

Welcome, Master Students!

Prof. Dr. Michael Kohlhase Svenja Wübker, M.A.







Agenda

- ☐ Welcome by Prof. Dr. Michael Kohlhase (program director)
- ☐ Welcome by Svenja Wübker (program coordinator)
- ☐ Welcome by FSI Artificial Intelligence (student association)
- ☐ Important contact persons
- ☐ Introduction to the study program
- ☐ Introduction to FAU's CIP-Pools
- ☐ Introduction to "Campo"
- □ "Q&A"





FAU Erlangen-Nuremberg







## Persons in Charge/Contact Persons

#### Program Director

Prof. Dr. Michael Kohlhase

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

#### Program Coordinator

Svenja Wübker, M.A.

- → advice for your studies
- > accreditation of coursework achievements
- → support with formalities study-ai-master@fau.de





## **FSI AI** (Fachschaftsinitiative = Student council initiative)

#### 1. Events from AI students for AI students:

- spend some of your free time for planning activities
- organize pub crawls, game nights, ...
- connect with AI students from different semesters

#### 2. Engage in organizational matters:

- give feedback regarding changes in the study regulations
- get involved in improving the Al master's program
- give the AI students a voice on faculty level
- Interested? Contact us! fsi-ai@cs.fau.de



10.10.2024



### What's next?

Join the Matrix (FAU-hosted encrypted chat)!

https://to.chat.fau.de/#/room/!zrkOTraJRjMFZhBXUR:fau.de?via=fau.de

or scan >>>

Discuss Al related stuff here, connect to other students & the FSI Al, get notified for FSI events.

Space managed by the FSI Al.

On Desktop, open the link, choose chat.fau.de to continue and directly login with your FAU IdM account.

On Mobile, download the app "Element". Then click/scan the link and click on "If you already have Element installed, you can open it here". Click on Sign in. Change your homeserver (default: matrix.org) to matrix.fau.de and login with your FAU IdM. Further Matrix tutorial:

https://www.anleitungen.rrze.fau.de/serverdienste/matrix-an-der-fau/erste-schritte/



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Important contacts





General Study Advisory (Zentrale Studienberatung, ZSB)

Elisabeth Bächle-Grosso, Halbmondstr. 6-8, 91054 Erlangen, Room: 1.031 elisabeth.baechle-grosso@fau.de

- → general study-related problems
- → information about changing your study program (advisor for all engineering programs)
- → Confirmation of study duration for foreigner's registration office
- Examinations Office Faculty of Engineering (Prüfungsamt TechFak)

Heike Barthelmann, Halbmondstr. 6, 91054 Erlangen

#### heike.barthelmann@fau.de

- → managing exams, credits, grades online by "mein campus" or by paper certificates, withdrawal from exams (due to illness etc.),
- → Report on conditional subjects/"Auflagen"!

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Student Records Office (Studierendenverwaltung)
 Halbmondstr. 6-8, 91054 Erlangen

studierendenverwaltung@fau.de

- → Enrollment, semester leave, exmatriculation
- → Questions regarding student status
- International Affairs Office (Referat für Internationale Angelegenheiten)

Contact form on <u>website</u>

Open consultation in person and online

- → Information on studying abroad and on non-academic questions (e.g. residence permit, health insurance)
- → Orientation event for international students

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#### Office for Gender and Diversity

Bismarckstraße 6, 91054 Erlangen

gender-und-diversity@fau.de

- → Help for students with a migratory background
- → Support for women (in cases of violence, harassment)
- → Support for students experiencing discrimination of any kind (due to gender, ethnicity, religion, sexual orientation etc.)

