

## Courses winter term 2024/25 for Cognitive Systems FSPO 2024

from 2024/09/17

### Basic Subject

#### Course program Psychology for non-psychologists

Course	Course-#	Hours	ECTS	Organizer	Time/Place	Comment	Course pre-registration?
Introduction to Psychological Methods and Statistics for non-psychologists	CS8751.000	2 + 2	6	M. Ernst	Wed 14-16 47.1.506, Thu 12-14 47.1.506		no

#### Course program Computer Science for non-computer Scientists

Course	Course-#	Hours	ECTS	Organizer	Time/Place	Comment	Course pre-registration?
Introduction to Computer Science for non-computer scientists	CS6307.000	3 + 1	6	Y. Kazakov with J. Hirschbrunn	Tue 16-18 123, Fri 12-14 121		no

#### Course program Computer Science for all participants

Course	Course-#	Hours	ECTS	Organizer	Time/Place	Comment	Course pre-registration?
Fundamentals of Human-Machine Interaction	CS8153.001	2 + 2	6	H. Neumann mit D. Schmid	Wed 10-12 H21, Thu 10-12 2201		no
Foundations and Concepts of Cognitive Systems Modeling	CS7887.000	2 + 2	6	D. Braun with S. Gottwald	Mon 14-16 1002, Fri 10-12 1002		no

### Interdisciplinary Subject

Course	Course-#	Hours	ECTS	Organizer	Time/Place	Comment	Course pre-registration?
Cognitive Systems I	CS7882.002	3 + 1	6	M. Ernst, D. Braun, C. Herbert	Mon 12-14 H21, Thu 14-16 H21		no
Recent Developments in Cognitive Systems Research	CS8755.000	2 + 1	6	M. Ernst	Mon 16-17 1002, Thu 17-19 47.0.501		no

### Special Subject

Course	Course-#	Hours	ECTS	Organizer	Time/Place	Comment	Course pre-registration?
<b>Perception</b>							
The misleading senses: When we can't rely on our senses anymore?	PSY74685.001	2+2	6	M. Ernst with C. Roy	Mon 10-12 47.2.505		yes
Theories and Application of Navigation in Men and Machine	PSY74646.001	2+2	6	M. Ernst with T. Oess	Thu 12-14 47-1-507		yes
<b>Learning &amp; Memory</b>							
Data Science - Master	CS5900.151	2	4	A. Scherp	by arrangement		no
Graph Analytics and Deep Learning	CS6654.000	2 + 2	6	A. Scherp	Mon 12-14 2203, Thu 12-14 1002		no
Learning Systems II	CS8013.000	3 + 1	6	D. Braun with S. Gottwald	Tue 08-10 2203, Tue 10-12 2203		no
<b>Planning &amp; Reasoning</b>							
Knowledge-Based Artificial Intelligence	CS6396.000	2 + 2	6	B. Glimm, Y. Kazakov mit A. Halilov	Wed 8-10 2203, Wed 12-14 2203		no
<b>Interaction</b>							
Neurotechnology: Brain-Machine-Interfacing	CS7904.000	2 + 2	6	D. Braun with Z. Zhang, F. Wurzber	Fri 12-15 123		no
Cognition in Complex Situations	PSY77099.001	3	6	M. Baumann	Mon 14-17 47.2.505		yes
<b>Methods, general Concepts &amp; Tools</b>							
Concepts of intelligence	CS5900.156	2	4	D. Braun	by arrangement		no
Introduction to Human Neuroanatomy and Neurophysiology	MEDex30	2 + 2	6	L. Dimou, D. Yilmazer-Hanke	Wed 8-10 O29-3003, Mon 10-12 O23-2609	Registration via CoronaNG	yes
Research Colloquium: Recent Developments in Cognitive Neuroscience and Cognitive Psychology	MED80000.016	2	4	M. Kiefer	Fri 11-12:30 Klinik für Psychiatrie III		yes
Topics in Cognitive Psychology (Colloq)	PSY00000.014	2	4	M. Ernst	Thu 10-12 43.1.250		no

### Applied Subject

Course	Course-#	Hours	ECTS	Organizer	Time/Place	Comment	Course pre-registration?
<b>Perception</b>							
Multisensory Perception for Action	PSY74682.001	4	8	M. Ernst	by arrangement		yes
Perception for Action in Virtual Reality	CS8757.000	4	8	M. Ernst	by arrangement		yes
<b>Learning &amp; Memory</b>							
Project Deep Reinforcement Learning	CS8000.029	4	8	D. Braun mit Z. Zhang	Mon 14-16		no
Project Learning Robots	CS8000.024	4	8	D. Braun with F. Wurzberger	by arrangement		no
Projectseminar Deep Learning Architectures	CS8000.023	4	8	D. Braun, F. Schwenker, S. Gottwald	by arrangement		no
<b>Planning &amp; Reasoning</b>							
Project Advanced Automated Reasoning	CS6400.009	4	8	Y. Kazakov with J. Hirschbrunn	by arrangement		no
Project Advanced Semantic Web	CS6400.005	4	8	B. Glimm with M. Illich	by arrangement		no
Project AI for Autonomous Systems	CS6400.011	4	8	B. Glimm with A. Halilovic	by arrangement		no
Project Automated Reasoning	CS6400.006	4	8	Y. Kazakov with J. Hirschbrunn	by arrangement		no
Project Explainable Artificial Intelligence	CS6400.010	4	8	B. Glimm with, C. Olz, J. Karalus	by arrangement		no
Project Semantic Web	CS6400.007	4	8	B. Glimm with M. Illich	by arrangement		no
<b>Interaction</b>							
Project Human-AI Interaction	PSY75635.001	4	8	M. Baumann with R. Rixen	Tue 12-14 45.2.101		yes
Investigations in Cognitive Ergonomics - Basics	CS8758.000	4	8	A. Huckauf	by arrangement		yes
Investigations in Cognitive Ergonomics - Research Trends	CS8759.000	4	8	A. Huckauf	by arrangement		yes
Project Dialogue Systems	CS8410.013	6	8	W. Minker	by arrangement		no
Project User-Centered Design for Interactive Systems I	CS8200.041	5	8	E. Rukzio	by arrangement		no
Project User-Centered Design for Interactive Systems II	CS8200.042	5	8	E. Rukzio	by arrangement		no
<b>Applied methods and concepts in Cognitive Systems</b>							
Internet of Medical Things	ENGBMT 75351	4	8	W. Karlen	Wed 16-17 45.2.102		yes
Investigating Functions in Perception, Cognition and Motor Behavior	CS8000.028	4	8	M. Ernst, D. Braun	by arrangement		no
Project Data Science on Very Large Data Sets	CS6700.019	4	8	A. Scherp	by arrangement		no
Projekt Design Thinking for Interactive Systems kompakt	CS8200.051	5	8	E. Rukzio	by arrangement		no