JOHANNES KEPLER UNIVERSITÄT LINZ

Matrikelnummer / Student ID Number

Studienkennzahl / Degree program number

UK	**066**	**993**	

ANSUCHEN UM ZULASSUNG ZUR MASTERPRÜFUNG IM MASTERSTUDIUM ARTIFICIAL INTELLIGENCE

APPLICATION FOR ADMISSION TO THE MASTER'S EXAMINATION IN THE MASTER'S PROGRAM IN ARTIFICIAL INTELLIGENCE

(1.10.2019 - updated 1.10.2024)

Vor- und Familienname / First and Family name	
Telefonnummer / Phone number	
E-Mail	

Prüfungssenat der Masterprüfung / Members of the examination senate

Vorsitzende*r und 1. Prüfer*in / Chair of the Examination Senate and 1. Examiner	Name in Blockbuchstaben / Name — Unterschrift / Signature
	Präsentation und Verteidigung der Masterarbeit / Presentation and Defense of the Master's Thesis

2. Prüfer*in / 2. Examiner	Name in Blockbuchstaben / Name — Unterschrift / Signature
Masterarbeitsfach / Master's Thesis Subject	

3. Prüfer*in / 3. Examiner	Name in Blockbuchstaben / Name — Unterschrift / Signature
Studienfach nach Wahl gemäß Curriculum / Subject of choice according to curriculum	

Unterschrift Befürwortung Studienpräses / Endorsement by Study President	

Termin / Date	Uhrzeit / Time	Prüfungsort / Place of Examination

Linz, am / on _____

Unterschrift Antragsteller*in / Student signature	

genehmigt / nicht genehmigt

Linz, am _____

Unterschrift Vizerektor*in für Lehre und Studierende	

Machine Learning and Perception

Course	Code	Type	ECTS	Date	Grade
Deep Learning and Neural Nets I	993MLPEDN1U19	UE	1,5		
	993MLPEDN1V19	VL	3		
Deep Learning and Neural Nets II	993MLPEDN2U19	UE	1,5		
	993MLPEDN2V19	VL	3		
LSTM and Recurrent Neural Nets	993MLPELRNU19	UE	1,5		
	993MLPELRNV19	VL	3		
Computer Vision	921PECOCOVU20	UE	1,5		
	921PECOCOVV20	VL	3		
Machine Learning: Advanced Techniques	993MLPEMLTU24	UE	1,5		
	993MLPEMLTV24	VL	3		
Probabilistic Models	921CGELPRMU13	UE	1,5		
	921COENPRMV13	VL	3		
AI and Visualization	993MLPEEAIU24	UE	1,5		
	993MLPEEAIV24	VL	1,5		
Deep Reinforcement Learning	993MLPEDRLU20	UE	1,5		
	993MLPEDRLV20	VL	3		
Total Grade	**5**		**34,5**		

Seminar and Practical Training

Course	Code	Type	ECTS	Date	Grade
Practical Work in AI (Master)	993SEPTPRWP19	PR	7,5		
Seminar in AI (Master)	993SEPTSAIS19	SE	3		
Total Grade	**10**		**10,5**		

AI and Society

Course	Code	Type	ECTS	Date	Grade
AI and Law I	993AISOAL1V19	VL	3		
AI and Law II	993AISOAL2V19	VL	1,5		
Artificial Intelligence in Society	993AISOAISK19	KV	1,5		
Robopsychology	993AISORPSK19	KV	3		
Communicating AI	993AISOCAIK19	KV	1,5		
Total Grade	**15**		**10,5**		

Elective Tracks

One of the following elective tracks must be completed

AI and Mechatronics - Robotics and Autonomous Systems

Course	Code	Type	ECTS	Date	Grade
Control Systems	993TAMRCOSU19	UE	1,5		
	993TAMRCOSV19	VL	3		
Introduction to Robotic Systems	993TAMRIRSU19	UE	1,5		
	993TAMRIRSV19	VL	3		
Production Automation Systems	993TAMRPASV19	VL	3		
Introduction to autonomous vehicles	481VRTRIAVK22	KV	6		
Total Grade	**20-1**		**18**		

