

	Course name	Type	ECTS	Teacher	Content supply	Evaluation criteria	Presence requirements (physical presence, virtual presence)	Number of days of required physical presence at JKU	Number of written (i.e. not online) exams in Linz/Vienna/Bregenz	Technical support in lecture room requested	Live stream support to Vienna & Bregenz seminar room requested
Bachelor, 2nd Semester											
	Hands-on AI II	VL	1,5	Andreas Schörgenhuber, Navid Rekabsaz, Erich Kobler, Bernhard Schäfl	recording in Moodle (available for full semester) live-stream via Zoom live-stream to JKU's satellite campus in Vienna all material online	Online Exams	no physical presence required	0	0	1	1
	Hands-on AI II	UE	3	Andreas Schörgenhuber, Erich Kobler, Bernhard Schäfl, Navid Rekabsaz	recording in Moodle (available for full semester) live-stream via Zoom live-stream to JKU's satellite campus in Vienna all material online	Online Assignments	no physical presence required	0	0	1	1
	Technology and Society	KV	3	Raible Stefanie	Recording in Moodle Videoconference or Live-Stream at the JKU's satellite campus in Vienna Scripts and Slides	Final Online Assignment (in Moodle)	no physical presence required	0		1	1
	Algorithms and Data Structures I	VL	3	Alois Ferscha	Live-stream to the JKU's satellite campus in Vienna/Bregenz Recordings in Moodle (available for full semester) Slides, supplementary documents and literature references in Moodle	Final exam on-site (Linz, Vienna, Bregenz)	no physical presence required	0	1	1	1
	Algorithms and Data Structures I	UE	1,5	Dari Trendafilov, Florian Beck, Kevin Feichtinger	1 group (340212): Live-stream to the JKU's satellite campus in Vienna/Bregenz other groups: Linz only No recording Slides and assignments online in Moodle	regular online assignments	presence recommended, no compulsory attendance	0	0	1	1

	Programming in Python II	VL	1,5	Andreas Schörgenhuber	recording in Moodle (available for full semester) live-stream via Zoom live-stream to JKU's satellite campus in Vienna all material online	Online Assignments, online exams	no physical presence required	0	0	1	1
	Programming in Python II	UE	1,5	Andreas Schörgenhuber, Erich Kobler, Van Quoc Phuong Huynh	recording in Moodle (available for full semester) live-stream via Zoom live-stream to JKU's satellite campus in Vienna all material online	Online Assignments, online exams	no physical presence required	0	0	1	1
	Statistics for AI	VL	3	Thomas Forstner	in-class lecture and bi-directional live-stream to JKU's satellite campus in Vienna, recording of the live-stream is available in Moodle until end of semester, lecture slides are available in Moodle	final written on-site exam (JKU or JKU's satellite campus in Vienna) at the end of the semester	physical or virtual presence recommended	0		1	1
	Statistics for AI	UE	1,5	Thomas Forstner	weekly homework assignments and additional material are available in Moodle type I (presence group): -) presentation of homework examples from students in-class on a weekly base -) discussion/feedback of the homework examples type II (distance learning group): -) submission	type I (presence group): grade is based on the presentation of the homework examples and the number of prepared homework examples type II (distance learning group): grade is based on the number of correct homework examples, which were submitted in Moodle, and a final written on-site exam (JKU or	type I (presence group): physical presence is required type II (distance learning group): -	0		1	1

