

M.Sc. Artificial Intelligence

Welcome, Master's students!

Winter semester 2026/27

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Welcome!



Study program coordinator/advisor

Svenja Wübker, M.A.

study-ai-master@fau.de

- Advice for your studies
- Administrative tasks



Consultation (online / in-person)

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

Thu 13:30-15:00 in room 02.173

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

Please provide a meeting link for online meetings.

Study program director

Prof. Dr. Michael Kohlhase



- Professor for Knowledge Representation/Processing
- Electives:
 - AI I & II
 - Symbolic Methods for AI
 - Knowledge Representation
 - Natural Language Semantics

Welcome

FSI AI (Fachschaftsinitiative)

Events from AI students for AI students:

- Pub crawls, game nights, ...
- Connect with AI students from different semesters

Represent MSc AI students and engage in organizational matters:

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

Interested? Contact us!

— fsi-ai@cs.fau.de



AI pub night, june 2022

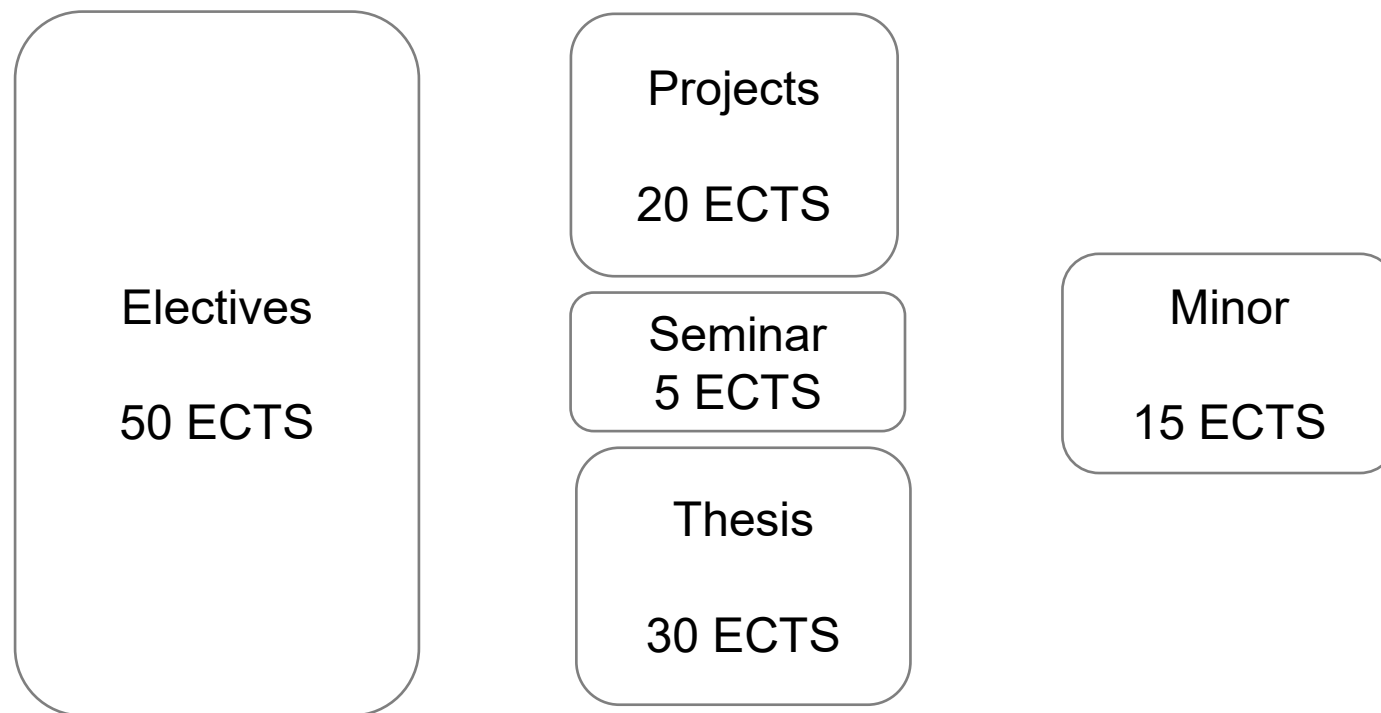
Program Structure

Recap: 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
- 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

