FRIEDRICH-ALEXANDER
UNIVERSITÄT
ERLANGEN-NÜRNBERG
FACULTY OF ENGINEERING

M.Sc. Artificial Intelligence

Welcome, Master Students!

Prof. Dr. Michael Kohlhase
Dr. Felix Schmutterer

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FACULTY OF ENGINEERING

M.Sc. Artificial Intelligence

Agenda

- ❑ **Welcome by Prof. Dr. Michael Kohlhase** (program director)
- ❑ **Welcome by FSI Artificial Intelligence** (student association)
- ❑ **Welcome by Dr. Felix Schmutterer** (program coordinator)
- ❑ **Introduction to the study program**
- ❑ **Introduction to FAU‘s CIP-Pools**
- ❑ **Introduction to „Campo“**
- ❑ **„Q&A“**

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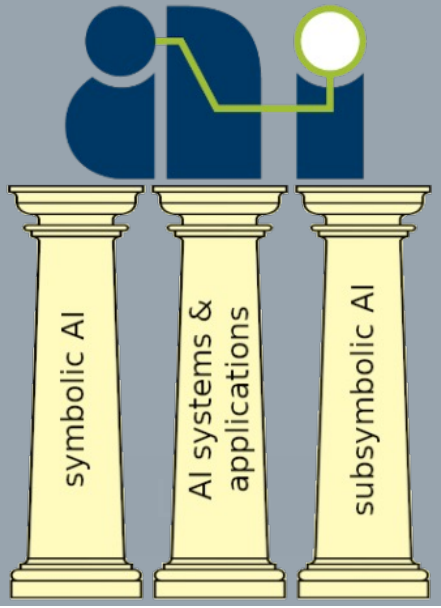


Persons in Charge/Contact Persons

- **Program Director**

  Prof. Dr. Michael Kohlhase

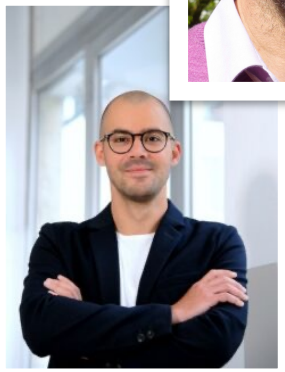
  (Professor for Knowledge Representation/Processing)

- **Program Coordinator**

  Dr. Felix Schmutterer

  → 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

AI pub night, june 2022

2. Engage in organizational matters:

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

- Interested? Contact us!
  fsi-ai@cs.fau.de

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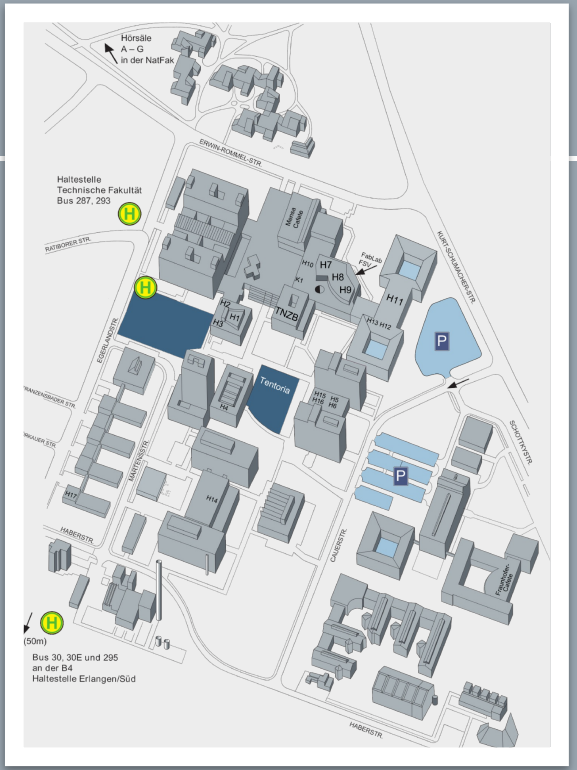
FAU Erlangen-Nuremberg



- **General Study Advisory** (Informations- und Beratungszentrum, IBZ)

  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)

  → student visa issues (certificate for foreigner's 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"!

- **International Office Faculty of Engineering**

  Christine Mohr, Erwin-Rommel-Str. 60, 91058 Erlangen

  christine.mohr@fau.de

  → Information about studies/internship abroad

  → General help and support for international students

- **Career Service**

  career-service@fau.de ; www.career.fau.de

  → Help with your job search (also student jobs)

  → Support with applications

  → Check of application documents

  → Training for job interviews

  → Useful workshops and seminars

- **Office for Gender and Diversity**

  Bismarckstraße 6, 91054 Erlangen

  gender-und-diversity@fau.de

  → Advice for students with children

  → 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.)

- **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)

- **Psychological support:**

  Elizabeth Provan-Klotz and Dominik Özbe-Schönfeld

  Psychologisch-Psychotherapeutische Beratungsstelle
  Computer Science Tower, Martensstr. 3, 91058 Erlangen, Room: 04.154
  Open consultation (anonymous drop-in sessions)

  +49 9131 85-27935

  E-Mail: tf-psychologische-beratungsstelle@fau.de

How to find information?

One weblink to rule them all …

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

…including today‘s presentation!

How to find information?

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

e.g. FAU + language courses

FAU + examinations office

FAU + psychological services

FAU + semester dates…

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M.Sc. Artificial Intelligence

Program Structure

Program Structure

- **General structure of the master program in AI**
  - **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; 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.

Program Structure

- **General structure of the master program in AI**
  - **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.
  - **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 registered at the registrar's 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.

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**

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

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

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	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 Djanatliev	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

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

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!

