INTERNATIONAL COURSE CATALOGUE

Winter Semester 2017/2018

Degree programmes, seminars and lectures taught in English and other foreign languages
Dear student, dear researcher, dear guest,

The International Course Catalogue, put together by RUBiss – RUB international student services of the International Office, gives an overview of RUB’s classes, which are taught in foreign languages. It is aimed at international students wanting to organise their semester programme, prospective students planning on studying in Bochum, or partners and guests wishing to gain a general idea of RUB’s international courses and degree programmes.

The ICC provides the following information:

1. **General information** on studying and researching internationally at RUB: RUB’s international profile, a list of international (English) Master and PhD programmes as well as double and joint degree courses, exchange programmes, RUBiss – RUB international student services, Welcome Centre for internationally mobile researchers, application and admission, contact addresses.

2. A compilation of **seminars and lectures (Bachelor, Master and PhD) held in English or other foreign languages:**
   Many of RUB’s departments offer seminars and lectures in English or other foreign languages. These are NOT usually part of an international degree programme.
   The course description provides information about the content of the classes and prerequisites for admission, as well as credit points and contact persons. It also states which courses can be accredited to the “Optionalbereich”, and which ones are especially suitable for exchange students. All courses listed in this catalogue are open to exchange students and students of related subjects.

NEW: From the beginning of the Wintersemester 2017/18, the International Course Catalogue is available online: [https://vvz.ruhr-uni-bochum.de/](https://vvz.ruhr-uni-bochum.de/).

We hope that you will find the International Course Catalogue a helpful guide for your semester programme, and wish you every success in the new semester!

Your RUBiss – RUB international student services team
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The Ruhr-Universität Bochum

Located in the midst of the dynamic, hospitable metropolitan area of the Ruhr, in the heart of Europe, Ruhr-Universität Bochum (RUB) with its 20 faculties is home to 5,600 employees and over 43,000 students from 130 countries. All the great scientific disciplines are united on one compact campus. RUB offers approximately 150 bachelor’s and master’s degree programmes in various combinations.

Opened in 1965 as the first new university to be established in Germany following the Second World War and also the first university in the Ruhr area, RUB is now one of Germany’s biggest universities and on its way to become one of the leading European universities of the 21st Century.

The university’s greatest strength is its interdisciplinary cooperation. Interfaculty and interdisciplinary Research Departments, which are nationally and internationally networked, sharpen RUB’s profile.

What makes it all come alive, are the people who meet on campus with their thirst for knowledge, their curiosity and their commitment. They help shape the RUB and their open-mindedness makes RUB an attractive place for people from around the world: More than 5,500 international students, approx. 830 international PhD students and international researchers are studying and working at RUB. About 500 international exchange students spend time at RUB each year and just as many RUB students complete parts of their degree abroad.

Research at RUB is internationally linked and geared towards internationalisation: RUB has signed collaboration agreements with numerous prestigious partner universities and these collaborations are put into practice by way of the active exchange programmes and various projects, which are taking place for students and researchers. RUB is a member of the Utrecht Network and further international university networks in the areas of research and teaching. It has about 350 partner universities in the ERASMUS Programme. It is also running liaison offices in New York, Moscow and São Paulo/Rio de Janeiro with its neighbouring universities Dortmund and Duisburg-Essen as part of the University Alliance Ruhr (UA Ruhr).

International students, PhD students and international researchers can benefit from a number of extraordinary services:

- RUBiss – RUB international student services provides extensive information, support and advice for all international students.
- Incoming and outgoing exchange students are offered a wide range of exchange programmes with partner universities worldwide, as well as special services at RUB.
- Research School is the university-wide graduate school of RUB supporting all doctoral researchers on campus by training of personal and interdisciplinary skills, career guidance, personal counselling and with research-related training offered by the faculties.
- Internationally mobile researchers are welcomed and supported in RUB’s Welcome Centre.
SERVICE FOR INTERNATIONAL MEMBERS

RUBiSS – INTERNATIONAL STUDENT SERVICES

In order to be able to study successfully, it is important that you feel comfortable, both at university and in daily life. Only then, you will be able to focus on your studies. As part of the International Office, RUBiSS is your contact for important issues, which go beyond your academic studies, such as advice and support in social, cultural and university-related affairs, as well as support with administrative tasks and legal affairs concerning foreign nationals.

RUBiSS offers:

- Support and advice on various matters
- Orientation and welcome events
- Events and excursions
- Various offers for prospective students with refugee background

We assist you in arranging your legal affairs with the foreign citizens’ office, the city of Bochum and various other officials. We will also advice you on general questions concerning your studies and living in Bochum and Germany.

Events are organised both at the beginning and during the semester. On various excursions, you will have the opportunity to become acquainted with your new surroundings, settle in and meet fellow students.

At the start of every semester, RUBiss organises orientation events for international students: Orientation Days take place in the weeks before lectures start and are open to all new international students. Participation is free of charge.

Every semester, members of staff from the International Office, accompanied by the Rectorate, welcome the new international students to RUB at the International Welcome. RUBiss as well as various university institutions introduce themselves and present their offers for international students.

The RUBiss team publishes a semester programme every semester. In it, you will find a range of different events, workshops and excursions. You can also register for our newsletter to stay informed on current events.

Semester programme: www.international.rub.de/rubiss/freizeit/programm.html.en

Newsletter: international.rub.de/rubiss/start/newsletter.html.en

RUBiSS, International Office
Email: RUBiss@rub.de
Internet: www.international.rub.de/rubiss
Facebook group: RUBiss – RUB international student services
EXCHANGE PROGRAMMES

RUB offers a variety of opportunities for student exchange. An exchange programme is certainly the easiest, safest and cheapest of all possibilities to go abroad. The most commonly known exchange programme is the EU’s ERASMUS. Ruhr-Universität Bochum has some 300 partner universities all over Europe. Students can spend 3 - 12 months abroad in one of the 28 EU member states, Iceland, Norway, Macedonia (FYROM), Liechtenstein and Turkey and they will be supported financially by the ERASMUS Mobility Grant.

In addition to the ERASMUS universities involved in the exchange programme, RUB closely cooperates with the following universities:

- Universidade Federal de Minas Gerais, Belo Horizonte, Brazil
- Universidade de Brasília, Brazil
- Universidade Federal do ABC, São Paulo, Brazil
- Universidade Federal do Rio Grande do Sul, Porto Alegre, Brazil
- Universidade Federal do Rio Grande do Norte, Natal, Brazil
- Universidade Federal Fluminense (UFF), Niterói, Brazil
- Universidade Federal de Juiz de Fora (UFJF), Juiz de Fora, Brazil
- Universidad Tecnológica Nacional, Argentina
- Universidad de Monterrey, Mexico
- Universidad Autónoma de Nuevo León, Monterrey, Mexico
- Universidad Autónoma Metropolitana, Mexico City, Mexico
- Benemérita Universidad Autónoma de Puebla, Mexico
- Universidad Católica del Norte, Antofagasta/Coquimbo, Chile
- Universidad de La Serena, Región de Coquimbo, Chile
- Universidad Santo Tomás, Colombia
- National Taiwan University, Taipei, Taiwan
- EWHA Woman’s University, Seoul, Korea
- Soongsil University, Seoul, Korea
- Sogang University, Seoul, Korea
- Sungkyunkwan University, Seoul
- Kyungpook National University, Daegu, Korea
- Duksung Women’s University, Seoul, Korea
- Osaka University, Japan
- University of Tsukuba, Japan

The following universities offer RUB students a monthly scholarship in addition to the reimbursement of tuition fees:

- Université François Rabelais in Tours, France
- Universidad de Oviedo, Spain
- Belarusian State University Minsk, Belarus
- Tongji University in Shanghai, China

Students at all of these universities may study at RUB for one or two semesters without having to pay any tuition fees.

RUB is also a member of the Utrecht Network. Within this network, 32 European universities are working together on topics of internationalisation and exchange. The Utrecht Network has strong links with the MAUI (Mid-America Universities International) Network and AEN (Australian-European Network). The following universities are members of these networks:
Student exchanges take place on a regular basis through the MAUI Utrecht Network Exchange Programme and the AEN Utrecht Network Exchange Programme. Students from all areas of study may participate (only students from the Faculty of Medicine are excluded from the MAUI and AEN Utrecht Network exchange programmes). All tuition fees at the host institution will be reimbursed.

Furthermore, many faculties run their own exchange programmes:

**Faculty of Historical Science:**
- Kyushu University, Japan

**English/American Studies:**
- Central Michigan University, USA

**Slavonic Studies:**
- Institute of European Cultures, Moscow, Russia
- Moscow State University of Railway Engineering, Russia
- Vologda State Pedagogical University, Russia
- Vologda State Technical University, Russia
- Belarusian State University Minsk, Belarus
- Simferopol State University, Ukraine

**Faculty of Economics:**
- Tongji University in Shanghai, China
- Peking University HSBC Business School (PHBS), Shenzhen, China  
- Nihon University in Tokyo, Japan  
- Wollongong Universität, Australien

Faculty of Social Science:  
- El Colegio de la Frontera Norte, Mexico

Faculty of East Asian Studies:  
- Nihon University in Tokyo, Japan  
- Fukushima University in Fukushima, Japan  
- Keio University in Tokyo, Japan  
- Okayama University in Okayama, Japan  
- Mie University in Tsu, Japan  
- Kwansei Gakuin University in Nishinomiya, Japan  
- Kyushu University, Japan  
- Niigata University, Japan

Faculty of Civil and Environmental Engineering:  
- Toyohashi University of Technology in Toyohashi, Japan

Faculty of Mechanical Engineering:  
- Toyohashi University of Technology in Toyohashi, Japan  
- Tongji University in Shanghai, China  
- Drexel University in Philadelphia, USA  
- Virginia Tech in Blacksburg, USA

Faculty of Electrical Engineering and Information Technology:  
- Purdue University in West Lafeyette, Indiana, USA  
- Drexel University in Philadelphia, USA

Faculty of Geosciences:  
- Universidad Nacional de San Juan, Argentina

Faculty of Medicine:  
- Gunma University, Japan  
- University of Toyama, Japan

Students from those universities listed above, who are interested in spending one or two semesters at RUB, should contact the International Office or their faculty at their home university to check exchange possibilities. After being nominated for an exchange programme, you are welcome to contact RUB’s Incoming Exchange Student Services.

RUB students wanting to spend part of their studies abroad are welcome to contact the Outgoing Exchange Student Services located at the International Office.
Incoming Exchange Student Services
International Office
Ruhr-Universität Bochum
Email: rubiss@rub.de
Internet: www.international.rub.de/gaststudis

Outgoing Exchange Student Services
International Office
Ruhr-Universität Bochum
Email: international@rub.de
Internet: www.international.rub.de/ausland
RUB RESEARCH SCHOOL: MORE THAN RESEARCH

Research School supports doctoral researchers and early postdocs during their research careers at RUB.

RUB Research School and its 20 faculties promote top-level postgraduate education in an international and interdisciplinary research environment and support the individual research interests of doctoral researchers. All enrolled doctoral researchers - from natural sciences and engineering to the life sciences and the humanities and social sciences - are members of the Research School. Early postdocs are also most welcome to participate in our programme.

Research School makes visible the research-related training offered by the faculties and research areas of RUB. Dedicated counselling offers, training of personal skills (e.g. scientific communication, proposal writing, leadership skills) and various inter- and transdisciplinary events such as Science College, Research Day support young researchers during their doctorate. In addition, we offer career guidance for a career in- and outside academia preparing doctoral researchers and early postdocs for their next career steps. If you have questions concerning planning or starting your doctorate at RUB you are most welcome to contact us.

Doctoral researchers who wish to internationalize their research project and broaden their scientific network around the world can be financially supported by Research School PLUS until the end of 2017.

On our website, doctoral researchers and postdocs get all information about our programme and offers. You are always most welcome to contact us any time during our office hours and come with your questions about starting or doing a Dr. or a Ph.D. at RUB.

We are looking forward to seeing you soon!

Central Coordination Office
RUB Research School
Ruhr-Universität Bochum
Internet: http://www.research-school.rub.de
WELCOME CENTRE FOR INTERNATIONAL RESEARCHERS

The Welcome Centre is the place to go for international researchers and their families who seek advice and support regarding their research stay at Ruhr-Universität Bochum. We offer information and services on topics such as residence formalities, health insurance or family issues, as well as helpful hints for a smooth social integration and everyday life in Germany. Welcome Centre also provides advice to hosts and faculties at RUB.

Services

- Guide for international researchers
- Webpage with information and forms in English and German language
- Support in dealing with formalities and authorities
- Guest apartments for international researchers and their families
- Information on other relevant issues connected to your stay
- International Lounge

Welcome Centre Events

The Welcome Centre invites international researchers and their families to various events such as excursions throughout the region, receptions of the rectorate on a regular basis, intercultural trainings, information events and many more.

International Lounge

Ruhr-Universität Bochum has a modern, comfortable lounge for international researchers, their families and hosts. At the lounge they have the possibility to get together to talk and work or simply to have a coffee and read an international journal. During opening hours there is always someone present at the Lounge to answer any general questions you may have.

EURAXESS

The Welcome Centre in Bochum is registered as a EURAXESS Service Centre – EURAXESS is an EU wide network providing information and advice for internationally mobile researchers.