Program structure

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



Please note:

Electives, projects and seminar are separate module categories, they cannot substitute for each other

Electives [50 ECTS]:

- Dedicated to academic research around artificial intelligence and its methodologies
- **Three central pillars**
 - Symbolic AI
 - Subsymbolic AI/Machine Learning
 - AI Systems and Applications
- **Requirement:**
 - 50 ECTS credits worth of elective courses
 - At least 10 ECTS from each of the central pillars
 - Ensure broad education in the field of AI
 - Opportunity to shape individual profile

Projects [20 ECTS]:

- 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 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.
- Projects offer a perfect occasion to explore potential thesis topics and supervisors

Projects [20 ECTS]:

- **Projects available in Campo:**

- registration with the responsible lab e.g. via StudOn
- registration requirements and registration period set by lab

- **Individual projects:**

- based on individual agreement between Professor and student
- Approval by study program required
- Proposal: tentative title, content, methods, pillar, ECTS, supervising professor (not phd)
- Send proposal via email to study-ai-master@fau.de
- Feedback period: 7-14 days
- Upon project completion: Send paper certificate to study-ai-master@fau.de

- Connect with a topic complex of their choice and research and interact with academic information and present their findings to a relevant audience.
- Preparation for your thesis: written and oral achievement
- Seminars usually 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

Program structure

Minor [15 ECTS]:

Aim: Connect knowledge in AI to a broad array of subjects

Choosing your minor:

- 15 ECTS have to be completed in the **same** minor
- Minor is “chosen” with the **first completed** minor module
- If you want to switch your minor contact the Examination Office
- Note: modules transferred to the additional achievements may not be transferred back



Available Minors

Be aware:

- Minors help building your academic profile – for your thesis and for future employment
- “Business economics”: Popularity and seminar-style courses might ultimately limit your class choice

- **Structure:**

- **Written thesis** accounts for 27 ECTS and has to be completed in 6 months upon registration
- **Oral presentation** is worth 3 ECTS and focuses on the thesis results as well as a consecutive discussion

- **Registration process:**

- Arranged by the thesis supervisor with the Examination Office
- Optional once a student has successfully collected at least **60 ECTS** credits

Who is eligible to supervise a thesis?

- Professors and Privatdozenten (PD) who taught an elective, project or seminar within the AI Master's program.
- Professors and Privatdozenten (PD) outside of the MSc AI program may be approved for thesis supervision by the study program and the study commission. Contact study-master-ai@fau.de for details.

Finding a thesis supervisor:

- Potentially challenging process
- Connections through attendance in lectures, seminars, projects and minor matter
 - Use electives intentionally to discover spectrum of courses and potential thesis supervisors
 - Follow specific interests
 - Attend lectures in person and be active in class
 - Choose a minor you are actually interested in

Study Progression full-time

Program Structure

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



Study Progression Website

Standard progression for full-time students with regular workload (30 ECTS) per semester



AI Master's website



**Examination Regulation for the MSc
AI program (FPO)**



**General Examination Regulation for
the Faculty of Engineering (ABMPO)**

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 Eisner, Laura Lawniczak	4	5.0	x	
Middleware - Cloud Computing (EÜ)	SA	Dr. Distler, Michael Eisner, 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 Djanatliev	2+2	5.0	x	
Ontologien im Semantic Web	Sym	Prof. Dr. Schröder	4	7.5	x	
Künstliche Intelligenz I	Sym	Prof. Dr. Kohlhasse	4+2	7.5	x	
Logik-Basierte Sprachverarbeitung	Sym	Prof. Dr. Kohlhasse, 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!



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 might be 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
 - Different skill level 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.



Specifics for part-time studies

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

Specifics for part-time studies

Study progression

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.

Specifics for part-time studies

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 Board.
- Students may only change back to the original mode of study in justified exceptional cases; the decision lies with the Examination Board.
- 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)
- **Caution Non-EU students:** approval of foreigners' registration office required for change of residence permit (student residence permit)

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 November 3, 2026.

Register for exams

- via Campo during exam registration period (November 16 (tentative) to December 6, 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!**