

Welcome, Master Students!

Prof. Dr. Michael Kohlhase

Dr. Felix Schmutterer





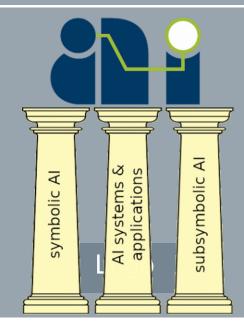


Agenda

- ☐ 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 "Campo"
- ☐ Introduction to FAU's CIP-Pools
- □ "Q&A"









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 studienberatung-ai@fau.de





FAU Erlangen-Nuremberg







Student Council Initiative AI ("FSI AI")

Events from Al students for Al students:

- → spend some of your free time for planning activities
- → 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
- → give the AI students a voice on faculty level





Al pub night, june 2022



- 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 foreigners 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. Jürgen Gündel, Schloßplatz 3/Halbmondstr. 6, 91054 Erlangen, Room: 1.032, juergen.guendel@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

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: elizabeth.provan-klotz@werkswelt.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...



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.



- 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>70 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.



	Y	Workload					
Module	ECTS	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/



Electives

Designation	Pillar	Lecturer(s)	SWS	ECTS	WiSe	SoSe
	SA					
Modellierung, Optimierung und Simulation von Energiesystemen		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

ML = Subsymbolic AI / Machine Learning

SA = AI Systems and Applications



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



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 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 3 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

Winter Semester 2022/23 (October 1, 2022 – March 30, 2023):

Lecture Period: October 17, 2022 – February 10, 2023

Exam Registration: November 30, 2022 – December 13, 2022 (prelim.)

Re-Registration for SS 23: February 1-8, 2023

Semester break (lecture-free): December 24, 2022 – January 6, 2023

February 11, - April 16, 2023

Exams: February & March / April

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 ...





Online Tools

https://www.intern.fau.de/lehre-undstudium/campusmanagement-an-der-fau-das-neuecampo-portal/informationsmaterial-zu-hisinone-exa/











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 <u>semester address!</u>
- 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!



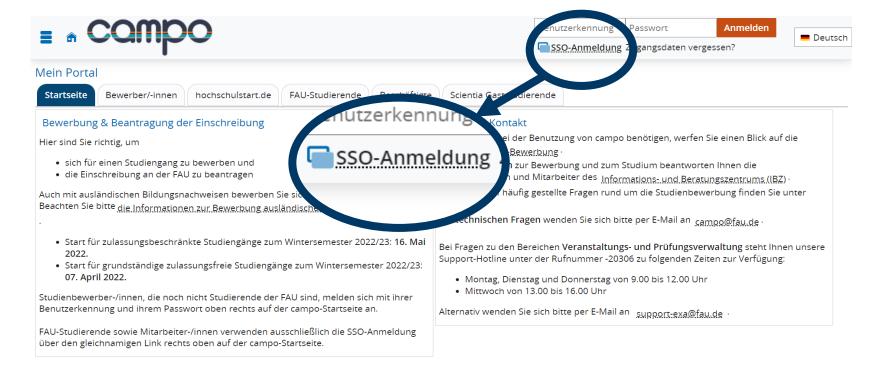
Campo: Manage Your Exams!

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)









Enter your FAU username and password



You forgot your password?

Please follow the link below to start the password recovery process.

