquared	Del Vecchio	Movement Neuroscience	5	2+1(Ü)	Lecture+Exercises	Eng	WS	oral exam, 30 min
NSquared	Del Vecchio / Yang	Interpretation and Analysis of Neural and Muscle Signals	2.5	2	Seminar	Eng	WS	oral exam, 30 min
NSquared	Del Vecchio	Physiological Driven Control and Design of Exoskeletons	5	3	Seminar	Eng	WS	oral exam, 30 min
AIMI	Breining	Seminar Digital Pathology and Deep Learning [SemDP]	5	2	Seminar	English	SS	seminar performance, assessed
HEX	Roth	Virtual Reality in Neuroscience	5	4	Seminar	Engl	SS23+	Lecture, project work, part exam
HEX	Roth/Morschheuser	Exergames	5	4	Lecture / Project	Engl	WS21/22+	Lecture, project work, part exam
MAD	Koelewijn	The why and how of human gait simulations [HGS]	2.5	2	Seminar	English	WS	seminar performance, assessed
MAD	Koelewijn	A look inside the human body - gait analysis and simulation (GAS)	.5, possibly	2(+2)	Lecture (+exercise)	English	WS	written exam, 120 Min or oral exam, 30 min
MAD	Kluge/Eskofier	Biomedizinische Signalanalyse (VL + Übung) [BioSig]	5	2+2(Ü)	L+E	Engl	WS	written exam, 90 Min
LME	Maier	Diagnostic Medical Image Processing	5	2	Lecture	English	WS+SS	written exam, 60 min
LME	Maier	Interventional Medical Image Processing	5	2	Lecture	English	WS+SS	written exam, 60 min
ExpHNO	Krauss, Maier	Cognitive Neuroscience for AI Developers	5	4	Lecture	English	SS	written exam, 60 min