

Artificial Intelligence - Course Infos

Winter Term 2020/21

Bachelor Artificial Intelligence

1st Semester

Course name	Type	ECTS	Teacher	Content supply	Evaluation criteria	Presence requirements (physical presence, virtual presence)
Hands-On AI	VL	1,5	Johannes Brandstetter	Recording in Moodle Videoconference or Live-Stream at the JKU's satellite campus in Vienna Scripts and Slides	Online Assignments	no physical presence required
Hands-On AI	UE	1,5	Johannes Brandstetter	Recording in Moodle Videoconference or Live-Stream at the JKU's satellite campus in Vienna Scripts and Slides	Online Assignments	no physical presence required
Introduction to AI	VL	3	Johannes Frnkranz	Recording in Moodle Videoconference or Live-Stream at the JKU's satellite campus in Vienna Scripts and Slides	Final exam on-site (Linz or Vienna)	no physical presence required
Responsible AI	KV	3	Martina Mara & Laura Moradbakhti	Recording in Moodle or live stream via Zoom, Videoconference or Live-Stream at the JKU's satellite campus in Vienna Scripts and Slides	group task (online assignment + submission via Moodle), individual mini tasks (online via Moodle), final written exam (online via Zoom & Moodle)	physical presence required at the beginning and the end of the semester --> 2 days
Logic	VL	3	Armin Biere	Recording in Moodle Videoconference or Live-Stream at the JKU's satellite campus in Vienna Scripts and Slides	weekly moodle tests and challenges four additional online lab exercises, alternatively moodle online exam at the end of the semester (and in summer)	no physical presence required but virtual presence during the tests (Tuesdays 10:00 - 10:45)

Artificial Intelligence - Course Infos

Winter Term 2020/21

Logic	UE	1,5	Armin Biere	Recording in Moodle Videoconcerence or Live-Stream at the JKU's satellite campus in Vienna Scripts and Slides	weekly moodle tests and challenges four additional online lab exercises, alternatively moodle online exam at the end of the semester (and in summer)	no physical presence required but virtual presence during the tests (Tuesdays 10: 00 - 10:45)
Mathematics for AI I	VL	6	Georg Regensburger	recording in Moodle (stream available for full semester) bidirectional videoconference live-stream to the JKU's satellite campus in Vienna if technically possible: one-way live-stream to students' end devices lecture notes and slides online	final exam (physical presence required, Linz or Vienna)	exam
Mathematics for AI I	UE	3	Lucia Del Chicca	Type 1: weekly physical presence at JKU weekly exercise sheets provided in Moodle solutions or hints for solutions in Moodle Feedback on solved exercises weekly in the group Type 2: weekly online presence in Zoom weekly exercise sheets provided in Moodle weekly submission of written solutions of the exercises in Moodle solutions or hints for solutions in Moodle Feedback on solved exercises weekly in the online Meeting	Weekly exercises Presentation of solutions of the exercises during weekly classes or online meetings Regular Moodle test 1 final exam Linz or Vienna (physical presence required Linz or Vienna)	physical or virtual presence required
Programming in Python I	VL	3	Michael Widrich	recordings in Moodle Live-Stream to students' end devices and JKU's satellite campus in Vienna if possible lecture notes, exercises, exams provided via Moodle	Online Assignments, online exams	no physical presence required
Programming in Python I	UE	3	Michael Widrich, Sebastian Lehner	recordings in Moodle Live-Stream to students' end devices and JKU's satellite campus in Vienna if possible lecture notes, exercises, exams provided via Moodle	Online Assignments, online exams	no physical presence required
Lecture Series Artificial Intelligence	KV	1,5	Johannes Kofler	recording in Moodle (for most talks: stream available for two weeks) bidirectional videoconference live-stream to the JKU's satellite campus in Vienna script and slides	Online Assignments	no physical presence required, virtual presence may be required for some of the talks
3rd Semester						