	Mathematics for AI II	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	no physical presence required	0		1	1
	Mathematics for AI II	UE	3	Fabian Hinterer, Rainer Schneckenleitner, Jan-Michael Holzinger, Hoan Nguyen Duc, Evans Ocansey, Audie Warren	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	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	0		0	0
Bachelor, 4th Semester		First occurrence: Summer term 2021									
	Seminar in AI	SE	3	Mario Ullrich	Individual resources will be provided	presentation and short write-up	virtual presence required (for own and other presentations)	0		0	0
	Seminar in AI	SE	3	Martina Seidl	Individual resources will be provided	Zoom Meetings and Presentation	no physical presence required	0		0	0
	Seminar in AI	SE	3	Cancino Chacon Carlos Eduardo, Peter Silvan	Individual resources will be provided	presentation and written report	no physical presence required	0		0	0
	Seminar in AI	SE	3	Alois Ferscha	Individual resources will be provided	Zoom Meetings and Presentation	no physical presence required	0		0	0
	Seminar in AI	SE	3	Sepp Hochreiter, Sebastian Lehner, Angela Bittonemling	Individual resources will be provided	Zoom Meetings and Presentation	no physical presence required	0		0	0
	Seminar in AI	SE	3	Oliver Bimber, Marc Streit, Günter Wallner	Individual resources will be provided	Zoom Meetings and Presentation	no physical presence required	0	0	0	0

Computational Data Analytics	KV	3	Johannes Fürnkranz	Lectures and exercises in class, pre-recorded lectures are available.	Final written exam on site (on-line if necessary)	no physical presence required, except for final exam	0	0	1	1
Learning from User-generated Data	VL	3	Markus Schedl, Oleg Lesota	Zoom stream, video recording, and physical presence possible	final written exam and regular short exercises	no physical presence required, except for final exam (either in Linz or Vienna)	0	0	1	1
Learning from User-generated Data	UE	1,5	Oleg Lesota	Zoom stream,	regular exerci	no physical pr	0	0	1	1
Formal Models	VL	3	Martina Seidl	will either provide zoom lectures or use previously recorded videos, videos will be available through the whole semester	bi-weekly moodle tests alternatively moodle online exam at the end of the semester (and in winter)	no physical presence required	0		0	0
Formal Models	UE	1,5	Max Heisinger, Sibylle Möhle, Andreas Plank, Adrian Reobola, Florian Schrögendorfer, Martina Seidl	one online group; other groups on campus;	bi-weekly moodle tests alternatively moodle online exam at the end of the semester (and in winter)	physical presence only for one or two presentations required	0		0	0
Machine Learning: Unsupervised Techniques	VL	3	Sepp Hochreiter, Thomas Adler, Markus Holzleitner, Philipp Renz	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 retry exam in February; all exams are online	no physical presence required	0		1	1
Machine Learning: Unsupervised Techniques	UE	1,5	Thomas Adler, Philipp Renz	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	0		1	1

	Machine Learning and Pattern Classification	VL	3	Gerhard Widmer	recording in Moodle (available for full semester) live-stream via Zoom live-stream to JKU's satellite campus in Vienna slides online	Online exam via Moodle; supervision via Zoom	no physical presence required (but I'd love to see you!)	0	0	1	1
	Machine Learning and Pattern Classification	UE	1,5	Jan Schlüter	recording in Moodle (available for full semester) live-stream via Zoom live-stream to JKU's satellite campus in Vienna slides online	practical project in small teams two project reports in small teams (mid-term and end-term)	no physical presence required	0		0	0
	Numerical Optimization	VL	3	Matus Benko	recording in Moodle (available for full semester); live-stream to JKU's satellite campus in Vienna; lecture notes online	final exam on site (Linz and Vienna) + some online assignments during semester	no physical presence required	0		1	1
	Numerical Optimization	UE	1,5	Matus Benko	recording in Moodle (available for full semester); live-stream to JKU's satellite campus in Vienna; lecture notes online	regular online assignments	no physical presence required	0		1	1
Bachelor, 6th Semester		First occurrence: Summer term 2022									
	Subject Gender Studies										
	Option 1: Ethik und Gender Studies		3	Barbara Sabitzer							
	Option 2: Gender Studies und soziale Kompetenz	VPS	3	Anna Stifinger	in-class lecture, if needed, additionally live-stream via Zoom; learning resources available in moodle	homework assignments and presentations	physical (for students situated in Linz) or virtual presence required (75%)	2		1	1
	Option 3: Introduction into Gender Studies in Science and Engineering		3	Waltraud Ernst	in-class lecture, if needed, additionally live-stream via Zoom; lecture slides available in moodle	weekly assignments via moodle; take home exam via moodle	physical (for students situated in Linz) or virtual presence required (75%)	0		1	1