Welcome Centre, International Office
Ruhr-Universität Bochum
International Lounge, „Mensa“ building
Email: welcome-centre@rub.de
Internet: www.rub.de/welcome-centre

International Lounge for visiting researchers:
Mensa building, main entrance, Bistro level
STUDYING AT RUB

DEGREE PROGRAMMES TAUGHT IN ENGLISH

Numerous degree programmes at RUB are taught in English, many of them specialising in contemporary research topics and/or offering double and joint degrees with distinguished universities:

Lasers and Photonics
Faculty of Electrical Engineering and Information Technology
Degree: Master of Science (single degree)
Application deadline: 15 July (winter semester) and 15 January (summer semester)
Prerequisites: above-average Bachelor’s degree (at least 6 semesters) in Electrical Engineering, Mechanical Engineering, Physics, Chemistry or similar; very good English language skills. See programme website for further details.
Fees: RUB’s social fee 311,88 € (per semester)
Contact: Biljana Cubaleska. Phone: +49 (0)234 32-29474, email: studienberatung@ei.rub.de
More information: www.ei.rub.de/studium/lap

Master of Arts in Development Management
Institute of Development Research and Development Policy
Degree: Master of Arts (single degree)
Application deadline: Next intake: October 2016. Application Deadlines will be published on the programme website.
Prerequisites: above-average BA or relevant degree in Political Science, Social Science, Law, Economics, Geography or any other subjects related to the planning and evaluation of development programmes and projects; practical experience in a relevant field; very good English language skills. See programme website for further details.
Fees: RUB’s social fee 311,88 € (per semester)
Special feature: DAAD scholarships available; twin programme in Cape Town, S.A.
Contact: Dr. Tobias Thürer, Phone: +49 (0)234 / 32-22448, email: ieemdm@rub.de

PhD in International Development Studies (IDS)
Institute of Development Research and Development Policy
Degree: PhD in International Development Studies
Application deadline: 30. April of a year. Application Deadlines will be published on the programme website.
Prerequisites: Qualified university degree (Master or an equivalent to the German Diploma or Staatsexamen) with an overall grade equivalent to 2.7 (fully satisfactory) in the German grading system after completion of relevant studies with a duration of at least 4 years. Qualified degree with an overall grade equivalent to 1.7 (fully good) in the German grading system after completion of relevant studies with a duration of at least three years plus preparatory studies for the PhD of usually three semesters. For international degrees the equivalence will be judged during the application process. Candidates who have to follow preparatory studies before admission to the
PhD in International Development Studies can be accepted for such preparatory studies at the Ruhr-University Bochum; very good English language skills. See programme website for further details: www.development-research.org/index.php/study-programmes/phd-ids

**Fees:** RUB’s social fee 311,88 € (per semester)

**Capacity:** Up to 10 PhD students per year.

**Duration:** 3 years

**Contact:** Dr. Martina Shakya, Phone: +49 (0)234 / 32-25149 email: ieephd@rub.de

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**Materials Science and Simulation**

Interdisciplinary Centre for Advanced Materials Simulation (ICAMS)

**Degree:** Master of Science (single degree)

**Application deadline:** see www.icams.de/content/masters-course-mss/application-and-admission

**Prerequisites:** Bachelor’s degree (B. Sc.) or comparable degree in one of the following or related disciplines: Materials Science, Mechanical Engineering, Physics, Civil and Environmental Engineering, Electrical Engineering, Chemical Engineering, Power Engineering, Chemistry, Nanotechnology, Mathematics, Computer Sciences or Astronomy; very good English language skills. See programme website for further details.

**Fees:** RUB’s social fee 311,88 € (per semester)

**Contact:** Prof. Dr. rer. nat Alexander Hartmaier. Phone: +49 (0)234/32-29314, Email: mss@icams.rub.de / More information: www.icams.de/mss

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**Master of Science in Biochemistry**

Faculty of Chemistry and Biochemistry

**Degree:** Master of Science (single degree)

**Application deadline:** 15 July

**Prerequisites:** above-average German or equivalent Bachelor of Science in Biochemistry or a related field; very good English language skills. See programme website for further details.

**Fees:** RUB’s social fee 311,88 € (per semester)

**Contact:** Prof. Dr. Irmgard D. Dietzel-Meyer. Phone: +49 (0)234 / 32-25803, email: bc-schwerpunkte@rub.de

**More information:** www.chemie.rub.de/studium/master/biochemie

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**Molecular Sciences (iMOS)**

Faculty of Chemistry and Biochemistry

**Degree:** Master of Science (single degree)

**Application deadline:** 15 July. The course starts in winter semester (October) each year.

**Prerequisites** A B.Sc. Degree or international equivalent with an average mark better than 1.9 in Chemistry, Physics, Biochemistry, Engineering or a related interdisciplinary subject; very good English language skills. See programme website for further details.

**Fees:** RUB’s social fee 311,88 € (per semester)

**Contact:** Dr. Gerhard Schwaab. Phone: +49 (0)234 / 32-24256, email: imos@rub.de

**More information:** www.rub.de/imos
Master of Science in Chemistry
Faculty of Chemistry and Biochemistry
**Degree:** Master of Science (single degree)
**Application deadline:** 15 July
**Prerequisites:** above-average German or equivalent Bachelor of Science in Chemistry or a related field; very good English language skills. See programme website for further details.
**Fees:** RUB’s social fee 311,88 € (per semester)
**Contact:** Gundula Talbot: +49 (0)234 / 32-26908, email: gundula.talbot@rub.de.
**More information:** [www.chemie.ruhr-uni-bochum.de/studium/master/chemie](http://www.chemie.ruhr-uni-bochum.de/studium/master/chemie)

Computational Engineering
Faculty of Civil and Environmental Engineering
**Degree:** Master of Science (single degree)
**Application deadline:** international students 1 May, national students 15 September
**Prerequisites:** above-average Bachelor’s (or comparable) degree in Civil Engineering, Mechanical Engineering or a related engineering field. Students who only have a Bachelor’s degree in Computer Science cannot be accepted. Very good English language skills, see programme website for further details.
**Fees:** RUB’s social fee 311,88 € (per semester)
**Special feature:** twin programme at the Vietnamese-German University in Ho Chi Minh City
**Contact:** Dipl.-Ing. Jörg Sahlmen. Phone: +49 (0)234 / 32-22103, email: comp-eng@rub.de
**More information:** [compeng.rub.de](http://compeng.rub.de)

Geosciences – Resources and Energy
Faculty of Geosciences
**Degree:** Master of Science (single degree)
**Application deadline:** 15 July
**Prerequisites:** B.Sc. in Geosciences or related natural sciences, very good English language skills (see programme website for further details) and sufficient physical fitness to perform fieldwork
**Fees:** RUB’s social fee 311,88 € (per semester)
**Special feature:** prepares students for subsequent employment in the industry (mainly hydrocarbon industry)
**Contact:** Prof. Dr. Adrian Immenhauser. Phone: +49 (0)234 / 32-28250, email: adrian.immenhauser@rub.de
**More information:** [www.gmg.rub.de/studium/studgang](http://www.gmg.rub.de/studium/studgang)

Molecular and Developmental Stem Cell Biology
Faculty of Medicine
**Degree:** Master of Science (double degree)
**Application deadline:** 15 July (winter semester)
**Prerequisites:** Top Bachelor's degree in the Life Sciences (e.g. B.Sc. in Biology, Microbiology, Biomedicine, Molecular Biology) or a state examination/Master's in a medical subject; proof of
good basic mathematical skills, very good English language skills. See programme website for further details: www.rub.de/istem

Fees: RUB’s social fee € 311.88 (per semester)
Contact: Prof. Dr. Brand-Saberi. Phone: +49 (0)234 32-24556, email: iSTEM@rub.de

Master of Science in Economics
Faculty of Management and Economics
Degree: Master of Science (single degree)
Application deadline: 15 July (winter semester), 15 January (summer semester)
Prerequisites: A Bachelor’s degree in economics or a related discipline (business, statistics, mathematics, political science, international relations, etc.) with a duration of at least six semesters (180 ECTS credit points). As the program is taught entirely in English, applicants need to have very good English language skills. For further details on admission requirements please visit the programme website or contact the programme coordinator.
Fees: RUB’s social fee 311.88 € (per semester)
Contact: Dipl.-Ok. Michèle Lorraine Teufel, tel.: 0234 32-22687 email : econmaster@rub.de
More information: www.rub.de/econmaster/
Course catalogue: www.rub.de/econmaster/download.html

Master of Cognitive Science
Faculty of Psychology
Degree: Master of Science (single degree)
Application deadline: 15 July
Prerequisites: excellent Bachelor’s degree in philosophy, psychology, neuroscience, mathematics, biology, computer science or linguistics and similar subjects, extremely high motivation to study; very good English language skills. See programme website for further details.
Fees: RUB’s social fee 311.88 € (per semester)
Contact: Dr. Andreas Utsch, Tel.: 0234 / 32-27895, email: andreas.utsch@rub.de.
More information: studienangebot.rub.de/en/cognitive-science/master-1-subject

Criminal Justice, Governance and Police Science
Faculty of Law
Degree: Master of Criminal Justice, Governance and Police Science (M.A.)
Application deadline: 15 July
Prerequisites: a successful completion of a university/college degree (BA, BSc and MA, MSc or equivalent) degree in the program relevant subject areas (240 CPs*); at least one year of relevant practical experience after graduation; an excellent knowledge of the English language.
Fees: For Information on tuition fees, please contact tuitionfees@macrimgov.eu
Contact: Dr. Katrin List: Phone: +49 (0)234 32-25249, email: administration@macrimgov.eu, Skype: MACRIMGOV
Type: completely online/ part-time (studying while working)
More information: vmrz0183.vm.ruhr-uni-bochum.de/macrimgov/index.php
Ethics – Economics, Law and Politics

Jointly offered by the Faculties of Philosophy, Law, Economics and Social Science

**Degree:** Master of Science (single degree)

**Application deadline:** 15 July

**Prerequisites:** an interdisciplinary frame of mind, first graduation (BA) in Philosophy, Political Science, Law, or Economics; very good English language skills. See programme website for further details.

**Fees:** RUB’s social fee 311.88 € (per semester)

**Contact:** Dr. Simone Heinemann: Tel.: 0234 / 32-24733, email: Simone.Heinemann@rub.de

**More information:** studienangebot.rub.de/en/ethics-economics-law-and-politics/master-1-subject

Joint European Master’s Programme in International Humanitarian Action (NOHA)

Institute of International Law of Peace and Armed Conflict

**Degree:** Master of Arts (joint degree)

**Application deadline:** 15 March

**Prerequisites:** Master's degree (or equivalent) in International Relations, History, Law, Medicine, Psychology, Sociology, Anthropology, Economics, Management, Geography, Spatial Sciences or related fields

**Fees:** participation costs €12,600 for non-European students; €8,400 for European students (one-off payment), RUB’s social fee 311,88 € (per semester)

**Special feature:** Erasmus Mundus Programme

**Contact:** Prof. Dr. Hans-Joachim Heintze email: Hans-Joachim.Heintze@rub.de

**More information:** www.rub.de/ifhv

Double Master’s degree in Transformation of Urban Landscapes (TUL)

Faculty of Geosciences, Department of Geography

**Degree:** Master of Science in Transformation in Urban Landscapes (RUB) and Master of Engineering in Landscape Studies (Tongji University)

**Application deadline:** 15 July (winter semester)

**Prerequisites:** Bachelor of Science degree in Geography, Spatial Planning (‘Raumplanung’) or familiar equivalent study programmes from Germany or other countries. Thorough knowledge of English.

**Fees:** RUB’s social fee € 311,88 (per semester)

**Contact:** Prof. Dr. Harald Zepp. +49 234 32-23313, email: gi-research@rub.de

**More information:** www.geographie.rub.de/transformation-urbaner-landschaften

European Master’s Programme in Human Rights and Democratisation

Institute of International Law of Peace and Armed Conflict

**Degree:** Master of Arts (joint degree)

**Next intake:** First Round Deadline: 15 January, Second Round Deadline: 15 March.

**Prerequisites:** university degree of a high standard in a field relevant to human rights, including disciplines of Law, Social Sciences and the Humanities and a minimum of 180 ECTS credits (Bachelor’s/general degree)
Fees: tuition fees €4900 (one-off payment), enrolment fee €150, application processing fee €50, RUB’s social fee € 311,88 (per semester)
Special feature: first semester taught in Venice
Contact: Name Prof. Dr. Hans-Joachim Heintze, Email: Hans-Joachim.Heintze@rub.de
More information: www.emahumanrights.org

DOUBLE AND JOINT DEGREES

Several double and joint degree programmes provide the opportunity to profit from additional lectures offered by reputable partner institutions, to obtain the degree of a partner university alongside the RUB-degree without prolongation of the duration of your studies and to strengthen your intercultural competencies.
For a list of all double / joint degree programmes including recent changes please check www.international.rub.de/profil/lehre/doppelabschluss.html.en.

Double Master’s Degree Germanistik with Universiteit van Amsterdam
Intercultural Master programme taught in German, starting in August. Strong focus on practical application. Students spend the first two semesters in Amsterdam and the third and fourth semester in Bochum.

Contact:
Name: Prof. Bernd Bastert
Email: bernd.bastert@rub.de
www.germanistik.rub.de/ambo/
Name: Daniel Händel
Email: daniel.haendel@rub.de

Double Master’s Degree Option: “Comparative Literature” with Università di Bergamo
Students spend the first semester in Bochum, the second and the third semester in Bergamo and the last (fourth) semester again in Bochum. Upon successful completion of the studies, they will be awarded a Master's degree of both RUB and Università di Bergamo.

Contact:
Name: Dr. Peter Goßens
Email: peter.gossens@rub.de

Double Master’s Degree Development Management with University of the Western Cape, Capetown
International Master programme taught in English. Well performing and committed students who register for the MA in Development Management of Ruhr University Bochum have the possibility to obtain a second degree of our partner, the University of the Western Cape (UWC), South Africa, by submitting a second Master’s thesis and successfully completing additional coursework. (For details, see programme website.)

Contact:
Name: Dr. Gabriele Baecker
Email: gabriele.baecker@rub.de
www.development-research.org/index.php/study-programmes/madm
Name: Dr. Tobias Tührer
Email: iemdm@rub.de
Double Master’s Degree in Gender Studies with the University of Graz
A double degree "Master of Arts" is awarded, a full academic degree in both participating countries. The degree course focuses on an international, mainly European, perspective on Gender Studies.

Contact:
Name: Maximiliane Brand
Email: GenderStudies@rub.de

Double Master’s Degree "Russian Culture" with RGGU in Moscow
Students of (Russian) Culture at the RGGU and at RUB obtain a Master degree of the RUB and of the RGGU after successfully completing their studies.

Contact:
Name: Dr. Klaus Waschik
Email: Klaus.waschik@rub.de

Joint European Master’s Programme in International Humanitarian Action (NOHA)
See page 16 for further Information.

Double Master’s Degree in Management and/or Economics with UEA, Norwich
10 double degree places are offered for students of the Master of Economics or Master of Management and Economics. The second and third semester are spent in Norwich.

Contact:
Name: Prof. Dr. Michael Roos
Name: Christina Seeger
Email: Michael.Roos@rub.de
Email: Christina.Seeger@rub.de
www.wiwi.rub.de/international/doubleprogrammes/uea_double.html.en

Double Master’s degree in Transformation of Urban Landscapes (TUL)
See page 16 for further Information.

Double Master’s Degree for students of "Financial Services" at the CDHK at Tongji-University, Shanghai, with the Faculty of Economics
Students of the CDHK can continue their studies at RUB from the 4th semester onwards.

Contact:
Name: Prof. Dr. Bernhard Pellens
Email: pellens@iur.rub.de

Double Master’s Degree of the Faculty of Mechanical Engineering with the CDHK at Tongji University, Shanghai
A double degree in production techniques can be obtained by German and Chinese students (studying at both locations).

