StV Informatik & AI

Informatik, Artificial Intelligence,
Computer Science

INFORMATIK & AI

AI BACHELOR INFO EVENT 2023

Getting your degree in 5 easy steps!

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Students' Union Informatik & AI   informatik-ai@oeh.jku.at

Steps

1. Finish compulsory courses (*Pflichtkurse*)
2. Write Bachelor's Thesis (*Bachelorarbeit*)
3. Examination Roster (*Prüfungsraster*)
4. Any issues? Fix up your Roster! Else: Wait some time. . .
5. Documents arrive via snail mail — Profit!

FINISHING COMPULSORY COURSES

Course Overview

Annex 1: Global map of study subjects – Bachelor's Program "Artificial Intelligence" (2021)

1st Semester (WS) Subject/Course	ECTS	2nd Semester (SS) Subject/Course	ECTS	3rd Semester (WS) Subject/Course	ECTS	4th Semester (SS) Subject/Course	ECTS	5th Semester (WS) Subject/Course	ECTS	6th Semester (SS) Subject/Course	ECTS	
AI Basics and Practical Work Hands-on AI I (1.5 VL) Hands-on AI I (1.5 UE) Introduction to AI (3 VL)	6.0	**AI Basics and Practical Work** Hands-on AI II (1.5 VL) Hands-on AI II (3 UE)	4.5	**AI Basics and Practical Work** Artificial Intelligence (3 VO) Artificial Intelligence (1.5 UE)	4.5	**AI Basics and Practical Work** Seminar in AI (3 SE)	3.0	**AI Basics and Practical Work** Practical Work in AI (7.5 PR)	7.5			25.5
AI and Society Lecture Series Artificial Intelligence (1.5 KV) Responsible AI (3 KV)	4.5	**AI and Society** Technology and Society (3 KV)	3.0							**AI and Society** Gender Studies	3.0	10.5
Computer Science Programming in Python I (3 VL) Programming in Python I (3 UE)	6.0	**Computer Science** Algorithms and Data Structures 1 (3 VL) Algorithms and Data Structures 1 (1.5 UE) Programming in Python II (1.5 VL) Programming in Python II (1.5 UE)	7.5	**Computer Science** Algorithms and Data Structures 2 (3 VL) Algorithms and Data Structures 2 (1.5 UE)	4.5							18.0
		Data Science Statistics for AI (3 VL) Statistics for AI (3 UE)	6.0	**Data Science** Basic Methods of Data Analysis (3 KV) Visual Analytics (3 VL) Visual Analytics (1.5 UE)	7.5	**Data Science** Computational Data Analytics (3 KV) Introduction to Computational Data (3 VL) Learning from User-generated Data (1.5 UE)	7.5	**Data Science** Introduction to Computational Statistics (3 VL) Introduction to Computational Statistics (1.5 UE) Natural Language Processing (3 VL) Natural Language Processing (1.5 UE)	7.5	**Data Science** Digital Signal Processing (3 VL) Digital Signal Processing (1.5 UE)	4.5	33.0
Knowledge Representation and Reasoning Logic (3 VL) Logic (1.5 UE)	4.5					**Knowledge Representation and Reasoning** Formal Models (3 VL) Formal Models (1.5 UE)	4.5	**Knowledge Representation and Reasoning** Computational Logics for AI (3 VL) Computational Logics for AI (1.5 UE)	4.5			13.5
				Machine Learning and Perception Machine Learning: Supervised Techniques (3 VL) Machine Learning: Supervised Techniques (1.5 UE)	4.5	**Machine Learning and Perception** Machine Learning: Unsupervised Techniques (3 VL) Machine Learning: Unsupervised Techniques (1.5 UE) Machine Learning and Pattern Classification (3 VL) Machine Learning and Pattern Classification (1.5 UE)	9.0	**Machine Learning and Perception** Reinforcement Learning (3 VL) Reinforcement Learning (1.5 UE)	4.5			18.0
Mathematics Mathematics for AI I (6 VL) Mathematics for AI I (3 UE)	9.0	**Mathematics** Mathematics for AI II (6 VL) Mathematics for AI II (3 UE)	9.0	**Mathematics** Mathematics for AI III (6 VL) Mathematics for AI III (3 UE)	9.0	**Mathematics** Numerical Optimization (3 VL) Numerical Optimization (1.5 UE)	4.5					31.5
						Area of Specialization	1.5	**Area of Specialization**	3.0	**Area of Specialization**	7.5	12.0
								Free Electives	3.0	**Free Electives**	6.0	9.0
										Bachelor's Thesis Bachelor's Thesis Seminar in AI (9 SE)	9.0	9.0
	30.0		30.0		30.0		30.0		30.0		30.0	

Getting the Curriculum (Contains Overview)

JKU → Top Navigation → Degree Programs → All Degree Programs → Bachelor Artificial Intelligence (Or click here after downloading these slides)

Other Facts from the Curriculum

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- More information on courses and their modes in the *Studienhandbuch*: studienhandbuch.jku.at (Or direct Link for AI)

Most Important Curriculum Fact

Read it.

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And I recommend to also read the one from your next program proactively rather than retroactively...

THESIS

What does the Curriculum say?

§ 6 Bachelor's Thesis

(1) Students of the Bachelor's program Artificial Intelligence must complete a Bachelor's Thesis according to § 80 UG in the course SE "Bachelor's Thesis Seminar in AI" (536BAARBTSS19).

(2) The Bachelor's Thesis will be graded in combination with the "Bachelor's Thesis Seminar in AI" by the teacher of this course.

(3) The Curricular Committee for Artificial Intelligence may specify guidelines for the formal structure of a Bachelor's Thesis.

(4) The topic of the Bachelor's Thesis has to be expressed in the certificate.

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- Peak efficiency: "Seminar in AI", "Practical Work in AI", and "Bachelor's Thesis Seminar in AI" on same institute with similar enough topics so synergies emerge. Leads to more interesting work and less friction!

EXAMINATION ROSTER

Where? How??

jku.at/en/degree-programs/students/degree-completion/

1. Completing a Bachelor's Degree

Where? How??

jku.at/en/degree-programs/students/degree-completion/

1. Completing a Bachelor's Degree
2. Engineering and Natural Sciences

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6. Send to pruefung-tn@jku.at when done.

THE LONG WAIT

How Long?

2 weeks to 1 month usually

Eventually change stuff you did wrong.

PROFIT!

It is done!

After receiving your degree and being in the right course of study in KUSSS, you really are done with the Bachelor's!

Now sail forth; onwards to new challenges! (Master's?. . .)

Frequently Asked Questions

When to begin the Bachelor's Thesis? See Curriculum. There is no explicitly defined starting point though, you could also start early in the second semester or late after the sixth.

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Do I need other courses in order to start my Thesis? Also no, nothing is stated in the Curriculum. Normally you would work yourself through "Seminar in AI", "Practical Work in AI" and then "Bachelor's Thesis" though, which makes the whole process easier and more streamlined.

Informatik ⇆ AI

Feeling you got off at the wrong station? You can accredit some courses between AI and Informatik: See AI Program Details → Accreditation and Credit Transfer

Closing Tips

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- Don't overwork yourself, think of your scope (and the ECTS the thesis/project/seminar is worth) and try to make the best of it
- Try to keep cool when something doesn't immediately go as planned
- Party when the work is done and celebrate your achievements!

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