

M.Sc. Artificial Intelligence

Welcome, Master's students!

Summer semester 2026

Svenja Wübker, M.A.

Welcome & Orientation Events

Master's AI students and Faculty of Engineering April 8/9

M.Sc. AI students:

Studying at FAU

General information regarding your studies

April 8, 16:00-17:30 CEST

Online

Welcome Event

Specific Information regarding study program
Introduction FSI AI and program director

April 9, 12:00-14:30 CEST (sharp)

In-person:

Martensstr. 3, Erlangen, Room 02.134-113 (2nd floor)

Online: Link sent via email

Faculty of Engineering:

Campus rallye

April 9, 14:30-15:30 CEST

**Welcome by the Dean of Studies Prof. Lechner
and get together with drinks and pretzels**

April 9, 15:30 – 17:00 CEST

Red place, in case of rain: Foyer CBI, Cauerstr. 4

Welcome & Orientation Events

Welcome Week International Affairs Service (April 2-10)

Program on April 10 available via Zoom:

Library and Catalogue Basics for International Students

09:00 AM – 10:00 AM
(Registration required)

StudOn

10:00 AM – 11:00 AM

Need Help with Writing? Services Offered by the Writing Center

11:15 AM – 11:30 AM

Psychological Counseling Services of the Studierendenwerk Erlangen-Nürnberg

11:30 AM – 12:00 PM

Working as an International Student

Career Service

12:00 PM – 01:00 PM

Zoom links available in pdf:

https://www.doc.zuv.fau.de//S-INTERNATIONAL/Aus_dem_Ausland/Welcome_Week_Program/Welcome%20Week_Program.pdf

20 April 2026

“Ask a Local. Ask Each Other – An intercultural exchange over food” (program tba)

May 5, 2026

Late Arrival Day

-
- 01** Welcome by study program coordinator and program director
 - 02** Program structure
 - 03** Specific for part-time studies
 - 04** Courses & Next steps
 - 05** Welcome by FSI Artificial Intelligence (student association)
 - 06** CIP-Pool Introduction

Study program coordinator

Svenja Wübker, M.A.

study-ai-master@fau.de



- Advice for your studies
- Accreditation of coursework achievements

Consultation (online / in-person)

Mo-Wed 13:30-15:00 in room 02.157

Thu 13:30-15:00 in room 08.152

Please book an appointment via the [website](#).

Study Program director

Prof. Dr. Michael Kohlhase



- Professor for Knowledge Representation/Processing
- Electives: AI I & II; Symbolic Methods for AI

FSI AI (Fachschaftsinitiative)

Events from AI students for AI students:

- organize pub crawls, game nights, ...
- connect with AI students from different semesters

Engage in organizational matters:

- give feedback regarding changes in the study regulations
- get involved in improving the AI Master's program
- give the AI students a voice on faculty level

Interested? Contact us!

– fsi-ai@cs.fau.de



AI pub night, june 2022

Program structure

Study duration in AI Master's program

- Regular study duration Master's program (120 ECTS): 4 subject semesters
- Maximum study duration at Faculty of Engineering: 6 subject semesters
- 1 credit: \approx 25-30 working hours (attendance-based learning + self study!)

→ resulting in a regular workload of 20-30 ECTS per semester

→ regular workload also counts for the first semester

- After 6th subject semester:
 - Application for semester extension with justification with the Examination Office required
 - Late arrival is not considered a sufficient justification for semester extension
 - Examination Office tends to be strict regarding semester extensions

Overview of module groups in the AI Master's program:

- Electives
- Projects
- Seminar
- Minor

Electives [50 ECTS]:

- The electives are dedicated to academic research around artificial intelligence and its methodologies as well as offering every student the opportunity to sharpen their individual profile.
- The electives are centred around the three central pillars of the AI master's programme:
 - **Symbolic AI**
 - **Subsymbolic AI/Machine Learning**
 - **AI Systems and Applications**
- Students will have to take a total of 50 ECTS credits worth of elective courses, with at least 10 ECTS from each of the central pillars.

Projects [10+10 / 10+5+5 ECTS]:

- The required projects are intended to test students' acquired technical knowledge, research merit and self-organisation skills.
- Both projects have to be associated with one of the central pillars discussed above and cannot both be associated with the same pillar.
- The 20 ECTS in the project section can be split into 2x10 ECTS or 1x10 ECTS and 2x5 ECTS
- Please do not take more than the required 20 ECTS projects. The amount of projects are limited and many students are looking for a spot.