Contact:
Name: Prof. Dr.-Ing. Michael Abramovici
Email: Michael.Abramovici@itm.ruhr-uni-bochum.de
Double Bachelor’s Degree in History with Université François Rabelais Tours

The students study at their home university for two semesters, then change to the partner university for semesters 3 and 4. The 5th semester is spent in Tours by all students, the 6th in Bochum. Language of instruction in Tours is French.

Contact:
Name: Prof. Dr. Gerhard Lubich
Email: Gerhard.lubich@rub.de

Dr. Jens Lieven
Email: jens.lieven@ruhr-uni-bochum.de

Double Master’s Degree in History with Université François Rabelais Tours

Research oriented double degree programme. Students spend their first semester in Tours and their second semester in Bochum jointly as one cohort. They continue their studies in the third semester at the partner university (RUB students in Tours and vice versa) and the fourth semester at their home university. Language of instruction in Tours is French.

Contact:
Name: Prof. Dr. Gerhard Lubich
Email: Gerhard.lubich@rub.de

More information: www.rub.de/isg/informationen

Double Bachelor’s / Master’s Degree in National and European Law with Université François Rabelais Tours

Both double Bachelor’s and double Master’s degree. Students spend two semesters together in Bochum and two in Tours.

Contact:
Name: Prof. Dr. Adelheid Puttler
Email: dfbs-info@rub.de

Double Master’s Degree option in Philology (French Department) with Université François Rabelais Tours

Students of both partner universities can spend the last year of their studies at the partner institution. Students will be awarded a Master’s degree of both RUB and Université Tours. Language of instruction in Tours is French.

Contact:
Name: Jü Dr. Judith Kittler judith.kittler@rub.de

Double Master’s Degree option in Philology (Spanish Department) with Universidad de Oviedo

Students of both partner universities can spend the last year of their studies at the partner institution. Students will be awarded a Master’s degree of both RUB and Universidad de Oviedo.

Contact:
Name: Dr. Judith Kittler judith.kittler@rub.de

European Master’s Programme in Human Rights and Democratisation

See page 16 for further Information.
Joint Master’s Degree Film and Audiovisual Media
Integrated studies in three different European countries, at key media and media studies locations (Goethe-Universität Frankfurt, Université Sorbonne Nouvelle Paris 3, Université de Paris Ouest Nanterre Paris 10, Università degli Studi di Udine, Università Cattolica del Sacro Cuore di Milano, Université de Liège, Birkbeck College London, Universitat Pompeu Fabra de Barcelona, Université Lille 3, Università Roma 3, University of Amsterdam, Université de Montréal). Second and third semesters have to be spent at different partner universities.

Contact:
Name: Prof. Dr. Oliver Fahle
Email: Oliver.Fahle@rub.de
www.rub.de/ifm/studium/master-film-av.html

Double Master’s Degree: RUBSALA - Integrative Sprachdidaktik des Deutschen
RUBSALA is a German and Swedish Double Master programme where you will learn intercultural language teaching of German. The Master is taught in German. Due to this Master the student will study at RUB and at Uppsala University in Sweden.

Contacts:
Name: Prof. Dr. Björn Rothstein
Email: bjor.rothstein@rub.de
staff.germanistik.rub.de/rubsala/startseite/zum-studienaufbau/

Name: Elisa Linseisen
Email: elisa.linseisen@rub.de

Name: Judith Janutta
Email: rubsala@rub.de
LANGUAGE COURSES

ZFA – CENTER FOR FOREIGN LANGUAGE TRAINING

a) Language Courses
The University Language Centre (Zentrum für Fremdsprachenausbildung, ZFA) provides courses aimed at specialist and non-specialist language learners, with a particular focus on the key attributes of developing cultural awareness and intercultural communicative competence in an academic setting. Classes take place during the semester and - in the form of intensive courses - during the semester break. The University Language Centre currently offers classes for 14 different languages: Arabic, Chinese, Dutch, English, French, Italian, Japanese, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish and Turkish.

More Information:
www.zfa.rub.de

More Information: www.rub.de/zfa

b) German as a Foreign Language
In addition to the language courses listed above, there are numerous offers for German as a Foreign Language. In addition to preparatory courses, many courses may be taken during the semester alongside regular studies. These courses are designed for the special needs of international students, PhD students and international researchers.

More information: www.daf.rub.de/index.html.en

c) Certification
In some of the courses for the languages listed above, there is the possibility to achieve special certificates:
TestDaF (Deutsch als Fremdsprache – German as a Foreign Language); UNIcert® (Arabic, English, French, Italian, Japanese, Norwegian, Polish, Russian, Swedish, Spanish, Turkish); DELE (Spanish); CNaVT (Dutch); Swedex and Tisus (Swedish); DELF/DALF (French); IELTS (English) and DAAD-language certificate.

d) Individual Learning
The University Language Centre also provides various opportunities for individual learning and offers support, guidance and individual assistance:
- Tandem (Two people with different native languages learn with and from each other in a systematic manner)
- Centre for self-organised learning
- Language-learning coaching

More information: hwww.rub.de/zfa/sgl/index

Bochum Institute of Intensive Language Training (LSI – Landesspracheninstitut)
This institute offers intensive language courses for Arabic, Chinese, Japanese and Russian, along with a smaller number of less intensive courses for Korean, Persian, Dari and Turkish.
For more Information, please visit: www.landesspracheninstitut-bochum.de
Content
The “Institut für Deutschlandforschung (IDF)” was founded 1989 as an interdisciplinary work group for Germany and European studies at RUB.
The lecture Germany at a glance – Germany at one glance provides insight into German culture, geography, history and everyday-life in Germany. It is structured as a lecture series with prominent guest speakers dealing with subjects that range from historical approaches on Germany’s past to religious festivities and geographical knowledge.
The lecture series is designed for international students and students with a refugee background and it is taught in German with presentation slides written in English. It is open to Bachelor’s and Master’s degree students.

Contact
The event is held by Dr. Frank Hoffmann
(Phone: 0234 32 - 2 78 63 E-Mail: frank.hoffmann-2@ruhr-uni-bochum.de)

Time and Place
Room: NB 02/99 Day,Time: Thursday, 10 am – 12 pm Begin: 26/10/2017
APPLICATION AND ADMISSION

If you are coming to RUB as an exchange student, you have to apply for an exchange programme at your home university. You will find all of the required information at www.international.rub.de/gaststudis.

If you wish to complete a degree at RUB, you are very welcome to submit your application. Please note, however, that you have to fulfil certain criteria in order to be able to study at RUB:

Your higher education entrance qualification must be recognised as equivalent to the German qualification. Your higher education entrance qualification (Hochschulzugangsberechtigung, HZB) is your school leaving certificate or proof of studies already completed at secondary education level. To qualify for admission to RUB, you must be able to prove that you possess the equivalent of the German Abitur qualification, which is the examination taken at the end of your secondary education.

You will find more information regarding this topic at: www.international.rub.de/bewerbung/zulassung/hzb

Furthermore, you need sufficient German skills for most degree programmes. The international degree programmes listed in the first chapter of this brochure are an exception and these Programmes have individual application procedures. A high standard of German language skills are required for successful completion of a regular course at Ruhr-Universität Bochum. Language skills can be proven by presenting a certificate gained for passing one of the following examinations:

- DSH examination (level 2 or 3)
- ZOP examination or Goethe-Zertifikat C2 of the Goethe-Institut
- German language diploma, level II, of the Goethe-Institut
- TestDaF with the grades 4 x 4 or 16 points
- Degree in German philology.

You will find more information on this subject at www.international.rub.de/bewerbung/zulassung/deutschkenntnisse

Ruhr-Universität Bochum offers an online application system. Application procedure can differ, depending on the country you are coming from and the subject you are planning to study at RUB.

You will find all of the necessary information and the online application tool at www.international.rub.de/bewerbung

Please note the application deadlines at RUB:
Application period, winter semester: 01/06 - 15/07
Application period, summer semester: 01/12 - 15/01

International degree programmes may have their own deadlines and application procedures. For more information, check the chapter “International Master Programmes”
INTERNATIONAL SEMINARS AND LECTURES

The following chapter contains a compilation of seminars and lectures (Bachelor, Master and PhD) held in English.

Please note: These seminars and lectures are NOT necessarily part of an international degree programme.

In the short overview of each course, you will find further information about the requirements and the course descriptions of all offered courses. The name and email-address of the lecturer are attached as well so you will be able to contact him/her to ask if you can join the course or in case you need any special advice.

If you would like to find courses, which are open for refugees, please see our special course catalogue called “University without borders – Course Catalogue for refugees”. This catalogue can be found in the International Office as a hard copy, online: https://vvz.ruhr-uni-bochum.de/, or at the website: www.rub.de/uni-ohne-grenzen/index_en.
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Course description:
This course will cover the interplay between religion and American politics and political culture from the time of the writing of the American constitution through the election of Donald Trump. We will examine such issues as religion and slavery; Mormonism and monogamy; religion and the immigrant vote in the 19th and 20th centuries; anti-Catholicism in the 1960 Presidential election; religion and the Civil Rights debate; and the rise of the Evangelical right as an electoral force. The course will be taught in English. Prior knowledge of religion and politics in the USA is not required, but students should be able to read, present, and have discussions in English.

Requirements:
Für das Modul R4 oder MR07: Abschluss der auf das Christentum bezogenen Veranstaltungen in den Modulen R2 und R3 oder Abschluss von MR03 (PO 2012).

Midrash, Mythology, Isra’iliyyat, and Polemic:
This course will begin by introducing the genres of midrash, retellings and interpretations of the biblical texts within Judaism, and isra’iliyyat, stories attributed to and/or borrowed from Jewish traditions and circulated in Arabic in the Islamic world, as forms of Jewish and Muslim religious writing. The course will then focus on the ways in which these two genres reflect Jewish and Muslim connections with ancient Mesopotamian, Egyptian, Greco-Roman, and Arabian religions. Additionally, the course will address the ways in which Midrash and Isra’iliyyat may be used to examine the relations and threads of influence between late antique and medieval Judaism and Islam in particular, but also with surrounding Christian cultures, in the Middle East, Arabia, Armenia and Ethiopia. We will focus on different versions of the creation story and the fall of Satan/Iblis and the humans, demonology and angelology, and discussions or polemicizing about the nature of God(s), (both one’s own and the gods of other religious communities).
Students will read a combination of secondary literature on the topics covered in class, and sources in their original language. Students taking this class must have a basic reading knowledge of Hebrew OR Arabic, though ability to read both is, obviously, welcome. Students for whom this will be their first experience reading Hebrew (both biblical and post-biblical) or Arabic sources in the original are welcome - we will begin by reading the relevant chapters in the Torah and the Qur’an which form the foundation for creation narratives in later texts – however, students must have a basic knowledge of the grammar and vocabulary of Hebrew or Arabic to read a text with a dictionary. To acquire credit for participation, students must do the weekly readings and participate in discussions. Students wishing the maximum credit may do a research paper (Hausarbeit) or may do a 5-7 page translation, with accompanying linguistic and content-oriented commentary. Course taught in English or Germany, depending on student’s needs. Written work may be in English, German, or another language with permission of the professor. The course is designed for MA students, however, BA students with the requisite language skills and motivation may also enroll.

210034 Buddhism in Gandhara: Religious and Cultural Encounters at the Crossroads of Asia
Seminar Wednesday 16:00-18:00 Uni90a, 0/013 Start 11.10. Pons, Jessie

Course description:
Gandhāra is a historical region which covers present-day Northwest Pakistan and Eastern Afghanistan and was a pivot between South and Central Asia. First mentioned in historical sources as a satrapy of the Achaemenid Empire, Gandhāra was, between the 4th century BCE and the 4th century CE, conquered by Alexander the Great and successively ruled by Greek, Scythian, Parthian and Kushan kings. This seminar gives an overview of the history of Buddhism in the region. Introduced in Gandhāra under the rule of the Indian ruler Aśoka Maurya (c. 268-232 BCE), Buddhism remained the prevailing religious faith until the conquest of the Hephtalites in the 6th century CE. Students will track the developments of Buddhism from its introduction until its decline through the analysis of both written documents (e.g. epigraphy, Buddhist narratives) and visual material (e.g. iconography, archaeological data). Particular attention will be given to practices such as the cult of relics or image production and image-worship, to the formation of pilgrimage sites, the diversification of Buddhist schools and the emergence of Mahāyāna movements. Ultimately, by posing the question “what is specifically “Gandhāran” about Buddhism in Gandhāra?”, this seminar will seeks to examine processes by which a religious tradition becomes localised.

Bibliographical reference:

Course description:
This course is an introduction to the textual traditions of Mahāyāna sūtras. In the first centuries of the Common Era (ca. 100 BCE–500 CE), Buddhist communities produced a large number of scriptures presenting the Buddha’s teaching through a set of new terms, ideas, and concepts. Although these texts came to be included within the generic corpus of Mahāyāna sūtras due to the pervasion of some shared ideas, the diversity of the doctrines found in these texts reflects the multiplicity of the Mahāyāna visions of the real as well as of Mahāyāna practices. In this course, we will investigate the heterogeneity of these various traditions through a close reading of the main Mahāyāna sūtras. The aim of this course is to better understand the historical development of this textual production as well as the diversity of Buddhist cultures and communities at the inception of this movement.

Requirements:

Für das Modul R4 oder MR07: Abschluss der auf Zentralasien bezogenen Veranstaltungen in den Modulen R2 und R3 oder Abschluss von MR09 (PO 2012).

Zum erfolgreichen Abschluss der Lehrveranstaltung wird die aktive Teilnahme im Unterricht und die beständige Vorbereitung der Lektüre empfohlen. Es besteht ferner die Möglichkeit, für eine schriftliche Übersetzung je nach Länge des Textes 3-10 CP zu erlangen.
Course description:

Dieser Kurs bietet einen Überblick über die Entwicklungen buddhistischer Traditionen von den Anfängen auf dem indischen Subkontinent während der letzten vier Jahrhunderte vor der Zeitenwende bis zum heutigen Tag. Im Zentrum stehen die Grundlagen buddhistischer Lehre und Praxis und ihre Entwicklung im Zuge der Verbreitung buddhistischer Traditionen über den indischen Subkontinent hinaus nach Zentral-, Ost- und Südasien.

[in German and English]

Learning outcomes

• Gain a solid understanding of the principal Buddhist personalities, concepts, terminology and ideas which have played a role both for monastic and lay communities.
• Identify the central practices of Buddhism notably through the analysis of texts, images and videos.
• Develop the capacity to place the major developments within Buddhism in their historical and geographical contexts and to draw connections between the respective rituals, belief systems and narratives.
• Improve the students’ critical thinking and reading skills through reading assignments.
• Improve the students’ written and oral communication skills through short summaries and analysis of sources (both primary and secondary).