Types of Courses

- V/L: Vorlesung/lecture – generally no registration, attendance not mandatory
- Ü/E: Übung/Tutorium; exercise class/tutorial – usually start in the 2nd week, further details in the 1st 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

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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 5/6 by re-registering + paying the fee)
- Semester: lecture period (14/15 weeks) + lecture-free period (≈12 weeks)
- Two exam periods: first 2 weeks and last 4 weeks
  of the lecture-free period ("holidays")
- Failing an exam: **2nd + 3rd chance** in the **following** two semesters (**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)

Semesters & Exams

Summer Semester 2024 (April 1, 2024 – September 30, 2024):

Lecture Period:	**April 15, 2024 – July 19, 2024**
Exam Registration:	**May 27, 2024 – June 16, 2024**
Re-Registration for WS 24:	**July 1-7, 2024**
Semester break (lecture-free):	**July 20, 2024 - October 13, 2024**
Exams:	**End of July & September / Ocotber**

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

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 3rd semester. **No exceptions!**
- **After successful completion of conditional subjects:**
  Actively inform Mrs. Barthelmann (Examinations Office)!
- **Examination results of the 2nd semester might be published late.**
  If this is the case, contact your lecturer to get the results faster.

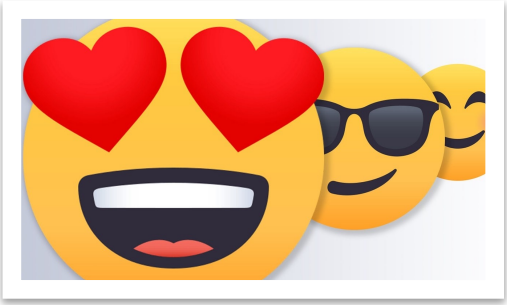
Foreign Language Training

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; **open as of now); 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 …



Visa and late arrival

The programme allows student to arrive at the university until mid-May.

Please note that FAU is not an online university, some modules might be taught / streamed via zoom.

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.

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Online Tools

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

IdM-Portal

campo

STUDON

IdM portal: www.idm.fau.de

Manage your personal data!

An IdM login is required for nearly all personalized online services at FAU…

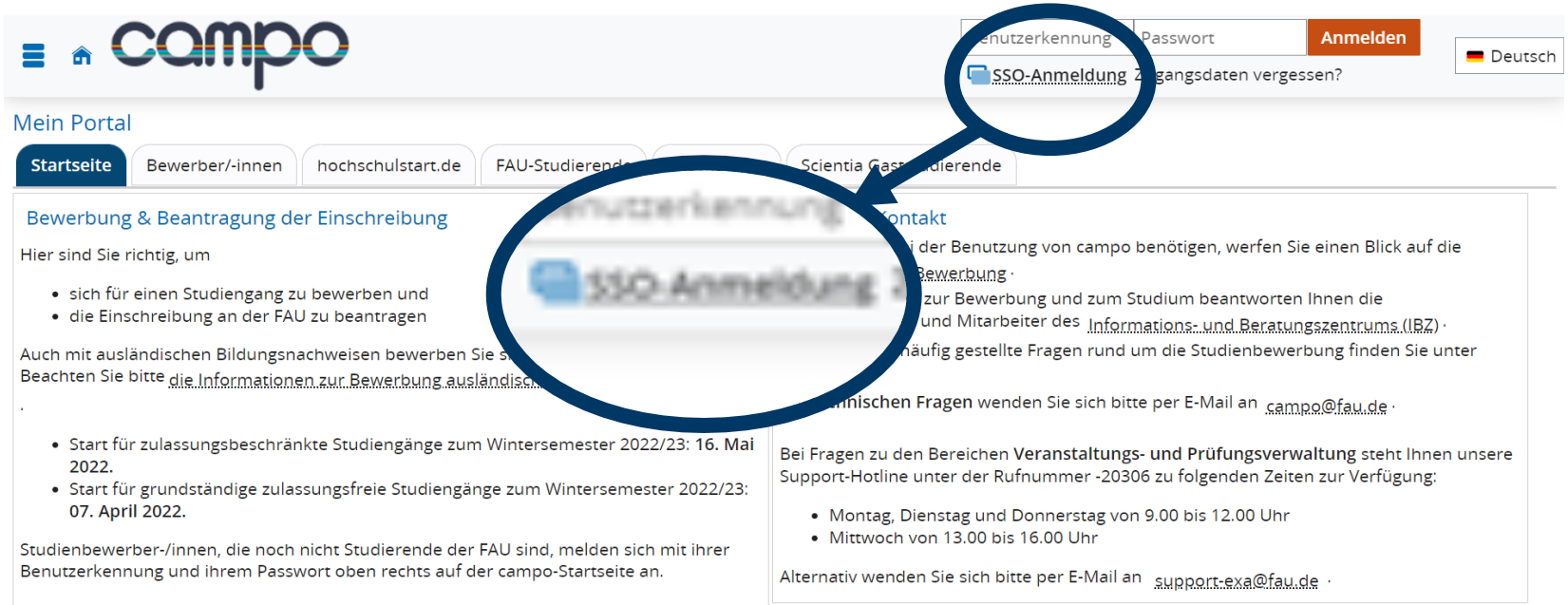
- Activate your **IdM account** with the activation password mailed to you!
- Upload a photo to generate your student ID card –
  it will be sent to your semester address!
- Problems: service counter/“Service-Theke“ RRZE (Computation Center): next to blue computer science tower (Martensstraße 1), 1st floor
- **All important information regarding your studies will be sent to your FAU e-mail address!**