#### Family Service

Richard-Wagner-Str. 2, 91054 Erlangen

https://www.familienservice.fau.eu/

→Advice for students and employees with children

e.g. on pregnancy, parental leave and benefit, childcare, care of relatives

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#### Advice for students with disabilities or chronic diseases

Dr. Tobias Schulz, Schloßplatz 3/Halbmondstr. 6, 91054 Erlangen beeintraechtigt-studieren@fau.de

- → General advice and support (e.g. accessibility of buildings)
- → Compensation of disabilities during examinations (e.g. more time)

#### Career Service

<u>career-service@fau.de</u>; <u>www.career.fau.de</u>; <u>Career Service on StudOn</u>

- → Help with your job search (also student jobs)
- → Support with applications and check of application documents
- → Useful workshops and seminars,
- → "Working as an international student in Germany" in April/May

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#### Counselling & Psychological Services at the Faculty of Engineering

Elizabeth Provan-Klotz and colleague, Erwin-Rommel-Str. 60, 91058 Erlangen <a href="mailto:tf-psychologische-beratungsstelle@fau.de">tf-psychologische-beratungsstelle@fau.de</a>
https://www.tf.fau.eu/studying/advice-and-services/psychological-services/

- → Confidential counseling in scheduled appointments and open consultation
- → Please be aware of waiting period for appointment (several weeks)
- →Support regarding different topics, including:
- Homesickness and problems in living away from family and friends
- Difficulties integrating into German university and society
- Loneliness, low mood, feelings of guilt, anxiety, panic, self harm and suicidal thoughts
- Learning difficulties, Procrastination and motivational problems
- Identity problems; gender or sexual orientation issues



## How to find information?

One weblink to rule them all ...

https://www.ai.study.fau.eu

https://www.fau.de

...including today's presentation!

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## How to find information?

# General information on the internet: search the web for "FAU" + keyword

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e.g. FAU + language courses
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FAU + examinations office

FAU + psychological services

FAU + semester dates...

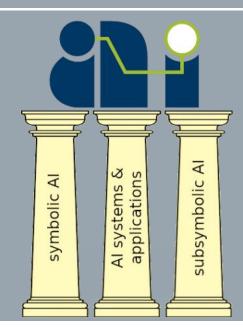


Important Contacts – Any Questions?





Program structure





## **Program Structure**

- General structure of the master program in Al
  - Electives [50 ECTS]: The electives are dedicated to <u>academic research</u> around artificial intelligence and its methodologies as well as offering every student the opportunity to sharpen their <u>individual profile</u>. The electives are centred around the three central pillars of the Al master's programme: Symbolic Al; Subsymbolic Al; Al Systems and Applications
  - > Students will have to take a total of <u>50 ECTS</u> credits worth of elective courses, with <u>at least 10 ECTS from each of the central pillars</u>.
  - **Projects** [10+10 / 10+5+5 ECTS]: The <u>required</u> projects are intended to test students' acquired technical knowledge, research merit and self-organisation skills.
  - > Both projects have to be associated with <u>one of the central pillars</u> discussed above and cannot both be associated with the same pillar.



## **Program Structure**

- General structure of the master program in Al
  - **Seminar [5 ECTS]**: The seminar will allow students to connect with <u>a topic complex of their choice</u> and research and interact with academic information and <u>present their findings</u> to a relevant audience.
  - 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.
  - Master's Thesis [30 ECTS]: The master's thesis can be <u>registered at the registrar's office</u> as soon as the student has successfully collected <u>60 ECTS</u> credits. It has to be <u>completed within six</u> <u>months</u> after the registration. An oral <u>presentation of the results of about 30 minutes</u> as well as a consecutive discussion are obligatory. Every professor contributing to the AI program (elective. project or seminar) can supervise your Master's thesis.