AI and Mechatronics - Embedded Intelligence and Signal Processing

Course	Code	Type	ECTS	Date	Grade
Pervasive Computing: Design and Development	921PECOPDDU13	UE	1,5		
	921PECOPDDV13	VL	3		
Pervasive Computing: Systems and Environments	921PECOPSEU13	UE	1,5		
	921PECOPSEV13	VL	3		
Optimum and Adaptive Signal Processing Systems	489MAITOASU22	UE	1,5		
	489MAITOASV22	VL	3		
Radar System Engineering	489WSHFRSEU22	UE	1,5		
	489WSHFRSEV22	VL	3		
Total Grade	**20-2**		**18**		

Symbolic AI and Mathematical Foundations

Course	Code	Type	ECTS	Date	Grade
Sub-category **Symbolic AI** (at least 13,5 ECTS have to be completed)					
Knowledge Representation and Learning (must be completed if the focus ist the sub-category **Symbolic AI**)	993TASMKPLU22	UE	1,5		
	993TASMKPLV22	VL	3		
Planning and Reasoning in Artificial Intelligence (must be completed if the focus ist the sub-category **Symbolic AI**)	993TASMPRAU22	UE	1,5		
	993TASMPRAV22	VL	3		
Automated Reasoning	201LOSDAURU13	UE	1,5		
	404SLOCAURV23	VL	4,5		

Manyvalued Logic	201WIMSMVLU20	UE	1,5		
	201WIMSMVLV23	VL	3		
Berechenbarkeit und Komplexität	INBIPUEBEKO	UE	1,5		
	INBIPVOBEKO	VL	3		
Computer Algebra for Concrete Mathematics	921CGELCACU20	UE	1,5		
	921PECOCACV20	VL	3		
Model Checking	921COENMCHU21	UE	1,5		
	921COENMCHV21	VL	3		
Sub-category **Mathematical Foundations** (at least 13,5 ECTS have to be completed)					
Inverse problems	403MAMOINPV22	VL	3		
Wahrscheinlichkeitstheorie und stochastische Prozesse	289MANGWSPK20	KV	3		
Mathematik 3	281MANAMA3U20	UE	1,5		
	281MANAMA3V20	VL	4,5		
Numerik und Optimierung	481MAPHNUOK22	KV	6		
Discrete Mathematics	201ADMADEMU23	UE	1,5		
	404ALBRDEMV23	VL	3		
Klassische Harmonische Analysis	TM1WAUEHARM	UE	1,5		
	TM1WAVOHARM	VL	3		
Markov Chains	201WTMSMACU22	UE	1,5		
	201WTMSMACV22	VL	3		
Mathematische Modelle in der Technik	201MAMOMMTV18	VL	3		
Numerik von Differentialgleichungen	201UEDGNPDU24	UE	3		
	201NUOPNVDV24	VL	6		
Special Topics Functional analysis (1,5 ECTS)	201FUANSP1V24	VL	1,5		
Special Topics Functional analysis	201FUANSP2V24	VL	3		
Special Topics Numerical Analysis	201NUMASP2V22	VL	3		
Special Topics Probability Theory and Mathematical Statistics (1,5 ECTS)	201WTMSSP1V22	VL	1,5		
Special Topics Probability Theory and Mathematical Statistics	201WTMSSP2V22	VL	3		
Stochastic Simulation	201WTMSSTSU22	UE	1,5		
Stochastic Simulation	201WTMSSTSV22	VL	3		
Total Grade	**20-3**		**21**		

AI and Life Sciences

Course	Code	Type	ECTS	Date	Grade
Genome Analysis & Transcriptomics	993TALSGATK19	KV	3		
Structural Bioinformatics	993TALSSTBK19	KV	3		
Artificial Intelligence in Life Sciences	993TALSALSU20	UE	1,5		
	993TALSALSV20	VL	1,5		
Sequence Analysis and Phylogenetics	663INFOSAPU22	UE	3		
	663INFOSAPV22	VL	3		
Total Grade	**20-4**		**15**		

Area of Specialization

Courses amounting to 9 / 9 / 6 or 12 ECTS must be completed so that the chosen **Elective Track** and the subject **Area of Specialization** total **27 ECTS**.

Course	Code	Type	ECTS	Date	Grade
Total Grade	**25**		**9 / 9 6 / 12**		

Master's Thesis Seminar

Course	Code	Type	ECTS	Date	Grade
Master's Thesis Seminar	993MAARMTSS19	SE	3		
Total Grade	**30**		**3**		

Free Electives

Course	Code	Type	ECTS	Date	Grade
Total Grade	**35**		**12**		

The Vice-Rector for Academic Affairs