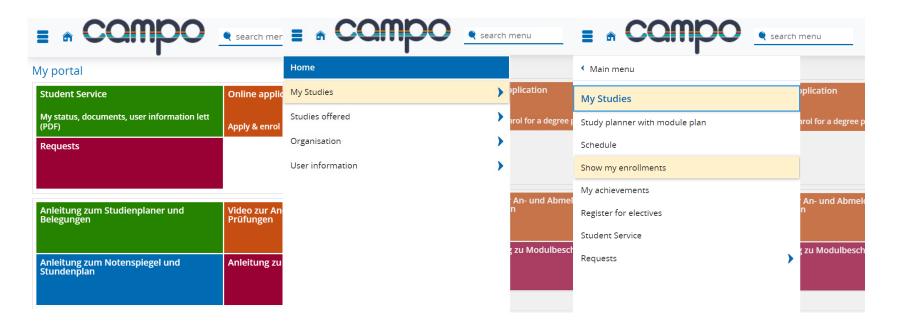
Continue with password recovery

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





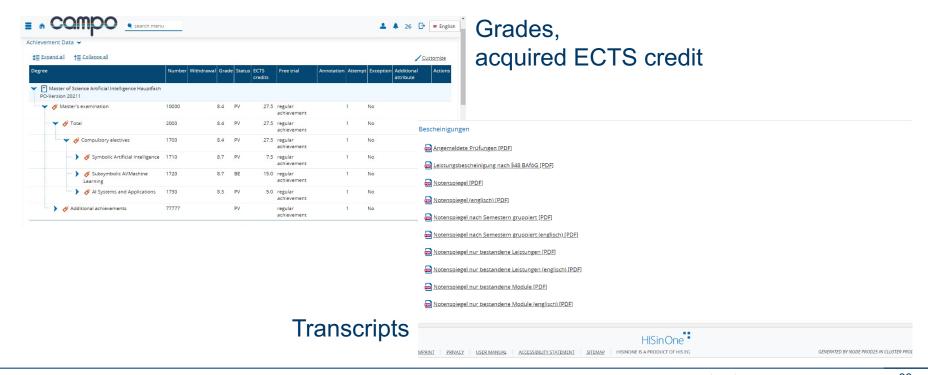
Overview of registered exams and option to withdraw/de-register



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

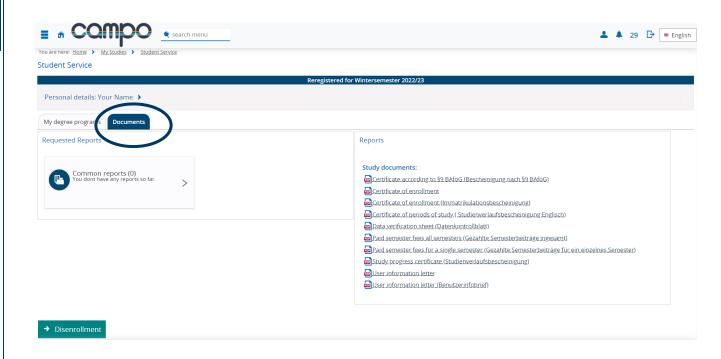


Overview of grades, acquired ECTS credits and Transcripts Hamburger menu → My Studies → My Achievements





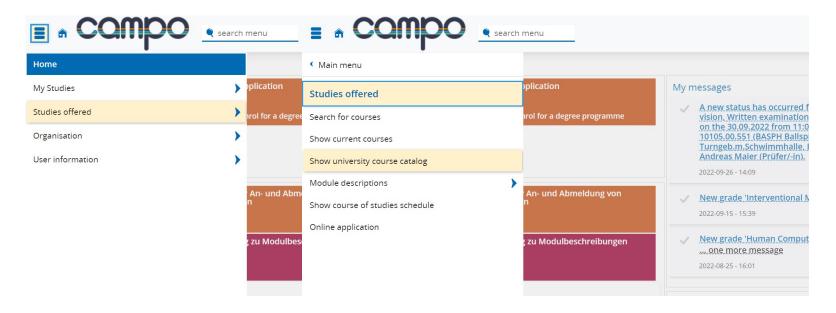
Certificate of enrollment/Immatrikulationsbescheinigung Hamburger menu → My Studies → Student Service





Compile your class schedule Navigate to the Al Programs course catalogue

Hamburger menu \to My Studies \to Study planner with module plan Hamburger menu \to Studies offered \to Show university course catalogue