	Option 4: Einführung in IKT, Gesellschaft, Gender und Diversity	KS		3 Doris Allhutter	in-class lecture, if needed, additionally live-stream via Zoom; lecture slides available in moodle	bi-weekly homework assignments via moodle and short presentations	physical (for students situated in Linz) or virtual presence required (75%)					
	Digital Signal Processing	VL		3 Mario Huemer	in-class lecture and live-stream via Zoom, recording of the lecture is available in Moodle until end of semester, lecture slides are available in Moodle	final exam on site (Linz, Vienna, Bregenz) required days of physical presence: 1 (exam, Linz, Vienna, Bregenz) but: physical presence highly recommended	no physical presence required	0	1	1	1	1
	Digital Signal Processing	UE		1,5 Matthias Wagner, Oliver Lang, Eugen Pfann	in-class lecture and bi-directional live-stream to JKU's satellite campus in Vienna	homework assignments during the semester	no physical presence required	0		1	1	1
	Bachelor's Thesis Seminar in AI	SE		9 Mario Ullrich	Individual	Bachelor's thesis and presentation	no physical presence required	0		0	0	0
	Bachelor's Thesis Seminar in AI	SE		9 Martina Seidl	Individual resources will be provided	Zoom Meetings and Presentation	no physical presence required	0		0	0	0
	Bachelor's Thesis Seminar in AI	SE		9 Emilia Parada-Cabaleiro	Individual resources will be provided	Personal Zoom Meetings and Presentations	no physical presence required	0		0	0	0
	Bachelor's Thesis Seminar in AI	SE		9 Johannes Fürnkranz	Individual resources will be provided	Personal Zoom Meetings and Presentations	no physical presence required	0		0	0	0
	Bachelor's Thesis Seminar in AI	SE		9 Sepp Hochreiter, Andreas Schörgenhuber, Sebastian Lehner, Angela Bittonemlin	Individual resources will be provided	Personal Zoom Meetings and Presentations	no physical presence required	0		0	0	0
Master, 2nd Semester												
	Deep Learning and Neural Nets II	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	0		1	1	1

Deep Learning and Neural Nets II	UE	1,5	Pieter Jan Hoedt, Günter Klambauer	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	0		1	1
Deep Reinforcement Learning	VL	3	Jose Arjona-Medina	recording in Moodle videoconference or Live-Stream at the JKU's satellite campus in Vienna and slides	online partial exams	no physical presence required	0		1	1
Deep Reinforcement Learning	UE	1,5	Bernhard Schäfl, Vihang Patil, Markus Hofmacher, Markus Holzleitner	recording in Moodle videoconference or Live-Stream at the JKU's satellite campus in Vienna and slides	online assignments	no physical presence required	0		1	1
Theoretical Concepts of Machine Learning	VL	3	Angela Bitto-Nemling, Johannes Kofler, Markus Holzleitner	recording in Moodle videoconference or Live-Stream at the JKU's satellite campus in Vienna and slides	final exam online	no physical presence required	0		1	1
Theoretical Concepts of Machine Learning	UE	1,5	Johannes Kofler, Markus Holzleitner	discussion of assignment solutions in live sessions (physically at JKU or via Zoom)	weekly to biweekly assignments	physical or virtual presence required	0	0	0	0
AI and Law II	VL	1,5	Stefan Schumann, Karin Bruckmüller	Recording in Moodle or live stream via Zoom, streams available until the end of the semester, Videoconference or Live-Stream at the JKU's satellite campus in Vienna possible, Slides	final written exam (online via Moodle)	no physical presence required	0		1	1
Robopsychology	KV	3	Martina Mara, Laura Moradbakhti	Recording in Moodle or live stream via Zoom	individual optional mini tasks; one group work; one written online exam	no physical presence required	0		0	0
Introduction to Autonomous Systems	VL	3	Luigi Del Re Pavlo Tkachenko	Lecture Notes and Slides available in Moodle		presence during the lectures is voluntary	0		1	1