Bibliographical reference:


Enactivism is a view about cognition, according to which all cognition is essentially an activity, i.e. action-involving. It is also closely related to the claims that cognition is essentially embodied and embedded. Proponents of this view typically criticize the dominant representational approach to mental phenomena, calling for a paradigm shift in the cognitive sciences.

The basis of this seminar will be the book *Evolving Enactivism. How Basic Minds meet Content* (MIT Press 2017), written by Daniel D. Hutto (Wollongong) and Erik Myin (Antwerp). We will study this book and discuss it with the authors, at a workshop (December 4-6, 2017) at RUB in which Hutto and Myin will present and discuss their manuscript with us in the form of several talks. In this way, students can engage with state-of-the-art research.

Bibliographical reference:
Lektüre zur Vorbereitung:

The lecture series which is part of the master's program "Ethics - Economics, Law and Politics" may also be attended by students of the master's programs in philosophy and by advanced students in the bachelor's degree course in philosophy. Credit points can be acquired by writing summaries or essays.

The program of the lecture series will be announced at the beginning of October. The lectures will be held in English.

030007 **Introduction into Cognitive Science**

| Lecture | Wednesday | 10:00-12:00 | GA 04/187. | Start 11.10. | Schlicht, Tobias
|---------|-----------|-------------|------------|-------------|--------------------
| 2 SWS   | MA Cognitive Science, NF Mathematik | / 4 CP | Newen, Albert |

**Course description:**

The lecture introduces the interdisciplinary field of cognitive science in combining philosophy, psychology, computational modeling and neurosciences. The lecture has the aim to deliver important basic knowledge from empirical sciences in the framework of theory formation. For philosophy students the credit points are delivered on the basis of a written examination or on the basis of an oral exam. For cognitive science students the credit point can only be acquired on the basis of the written examination and it presupposes in addition some active work in the obligatory additional seminar.

The structure of the lecture:

1. Introduction: History of Cognitive Science
3. Cognitive Neuroscience of Perception
4. Modeling Vision
5. Philosophy of Perception
6. Development of Vision
7. Enacted and Embodied Cognition
Course description:
This course offers an elementary introduction to classical logic from a philosophical perspective. Students will get familiarized with the formal languages of propositional and predicate logic. The meaning of logical connectives ("and", "or", "implies", "not") and quantifiers ("for all", "there is a") will be discussed in terms of their model-theoretic semantics. A formal proof method will be introduced. A part of the course will be devoted to practical exercises. In this way students have the opportunity to internalize and consolidate their theoretical insights.

A precondition for receiving a certificate is 1.) to submit weekly homework regularly and 2.) to pass the written exam at the end of the course. The certificate can be with or without grade (dependent on the amount of work).

Bibliographical reference:
Dirk Van Dalen, Logic and Structure, Springer, 2004
Empirical and Conceptual Approaches to Reasoning
Seminar  Monday  16:00-18:00  GA 04/187.  Start 09.10.  Unterhuber, Matthias
2 SWS /  4 CP

Course description:
The study of reasoning – which is closely related to thinking and problem solving – is an integral part of cognitive science. This seminar focuses on central paradigms in this area, such as the Wason selection task and the conditional inference paradigm. Both, empirical investigations and conceptual approaches to these paradigms, are discussed. This includes philosophical approaches, such as semantics for indicative and counterfactual conditionals, as well as accounts from psychology, such as mental model theory. Furthermore, students with a bachelor or master thesis project with a focus on reasoning (broadly construed) will have the opportunity to present and discuss their projects.

Bibliographical reference:
References:

Further literature references will be given in the first session.

Introduction to Normative Ethics
Seminar  Tuesday  16:00-18:00  GA 03/46  Start 10.10.  Mosayebi, Reza
2 SWS /  EELP  6 CP

Course description:
Normative ethics is one of the oldest fields in philosophy. Prominent figures such as Aristotle, Hume, and Kant have written and developed distinctive positions in this field. Roughly said, normative ethics is a subfield of practical philosophy attempting to answer the questions which motives, actions, rules of actions, character traits or even institutions are required or forbidden, and why. In this introductory course we shall explore and discuss the most prominent traditions, positions, and methods in normative ethics (e.g., virtue ethics, moral sentimentalism, Kantian ethics and consequentialism) as well as the main problems and complexities of normative ethics and its relation to metaethics.
030085 | **Migration and Asylum**
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Seminar | Friday 12:00-14:00 | GABF 04/716 | Start 13.10. | Mieth, Corinna
2 SWS / | EELP | 6 CP

**Course description:**
In this seminar we focus on the interrelation between migration and asylum. Thursday refugees deserve special protection and prioritized access to other countries? Who qualifies as a refugee? What are the differences between political and economic refugees? What do legal documents in international and European law say about refugees and their special rights? Furthermore, we examine the distinction between refugees and migrants in order to check its normative consequences. Are open borders to be defended or is it more convincing to give refugees a special and prioritized legal status?

030095 | **Philosophy of Perception**
---
Seminar | Thursday 10:00-12:00 | GA 04/187. | Start 12.10. | Brössel, Peter
2 SWS / | MA Cognitive Science | 6 CP

**Course description:**
This research seminar discusses current topics in the philosophy of perception and it concentrates on debates at the intersection between Epistemology and Cognitive Science. In this seminar we will discuss foundational articles in the mentioned areas as well as research papers by members of the department and the Emmy Noether Research Group “From Perception to Belief and Back Again”. In addition, students will have the opportunity to present a paper on a topic related to the philosophy of perception and/or epistemology. Requirement for participation is a strong background in analytic epistemology and acquaintance with formal methods (logic, probability theory) in philosophy.

**Certificates:**

Students in Philosophy:

(i) Certificate without grade: oral presentation with handout and power point.

(ii) Certificate with grade: Oral presentation and a 15 page research paper on a topic related to the philosophy of perception and/or epistemology.

Students in Cognitive Science:

Graded certificate: Oral presentation and a 10 page research paper on a topic related to the philosophy of perception and/or epistemology.
Predictive Processing: Perception and Other Applications

Course description:
Predictions are currently all over the place in neuroscience and philosophy. Over the last two decades or so, neuroscientists have developed a theory according to which the brain is a sophisticated hypothesis testing machinery that is constantly involved in predicting sensory information based on hierarchical generative models where the central aim is to minimize the error of these predictions. This approach is commonly referred to as Predictive Processing (PP). While the details vary depending on how exactly PP is spelled out, a central tenet of PP is that it is meant to explain perception, cognition, and action singlehandedly. Whether we study visual perception, attention, memory, or delusions, PP arguably describes the mechanism that implements all of these phenomena. As such, it is a powerful theoretical framework not only for neuroscientists aiming to understand the brain but also for philosophers aiming to understand the mind. Throughout this course we will mainly focus on the version of PP proposed by Jakob Hohwy. We will be reading Hohwy’s “The Predictive Mind” (2013) and discuss about, e.g., what claims PP makes exactly, how it applies to perception, whether and how it may be used to understand other phenomena (e.g. delusions in psychiatry), how we should conceive of the mind according to PP, whether PP is a genuine theory or whether PP describes a concrete mechanism, and how PP squares with other (situated) approaches to cognition.

Rationality and Morality

Course description:
The lecture course is part of the masters program „Ethics – Economics, Law, and Politics“ and will therefore be taught in English. It may also be attended by students of the masters programs in philosophy and by advanced students in the bachelor’s degree course in philosophy. The lecture course begins with an overview of the basic features of rights-based and utilitarian theories of normative ethics. Then I will discuss the questions of what the status of moral norms is and whether, and if so, how moral norms can be rationally justified. I will present and examine different approaches, e.g. the theories of Thomas Hobbes and of David Gauthier, that attempt to reduce moral norms to the rational or prudential considerations of agents. According to such a view, moral norms consist in the mutual restriction of the self-interested actions of agents which is ultimately intended to further their considered self-interest. Finally, I will compare these approaches with those theories that insist on the existence of genuine moral norms (which differ from norms of prudence) and that try to justify them.
Bibliographical reference:
Useful reading:

030099 Responsibility – ethics, organisations, politics
Seminar Wednesday 16:00-18:00 GC 03/46 Start 11.10. Mieth,
2 SWS / EELP Corinna
6 CP Williams,

Course description:
This course will consider key contributions and debates on moral and political responsibility. It will begin by considering contemporary compatibilist approaches to responsible agency, such as those offered by R Jay Wallace, Fischer & Ravizza and Angela Smith. It will then consider key debates about collective action and responsibility, including contributions by Larry May, Christopher Kutz, Christian List and Philip Pettit. A central question will be how these debates relate to the understanding of individual responsibility. Finally, social and political questions about the allocation of responsibilities will be considered, drawing on contributions by David Miller and Iris Marion Young, and asking how individual responsibility relates to participation in collective action, interdependence and globalisation.

Bibliographical reference:
Selected readings
Course description:
In this seminar we will discuss a common variety of motivated and irrational route to belief formation and maintenance commonly known as Self-deception. According to several authors we often deceive ourselves about our own performance and skills. However, the possibility of Self-deception poses serious philosophical problems because it is thought to lead to paradox. We will examine the arguments behind this position and focus on one of the way to avoid the paradoxes, namely, the deflationary view. Afterwards, we will discuss how the deflationary view of Self-deception can be accommodated within the prediction-error minimization (PEM) framework for modelling cognition. As we shall discover, Self-deception may have an important function for adaptive behaviour and it can happen according to four main strategies, each of which can be adequately modelled in the PEM framework.

Bibliographical reference:

Suggested literature:
https://plato.stanford.edu/entries/self-deception/

Course description:

Colors, sounds and tastes accompany us from earliest childhood on and belong to the most familiar things we know. But what are colors, sounds and tastes? Thursday they even exist? Is there a sense in which we can conceive of them as existing in a mind-independent way even if what they are depends on the structure of the human perceptual system? Thursday facts about colors, sounds and tastes supervene on physical facts? Does the experience of an object having a certain color or an event making a certain sound add anything new to our knowledge of the physical world? How do those puzzles regarding the metaphysics and epistemology of colors, sounds and tastes relate to psychological and neuroscientific findings?

Another topic of the seminar will be the cross-modal interaction between colors, sounds and tastes. Why are there loud colors, dark sounds and sweet tunes? Aside from linguistic examples of synesthetic metaphors, we will also discuss the phenomenon of synesthetic perception and the interaction of action and perceptual domains.

Von den Seminarteilnehmer(-inne)n wird die Bereitschaft zur Übernahme eines Referats erwartet.

Bibliographical reference:

Alle Texte liegen ausschließlich in Englischer Sprache vor. Ein Reader wird bereitgestellt.

Aside from active participation, participants will be expected to give a presentation in English. Assistance regarding the English language will be provided.

Readings:


Course description:

Traditionally, philosophers and linguists have distinguished between the semantics of a sentence, i.e., what the sentence means, and the pragmatics of an utterance, i.e., what a speaker means by uttering a sentence. Semantics was supposed to explain the intuitive truth-conditions of a sentence. An important constraint was the principle of compositionality according to which the meaning of a complex expression is determined by the meanings of its parts and the way they are combined. Pragmatics was supposed to concern only secondary processes such as implicatures or presuppositions that come with the utterance of a sentence.

More recently, however, this line of demarcation between semantics and pragmatics has been challenged. Truth-conditional pragmatists (Recanati, 2010) argue that pragmatic factors can modulate meaning at any stage of sentence meaning composition and thus have a direct influence on the intuitive truth conditions of sentences. Semantic minimalists (Borg, 2004, 2012), in contrast, defend the classical view of bottom-up compositionality. Most recently, this controversy has also been investigated within a probability-theoretic framework (Frank & Goodman, 2012) and with empirical methods such as EEG (Cosentino, Baggio, Kontinen, & Werning, 2017).

The seminar will explore the whole span of the philosophy of pragmatics from its beginnings with Grice (1996a, 1996b) to the most recent debates.

Aside from active participation, participants will be expected to give a presentation in English. Assistance regarding the English language will be provided.
Bibliographical reference:

Readings:


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**030094 The World-Soul in Ancient Philosophy**

Seminar Thursday 16:00-18:00 GA 3/143. Start 12.10. Wilberding, James

2 SWS /
6 CP

Course description:

According to Plato and many other philosophers, the world is alive. It has a soul, which governs it and binds it together. As Plato put it because God ‘wanted to produce a work that would be as excellent and supreme as its nature would allow,’ he ‘brought our world into being as a truly living thing, endowed with soul and intelligence.’ And this conception of the universe as a living organism kept a steady hold of philosophers’ imaginations for over 2000 years, as is evidenced by works such as F.W.J. Schelling’s ‘On the World-Soul: An Hypothesis in Higher Physics for Explaining the Universal Organism’ and Ralph Waldo Emerson’s essay ‘The Oversoul.’ In this seminar we will explore this intriguing and difficult concept of the World-Soul in its various instantiations in ancient philosophy, as well as the criticisms that this concept was subject to in antiquity. Authors from the Presocratic period to the Neoplatonists will be read. Those looking to get a jump on the reading would do well to begin with a close reading of Plato’s Timaeus.
Course description:
Kim Sterelny`s ambitious book *Thought in a hostile world* (Blackwell, 2003) pursues four goals: it aims to develop analytic tools for thinking about cognition and its evolution, to develop a theory of human uniqueness, explore the relationship between so-called folk-psychology and an integrated scientific conception of human cognition, and present an alternative to nativist, modular versions of evolutionary psychology. In the seminar we´ll read and critically discuss selected parts of the book covering all four topics.

Bibliographical reference:

Course description:
This seminar is a research-oriented seminar which especially enables the participants to develop a project which leads into a BA-thesis or a master-thesis. It has a focus in philosophy but will involve some psychological texts as well. The main topic is the discussion of modern theories of human self-consciousness and of understanding others. Self-consciousness can be defined as the ability to consciously represent one’s own states, especially (but not only) mental states, *as one’s own* (Newen, Vogeley 2003). Concerning self-consciousness, we can distinguish four central questions which allow us to illustrate the wide range of this central debate:

*The epistemological question:* Thursday we have a privileged access to our own mental phenomena such that only we can know with certainty which mental phenomena we have?

*The ontological question:* Is there a self as an ontologically irreducible entity?

*The cognitive question:* How can we investigate the natural basis of self-c. with the methods of empirical psychology and cognitive neuroscience?

*The question about personal identity:* What is the criterion of being a person and of remaining the same person? In the seminar we will discuss texts concerning the first three dimensions of human self-consciousness.