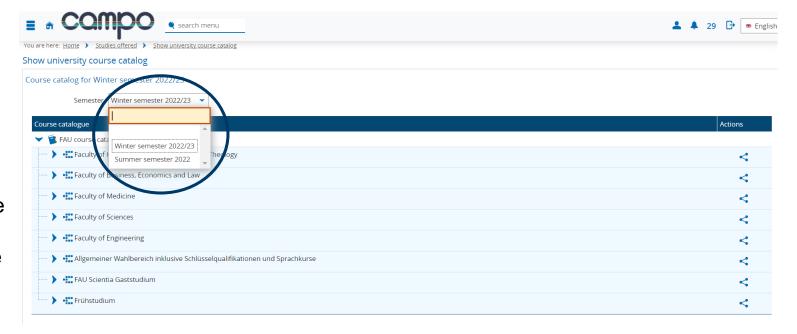




Compile your class schedule

Select the semester

Navigate down to the Artificial Intelligence program





Compile your class schedule

Under the Faculty of Engineering

 \rightarrow

Artificial Intelligence

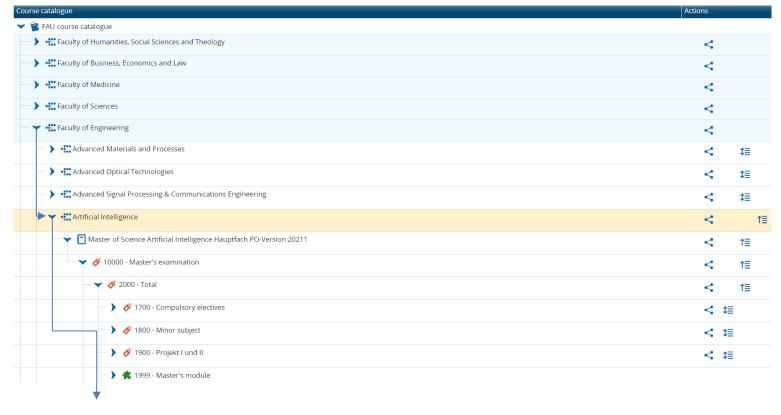
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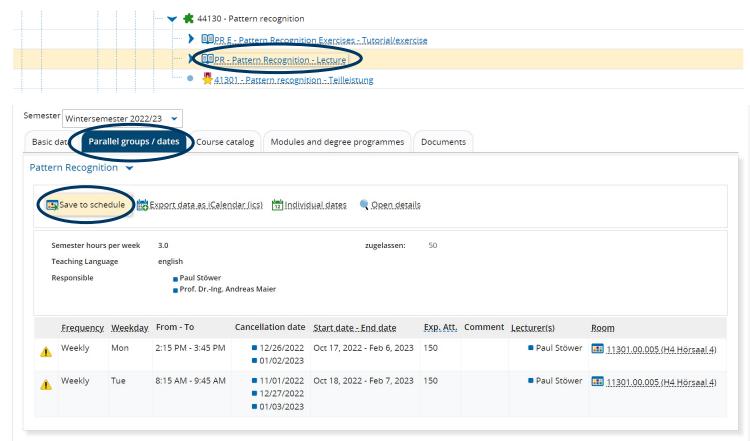




Click on the course lecture/exercise

Click on parallel groups / dates

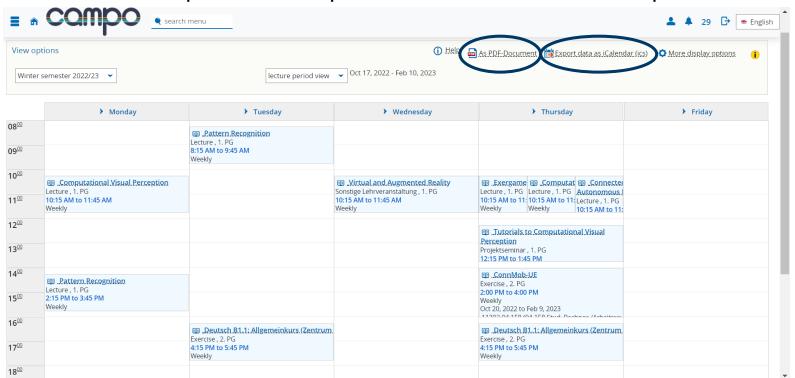
Click on save to schedule





Hamburger menu → My Studies → Schedule

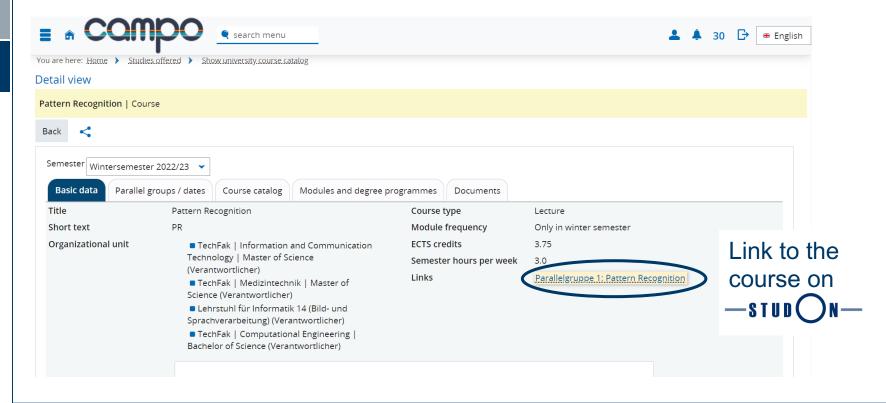
Select the view options to the planned semester and lecture period view



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



Register for courses





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





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.)



What's next?

- Re-register for SS 2023
 - → bank transfer details via e-mail (t.b.a.)
- **Study & pass exams** → study groups, time management, practice with old exams from

- 6. Actively report on your conditional subjects
 - → Examinations Office (Mrs. Barthelmann)
- Get your semester ticket: https://shop.vgn.de/index.php/product/518/show



Q&A

It's time for your questions!!!