Seminar [5 ECTS]:

- The seminar will allow students to connect with a topic complex of their choice and research and interact with academic information and present their findings to a relevant audience.
- The seminar is intended as preparation for your thesis
- Seminars require in-person attendance and have a limited student capacity
- Sign up for several seminars (waiting list)
- If you get into several seminars, please choose ONE after the first session at the latest to ensure that other students can take your place
- Be involved and active in class, participate in discussions

Minor [15 ECTS]:

- Students will choose 15 ECTS credits worth of courses that have a connection to artificial intelligence (but are not already included in the electives).
- The goal is to work on connecting the gained knowledge to a broad array of subjects. They may form the basis for applications in future employment.
- An overview of the English and German taught minors is available on our website
<https://www.ai.study.fau.eu/students/master-program-ai/approved-minors/>
- Be aware: some minors such as Business Economics are very popular, it might be more challenging to get into seminar-style courses and ultimately limit your class choice
- You “choose” your minor with the first completed minor module
- 15 ECTS have to be completed in the same minor
- If you want to switch your minor, you can contact the Examination Office. But note that modules transferred to the additional achievements may not be transferred back.

Master's Thesis [30 ECTS]:

- The master's thesis can be registered by the thesis supervisor at the Examination Office as soon as the student has successfully collected 60 ECTS credits.
- It has to be completed within six months after the registration. An oral presentation of the results of about 30 minutes as well as a consecutive discussion are obligatory.
- The written thesis counts 27 ECTS while 3 ECTS fall to the oral presentation
- Professors who taught an elective, project or seminar within the AI Master's program is allowed to supervise a thesis for a AI Master's student
- Finding a thesis supervisor is often times challenging. Connections through attendance in lectures and seminars as well as previous commitment in projects might be helpful.
- Make sure to attend lectures in person and be active in class

Study progression full-time

Module	ECTS	Workload			
		Semester 1	Semester 2	Semester 3	Semester 4
Elective Modules	50	20	20	10	
Project I	10		10		
Project II	10			10	
Main Seminar	5			5	
Minor	15	10		5	
Master's Thesis	30				30
	120	30	30	30	30

The standard progression through the master program for full-time participants with 30 ECTS per semester.

<https://www.ai.study.fau.eu/students/master-program-ai/study-progression/>

Where can I find further information regarding the AI Master's program?

AI Master's website

<https://www.ai.study.fau.eu/students/master-program-ai/>

Examination Regulation for the MSc AI program (FPO)

<https://www.fau.de/universitaet/universitaetsorganisation/rechtliche-grundlagen/pruefungsordnungen/technische-fakultaet/informatik/#artificial-intelligence-master>

General Examination Regulation for the Faculty of Engineering (ABMPO)

<https://www.fau.de/universitaet/universitaetsorganisation/rechtliche-grundlagen/pruefungsordnungen/technische-fakultaet/#allgemeine-pruefungsordnung-bachelormaster>

Specifics for part-time studies

Study duration

- Regular: 8 semesters (vs 4 semester in full-time)
- Maximum study duration at Faculty of Engineering: 10 semesters (vs 6 semesters full-time)
- Credit limitation: 15 ECTS per semester / max 35 ECTS per academic year

Study progression part-time

Module	ECTS	Workload							
		Se 1	Se 2	Se 3	Se 4	Se 5	Se 6	Se 7	Se 8
Elective Modules	50	15	15	10	10				
Project I	10					10			
Project II	10						10		
Main Seminar	5						5		
Minor	15			5	5	5			
Master's Thesis	30							15	15
	120	15	15	15	15	15	15	15	15

The standard progression through the master program for full-time participants with 15 ECTS per semester.

<https://www.ai.study.fau.eu/students/master-program-ai/study-progression/>

Change of mode of study (part-time/full-time):

- Apply for a change of study program with Student Records Office before the start of lectures
- A switch is possible until the 3rd semester. Otherwise application for exception with Examination Office required, decision by Examination Committee.
- Students may only change back to the original mode of study in justified exceptional cases; the decision lies with the Examinations Committee.
- When changing the mode of study, the credits are automatically accredited and the number of subject semesters is either doubled (change to part-time) or halved (change to full-time)