Since the working hypothesis is that self-understanding and understanding others are two sides of the same coin, we will discuss theories of understanding others in the second part of the seminar: For decades we had an intense debate between Theory-Theory (TT) and Simulation-Theory (ST). The central claim of TT is that the process of understanding others is essentially relying on a *theory*. 
Simulation-Theory (ST) claims that we understand other by putting “ourselves into the shores of the other”. We will discuss the main deficits of these theories. Then we will discuss more recent developments in theories of understanding other, e.g. the theory of direct perception (Shaun Gallagher 2008), the narrative theory (Dan Hutto 2008) and the person model theory (Newen/Schlicht 2009). A leading background question is whether we can systematically develop the bridges between understanding oneself and understanding others.

Details for receiving a certificate will be presented at the beginning of the seminar. Bachelor-students will receive 4 credit points for a determined package of work while master students will receive 6 credit points for a higher workload. The workload involves the standard tools of oral presentations and essay writing. Presentations and discussions will be in English.

Bibliographical reference:
To prepare the participation please read the following texts:

Literature: The articles and the seminar plan will be available via moodle for the participants.

030006 Einführung in die Philosophie des Geistes
Lecture Thursday 10:00-12:00 HGA 30 Start 12.10. Schlicht, Tobias
2 SWS / 4 CP

Course description:

Bibliographical reference:
Einführende Lektüre:
Faculty of History

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<td>Seminar: Migration and Contemporary Turkey</td>
<td>Wednesday 10:00-12:00</td>
<td>GA 5/39</td>
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<td>Zeitungslesesaal</td>
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<td>040195</td>
<td>Exercise course für Fortgeschrittene: &quot;Orientalism before Orientalism&quot; - Translating the Quran and Writing Ottoman history in Early Modern Europe</td>
<td>Thursday 16:00-18:00</td>
<td>GA 5/39 Zeitungslesesaal</td>
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Seminar findet in englischer Sprache statt!
Faculty of Philology

Institute of German Studies

050337 Intermedial Storytelling: Alice in Wonderland as Case Study (Seminarangebot in englischer Sprache) (V2, V3)
Seminar Tuesday 10:00-12:00 GBCF 04/358 Start 17.10. Glaser, Stephanie
2 SWS

Course description:

This course takes as its springboard Lewis Carroll’s 1865 novel, Alice’s Adventures in Wonderland. Its intermedial character, its status as cultural icon, and its manifold adaptations make it a particularly telling case study in which questions and topics of an intermedial nature can be explored in depth. We will discuss general questions pertinent to all forms of intermedial inquiry and apply them in to the original Alice and various retellings of her story in different medial contexts.

As all the primary and theoretical works are in English, the course will be taught in English. Students’ presentations and papers may be in English or in German. Students are required to have read all theoretical texts before each session and will have read the entire text of Carroll’s Alice in Wonderland by Week 3, otherwise we cannot meaningfully discuss the other works! All other materials will be made available by the instructor.
Apart from few exceptions all courses offered by the English Department are taught in English.

The different courses cover topics from the fields of American Cultural Studies, British Cultural Studies, American Literature, British Literature and Linguistics.

Courses which could be particularly useful and interesting for exchange students are also provided in the modules Language Practice (i.e. Translation, Communication, Grammar) and English for Special Purposes (i.e. Legal English, Business English, Technical English).

A complete list can be found on the departmental homepage: http://www.es.rub.de/vorlesungsverzeichnis.html

Contact Information:

Geschäftszimmer GB 6/133
Mon-Fri: 8:30am – 12:30pm
Phone: 0234/32-22589
Email: anglistik@rub.de
Course description:

The global North and South have had a unique entanglement that continues to inform how these two blocks interact. It is my aim in this course to engage you in the debate about the evolving nature of international news flows and how this has contributed to the current hegemony in foreign news production. The contemporary debate that news flow across the world, through modern technologies, is an evidence of globalisation will be interrogated with an interventionist perspective. These questions are fundamental to the seminar: What is the relevance of the New World Information Order debate today? How do we define contemporary international news flow in a world of unequal encounters? Is the international news flow field an open or closed place for key players and why? What has happened to Afro-pessimism under hegemonic conditions? How has Western dominance of International news flow evolved on to the African continent? Has the electronic imperialism thesis from McPhail (2014) any basis?

The semi-blockseminar shall be delivered in English language. For the first 5 weeks (10 hours), students shall be introduced to the debate of international news flow with a combination of frontal instructions and discussions. The students will then be split into two groups to prepare for a full-day workshop (8 hours) to be delivered on the 9th December 2017.

References


051729 Social Media and Global Perspectives
Seminar Monday 14:00-16:00 GB 03/42 Start 16.10.
2 SWS / n.a. CP
Benrazavi, Rahim

Course description:
This course encourages the students to think about and explore issues of global significance, in relationship with digital literacy and digital citizenship. Studying this syllabus offers learners the opportunity of critical thinking, problem solving, research, and interaction on global topics that concern social media and its applicants. In this course learners study and build on their work in Global Perspectives through carrying out research in an academic topic of their choice.

Goals
Throughout this course the students find the opportunity to analyze arguments and understand the role of social media in structuring global perspective. At the same time the students get to analyze global perspectives and understand the ways that social media reflect different claims, reasons, arguments, and viewpoints. Critical evaluation of the nature of social media and how accurately it can base different arguments and perspectives would be one of the main objectives of this subject. Students would have the opportunity to synthesize relevant and credible research in support of judgments about arguments and perspectives. This subject is also meant to provide the chance of exercising a higher-order of thinking skills, analysis, synthesis and evaluation of the facts.

Method
The format of this course is a mixed bag. This course will combine in-class lectures, discussions, and exercises with student presentations, online discussions, and out-of-class media explorations. Much of the course will follow a seminar approach, so as we read and write about protection methods against social media threats. This course is reading and writing intensive and requires outside-of-class preparation and effort.
**Requirement**

This subject builds on the knowledge, understanding and skills typically gained by candidates throughout this course, therefore there are no specific requirements for this course.

**Marking and evaluation**

The learners’ would be evaluated based on the presentations of the assigned projects and in-class performance.

051720 The diversity of LGBT+ images on Contemporary American Television+

Semenar Wednesday 16:00-18:00 GABF 04/611. Start 18.10. Dellemann, Dennis
2 SWS / n.a. CP

**Course description:**

“It’s such an amazing time now, I think, because the gay visibility is so prevalent. […] General, normal, mainstream Middle-America that doesn’t get out and witness a lot of diversity; I feel they get that diversity through television. Now, there are so many examples that you can’t just put the ‘gay’ into a ‘little gay box’ anymore“.

*(Neil Patrick Harris, taken from the 2013 HBO-documentary the Out List)*

This change started during the 1990’s, when “Ellen“ (ABC) and “Will & Grace“ (NBC) introduced the LGBT+ community to a wide American television audience. Their mostly stereotyped view on lesbian- and gay-lifestyle was still a novelty. Many things – as also noted by Neil Patrick Harris – have changed since then. Besides the cultural and political progress the USA has made during the last 15 years, the American television system has changed, too. So-called “Quality TV“, pay TV (e.g. HBO), and streaming sites (e.g. Netflix) offer a diversity of LGBT+ characters and communities and invite the “real“ lesbian, gay, bisexual, and transgender into Americas living rooms. Or don’t they?!

In this seminar we will have a closer look on how the diversity of new developments in the American television system itself has influenced and changed the LGBT+ images and visibility in their products. Eventually we will analyze contemporary American television LGBT+ shows from network television (e.g. “The Real o’Neals”, ABC, 2016-2017), pay TV (e.g. “Looking”, HBO, 2014-2016), and streaming sites (e.g. “Transparent“, Amazon, since 2014) with the aim to answer the question, if their images are “the real deal“.

**Introductory literature**

Course description:
Transgressive Performance in Film and Television: Here, we look at film and television texts which break the rules. These texts are examined in a historical, aesthetic, and representational scope to see how media has pushed normative conventions and challenged how we see boundaries of the body. This course examines films which complicate or alter these boundaries, through our relationship with pain, the complications of the self and the Other, explicit sexuality, blurred gender dynamics etc. Whether this is politically, bodily, racially, or sexually, these films challenged perceptions and comfort levels of their time. Please note that all texts, discussions, and assignments will be in English.
Institute of Oriental and Islamic Studies

050114 Proseminar / Exercise course: Lektüre und Interpretation der 'Gedanken über Liebe' Ahmad al-Gazalis

Proseminar / Exercise course	Tuesday	16:00-18:00	GB 2/131. Start Pourjavady, Reza
2 SWS

Course description:
Aḥmad al-Ghazālī’s Persian treatise Sawānih (Inspirations) was arguably the most outstanding work written in the Islamic context on the metaphysics of love. It paved the way for the development of love mysticism in the poems of Aṭṭār, Rūmī, Sa’dī, ʿIrāqī and Ḥāfiz. The course starts with an introduction to the thought of Aḥmad al-Ghazālī with particular attention to his relationship with his more famous brother, Abū Hamid al-Ghazālī. It then focuses on the text of Sawānih, which we are going to read and analyze with the help of its German and English translations.

Requirements:
Begrenzte Teilnehmerzahl: 20 Personen.

Bibliographical reference:
Introductory Literature/Literatur zur Einführung:
Lecture: Bedeutende Philosophen und Theologen der islamischen Welt: Ein Überblick

Course description:
This is an introductory course on the major figures who have dealt with philosophy and theology within the Islamic world throughout history, focusing on the problems and concepts that preoccupied them. The course will examine a range of issues including knowledge and its foundations, existence versus essence, cosmology, God's existence and His attributes. Our discussion of such problems seeks to raise fundamental questions about the nature and role of philosophy and theology in Islamic history: What is philosophy in Islamic context? How are philosophy and theology related? We will also assess the role of philosophy and theology in modern Islamic world.

Texte und Materialien zur Lecture sind sowohl in Deutsch als auch in Englisch verfügbar.

Bibliographical reference:
Introductory Literature/Literatur zur Einführung:

Hauptseminar: Einführung in Arabische Manuskripte (Unterrichtssprachen Deutsch und Englisch)

Course description:
This course provides an introduction to the codicology of Arabic manuscripts. We discuss about the writing supports and structures of Islamic manuscripts, scripts, as well as composition and transmission of texts. The intention is to prepare the students with the correct methodology for the analysis of Arabic manuscripts in the context of their research. It also provided some hints on how to edit an Arabic text based on its extant manuscripts.

Requirements:
Teilnehmerbegrenzung: 25 Personen

Bibliographical reference:
Introductory Literature/Literatur zur Einführung:
Course description:
In the Arabic philosophical tradition, following Aristotelian philosophy, it was standard to divide practical philosophy into three parts: dealing with individual, house and city. The subject of this course is the part related to household, *tadbīr al-manzil* (household management) and its relation to two other parts namely *akhlāq* (ethics) and *siyāsa madaniyya* (politics). The main topics discussed in this part are money, slave, women and children. Arabic works on practical philosophy (and subsequently those written in Persian, Turkish and Urdu) were under the influence of a treatise by a Roman philosopher, by the name of Bryson who was active in the first century AD. Although the original Greek version of this text is lost, the text survived in Arabic. We are going to examine how Muslim writers adopted the text by Bryson and the way their writings on this subject developed throughout history. Particular attention will be devoted to the issues related to women’s rights, treatments of slaves and education of children in these writings.

Requirements:
Teilnehmerbegrenzung: 25 Personen

Bibliographical reference:
Introductory Literature/Literatur zur Einführung:
Faculty of Law

060003 Philosophy of Law ***
Lecture Monday 08:00-10:00 GC 03/142 Start 09.10. Magen, Stefan
2 SWS / ab 4. Semester
3 CP

060009 Einführung in das deutsche Recht und Rechtsstudium für ausländische Studierende
Lecture Wednesday 09:00-16:00 BS 4/02 Beke-Martos
2 SWS / Individual event: 04.10. Pfenner, Tim
3 CP Thursday 09:00-16:00 BS 4/02
Individual event: 05.10.
Friday 09:00-16:00 BS 4/02
Individual event: 06.10.
Saturday 09:00-16:00 GBCF 04/414
Individual event: 07.10.
Monday 14:00-16:00 HGC 10
Individual event: 09.10.

Course description:

Requirements:
proficiency in German

060300 Introduction to American Law
Sprachkurs Wednesday 16:00-18:00 HGC 50 Beke-Martos
2 SWS / 3 Start: 18.10.2017 CP

060173 International Legal Dialogue
Kolloquium Wednesday 16:00-18:00 BF 8/17 Windel, Peter A.
2 SWS / 3 Start 18.10. CP
060302 **U.K. Company Law**
Sprachkurs Friday 09:00-16:00 GC 8/131 Individual event: 12.01. Beke-Martos
2 SWS / 3 Saturday 09:00-16:00 GC 8/131 Individual event: 13.01. Martos
CP Friday 09:00-16:00 GC 8/131 Individual event: 19.01.
Saturday 09:00-16:00 GC 8/131 Individual event: 20.01.
Dozent: Herr Dr. Dominic Janßen

060303 **US Constitutional Law: State and Governance**
Sprachkurs Wednesday 14:00-16:00 HGA 20 Beke-Martos
2 SWS / 3 Start: 18.10.2017
CP

Course description:
Degree Programme: State Exam / Law; Core Course for the Certificate Program Anglo-American Law & Language Program

060304 **U.S. Contract Law**
Sprachkurs Friday 09:00-16:00 GC 8/131 Individual event: 24.11. Beke-Martos
2 SWS / 3 Saturday 09:00-16:00 GC 8/131 Individual event: 25.11. Martos
CP Friday 09:00-16:00 GC 8/131 Individual event: 08.12.
Saturday 09:00-16:00 GC 8/131 Individual event: 09.12.
Dozent: Dr. O’Connolly

060305 **International Dispute Settlement**
Sprachkurs Friday 09:00-16:00 GC 8/131 Individual event: 10.11. Beke-Martos, Wuschka
2 SWS / 3 Saturday 09:00-16:00 GC 8/131 Individual event: 11.11.
CP Friday 09:00-16:00 GC 8/131 Individual event: 17.11.
Saturday 09:00-16:00 GC 8/131 Individual event: 18.11.

060307 **International Dimensions of Law**
Sprachkurs Friday 12:00-18:00 HGC 30 Individual event: 20.10. Beke-Martos
2 SWS / 3 Saturday 09:00-16:00 HGC 30 Individual event: 21.10. Thomas
CP Friday 12:00-18:00 HGC 30 Individual event: 27.10.
Saturday 09:00-16:00 HGC 30 Individual event: 28.10.
Friday 14:00-17:00 HGC 10 Individual event: 10.11.