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## **Program Structure**

Module	ECTS	Semester 1	Worl Semester 2	doad 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 programme for full-time participants with 30 ECTS per semester.

https://www.ai.study.fau.eu/

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## **Program Structure**

#### **Electives**

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

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

https://www.ai.study.fau.eu/

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

= Subsymbolic AI / Machine Learning

SA = AI Systems and Applications

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#### **Types of Courses**

- V/L: Vorlesung/lecture generally no registration, attendance not mandatory but recommended
- Ü/E: Übung/Tutorium; exercise class/tutorial usually start in the 2<sup>nd</sup> week, further details in the 1<sup>st</sup> lecture, attendance usually not mandatory
- P: Praktikum/Practical course (lab course) attendance mandatory, early registration (see Campo)
- S: Seminar attendance mandatory, early registration (see Campo)



#### Types of exams/course achievement

- Prüfungsleistung (PL)/Graded course achievement (gCA)
  - schriftlich [written]
  - mündlich [oral]
  - Seminar (presentation and paper)

- Studienleistung (SL)/Ungraded course achievement (uCA)
  - e.g. exercise classes or practical courses
  - Hochschulpraktikum/academic laboratory
  - Forschungspraktikum/research laboratory



**General Information** 





#### What is "ECTS"?

- European Credit Transfer and Accumulation System
   Student workload required for the learning outcomes of a program
  - > 30 credits: **recommended** workload per semester
  - > 1 credit: ≈ 25-30 working hours (attendance-based learning + self study!)
- You will find information on ECTS in the module catalogs, in the online information system Campo, on your Master's certificate/Transcript of Records





#### **Semesters & Exams**

- Regular duration of studies: 4 semesters/two years
   can be extended to 6 semesters by re-registering + paying the fee
   After that: application for semester extension with a convincing justification
- Semester: lecture period (14/15 weeks) + lecture-free period (≈12 weeks)
- Two exam periods: first 3 weeks and last 4 weeks of the lecture-free period ("holidays")
- Failing an exam: **3 more attempts** in the **following** semesters (no mandatory registration)
  - exception: conditional subjects/"Auflagen" (max. 2 chances, i.e. 1 year!)
- You can/must only take exams if you register for them.
- Withdrawal from registered exams: until 3 working days (Mon Fri) before the exam without a reason or later in case of illness/severe reasons (medical/other certificate)



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#### **Semesters & Exams**

<u>Summer Semester 2025 (April 1, 2025 – September 30, 2025):</u>

Lecture Period: April 23, 2025 – July 25, 2025

Holidays outside lecture period: 18 April 2025 (Good Friday)

21 April 2025 (Easter Monday)

No lectures: June 10 and June 20, 2025

Public holidays (no lectures): May 1, 2025 (Labour Day)

May 29, 2025 (Ascension Day)

**June 9, 2025** (Whit Monday)

June 19, 2025 (Feast of Corpus Christi)

www.fau.eu/study/current-students/semester-dates/

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#### **Semesters & Exams**

<u>Summer Semester 2025 (April 1, 2025 – September 30, 2025):</u>

Exam Registration: June 2 – 22, 2025

Re-Registration for WS 25/26: July (1<sup>st</sup> week), 2025

Semester break (lecture-free): July 26, 2025 – October 12, 2025

Exams: **July 28 – August 09, 2025** 

**Sept 19 – October 12, 2025** 

https://www.fau.de/education/beratungs-und-servicestellen/pruefungsaemter/pruefungsamt-technische-fakultaet/#ID-11220229 https://www.fau.eu/education/study-organisation/re-registration/



#### Conditional Subjects/"Auflagen"

Must be passed within one year

Otherwise, they will prevent successful re-registration for the 3<sup>rd</sup> semester. **No exceptions!** 

- After successful completion of conditional subjects:
   Actively inform Mrs. Barthelmann (Examinations Office)!
- Examination results of the 2<sup>nd</sup> semester might be published late. If this is the case, contact your lecturer to get the results faster.



## Study successfully and make friends! Study Buddy

- New online tool to connect students in order to form study groups
- Research based: Studying in groups improves academic performance
- Currently for students in MSc AI, MSc CE, MSc MT
- Help us make this tool successful sign up now ©

https://courses.voll-ki.fau.de/study-buddy



#### **Events for International Students**

- Organized by International Affairs team
- Join StudOn group Events for International Students and make friends on fun trips

https://www.studon.fau.de/grp4131347\_join.html



#### **Foreign Language Training**

Sprachenzentrum (Language Center), Bismarckstraße 1; www.sz.fau.de

- Courses during the lecture period are free of cost.
- Intensive courses (with a fee) during the semester break
- Registration is required for all courses.
- Registration for German courses: online (+ in person); highly recommended for internships & future job!
- Recommended languages to prepare for studying abroad:
  - e.g. English, Spanish, Portuguese

Many of you will want to stay in Germany ...