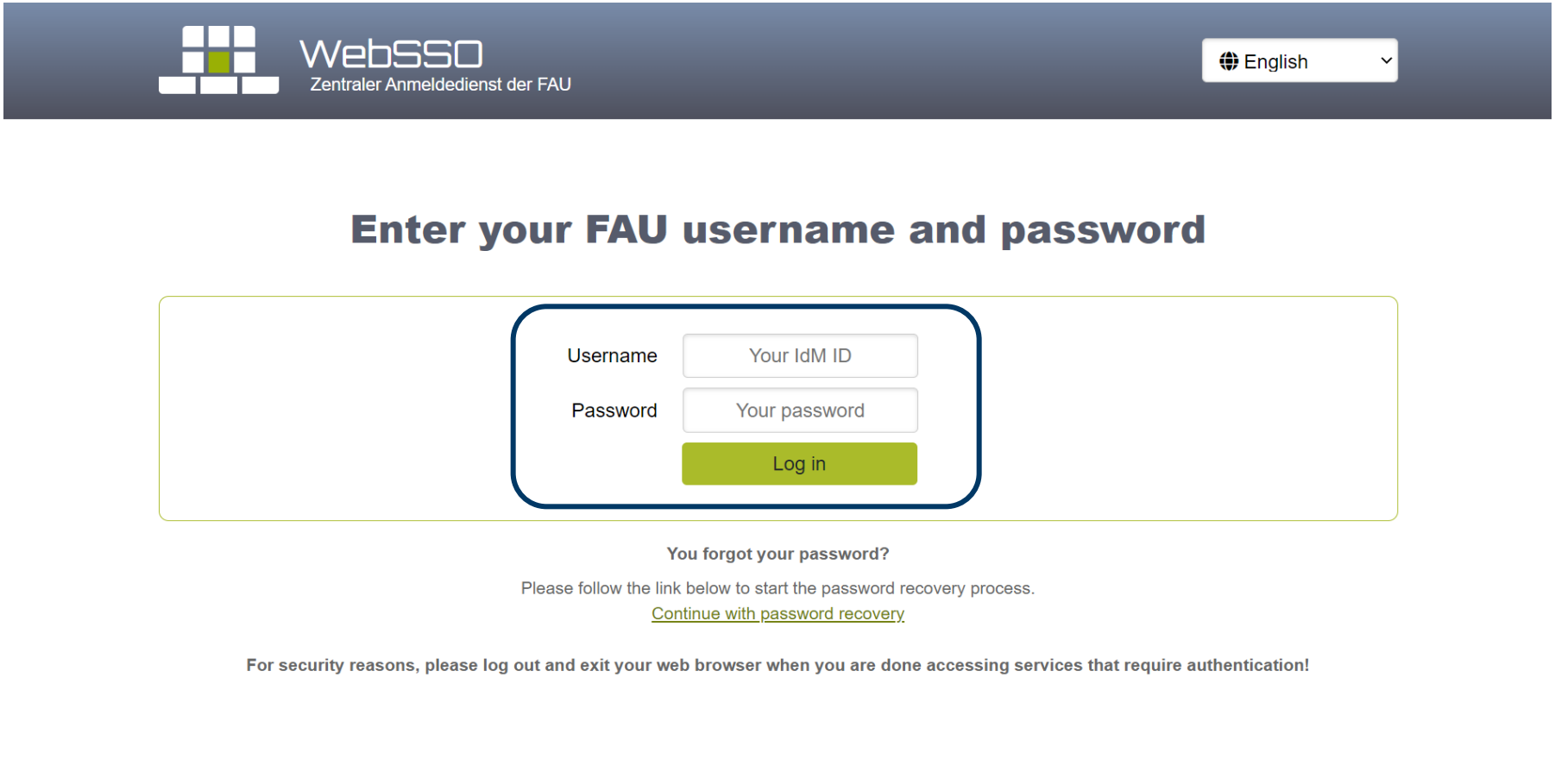
Campo: Manage Your Exams!

Login: https://www.campo.fau.de/

- “Single Sign-On”
- Prüfungen (Exams)
  - Exam registration
    (when active – registration)
  - Overview of registered exams
  - Withdrawal from exams: three working days before the exam date (Mon–Fri)
  - Overview of grades, acquired ECTS credits and Transcripts
- Certificate of enrollment / Immatrikulationsbescheinigung
- Compile your class schedule
- Register for courses

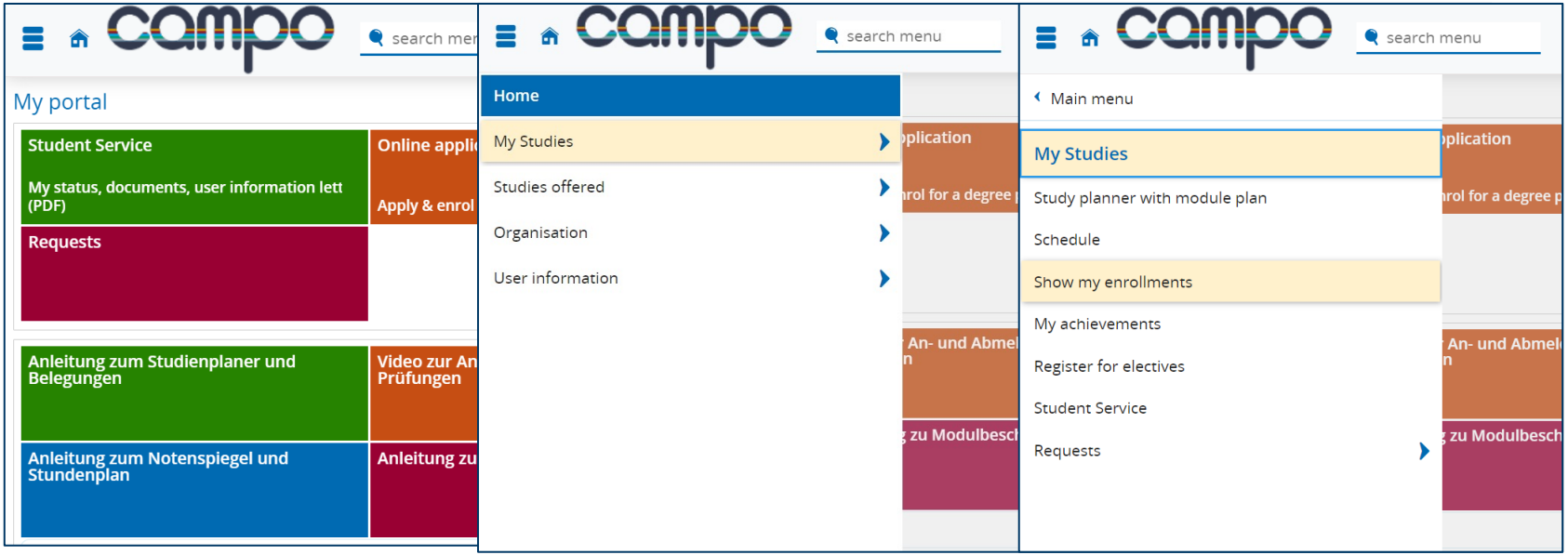
www.campo.fau.de Single Sign-On (SSO)




WebSSO
Zentraler Anmeldedienst der FAU
English
Enter your FAU username and password
Username
Your IdM ID
Password
Your password
Log in
You forgot your password?
Please follow the link below to start the password recovery process.
Continue with password recovery
For security reasons, please log out and exit your web browser when you are done accessing services that require authentication!