060309 **Introduction to South-African Constitutional Law**
Kurs Wednesday 09:00-16:00 HGC 40 Individual event: 04.10. Beke-Martos
2 SWS / 3 Thursday 09:00-16:00 HGC 40 Individual event: 05.10. Martos
3 CP Friday 09:00-16:00 HGC 40 Individual event: 06.10. Scholtz, Werner
Saturday 09:00-16:00 HGC 40 Individual event: 07.10.
Klausur am 09.10.2017 von 14-16 Uhr im HGC 10
060315 **Droit international public général (Allgemeines Völkerrecht)**
Kurs Tuesday 10:00-12:00 GBCF 05/604 Start 17.10. Beke-Martos Juchs, Geoffrey

**Course description:**

060316 **Organisations internationales et européennes (Internationale und europäische Organisationen)**
Kurs Tuesday 14:00-16:00 GBCF 05/604 Start 17.10. Beke-Martos Juchs, Geoffrey

**Course description:**

060317 **Droit international de l'environnement (Umweltvölkerrecht)**
Kurs Wednesday 10:00-12:00 GBCF 05/604 Start 18.10. Beke-Martos Juchs, Geoffrey

**Course description:**
Faculty of Economics

072017 V Management Game "General Management"
Lecture  Auftaktveranstaltung 13.10.2017; 10-11:30 Uhr, GC 4/50
3 SWS / 5 CP
Seidler, Martin
Werners, Brigitte

Course description:
http://www.wiwi.ruhr-uni-bochum.de/mam/content/dekanat/modulhandbuch_bachelor_wise_17_18_06.09.17.pdf

074040 V Econometrics
Lecture  Monday 10:00-12:00 HGC 40 Start 09.10.
2 SWS / 10 CP
Golosnoy, Vasyl

Course description:
http://www.wiwi.ruhr-uni-bochum.de/mam/content/dekanat/modulhandbuch_alle_master_wise_17_18_30.08.17.pdf

074050 V Financial Econometrics
Lecture  Tuesday 10:00-12:00 HGC 50 Start 10.10.
2 SWS / 10 CP
Golosnoy, Vasyl

Course description:
http://www.wiwi.ruhr-uni-bochum.de/mam/content/dekanat/modulhandbuch_alle_master_wise_17_18_30.08.17.pdf

074035 V Multivariate Statistical Methods
Lecture  Thursday 08:15-09:45 HZO 100 Start 12.10.
2 SWS / 10 CP
Pape, Markus

Course description:
http://www.wiwi.ruhr-uni-bochum.de/mam/content/dekanat/modulhandbuch_alle_master_wise_17_18_30.08.17.pdf
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<td>Bauer, Thomas</td>
<td>Course description: <a href="http://www.wiwi.ruhr-uni-bochum.de/mam/content/dekanat/modulhandbuch_alle_master_wise_17_18_30.08.17.pdf">http://www.wiwi.ruhr-uni-bochum.de/mam/content/dekanat/modulhandbuch_alle_master_wise_17_18_30.08.17.pdf</a></td>
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<tr>
<td>073008</td>
<td>V Introductory Labor Economics</td>
<td>Lecture</td>
<td>2</td>
<td>10.10.17</td>
<td>Tuesday</td>
<td>HGC 40</td>
<td>Bauer, Thomas</td>
<td>Course description: <a href="http://www.wiwi.ruhr-uni-bochum.de/mam/content/dekanat/modulhandbuch_bachelor_wise_17_18_06.09.17.pdf">http://www.wiwi.ruhr-uni-bochum.de/mam/content/dekanat/modulhandbuch_bachelor_wise_17_18_06.09.17.pdf</a></td>
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<tr>
<td>075014</td>
<td>V Economics of Migration</td>
<td>Lecture</td>
<td>1</td>
<td>17.10.17</td>
<td>Tuesday</td>
<td>GC 02/130</td>
<td>Bauer, Thomas</td>
<td>Course description: <a href="http://www.wiwi.ruhr-uni-bochum.de/mam/content/dekanat/modulhandbuch_alle_master_wise_17_18_30.08.17.pdf">http://www.wiwi.ruhr-uni-bochum.de/mam/content/dekanat/modulhandbuch_alle_master_wise_17_18_30.08.17.pdf</a></td>
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<tr>
<th>Code</th>
<th>Course Title</th>
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<th>Credits</th>
<th>Start Date</th>
<th>Days</th>
<th>Venue</th>
<th>Instructors</th>
<th>Notes</th>
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<td>075003</td>
<td>S in Microeconometrics</td>
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<td>GBCF 04/252 CIP</td>
<td>Bredtmann, Julia</td>
<td>Course description: <a href="http://www.wiwi.ruhr-uni-bochum.de/mam/content/dekanat/modulhandbuch_alle_master_wise_17_18_30.08.17.pdf">http://www.wiwi.ruhr-uni-bochum.de/mam/content/dekanat/modulhandbuch_alle_master_wise_17_18_30.08.17.pdf</a></td>
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<td>075012</td>
<td>V Econometric Evaluation of Economic Policies</td>
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<td>Course description: <a href="http://www.wiwi.ruhr-uni-bochum.de/mam/content/dekanat/modulhandbuch_alle_master_wise_17_18_30.08.17.pdf">http://www.wiwi.ruhr-uni-bochum.de/mam/content/dekanat/modulhandbuch_alle_master_wise_17_18_30.08.17.pdf</a></td>
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075025 V International Macroeconomics
Lecture Tuesday 16:00-18:00 HGC 40 Start 10.10. Beckmann, Joscha
2 SWS / Busse, Matthias
5 CP

Course description:
http://www.wiwi.ruhr-uni-bochum.de/mam/content/dekanat/modulhandbuch_alle_master_wise_17_18_30.08.17.pdf

075026 T International Macroeconomics
Tutorium Friday 14:00-16:00 HGC 50 Start 13.10. Rogmann, Jennifer
1 SWS / 5 CP

Course description:
http://www.wiwi.ruhr-uni-bochum.de/mam/content/dekanat/modulhandbuch_alle_master_wise_17_18_30.08.17.pdf

073026 Ü International Finance
Exercise Tuesday 14:00-16:00 HZO 60 Start 10.10. Dubova, Irina
course 1 SWS / 5 CP

Course description:
http://www.wiwi.ruhr-uni-bochum.de/mam/content/dekanat/modulhandbuch_bachelor_wise_17_18_06.09.17.pdf

073025 V International Finance
Lecture Monday 14:00-16:00 UFO 0/10 Start 09.10. Beckmann, Joscha
2 SWS / 5 CP

Course description:
http://www.wiwi.ruhr-uni-bochum.de/mam/content/dekanat/modulhandbuch_bachelor_wise_17_18_06.09.17.pdf
**V Foundations of International Trade**

Lecture  Monday  16:00-18:00  UFO 0/10  Start 16.10.  Erdogan, Ceren
2 SWS /  Wednesday 12:00-14:00  HZO 70  Start 11.10.
5 CP  Wednesday 16:00-18:00  HGB 10  Individual event: 29.11.

Course description:
http://www.wiwi.ruhr-uni-bochum.de/mam/content/dekanat/modulhandbuch__bachelor__wise_17_18_06.09.17.pdf

**Ü Foundations of International Trade**

Exercise  Thursday  12:00-14:00  HGC 50  Start 12.10.  Erdogan, Ceren
1 SWS / 
5 CP

Course description:
http://www.wiwi.ruhr-uni-bochum.de/mam/content/dekanat/modulhandbuch__bachelor__wise_17_18_06.09.17.pdf

**V Macroeconomics II**

Lecture  Friday 08:00-10:00  HZO 100  Start 20.10.  D'Orazio, Paola
2 SWS / 
5 CP

Course description:
http://www.wiwi.ruhr-uni-bochum.de/mam/content/dekanat/modulhandbuch__alle_master__wise_17_18_30.08.17.pdf

**Ü Macroeconomics II**

Exercise  Thursday 14:00-16:00  UFO 0/09  Start 19.10.  Bonakdar, Said
2 SWS / 
5 CP

Course description:
http://www.wiwi.ruhr-uni-bochum.de/mam/content/dekanat/modulhandbuch__alle_master__wise_17_18_30.08.17.pdf
**S Case studies in international macroeconomics**

- **Seminar**
  - 2 SWS /
  - 5 CP
- **Tile**
  - Friday 10:00-17:00 GBCF 04/300
  - Individual event: 20.10. Zeuner, Jörg
- **Monday 10:00-17:00 GBCF 04/300**
  - Individual event: 30.10. Jörg
- **Friday 10:00-17:00 GBCF 04/300**
  - Individual event: 24.11.
- **Monday 10:00-17:00 GBCF 04/300**
  - Individual event: 08.01.
- **Friday 10:00-17:00 GBCF 04/300**
  - Individual event: 26.01.

**Course description:**

http://www.wiwi.ruhr-uni-bochum.de/mam/content/dekanat/modulhandbuch_alle_master_-wise_17_18_30.08.17.pdf

**Ü Behavioral and Complexity Macroeconomics**

- **Exercise course**
- **2 SWS /
  - 5 CP
- **Wednesday 12:00-14:00 GC 02/120**
- **Start 18.10.**
- **D'Orazio, Paola**
- **Roos, Michael**

**Course description:**

http://www.wiwi.ruhr-uni-bochum.de/mam/content/dekanat/modulhandbuch_alle_master_-wise_17_18_30.08.17.pdf
Course description:

Starting with the so called refugee crisis of 2015 the course focuses on analysing the „causes of refuge“. Starting with the broad debates on the so called migration-development-nexus during the first decade of this century the course extends the perspective towards the interrelations between (lack of) development, (forced) migration and organised violence. Two regions will be compared: Sub-Saharan-North-Africa-Middle East-Europe and Central-North-America.

Structure

1. Scientific debates on the migration-development-nexus in the frist decade of the 21st century
2. Increasing role of organised violence and armed conflicts
3. Case studies on the (vicious) cycle of (lack of) development, organised violence and forced migration based on available mass data and scientific reports

Voraussetzungen für Studiennachweise / Modulprüfungen:

Anmeldestart: 28.08.2017

TN: the course will be held in English, active and continuous participation is expected

LN: final term paper with presentation based on case study

Requirements:
Having passed part I of the corresponding module

Bibliographical reference:
Pries, Ludger, 2017: Refugees, Civil Society and the State: European Experiences and Global Challenges. Cheltenham: Edward Elgar

Course description:

The radical transformation of traditional humanities and social science disciplines through feminist scholarship was an ambition often expressed in an era, roughly spanning the 1980-90's, which saw the rapid growth of women's numbers and influence in the academy, alongside the rise and institutionalization of distinctive critical approaches to gender. Such transformation, would mean, as an initial step, “purging [disciplinary] of androcentric bias, reshaping dominant paradigms so that women’s needs, interests, activities, and concerns can be analyzed and understood systematically, and generating research methodologies that are neither gender-biased nor gender-blind” (Mary Hawkesworth 1994: 98). The extent to which such transformation occurred has been much debated. What seems clear, however, is that different disciplines have undergone widely differing degrees as well as kinds of change.

Today, in several social sciences disciplines, notably in economics, political science and philosophy, we see strong patterns of women’s workforce under-representation, as compared with sociology, anthropology and history. In this class we consider whether women’s status and workforce participation as academics, might be usefully considered alongside histories of the reception and influence of the scholarship that women introduced into particular fields. Feminist standpoint theory offers relevant reflections on the epistemic issues that arise for acceptance of scholarly work that criticizes established hierarchies, contests authoritative norms, and is generated by a subordinated group. Women came to participate in social sciences, not always as feminist scholars, but often as innovators in recognising the importance of gender for their objects of study. Acknowledging, and seeking to understand this innovation and its reception, provides another approach to understanding how gender equality and knowledge are entwined aspects of transformation in these disciplinary fields.

Key questions which will be discussed in the course are:

How far, and where, has disciplinary transformation of the kind demanded by feminist scholars taken place? What role do epistemic norms and questions play in these histories of reception and of influence? Can feminist standpoint theory help in accounting for the obstacles faced by feminist scholarship, as well as its successes?

Disciplinary spaces are structured in more or less contingent ways by common understandings of what constitute ‘core’ versus peripheral areas, sub-fields and their hierarchies of importance. Given this, what kind of evidence can be gathered regarding the relationship of workforce gender inequalities and these contemporary disciplinary forms?
Voraussetzungen für Studiennachweise / Modulprüfungen

"Studiennachweis":
Active Participation, oral presentation, short essay

"Modulprüfung": Active Participation, oral presentation, short essay and final paper.

Sprechstunde: donnerstags 13.00-14.00 Uhr
Raum: Universitätsstr. 134, Raum 3/3.14
Telefonnummer: 0234/32-25413

Requirements:
As in the module description.
Anmeldung über eCampus bis zum Semesterbeginn.
Die Teilnehmer_innenzahl ist auf 30 Personen begrenzt.

Bibliographical reference:


More literature will be announced in the first class.

080257 S Comparative Regionalism in Theory and Practice (IntBez, Teil II; IntStrukt, Teil II)
Seminar Tuesday 10:00-12:00 GBCF 04/300 Start 10.10. Novak, Roman
2 SWS

Course description:
The distinctive feature of the post-Cold War world is the multiplication of regional organizations and initiatives. This seminar compares the regional cooperation processes around the globe, in particular in Europe (EU), in Asia (ASEAN), in Africa (African Union) and in the Americas (NAFTA, Mercosur). It explores the above regional organizations' institutional design as well as the extent to which their operation is able to change the balance of power in the international system. The question of why and how successful the states cooperate at the regional level is at the core of this seminar.
In order to answer these questions, theories of International Relations such as power-based Neorealism, rules-oriented Institutionalism, and theories focusing on domestic interests and ideas such as Liberalism will be applied. In addition, the seminar will investigate the explanatory value of regional integration theories such as Neofunctionalism and Liberal Intergovernmentalism. Participating students will look into the performance of the above mentioned regional arrangements and, by applying International Relations or Integration theories, explain their behaviour and decision-making.

Voraussetzungen für Studiennachweise / Modulprüfungen:


Requirements:

Bibliographical reference:

Course description:
The lecture addresses the ideas behind and practices of humanitarian action, in particular the politics and management of humanitarian organizations and crises. In this vein, the lecture also discusses the main critiques of humanitarian action and possible alternatives to it. It is based on the idea that humanitarian aid should be carefully provided from a long-term perspective, otherwise it can either reinforce conflict and exclusion, and neglect the root causes of (complex) crises, or hinder access at a later stage of the crisis or during other crises.

The course consists of three interrelated sections:
1. Context and Legal Basics
2. Actors and organizations

Voraussetzungen für Studiennachweise / Modulprüfungen:
For a proof of performance (Modulprüfung or Studiennachweis) students have to participate in all classes and hold a presentation on the lecture and its required literature (Referat with a 1-page handout). Towards the end of the course, they also have to complete a written assignment (Final Exam, only for the Modulprüfung).