Artificial Intelligence - Course Infos

Winter Term 2020/21

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Visual Analytics	VL	3	Marc Streit	bidirectional video conference live-stream if technically possible: one-way live-stream to students' end device lecture/lab recording will be put in Moodle (available for full semester) lecture/lab slides in Moodle	final exam on-site (Linz and Vienna, in Moodle) required days of physical presence: 1 (exam, Linz and Vienna) + live presence required for all lab appointments (but remote presence OK)	no physical presence required
Visual Analytics	UE	1,5	Patrick Adelberger, Klaus Eckelt	bidirectional video conference live-stream if technically possible: one-way live-stream to students' end device lecture/lab recording will be put in Moodle (available for full semester) lecture/lab slides in Moodle	team presentations and project assignments required days of physical presence: 0 + live presence required for all lab appointments (but remote presence OK)	no physical presence required
Artificial Intelligence	VL	3	Gerhard Widmer	recording in Moodle (stream available for full semester) bidirectional videoconference live-stream to the JKU's satellite campus in Vienna slides online	final exam on-site (Linz and Vienna) required days of physical presence: 1 (exam, Linz and Vienna) but: physical presence highly recommended (it would be sad not to see you in the lectures!)	no physical presence required
Artificial Intelligence	UE	1,5	Rainer Kelz	recording in Moodle (stream available for full semester) separate exercise group in Vienna (JKU satellite campus) slides online	regular exercise sheets (in Moodle) required days of physical presence: 0	same as lecture
Algorithmen und Datenstrukturen 2	VL	3	Alois Ferscha	Online only: No live-stream, no classes Recordings in Moodle (available for full semester) Slides online in Moodle	final exam in Moodle required days of physical presence: 0	no physical presence required

Artificial Intelligence - Course Infos							
Winter Term 2020/21							
Algorithmen und Datenstrukturen 2	UE	1,5	N.N.	fully digital, recording available in Moodle (for full semester) Slides and assignments online in Moodle There will be Q&A sessions via Zoom for each video/assignment No recordings of the Q&A sessions	regular online assignments in Moodle required days of physical presence: 0	no physical presence required	
Machine Learning: Supervised Techniques	VL	3	Johannes Kofler	recording in Moodle (stream available for full semester) bidirectional videoconference live-stream to the JKU's satellite campus in Vienna script and slides	two written examinations during the semester or one repeat examination at the end	no physical presence required	
Machine Learning: Supervised Techniques	UE	1,5	Sebastian Lehner	recording in Moodle (stream available for full semester) bidirectional videoconference live-stream to the JKU's satellite campus in Vienna script and slides	biweekly online assignments	no physical presence required	
Mathematics for AI III	VL	3	Mario Ullrich	recording in Moodle (stream available for full semester) bidirectional videoconference live-stream to the JKU's satellite campus in Vienna if technically possible: one-way live-stream to students' end devices lecture notes online	final exam on-site (Linz and Vienna) Distance learning: weekly submission of exercises, some will be assessed presence students (Linz, if possible): mandatory presence in exercise classes, presentation of solutions, some written exercises will be assessed	no physical presence required	
Mathematics for AI III	UE	1,5	Thomas Lachmann	same as lecture	same as lecture	distance mode: no physical presence required presence mode: weekly presence in the exercises to present solutions.	
Basic Method of Data Analysis	KV	3	Bernhard Nessler	recording in Moodle videoconference or Live-Stream at scripts and slides	final exam online	no physical presence required	
Master Artificial Intelligence							
1st Semester							