	Introduction to Autonomous Systems	UE	1,5	Gunda Singer	Fully online via Zoom; Zoom Link and homework description in moodle	2-weekly homework assignments; reports have to be handed in via moodle	presence during the lectures is voluntary but recommended as the homework's content is discussed during the lecture	0		0	0
	Introduction to Robotic Systems	VL	3	Andreas Müller	recording in Moodle (stream available for full semester) lecture notes and slides online	final exam (oral if number of participants allows, written else)	no physical presence required	0		0	0
	Introduction to Robotic Systems	UE	1,5	Andreas Müller	recording in Moodle (stream available for full semester) lecture notes and slides online	biweekly online assignments	no physical presence required	0		0	0
	Knowledge Representation and Learning	VL	3	Johannes Fürnkranz, Josef Küng	Recording in Moodle, Videoconference or Live-Stream at the JKU's satellite campus in Vienna Scripts and Slides	final exam (oral if number of participants allows, written else)	no physical presence required	0		1	1
	Knowledge Representation and Learning	UE	1,5	Johannes Fürnkranz, Josef Küng	Written assignments in Moodle, Meetings can be held online	written assignments	no physical presence required	0		0	0
	AI in Life Sciences	VL	1,5	Günter Klambauer, Philipp Renz, Elisabeth Rumetshofer	recording in Moodle videoconference or Live-Stream at the JKU's satellite campus in Vienna lecture notes and slides	same grade as UE	no physical presence required but virtual presence during the final oral exam	0		1	1
	AI in Life Sciences	UE	1,5	Elisabeth Rumetshofer, Philipp Renz, Günter Klambauer	recording in Moodle videoconference or Live-Stream at the JKU's satellite campus in Vienna lecture notes and slides	online assignments final oral exam	no physical presence required but virtual presence during the final oral exam	0		1	1
	Genome Analysis & Transcriptomics	KV	3	Alois Regl	Recording in Moodle Live-Stream to Vienna and Bregenz Slides in moodle	One assignment, plus a final written exam ("in-class")	No physical presence required (except exam)	1	1	1	1
	Structural Bioinformatics	KV	3	Alois Regl	Recording in Moodle Live-Stream to Vienna and Bregenz Slides in moodle Exams in-class, closed book	One assignment, plus a final written exam ("in-class")	No physical presence required (except exam)	1	1	1	1
Master, 4th Semester		First occurrence: Summer term 2021									

	Master's Thesis Seminar	SE	3	Sepp Hochreiter, Sebastian Lehner, Andreas Schörghamer, Angela Bitto-Nemling	Individual resources will be provided	Zoom Meetings and Presentation	no physical presence required	0	0	0
	Master's Thesis Seminar	SE	3	Armin Biere, Martina Seidl	Individual resources will be provided	Zoom Meetings and Presentation	no physical presence required	0	0	0
	Master's Thesis Seminar	SE	3	Markus Schedl, Cancino Chacon Carlos Eduardo	Individual resources will be provided	Zoom or physical meetings and presentation	no physical presence required	0	0	1
	Master's Thesis Seminar	SE	3	Johannes Fürnkranz	Individual resources will be provided	Zoom Meetings and Presentation	no physical presence required	0	0	0
	Master's Thesis Seminar	SE	3	Luigi Del Re	Individual resources will be provided	Zoom Meetings and Presentation	no physical presence required	0	0	0
Area of Specialization courses										
	Sequence Analysis and Phylogenetics	VL	3	Alois Regl	Depending on Covid situation: reuse of videos from WS20, OR new recordings, OR presence lecture with stream to Vienna. Videos will be available until end of 2021.	Grading via exams on-site if the virus allows that, otherwise via moodle. Exam has two parts, midterm and endterm	None (except exams)	0	0	0
	Sequence Analysis and Phylogenetics	UE	3	Alois Regl	Depending on Covid situation: Recordings, OR presence lecture with stream to Vienna. Videos will be available until end of 2021.	Grading from the assignments. No exams.	None	0	0	0