Prüfungen (Exams) - Overview of registered exams

Hamburger menu → My Studies → Show my enrollments



Overview of registered exams and option to withdraw/de-register

Prüfung: 41201 Pattern analysis

Dates and rooms	Status	Actions
1. parallelgroup Pattern Analysis ■ Wednesday, Oct 5, 2022 from 4:00 PM to 5:00 PM Examinationform: Written examination ■ Prüfer/-in: PD Dr.Ing. Rieß, Christian	Your actual status: **Admitted to examination** Term of the examination: **SoSe 2022**	More details De-register

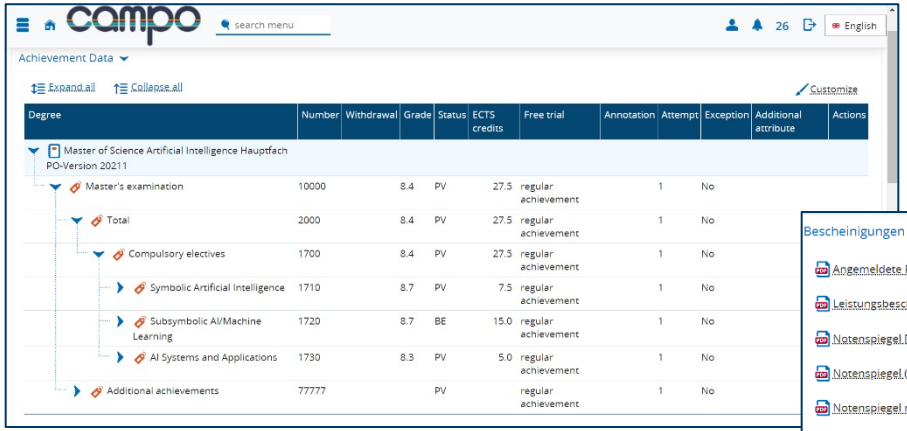
Prüfung: 33881 Seminar Inverse Rendering

Dates and rooms	Status	Actions
1. parallelgroup Seminar Inverse Rendering ■ , No time defined Examinationform: Seminar achievement ■ Prüfer/-in: Prof. Dr. Weyrich, Tim	Your actual status: **Admitted to examination** Term of the examination: **SoSe 2022**	More details De-register

3 working days (Mon–Fri) before the exam date!!!