Artificial Intelligence - Course Infos

Winter Term 2020/21

Course name	Type	ECTS	Teacher	Content supply	Evaluation criteria	Presence requirements (physical presence, virtual presence)
Artificial Intelligence in Society	KV	3	Bianca Prietl	recording in Moodle (stream available for full semester but NO download) bidirectional videoconference live-stream to the JKU's satellite campus in Vienna if technically possible: one-way live-stream to students' end devices lecture notes and slides online	reading assignment, groupwork assignment, written assignment	no physical presence required; required days of virtual presence: 2 for course parts II and III
Deep Learning and Neural Nets I	VL	3	Günter Klambauer	recording in Moodle videoconference or Live-Stream at the JKU's satellite campus in Vienna Lecture Notes and slides	final exam online	no physical presence required
Deep Learning and Neural Nets I	UE	1,5	Pieter-Jan Hoedt	recording in Moodle videoconference or Live-Stream at the JKU's satellite campus in Vienna scripts and slides	final exam online	no physical presence required
LSTM and Recurrent Neural Nets	VL	3	Sepp Hochreiter	recording in Moodle videoconference or Live-Stream at the JKU's satellite campus in Vienna scripts and slides	final exam online	no physical presence required
LSTM and Recurrent Neural Nets	UE	1,5	Thomas Adler	recording in Moodle (stream available for full semester) bidirectional videoconference live-stream to the JKU's satellite campus in Vienna if technically possible: one-way live-stream to students' end devices lecture notes and slides online	reports and online exam in Moodle	no physical presence required
Computer Vision	VL	3	Oliver Bimber	bidirectional videoconference live-stream to the JKU's satellite campus in Vienna if technically possible: one-way live-stream to students' end devices lecture notes and slides online and recorded lectures	final exam on-site (Linz and Vienna, in Moodle) required days of physical presence: 1 (exam), if the Corona-situation early next year does not allow on-site exams, Moodle exams will be done remotely (from home)	no physical presence required

Artificial Intelligence - Course Infos

Winter Term 2020/21

Computer Vision	UE	1,5	Indrajit Kurmi	recording in Moodle (partially: no recordings of student presentations, stream available for full semester) bidirectional videoconference live-stream to the JKU's satellite campus in Vienna if technically possible: one-way live-stream to students' end devices lecture notes and slides online	team presentations and project	live presence required for all lab appointments (but remote presence OK), if the Corona-situation does not allow physical presence, then hybrid (virtual presence: Zoom from home, and physical presence for a fraction of the students will be offered)
AI and Law I	VL	3	Michael Mayrhofer	recording in Moodle videoconference or Live-Stream at the JKU's satellite campus in Vienna scripts and slides	final exam on-site (Linz or Vienna)	
Control Systems	VL	3	Markus Schöberl	recording in Moodle (stream available for full semester) lecture notes and slides online	final exam on-site (Linz or Vienna) or via Zoom	no physical presence required
Control Systems	UE	1,5	Johannes Diwold	recording in Moodle (stream available for full semester) lecture notes and slides online	written and practical exam in Linz	no physical presence required
Planning and Reasoning in Artificial Intelligence	VL	3	Martina Seidl	recording in Moodle (stream available for full semester) bidirectional videoconference live-stream to the JKU's satellite campus in Vienna, scripts and slides	weekly Assignments 3 online exams or 1 big online exam at the end of the winterterm project presentation (for the exercise)	no physical presence required
Planning and Reasoning in Artificial Intelligence	UE	1,5	Martina Seidl	same as lecture	same as lecture	same as lecture
Pervasive Computing: Systems and Environments	VL	3	Alois Ferscha	Presence mode with bidirectional videoconference live-stream to the JKU's satellite campus in Vienna slides online in Moodle no recording	final exam on-site (Linz or Vienna)	no physical presence required (presence mode, but no obligatory attendance)
Pervasive Computing: Systems and Environments	UE	1,5	Dari Borisov Trendafilov	recording in Moodle (stream available for full semester) bidirectional videoconference live-stream to the JKU's satellite campus in Vienna slides and assignments online in Moodle	regular online assignments in Moodle	Required days of physical presence: 2 (for collecting and returning hardware equipment, Linz only, no postal shipping!) (presence mode, but no obligatory attendance)
Optimum and Adaptive Signal Processing Systems	VL	3	Mario Huemer	re-use of recordings from last year, offered in Moodle; 4-5 meetings in the lecture hall for Q&A as well as Matlab demos	final written exam onsite or in ZOOM	no physical presence required