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#### Visa and late arrival

- Please note that FAU is not an online university, classes are taught on-Campus. The program allows student to arrive at the university until mid-May.
- Please make sure not to miss the exams of your first semester.
- As soon as it is clear that you will "miss" the first semester, please make sure to cancel
  your enrollment and defer your admission to the winter semester.
- Late arrival online meeting planned for middle of April to discuss options contact <u>study-ai-master@fau.de</u> if interested!



General Information and Program Structure – Any Questions?





**Online Tools** 











## IdM portal: <a href="www.idm.fau.de">www.idm.fau.de</a> Manage your personal data!



SSO Service for all online services at FAU

- Activate your IdM account with the activation password mailed to you
- Upload a photo to generate your student ID card -> sent to your semester address!
- Problems: service counter/"Service-Theke" RRZE (Computation Center): next to blue computer science tower (Martensstraße 1), 1<sup>st</sup> floor
- All important information regarding your studies will be sent to your FAU e-mail address! <a href="https://faumail.fau.de/">https://faumail.fau.de/</a>
- Manage mail subscriptions (Newsletters): <a href="https://www.idm.fau.de/go/mail/subscriptions">https://www.idm.fau.de/go/mail/subscriptions</a>





#### **Campo: Manage Your Lectures & Exams**

#### Login: <a href="https://www.campo.fau.de/">https://www.campo.fau.de/</a>

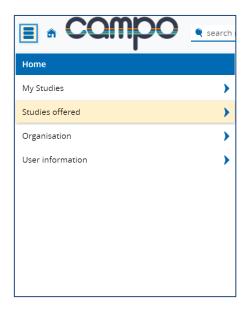
- Compile your class schedule: Register for modules
- Exam registration when active (same process as registration for modules)
- Overview of registered modules & exams
- Withdrawal from exams: up to three working days (Mon–Fri) before the exam date
- Overview of grades, acquired ECTS credits and transcripts
- Certificate of enrollment / Immatrikulationsbescheinigung