Requirements:
This course is open to students with a strong interest in interdisciplinary themes from all schools or faculties at Ruhr University Bochum. Requirements for participation: minimum 2nd semester, good knowledge of the English language (module is entirely taught in English), and a high degree of interest in international humanitarian action. Students from specific assignments dealing with humanitarian issues, such as medical, civil engineering, law, environmental technology, business management, and theology, etc. are also welcome to participate.

Registration in CampusOffice starting at N.N.
Bibliographical reference:
Required Books:

Required Readings on Web Resources:
Hanlon/ Yanacopulos, Civil War, Civil Peace.
etc.
Course description:

Different theories have dealt with the question what democracy is or should be. The seminar approaches democracies differently. Rather than as a normative concept or an idealistic concept towards states should strive, democracies are understood as emerging from lived and performed relations between people, places and materiality. This shift in framing democracy as situated moves the interest from ‘what’ democracy is to ‘how’ democracy is lived and performed. In the centre of this seminar is the investigation of differences in knowledge practices. Knowledge practices are these practices by which people order complexity by generalizing, associating or attributing. These collectively performed knowledge practices simplify complexity and shape our knowing and doing of change in democracies. How do we know democracies? How can we approach differences in knowing democracies? And how do our ways of knowing democracies shape the democracy we live in? Based on the work of the empirical philosopher Helen Verran, students will learn to investigate their own knowledge practices in relation to those of others. Migration will be taken as a field in which differences in knowing (and thus doing) democracies become observable for us researchers. Students will be guided towards a presentation of a little empirical research on knowledge practices related to migration.

Requirements for completing the seminar:
- Mindmaps for each of the texts
- Analysing data on knowledge practices by applying a theory
- Writing a short ethnographic text

Requirements for completing the module:
- 12 – 15 pages, ethnography about epistemic differences in knowing and doing migration.

Requirements for completing the seminar:
- Mindmaps for each of the texts (one per week).

- Requirements for completing the module:
- Ethnography of knowledge practices (12 – 15 pages)

Bibliographical reference:


Course description:

Phenomena can be analysed in different ways. One of them is applying a theory to empirical research data. Using theories as methodologies for the analysis of research data might show some surprising insights.

Yet, sometimes theories appear to be too abstract to be applicable to research data. Theories that deconstruct phenomena might discourage us to make normative decisions, and reading of a convoluted ideal typus might leave us with the impression that theories have little to do with reality. At this point, many students lose interest in theories. This seminar aims to (re-)awake the interest in and passion for dealing with theories.

Based on texts in English and German, we will discuss four theories as embedded in academic discourses and societal necessities. We will examine how the theories address particular social issues, and how to apply the theories to the analysis of research data. To make the reading of the texts as comfortable as possible, guiding questions to each of the texts will be provided.

Students might learn:
- How to approach theoretical texts effectively
- How to write about theories
- How to apply theories to the analysis of empirical research data

Students are required:
- To read the texts
- To answer reflective questions to each of the texts (1 – 3 pages per text, 1.5 line space, three texts can be excluded)

Studiennachweise: Reading Notes, 1 – 3 Seiten für jeden (außer drei) der gelesenen Texte. 
Modulprüfung: Writing a 7-10 pages research design, Seminararbeit 7 – 10 Seiten.

Requirements:
A successfully completed Bachelor degree is required.

Bibliographical reference:
BECK, Stefan, NIEWÖHNER, Jörg, SØRENSEN, Estrid (Hrsg.): Science and Technology Studies. Eine sozialanthropologische Einführung. Bielefeld Transcript.
Course description:

This course looks at governance and its problems in development processes in the global North and South. Governance has become a catchword in the international development arena attached to the principles of good governance of so-called sustainable economic, political and social development. In the context of development politics and co-operation participatory governance is depicted as a condition sine-qua-non for sustainable development. Among others it denotes the relationship between the state and civil society and the processes and structures deriving from this relationship. By now the concept corresponds to the international, regional, national as well as the local level and the interdependencies between these levels. The course addresses the increasing difficulties and problems of sustainable development in a rapidly globalising and transnationalising world, exposed to growing climate change and other economic, social and environmental dynamics, pressures and risks alike.

Voraussetzungen für Studiennachweise / Modulprüfungen:

Studiennachweis: Aktive und regelmäßige Teilnahme, Lektüre der Pflichtliteratur, Textbesprechungen, Referate und Ausarbeitungen

Modulprüfung: wie Studiennachweis plus Hausarbeit, mündliche Modulabschlussprüfung

Requirements:

Anmeldung über Campus Office (VSPL)

Bibliographical reference:


Course description:

The post-World War II period has revealed an accumulation of international institutions and fora (for example IMF, WTO, G20) which have been created in order to govern the global economy. This institutional structure however, has increasingly attracted critique regarding its legitimacy and efficiency. Several financial crises in the 1990s (for example in Argentina, Mexico, Asia) and the more recent global financial and economic crisis suggest the need for an improved political management of the world economy as existing mechanisms seem not to perform adequately. Besides financial markets, world trade is a second focus because liberalisation through the WTO has become more complex and controversial. In this seminar the analysis focuses on the rise of global economic cooperation and on the reform of existing governance structures. New challenges and opportunities are also faced by both institutions and actors (for example EU, US) in the light of newly industrialised and emerging economies (for example BRICS). Theories of international political economy (IPE) and international relations (IR) will be used to examine these questions and developments by students’ investigations of selected case studies.

Voraussetzungen für Studiennachweise / Modulprüfungen:


Requirements:

Bibliographical reference:


Course description:

Interest groups are important political actors in both European liberal democracies and the European Union. It is contested whether they serve democracy by linking political decisions to societal preferences or rather themselves and their members. We will study the role of different types of interest groups in EU policy-making and look into the behavior of national and EU level interest groups in the EU’s multilevel system. Students will get to know important approaches to studying interest groups in the EU such as resource dependency theory, typologies of interest groups (diffuse-specific), and political opportunity structures. They will also become familiar with the study of contextual effects on lobbying focusing on the EU’s institutional context as well as issue contexts (such as the public salience or technical character of a policy issue). After attending the seminar, students will have a sound knowledge of major debates on the role of interest groups in EU politics and will also be aware of data sources and methods to study them.

Requirements:

BA module ‘Europäische Union’ or equivalent knowledge of the EU. Proficiency in English. Inscription through Campus Office from 28.08.2017.

Bibliographical reference:

Jan Beyers, Rainer Eising and William Maloney: Researching Interest Group Politics in Europe and Elsewhere: Much We Study, Little We Know, West European Politics 31 (6), 2008: 1103-1128.

Course description:

Summer School: Social Movements and the (un-)making of Solidarities in a Historical and Contemporary perspective

Social movements and labour have been key forces contributing to building and strengthening democracies and creating institutions that democratically govern capitalism.

Which factors facilitate the emergence of solidarities and cooperation across and within social movements? How can social movements and organized labour work together? What makes solidarity networks fail? What are the political and societal consequences of cross-movement alliances? This summer school wants to explore the rise, development, challenges and innovative strategies of alliances and joint collective action between the so called "new" and "old" social movements and between the global South and the global North in their fight against repression and for the renewal of democratic space. The main event will take place between 11. And 15. September 2017 all day at the Institute for Social Movements. During the five day Summer School invited experts from different academic fields will give presentations and discuss the current state as well as challenges of social movement research with the participating stu-dents using „flexible formats“. Participation in online working groups starting mid- August is compulsory.

The program can be fund online at the website of the Institute for Social Movements. The course language will be English. In order to be able to participate, students have to write a 4-6 sentences, stating their interest in and motivation for the summer school until August 7. To Jonas Fischer, summer-school@rub.de

Voraussetzungen für Studiennachweise / Modulprüfungen:

wird in der Veranstaltung besprochen

Requirements:
Anmeldung über CampusOffice ab 28.08.2017

Bibliographical reference:
wird in der Veranstaltung bekannt gegeben
K CAST Forschungs- und DoktorandInnenkolloquium (Centre for Anthropology in Scientific and Technological Cultures)

Kolloquium Donnerstag 14-16 Uhr, 14-tgl.ab 19 Oktober in FNO 02/11

Brandt, Christina
Tuschling, Anna
Sörensen, Estrid

Course description:
Doctoral students present their preparation for field work, material and experiences from the field or data analyses, which are subsequently discussed. Furthermore, literature on field work is discussed. Presentations and readings are planned in collaboration between participants. The Colloquium is in English.

DoktorandInnen stellen ihre Vorbereitungen zur Feldforschung oder ihre Feldforschungsergebnisse vor, die mit den Teilnehmern diskutiert werden. Die genauere Planung erfolgt in Zusammenarbeit zwischen DoktorandInnen und ProfessorInnen. Kolloquiums-Sprache: Englisch

Requirements:
Interesse an Feldforschung

Bibliographical reference:
Selected text will be made available in the Colloquium's Drop Box.

Fieldwork Colloquium

Dijkzeul, Dennis
Haller, Dieter
Sörensen, Estrid

Course description:
Doctoral students present their preparation for field work, material and experiences from the field or data analyses, which are subsequently discussed. Furthermore, literature on field work is discussed. Presentations and readings are planned in collaboration between participants. The Colloquium is in English. 
DoktorandInnen stellen ihre Vorbereitungen zur Feldforschung oder ihre Feldforschungsergebnisse vor, die mit den Teilnehmern diskutiert werden. Die genauere Planung erfolgt in Zusammenarbeit zwischen DoktorandInnen und ProfessorInnen. Kolloquiums-Sprache: Englisch.

Requirements:
Interesse an Feldforschung
Course description:

Ancient Chinese state economies developed one of the earliest traditions of economic thought, as Chinese scholarship likes to emphasize. Aristotle has been said to have "discovered" the economy in the West (see Karl Polanyi, "Aristotle Discovers the Economy," in: Trade and Market in the Early Empires, ed. Karl Polanyi, Conrad M. Arensberg and Harry W. Pearson, Chicago: Regnery, 1957: 64–94), but at the same time we find entire chapters on complex economic issues like division of labour, economic cycles, contrarian investment, supply and demand, theories of price regulation or the quantity theory of money in early Chinese texts. One of the most important of these repositories of economic thought is the Guanzi (Master Guan), a collection of heterogeneous writings ascribed to the statesman Guan Zhong (fl. seventh century B.C.E.), but most probably a later composite work accumulated from the fourth to first centuries B.C.E.

In this seminar we will give an overview of the development of Chinese economic thought from its beginnings to the end of the empire and trace its influence on economic practice and theory in pre-modern Japan and Korea. We will explore Japanese and Korean economic concepts on the state organisation of the economy, especially taxation of land and people, monetary policies, the ideas on the division of labour among the four occupational groups, and on the productivity of land and labour. Participants are required to write and present termpapers on selected aspects of the history of economic thought in East Asia.

Erster Veranstaltungstag ist der 17.10.2017. Die Anmeldung erfolgt über eCampus im Zeitraum 01.09.-07.11.2017, 00:00 Uhr. Die Abmeldung ist bis zum 21.11.2017, 00:00 Uhr, schadlos möglich.

Sprechstunde:
Moll-Murata: Thursday 14:00-15:00 und n.V., 0234/32-28254, Uni134 (3.13), christine.moll-murata@rub.de
Schwermann: Tuesday 14:00-16:00 und n.V., 0234/32-28254, Uni134 (3.11), christian.schwermann@rub.de

Requirements:
B.A. degree in relation to East Asian studies.
The European Union and East Asia
Seminar Tuesday 08:30-10:00 GB 04/59. Start 17.10. Bersick, Sebastian
2 SWS The seminar is part of the Jean Monnet Chair The
International Political Economy of EU-Asia Relations and
cofounded by the Erasmus+ programme of the European
Union

Course description:
This course is designed to introduce and analyze the multi-dimensional relations between
the European Union and East Asia. The course will begin with a discussion of major
theoretical perspectives and approaches to the study of the EU’s external relations with the
region and its many actors, followed by a critical discussion of the evolution of the EU’s
approach to Asia. We will then focus on the EU’s bilateral relations and the so called
strategic partnerships in East Asia (PR China, Japan, Republic of Korea) before turning to
the specific role of multilateral regional and interregional organizations and institutions
(ASEAN, ARF, ASEM). Policy areas like trade, investment, security and climate will also
be dealt with as well as the EU’s role in an evolving regional architecture in East Asia.

Erster Veranstaltungstag ist der 17.10.2017. Die Anmeldung erfolgt über CampusOffice
im Zeitraum 01.09.-20.10.2017, 24:00 Uhr. Die Abmeldung ist bis zum 03.11.2017, 24:00
Uhr schadlos möglich.

Sprechstunde:
siehe http://www.ruhr-uni-bochum.de/ipea/de/team/bersick.shtml

Requirements:
Teilnahmeveraussetzung ist der erfolgreiche Abschluss des Moduls GPO und einer
Veranstaltung aus dem Modul APO. Der erfolgreiche Abschluss des Aufbaumoduls
Internationale Beziehungen wird dringend empfohlen.

Bibliographical reference:
Cameron, Fraser (2012), An Introduction to European Foreign Policy, Oxon: 2nd ed.,
Routledge
Bersick, Sebastian (2014), "Europe’s Role in Asia: Distant but Involved", in: Shambaugh,
David/Yahuda, Michael (eds.), International Relations in Asia, Landham: Md.: Rowman &
Littlefield. Revised and updated 2nd edition, pp. 115-144
Bersick, Sebastian/van der Velde, Paul (eds.) (2011), "The Asia-Europe Meeting:
Contributions to a New Global Governance Architecture". The Eighth ASEM Summit in
Brussels (2010), Amsterdam University Press
Course description:
The M.A. level seminar will introduce students to the study of the European Union’s foreign policy towards Asia by focussing on its inter-regional dimension. In a first step major theoretical approaches to the analysis of regional integration, inter-regionalism and the EU’s foreign policy will be introduced and discussed. The concepts and categories will then be applied to the existing inter-regional institutions and policies between the EU and Asia, i.e. EU-ASEAN, ASEM and SAARC as well as the case of Central Asia. The course shall provide students with a deeper understanding of the historical, political and economic factors that can explain the EU’s unique role as an agent for processes of regional integration in Asia and the EU’s facilitating role with regard to regional and global governance structures and institutions.


Sprechstunde:
Mittwochs, 13-14 Uhr

Course description:
The lecture explores central issues of East Asian economic development in a comparative perspective, with Japan and China as the pivotal cases, and complementary views on Korea and Taiwan. Every session is informed by a specific theoretical approach, so that the lecture also provides an introduction into concepts and methods of comparative institutional analysis.