Artificial Intelligence - Course Infos

Winter Term 2020/21

Optimum and Adaptive Signal Processing Systems	UE	1,5	Oliver Lang	recording in Moodle (stream available for full semester) scripts and slides online	homework assignments during the semester	no physical presence required
Model Checking	KV	4,5	Armin Biere	will either provide zoom lectures or use previously recorded videos, videos will be available through the whole semester	online assignments only consisting of four mini-projects and exercises through moodle	no physical presence required, mini-project presentations through zoom
Production Automation Systems	VL	3	Alois Zoitl	recording in Moodle (stream available for full semester) bidirectional videoconference live-stream to the JKU's satellite campus in Vienna if technically possible: one-way live-stream to students' end devices slides online	final exam on-site (Linz or Vienna)	no physical presence required
3rd Semester						
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Probabilistic Models	VL	3		recording in Moodle (stream available for full semester) bidirectional videoconference live-stream to the JKU's satellite campus in Vienna slides online	final exam on-site (Linz or Vienna)	no physical presence required
Probabilistic Models	UE	1,5	Paul Primus	recording or pre-recorded presentations in Moodle (available for full semester) separate exercise group in Vienna (JKU satellite campus) slides online	regular exercise sheets (in Moodle)	no physical presence required
Explainable AI	VL	3	Marc Streit	bi-directional video conference live-stream if technically possible: one-way live-stream to students' end device lecture and lab recording will be put in Moodle (available for full semester) lecture/lab slides in Moodle required days of physical presence: 0 + live presence required for all lab appointments (but remote presence OK)	final exam online	no physical presence required
Explainable AI	UE	1,5	Marc Streit	same as lecture	team presentations and assignments	same as lecture

Artificial Intelligence - Course Infos

Winter Term 2020/21

Communicating in AI	KV	1,5	Martina Mara	Online lecture via Zoom	Group online assignment, regular individual mini tasks	no physical presence required
Medical Imaging	VL	3	Werner Baumgartner	recording in Moodle (stream available for full semester) scripts and slides online	final exam on-site (Linz or Vienna) or online	no physical presence required
Medical Imaging	UE	3	Christoph Wolf	recording in Moodle (stream available for full semester) scripts and slides online		no physical presence required
Automated Reasoning	VL	3	Tudor Jebelean	Interactive online lecture with virtual presence, recording in Moodle (stream available for full semester) lecture notes and slides online	final exam on-line	no physical presence required
Automated Reasoning	UE	1,5	Tudor Jebelean	same as lecture	grading based on exercises during semester	no physical presence required
Pervasive Computing: Design and Development	VL	3	Alois Ferscha	Presence mode, no live-stream to the JKU's satellite campus in Vienna possible slides online in Moodle recording for two weeks in moodle	final exam on-site (Linz or Vienna)	no physical presence required (presence mode, but no obligatory attendance)
Pervasive Computing: Design and Development	UE	1,5	Dari Borisov Trendafilov	recording in Moodle (stream available for full semester) bidirectional videoconference live-stream to the JKU's satellite campus in Vienna slides and assignments online in Moodle	regular online assignments in Moodle	Required days of physical presence: 2 (for collecting and returning hardware equipment, Linz only, no postal shipping!) (presence mode, but no obligatory attendance)
Radarsignalverarbeitung	VL	3	Andreas Stelzer		final exam on-site (Linz) or online	no physical presence required
Radarsignalverarbeitung	UE	1,25	Thomas Wagner	decision whether bi-directional live stream or pre-recorded presentations will be provided for Vienna, will be made once the number of student admissions and available video equipment in the lecture is known slides will be provides online	grading is done via homework	no physical presence required
Area of Specialization courses						

Artificial Intelligence - Course Infos**Winter Term 2020/21**

Sequence Analysis and Phylogenetics	VL	3	Alois Regl	asynchronous video recordings in moodle	Grading via exams on-site if the virus allows that, otherwise via moodle. Exam has two parts, midterm and endterm	No
Sequence Analysis and Phylogenetics	UE	3	Alois Regl	videos from the classroom, kept in moodle for further use	Grading from the assignments	No