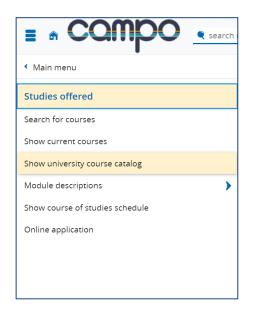




## Compile your class schedule Navigate to the Al course catalogue

Hamburger menu → Studies offered → Show university course catalogue









#### Compile your class schedule

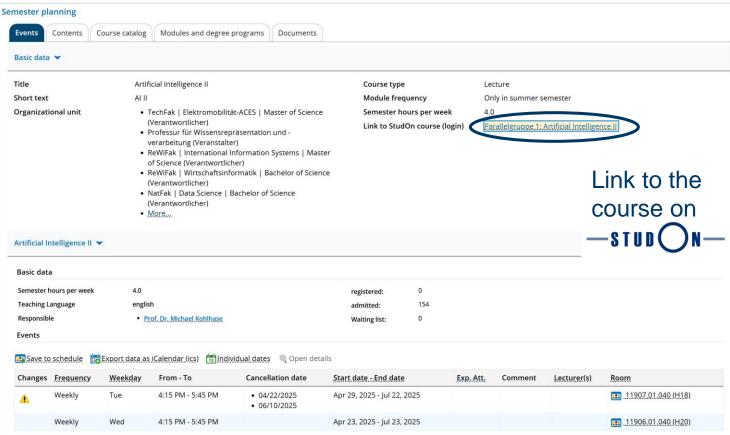
Course catalogue # 1720 Subsymbolic Al/Machine learning FAU course catalogue • # 23070 Biomedical signal analysis Faculty of Humanities, Social Sciences and Theology ▶ **★** 44120 Pattern analysis Faculty of Engineering #44130 Pattern recognition Faculty of Advanced Materials and Processes ▶ **★** 44140 Interventional medical image processing Engineering Advanced Optical Technologies ▶ **≰** 44151 Medical Image Processing for Diagnostic Applications Advanced Signal Processing & Communications Engineering ▶ **★** 44455 Speech and Language Processing ▼ .... Artificial Intelligence Artificial ▶ **★** 44481 Visual computing in medicine ▶ ■ Bachelor of Science Artificial Intelligence Hauptfach PO-Version 20242 Intelligence 47698 Introduction to explainable machine learning \$\mathbb{\pi}\$ 639119 Music processing analysis - Lecture and exercise # 10000 Master's examination 428256 Machine learning for time series ▼ 2000 Total . . . . . \$93873 Advanced deep learning ▼ Ø 1700 Compulsory electives > \$93185 Reinforcement learning > Ø1710 Symbolic artificial intelligence \$330467 Multimedia security > 3 1720 Subsymbolic Al/Machine learning Module description ₱ 532733 Artificial intelligence II > Ø1730 Al systems and applications ▶ ■Al II - Artificial Intelligence II - Lecture Registration Lecture > 3 1800 Minor subject ▶ ■UeAl II - Übungen zu Artificial Intelligence II - Tutorial/exercise > # 1900 Projects ▶ **₹**713618 Computer vision • # 1999 Master's module § 93822 Advanced seminar





Click the link in Basic data to register for the course

Save to schedule (registered courses automatically show up in schedule)

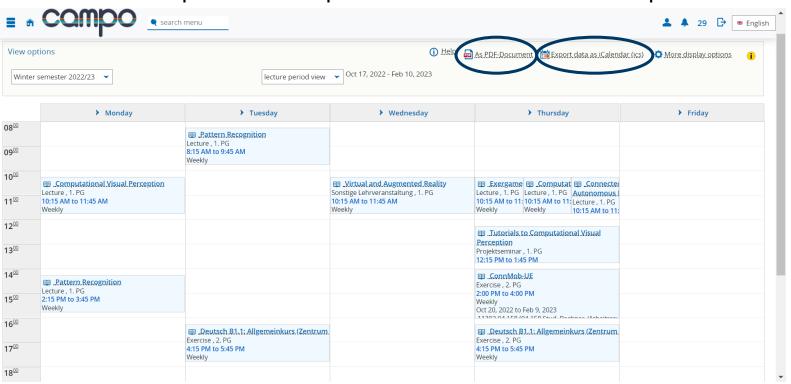






#### Hamburger menu → My Studies → Schedule

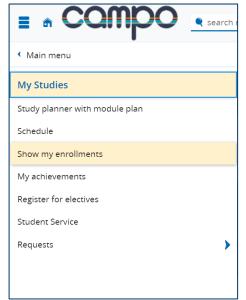
Select the view options to the planned semester and lecture period view

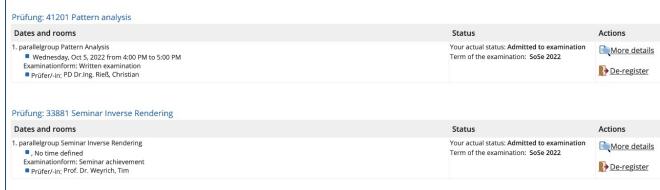


Some timetable download / export options as .pdf or .ics







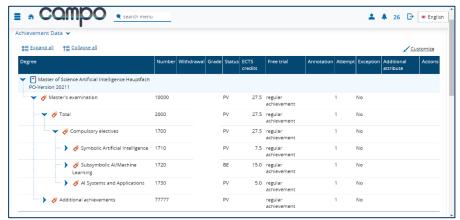


Deregistration up to 3 working days (Mon–Fri) before the exam date without reason