Courses

Electives

Designation	Pillar	Lecturer(s)	SWS	ECTS	WiSe	SoSe
Modellierung, Optimierung und Simulation von Energiesystemen	SA	Prof. Dr. Pruckner	2+2	5.0	x	
Multimedia Security	ML	Dr. Riess	2+2	5.0	x	
Middleware - Cloud Computing	SA	Dr. Distler, Michael Eischer, Laura Lawniczak	4	5.0	x	
Middleware - Cloud Computing (EÜ)	SA	Dr. Distler, Michael Eischer, Laura Lawniczak	4	7.5	x	
Deep Learning	ML	Prof. Dr. Andreas Maier	2+2	5.0	x	
Pattern Recognition	ML	Prof. Dr. Andreas Maier	3+1+2	5.0	x	
Interventional Medical Image Processing	ML	Julian Hoßbach, Prof. Dr. Maier, Tristian Gottschalk	4+4	10.0	x	
Medical Image Processing for Diagnostic Applications	ML	Julian Hoßbach, Prof. Dr. Maier, Tristian Gottschalk	4+4	10.0	x	
Biomedizinische Signalanalyse	ML	Dr. Felix Kluge, Prof. Eskofier	2+2	5.0	x	
Maschinelles Lernen für Zeitreihen Deluxe	ML	Prof. Eskofier, Prof. Oliver Amft, Dr. Ch. Mutschler	2+2+2	7.5	x	
Vernetzte Mobilität und autonomes Fahren	Sym	Dr. Anatoli Djanatiev	2+2	5.0	x	
Ontologien im Semantic Web	Sym	Prof. Dr. Schröder	4	7.5	x	
Künstliche Intelligenz I	Sym	Prof. Dr. Kohlhase	4+2	7.5	x	
Logik-Basierte Sprachverarbeitung	Sym	Prof. Dr. Kohlhase, PD Dr. Florian Rabe	4	5.0	x	
Informationsvisualisierung	SA	Dr. Roberto Grosso	2+2	5.0	x	
Eingebettete Systeme	SA	Prof. Dr. Teich	2+2	5.0	x	
Eingebettete Systeme mit erweiterten Übungen	SA	Prof. Dr. Teich		7.5	x	
Verifikation digitaler Systeme	Sym	Prof. Dr. Oliver Keszöcze	2+2	5.0	x	
Formale Methoden der Softwareentwicklung	Sym	PD Dr. Tadeusz Litak, Paul Wild	4	7.5	x	
Verteilte Systeme	SA	Dr. Jürgen Kleinöder	2+2	5.0		x
Verteilte Systeme erweiterte Übungen	SA	Dr. Jürgen Kleinöder, Dr. Tobias Distler	2+2	7.5		x
Computer Vision	ML	Ph Ronak Kosti, Dr. Vincent Christlein	2+2	5.0		x
Pattern Analysis	ML	Dr. Christian Riess	3+1	5.0		x
Human Computer Interaction	SA	Prof. Dr. Eskofier	3+1	5.0		x

Please note: An updated version of the catalogue will be published every semester!

<https://www.ai.study.fau.eu/students/master-program-ai/module-catalog/>

Keep in mind – some courses might be offered in German and/or English!

For language information, please consult Univis or contact the lecturer of the course.

Sym = Symbolic AI
ML = Subsymbolic AI / Machine Learning
SA = AI Systems and Applications

How to find courses that are part of the MSc AI program

- Check the module catalogue and Campo
- You may additionally use the module handbook for more detailed information on specific classes
- If a module can be found in Campo but not in the module catalogue, the course might not be part of the study program anymore and might only be available for re-takers
 - exam registration not possible, possibly only as additional achievement
 - If in doubt, feel free to contact me: study-ai-master@fau.de

Module catalogue:

is created manually and updated by study program coordinator on a regular basis

Module handbook:

is created from data in Campo

- the layout is created automatically
- The way the overview on the first pages is structured is sometimes misleading

Specifics of MSc AI program:

- **3 pillars: Symbolic AI, Subsymbolic AI, Systems and Applications**
- Aim: ensure broad education in the field of AI
- “Symbolic AI is challenging”
 - depends on academic background and interests
 - Keep an open mind
 - Symbolic AI is an essential pillar in the MSc AI program that cannot be avoided e.g. in electives d/or for project. There are basic level and advanced electives for Symbolic AI (similar to other pillars):
 - > “Basic level”: AI I and Symbolic Methods for AI (Prof Kohlhase)
 - > “Advanced”: Knowledge representation; Description Logic and Formal Ontologies; Modallogik; Nonclassical Logics in Computer Science; etc.

Next steps

Connect with other students

- Whatsapp group organized by FSI AI
- Events for (international) students: sports, RIA...

Compile your class schedule

- Campo Introduction:

<https://www.intern.fau.eu/teaching-studying/course-and-examination-management-campo-portal/guides-videos-faqs-on-campo/>

Register for courses – only if needed (information in Campo):

- usually via StudOn (see registration link on the respective lecture page in Campo)
- If registration is not required, simply go to the first lecture.

In case of late arrival:

- Attend the late arrival event offered by [RIA](#) on May 5, 2026.

Register for exams

- via Campo during exam registration period (May 18 (tentative) to June 7, 2026)

Re-register for WS 2026/27

- bank transfer – details via e-mail (t.b.a.)

Study & pass exams

- study groups
- time management
- practice with old exams from FSI

Connect with study program coordinator/advisor in case of issues or concerns

**Thank you for your attention.
Enjoy your time at FAU!**

A decorative background pattern of concentric, wavy lines in shades of blue, creating a sense of motion and depth.