Overview of grades, acquired ECTS credits and Transcripts

Hamburger menu → My Studies → My Achievements

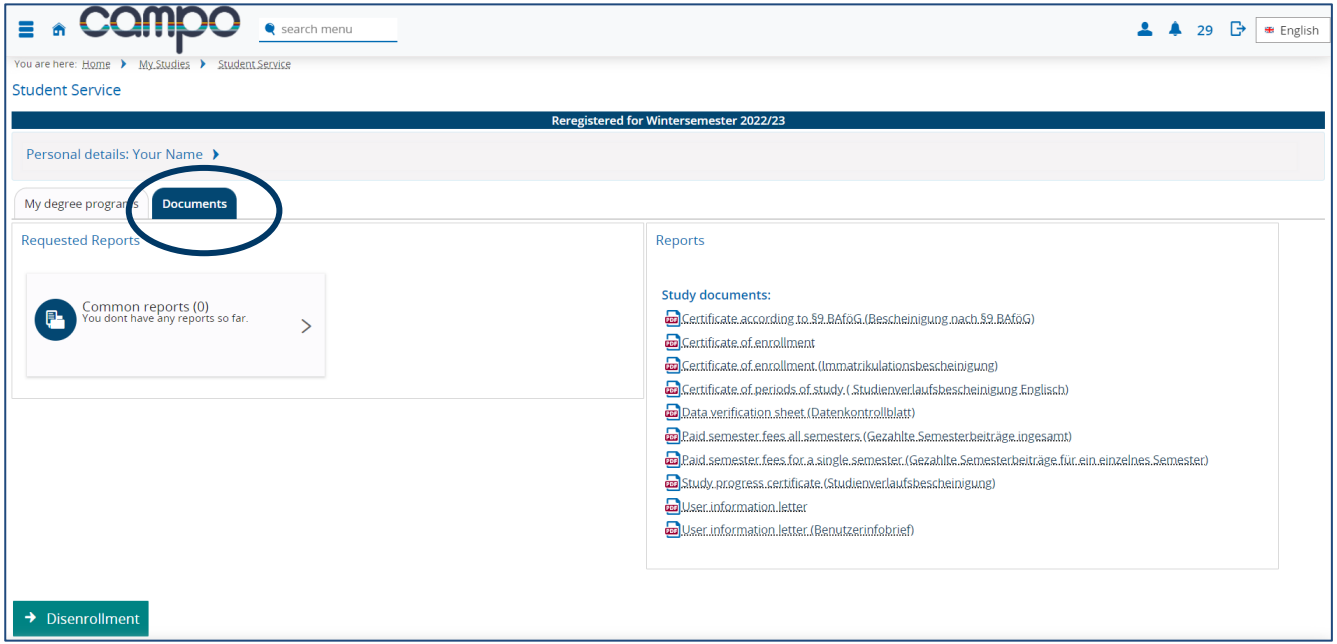


Grades,
acquired ECTS credit

Transcripts

Certificate of enrollment/Immatrikulationsbescheinigung

Hamburger menu → My Studies → Student Service

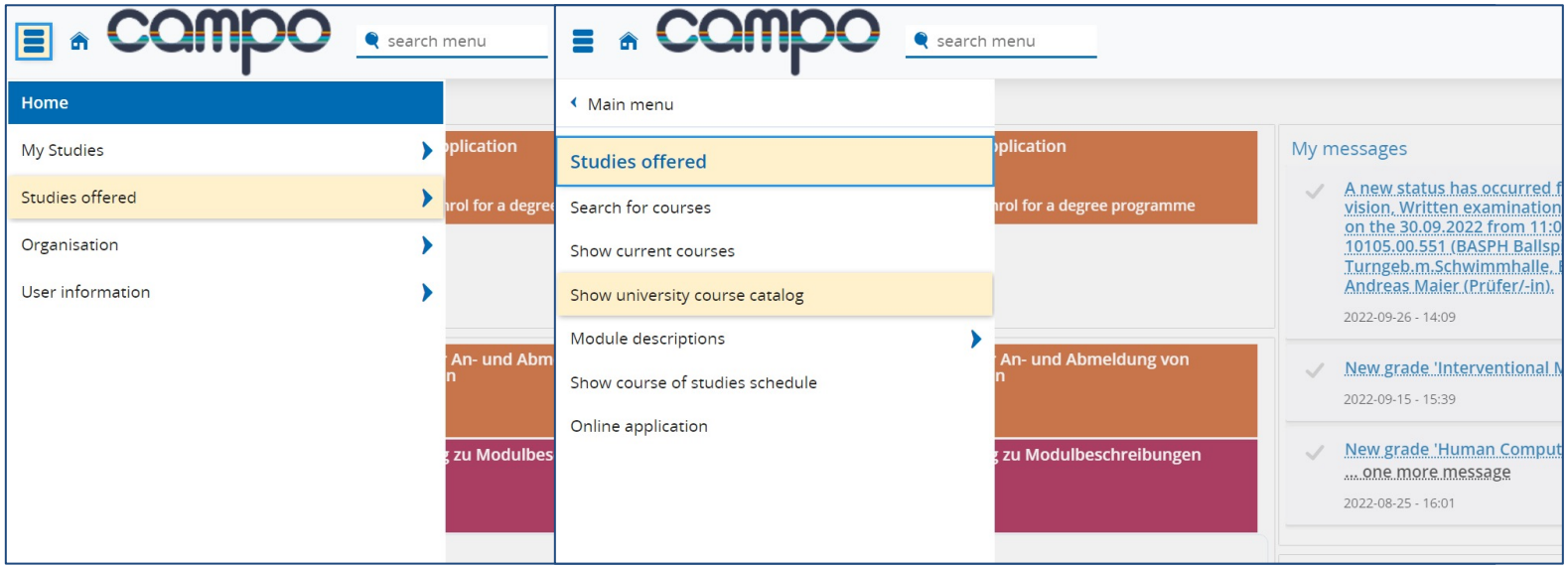


Compile your class schedule

Navigate to the AI Programs course catalogue

Hamburger menu → My Studies → Study planner with module plan

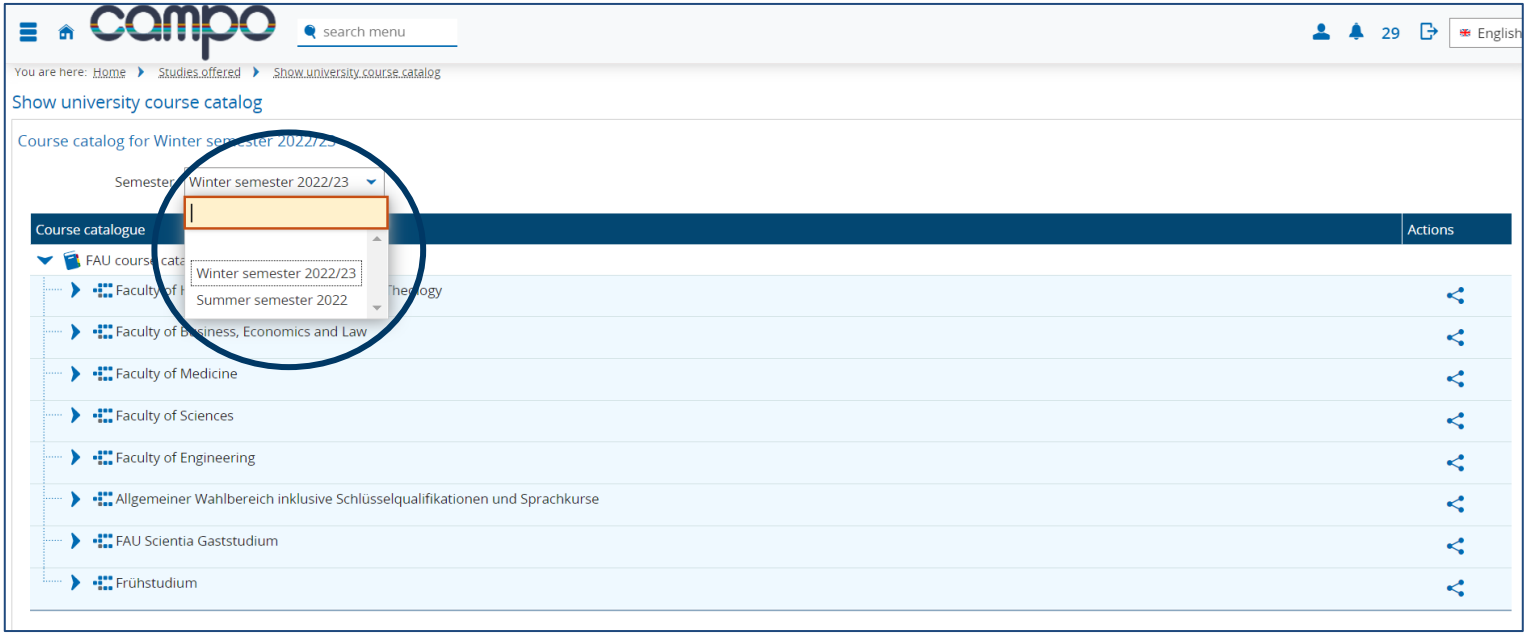
Hamburger menu → Studies offered → Show university course catalogue