## Overview of grades, acquired ECTS credits and Transcripts Hamburger menu → My Studies → Transcript



Grades, acquired ECTS credits



Transcript

### Certificate of enrollment/Immatrikulationsbescheinigung:

Hamburger menu → My Studies → Student Service → Documents



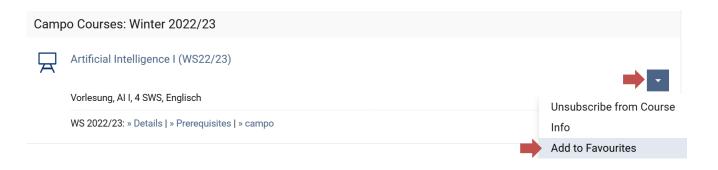
ULTY OF ENGINEERING

#### StudOn: Our E-learning platform

#### Login: <a href="https://www.studon.fau.de">https://www.studon.fau.de</a>

- Used for most courses
- Course registration
- Platform for sharing course materials
- View all my courses ->
- Add a course to the start page after login:









Erlangen-Nürnberg

### WELCOME WEEK

FOR INTERNATIONAL STUDENTS

4 - 11 MARCH 2025 7 - 14 APRIL 2025

FRIDAY, 11 APRIL



10:00 AM -	Scavenger Hunt
11:00 AM	Central Office for International Affairs
	Meeting Point: Marktplatz Erlangen, in front of
	the Paulibruppen

#### SATURDAY, 12 APRIL

08:00PM	ISN Party	
	ISN	
	Place: <u>Delphi Bar</u>	

#### MONDAY, 14 APRIL

11:30 PM - 01:00 PM	Understanding the Germans Kerstin Sommer from the Central Office for International Affairs Room: Kl. Hörsaal, 00.017, Bismarckst. 1a
01:00 PM - 01:30 PM	Psychosocial Counseling Services of the Studierendenwerk Erlangen-Nuremberg Elisabeth Provan-Klotz, Sabine Eschelbach, Stephanie Gruber from the Studierendenwerk Room: Kl. Hörsaal, 00.017, Bismarckst. 1a



01:30 PM – 02:30 PM	Introduction to Campo Astrid Semm & Thomas Lintner from Campo Support Room: Kl. Hörsaal, 00.017, Bismarckst. 1a
02:30 PM – 03:00 PM	IT Infrastructure and Services at FAU Lorenz Meinhard-Wech from the RRZE Room: Kl. Hörsaal, 00.017, Bismarckst. 1a
03:00 PM- 03:30 PM	Working as an International Student in Germany Stefanie Rösch from the Career Service Room: Kl. Hörsaal, 00.017, Bismarckst. 1a

https://www.fau.eu/education/internationa l/from-abroad/welcome-programme-forinternational-students/orientationcourses-for-international-students/

https://www.doc.zuv.fau.de/S-INTERNATIONAL/Aus\_dem\_Ausland/ Welcome Week Program/Welcome%2 0Week\_Program\_Summer%20Semest er\_25.pdf



What's next?





#### What's next?

- 1. Compile your class schedule
  - → Campo

Introduction:

https://www.intern.fau.de/lehre-und-studium/campusmanagement-an-der-fau-das-neue-campo-portal/informationsmaterial-zu-hisinone-exa/

- 2. 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 the first meeting.
- 3. Register for exams  $\rightarrow$  Campo (t.b.a.)

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#### What's next?

- 4. Re-register for WS 2025/26
  - → bank transfer details via e-mail (t.b.a.)
- 5. Study & pass exams
  - → study groups, time management, practice with old exams from FSI
- 6. Actively report on your conditional subjects
  - → Examinations Office (Ms. Barthelmann)
- 7. Get your 38 Euro ticket (monthly subscription for students for public transport) https://www.dbregiobus-bayern.de/tickets/ermaessigungsticket

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Q&A

### It's time for your questions!