Compile your class schedule

Select the semester

Navigate down to the Artificial Intelligence program



Compile your class schedule

Under the Faculty of Engineering

→

Artificial Intelligence

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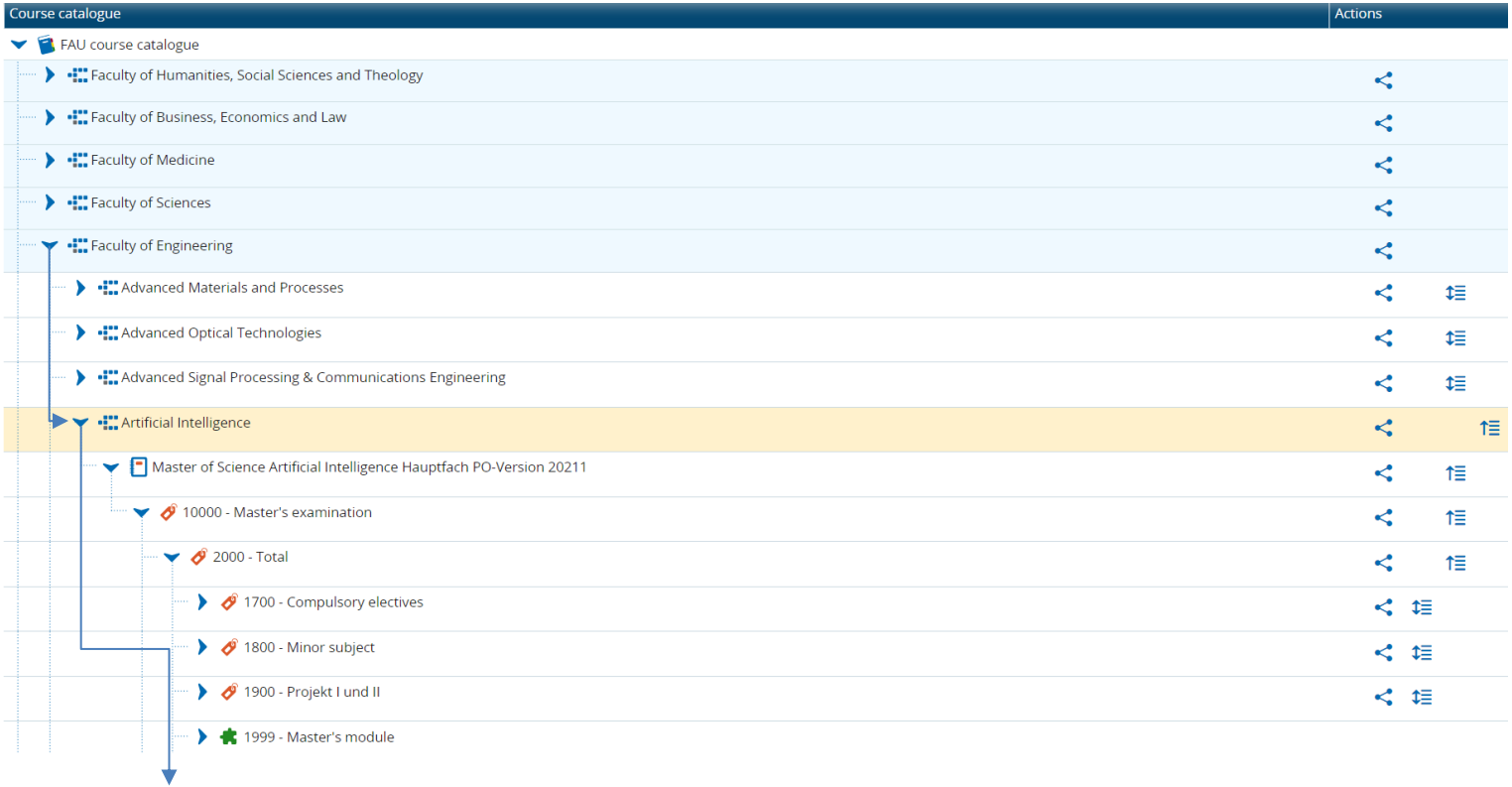
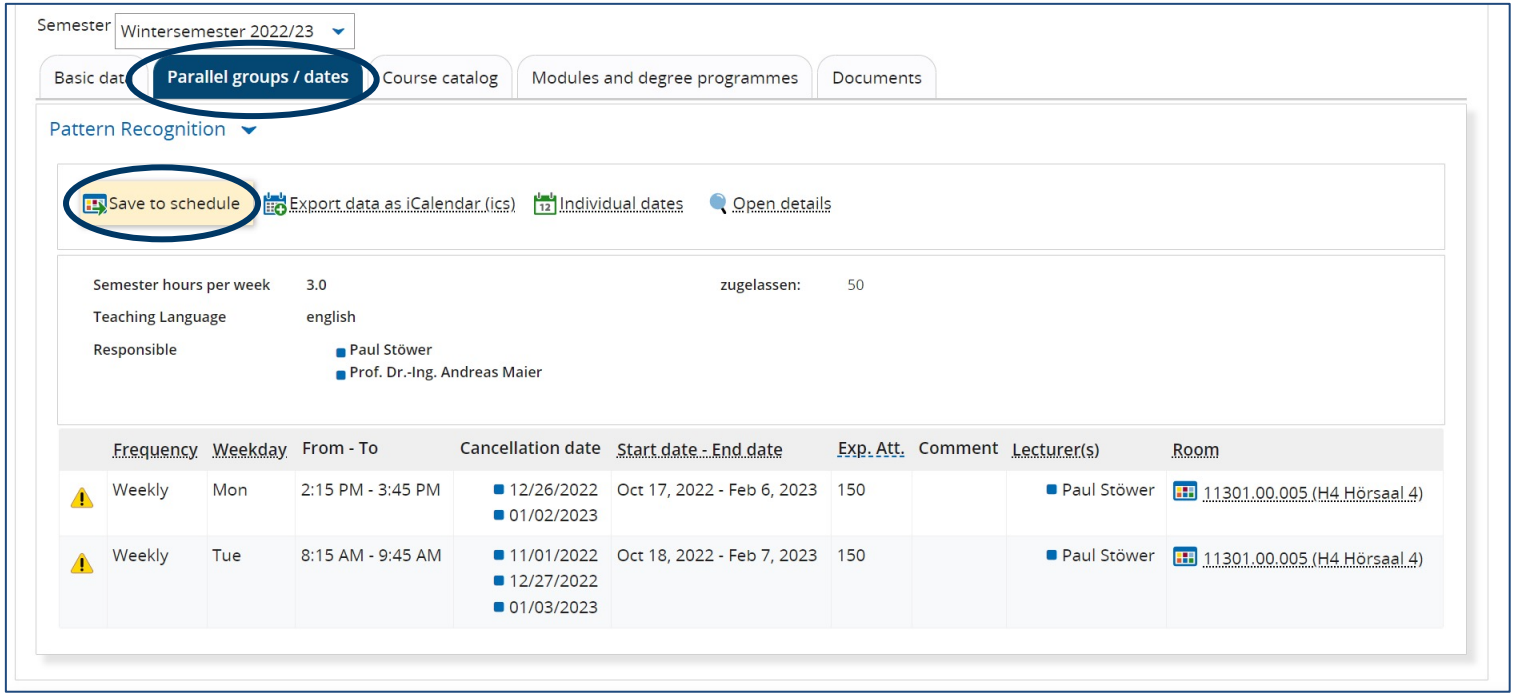


Click on the course lecture/exercise

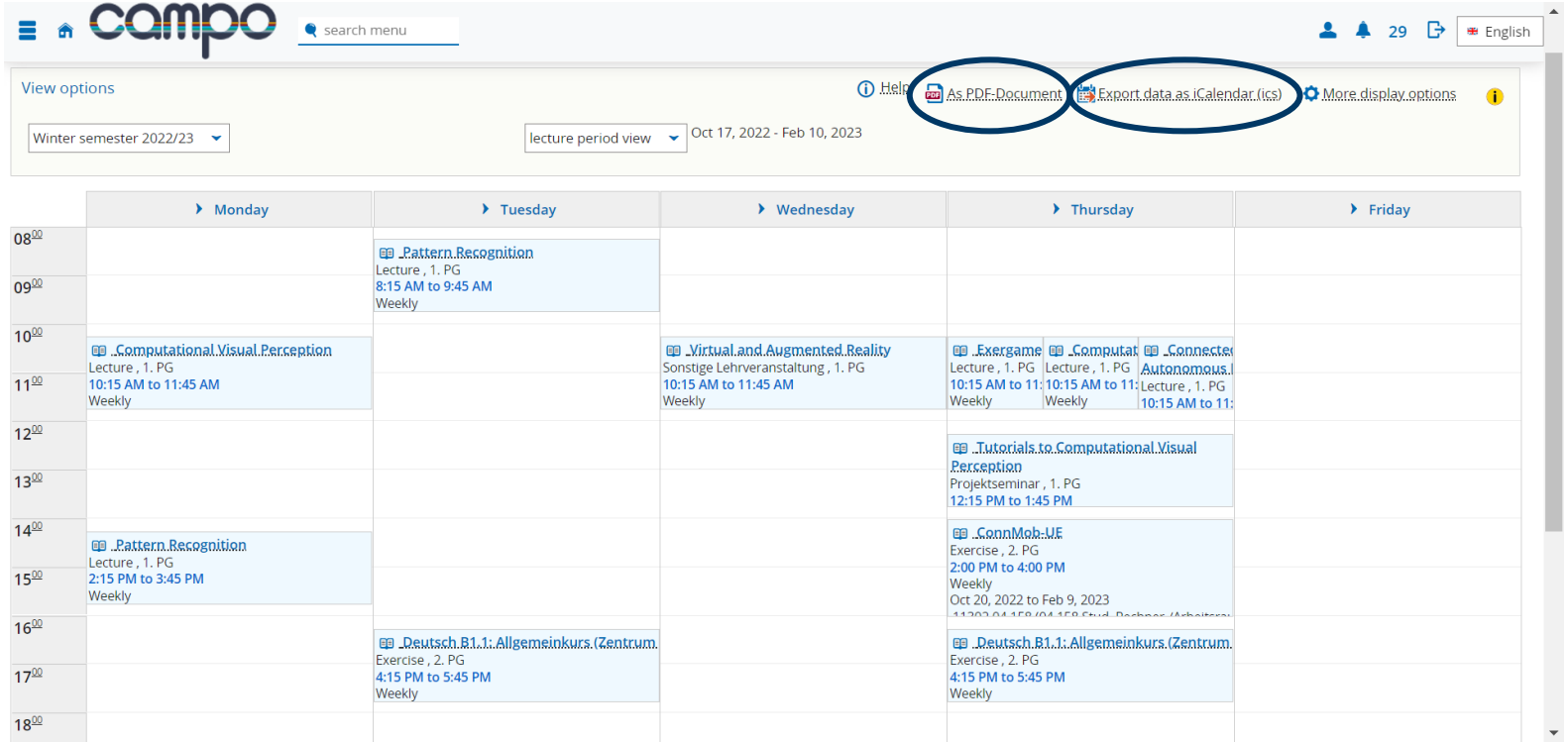
Click on parallel groups / dates

Click on save to schedule



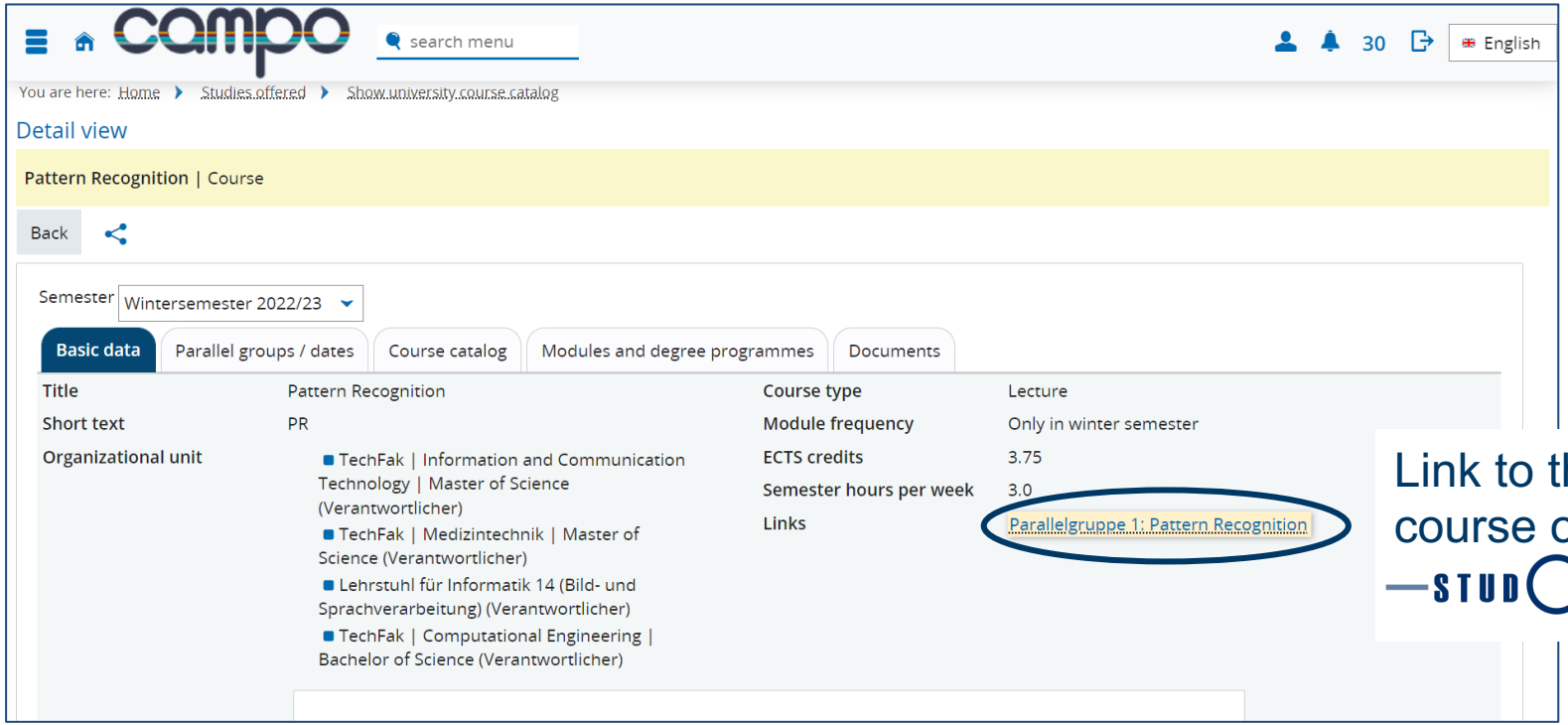
Hamburger menu → My Studies → Schedule

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



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

Register for courses

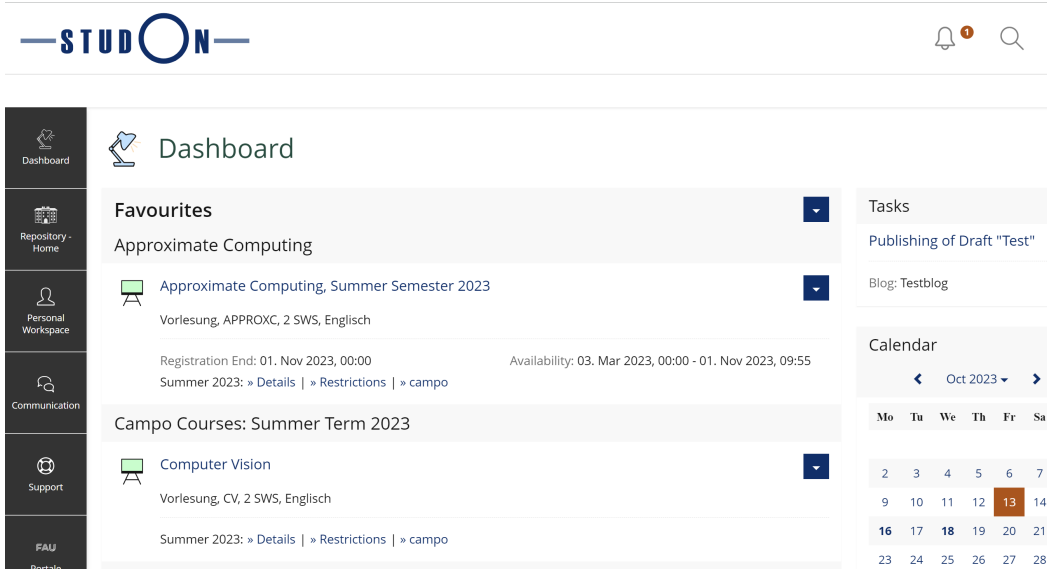


Link to the course on —STUDON—

StudOn: Our E-learning platform

Login: https://www.studon.fau.de

- Often used for courses that require registration (seminars, practical courses)
- Platform for sharing course materials



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What‘s next?

What‘s next?

Are you already a member of our Whatsapp-Group?

We will spread the link via eMail…

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** → Campo (**t.b.a.**)

What‘s next?

4. **Re-register for WS 2024**
   → bank transfer – details via e-mail (t.b.a.)

5. **Study & pass exams** → study groups, time management, practice with old exams from

6. **Actively report on your conditional subjects**
   → Examinations Office (Mrs. Barthelmann)

7. **Get your 29 Euro ticket: https://meinabo.vag.de/abo/new.aspx?produkt=16230706_1**

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Q&A

It‘s time for your questions!