Sprechstunde:
Nach der Lecture
Bibliographical reference:

090354 **Methodological and empirical approaches to culture in East Asian studies**

<table>
<thead>
<tr>
<th>Seminar</th>
<th>Friday 15:30-17:00 GB 04/159</th>
<th>Individual event: 13.10.</th>
<th>Herrmann-Pillath, Carsten</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 SWS /</td>
<td>Friday 09:00-12:15 GBCF 04/354</td>
<td>Individual event: 27.10.</td>
<td>Pillath, David</td>
</tr>
<tr>
<td>4,5 CP</td>
<td>Friday 09:00-12:15 GBCF 04/354</td>
<td>Individual event: 03.11.</td>
<td>Carsten</td>
</tr>
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<td></td>
<td>Friday 09:00-11:30 GBCF 04/354</td>
<td>Individual event: 17.11.</td>
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<td></td>
<td>Friday 09:00-11:30 GBCF 04/354</td>
<td>Individual event: 24.11.</td>
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</tr>
<tr>
<td></td>
<td>Friday 09:00-11:30 GBCF 04/354</td>
<td>Individual event: 01.12.</td>
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</tr>
<tr>
<td></td>
<td>Friday 09:00-17:00 GBCF 04/354</td>
<td>Individual event: 22.12.</td>
<td></td>
</tr>
</tbody>
</table>

Course description:
Course content: In various disciplines in the social sciences, the notion of ‘culture’ plays an important role, aiming at understanding and explaining systematic behavioural, ideological and structural differences across the societies of the world, past and present. In particular, cultural analysis is gaining ground recently in economics, and assumes practical relevance in international management. The course explores the uses of ‘culture’ in East Asian studies both in terms of different methodologies of cultural analysis and in different topical contexts, concentrating on issues that relate with the Chinese and Japanese economies, with perspectives on Korea and Greater China.


Sprechstunde:
Nach der Veranstaltung

Requirements:
Die Veranstaltung richtet sich primär an Masterstudenten, ist aber auch für fortgeschrittene Bachelorstudenten zugänglich. BA Studenten können durch den Besuch und die notwendigen Prüfungsleistungen das Modul (AWO I) abschließen.
Course description:

During the classes we will analyse the recent developments in Japanese domestic and foreign politics, including economy and security issues, that took place from 2012 onwards, after the new government of Abe Shinzo was established in Japan. Selected issues concerning broader developments within Japanese society will be discussed too, e.g. the aging of Japanese population, migration, position of women, as the current Abe administration has undertaken steps to solve these increasingly pressing social problems.

The class will be conducted in English, however the sources will be both in Japanese and English, allowing students to practice reading and understanding of Japanese language. The choice of Japanese language sources will include press articles, official speeches and commentaries.


Sprechstunde:
Dienstag, 15:00-16:00

Requirements:
Knowledge of English and Japanese languages required.

Bibliographical reference:
The list of sources will be provided during the first meeting with students.
Course description:

“Money” is one of the key pillars of power in the People's Republic of China according to David Lampton's study "The Three Faces of Chinese Power. Might, Money, and Minds". Developing and reforming its financial sector has thus been a sensitive issue for China's leaders. On the one hand, the leadership acknowledged the need to modernize and internationalize its banking, securities and insurance business to support its economic development. On the other hand, China is carefully managing the degree of openness and competition in order to avoid a loss of control. Several rounds of political and regulatory reforms have thus created a unique set of institutions to govern China's financial sector. Big state-controlled banks still dominate an increasingly diverse sector which is undergoing rapid change due to technological and organizational innovation. China's internet-based financial services (fintech) are considered to be among the most advanced in the world while developing outside the official political framework. The politics of internationalizing the currency RMB and raising China's presence in international organizations aim at turning the PRC into a global financial superpower. How does all this work? What are the political interests, ideas, and mechanisms behind these developments? Who are the economic and social forces driving China's financial innovation? What are the global effects of China's politics of finance? These are the key themes to be analysed and discussed in this MA-level seminar.


Sprechstunde:
Friday, 1-2.30 pm and by individual appointment.

Bibliographical reference:
To be announced in class.
Music of the People (minjung)'s movement
Seminar  Wednesday  10:00-12:00  GA 03/140  Start 11.10.  Byeon, Gyewon
3 SWS

Course description:
The main purpose of this class is to understand Korean recent history and culture through music. Korea has been developed based on people's power, especially since the 20th century. The role of music has always been the essence to express people's strength. The examples of the role of music in the people (minjung)'s movements such as Kwangju Revolution in 1980, Democratic Movement in 1987, the recent impeachment of the President Park and so on will be discussed with students in this seminar. This seminar also includes some topics related to people's music and culture in the traditional society of Korea. Students are required to give a presentation and to submit an essay.


Sprechstunde:
Nach Vereinbarung mit Frau Byeon per Email: gyewon.byeon@rub.de

Requirements:
The class will be held in English and Korean.
Intermediate level of Korean and English; successful conclusion of the module "Schriftkoreanisch"

Bibliographical reference:
Students will be required to read a comprehensive text (in Korean or English) to supplement the lectures and to assist a better understanding of this seminar. Also, each week, a handout of around 5-10 pages will be given to students to read before the following lecture.
Seminar Diagnostik von Kraft und Schnelligkeit

Course description:

Requirements:
abgeschlossenes Bachelor-Studium

Bibliographical reference:
wird innerhalb der Veranstaltung bekannt gegeben
Course description:
Not all memories are created equal. Some memories are strong, others are weak; some are adaptive, others are maladaptive. Strong maladaptive memories underlie many psychiatric disorders, such as post-traumatic stress disorder, phobias and addictions. During this seminar we will examine the modulating role of various factors (e.g. arousal, stress and sex hormones) in the creation and persistence of maladaptive memories. We will explore old and new therapeutic tools aimed at disrupting maladaptive memories and discuss their strengths and limitations in preventing relapse. The students will be required to present a paper on a chosen topic. The course will be held in English.
ENGINEERING SCIENCES

Faculty of Civil and Environmental Engineering

Computational Engineering

125502 Computer-based Analysis of steel structures (MSc-CE-P03)
<table>
<thead>
<tr>
<th>Lecture</th>
<th>Tuesday</th>
<th>10:15-11:45</th>
<th>HZO 100</th>
<th>Start 10.10.</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 SWS</td>
<td>Thursday</td>
<td>12:30-14:00</td>
<td>HZO 100</td>
<td>Start 12.10.</td>
</tr>
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</table>

Knobloch, Markus
Faghihi Habibaddin, Faranak

125504 Modern Programming Concepts in Engineering (MSc-CE-P04)
<table>
<thead>
<tr>
<th>Lecture</th>
<th>Tuesday</th>
<th>08:00-10:00</th>
<th>IC 03/653</th>
<th>Start 10.10.</th>
</tr>
</thead>
<tbody>
<tr>
<td>mit</td>
<td>Wednesday</td>
<td>08:00-10:00</td>
<td>IC 03/112</td>
<td>Start 18.10.</td>
</tr>
<tr>
<td>Exercise</td>
<td>Wednesday</td>
<td>08:30-10:00</td>
<td>IC 04/628 CIP-Pool</td>
<td>Start 11.10.</td>
</tr>
<tr>
<td>course</td>
<td>Thursday</td>
<td>08:00-10:00</td>
<td>IC 03/604</td>
<td>Start 12.10.</td>
</tr>
</tbody>
</table>

König, Markus

125508 Übungen zu Finite Element Methods in Linear Structural Mechanics (MSc-CE-P05)
<table>
<thead>
<tr>
<th>Exercise</th>
<th>Monday</th>
<th>10:15-11:45</th>
<th>HIC</th>
<th>Start 09.10.</th>
</tr>
</thead>
<tbody>
<tr>
<td>course</td>
<td>Friday</td>
<td>09:45-11:15</td>
<td>IC 03/610</td>
<td>Start 13.10.</td>
</tr>
<tr>
<td>2 SWS</td>
<td>Erster Termin am ............... im Raum IC 03-610; siehe VL Nr. 127006</td>
<td></td>
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</tr>
</tbody>
</table>

Meschke, Günther wiss. Mitarbeiter /-innen

Course description:
siehe VL Nr. 127006

127506 Computational Plasticity (MSc-CE-WP12 und MSc-MB)
<table>
<thead>
<tr>
<th>Lecture</th>
<th>Monday</th>
<th>13:00-16:00</th>
<th>IC 04/408</th>
<th>Start 09.10.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 SWS</td>
<td></td>
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</table>

Hoppe, Ulrich

127503 Computational Wind Engineering (MSc-CE-WP14)
<table>
<thead>
<tr>
<th>Lecture</th>
<th>Tuesday</th>
<th>12:15-13:45</th>
<th>IC 03/647</th>
<th>Start 10.10.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 SWS</td>
<td></td>
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</tbody>
</table>

Höffer, Rüdiger
### Dynamics of Structures (MSc-CE-WP11)

**Lecture**
- Wednesday 8:30 Uhr bis 10:00 Uhr im IC 03-606 und Thursday 14:15 bis 15:45 Uhr im IC 03-653

**Course description:**
Wednesday 8:30 Uhr bis 10:00 Uhr im IC 03-606 und Thursday 14:15 bis 15:45 Uhr im IC 03-653

**Instructors:** Höffer, Rüdiger; Meschke, Günther

### Parallel Computing (MSc-CE-WP16)

**Lecture**
- Tuesday 14:15-15:45 IC 04/628 CIP-Pool
- Friday 14:15-15:45 IC 04/628 CIP-Pool

**Exercise course**
- Tuesday 14:15-15:45 IC 04/628 CIP-Pool
- Friday 14:15-15:45 IC 04/628 CIP-Pool

**Instructors:** König, Markus; Lehner, Karlheinz

### Safety and Reliability of Engineering Structures (MSc-CE-WP18)

**Lecture**
- Monday 09:30-11:00 IC 03/606
- Thursday 10:00-12:00 IC 03/606

**Instructors:** Kasperski, Michael

### Technische Optimierung / Design Optimization (MSc-BI-WP7, MSc-UTRM-W und CE-WP15)

**Lecture**
- Wednesday 12:15-13:45 IC 04/628 CIP-Pool
- Thursday 08:30-10:00 IC 04/630 CIP-Pool

**Exercise course**
- Wednesday 12:15-13:45 IC 04/628 CIP-Pool
- Thursday 08:30-10:00 IC 04/630 CIP-Pool

**Instructors:** König, Markus; Lehner, Karlheinz

### Finite Element Methods in Linear Structural Mechanics (MSc-CE-P05)

**Lecture**
- Monday 08:30-10:00 HIC
- Friday 08:15-09:45 IC 03/610

**Instructors:** Meschke, Günther

*Erster Termin am ............. 08:30 Uhr bis 10 Uhr im Raum IC 03-610*
For more information about the Faculty of Electrical Engineering and Information Technology, see page 12.

This faculty has one Master taught in English:

- Lasers and Photonics
Faculty of Mechanical Engineering

137017 **Materials for Aerospace Applications**
Lecture Friday 09:00-12:00 IC 04/408 Start 13.10. 
4 SWS Bartsch, Marion

139900 **Porous Materials**
Lecture Monday 08:00-10:00 IC 03/441 Start 09.10. 
4 SWS Monday 10:00-12:00 IC 03/444-414 Start 09.10. Frerich, Sulamith

136401 **Surface Science and Corrosion (Werkstoffoberflächen und Korrosion)**
Lecture Wednesday 12:00-15:00 IC 04/414-442 Start 22.11. 
4 SWS Rohwerder, Michael Stratmann, Martin

440108 **Computational Fracture Mechanics**
Lecture Monday 16:00-18:00 IC 02/514-522 CIP-Pool Start 16.10. 
4 SWS Start 16.10. / 6 CP Friday 08:00-10:00 IC 02/718. Start 20.10. Hartmaier, Alexander

Course description:
The students attain the ability to independently simulate fracture including plasticity for a wide range of materials and geometries. Based on the acquired understanding of the different types of brittle fracture and ductile failure of materials, they are enabled to choose appropriate fracture models and to implement them in a finite element environment. They gain sufficient knowledge about the theoretical background of the different types of fracture models, to study the relevant literature independently. On an engineering level, the students are able to discriminate between situations, where cracks in a structure or component can be tolerated or under which conditions cracks are not admissible, respectively.

440603 **Multiscale Modelling in Materials Science**
Lecture Tuesday 08:00-12:00 IC 02/718. 
4 SWS Start 10.10. / 6 CP Tuesday 08:00-12:00 IC 02/514-522 CIP-Pool Start 10.10. Drautz, Ralf Hammerschmidt, Thomas Hartmaier, Alexander
Solidification Processing

Lecture  Friday 12:30-14:00  IC 03/647  Start 13.10.  Steinbach, Ingo
mit  Friday 14:15-15:45  IC 02/514-522 CIP-Pool
Exercise  Start 20.10.
course  first lecture on 20.10.2017. The lecture will be offered
4 SWS /  in English or German depending on the audience.
6 CP

Course description:
Topics:
Overview about history of casting, fields of applications, economic impact.
Thermodynamics of alloys
Fundamentals of solidification
Mold materials, molding, mold filling, recycling
Module calculation, casting simulation, optimization of feeding
Shape casting, pressure die casting
Directional solidification, continuous casting
Rapid solidification and advanced solidification processes (centrifugal-, tixo-, rheo-casting)
Casting defects, microstructure-property relations

Assessment methods:
Successful participation in exercises
Written exam

Requirements:
Students should have basic knowledge of alloy thermodynamics and structure formation in materials science

Variational Calculus and Tensor Analysis (MSc-CE-WP1 und BSc-MB)

Lecture  Thursday  15:00-17:00  HZO 100  Start 12.10.  Le, Khanh
mit  Friday  12:00-14:00  HZO 90  Start 13.10.  Chau
Exercise
course  3 SWS

Computational Plasticity (MSc-CE-WP12 und MSc-MB)

Lecture  Monday  13:00-16:00  IC 04/408  Start 09.10.  Hoppe, Ulrich
3 SWS
NATURAL SCIENCES

Faculty of Mathematics

125500 Mathematics - Mathematical Aspects of Differential Equations and Numerical Mathematics (MSc-CE-P01)

<table>
<thead>
<tr>
<th>Lecture</th>
<th>Wednesday</th>
<th>10:00-12:00</th>
<th>NC 6/99</th>
<th>Start 11.10.</th>
<th>Bramham, Barney</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 SWS</td>
<td>Thursday</td>
<td>10:00-12:00</td>
<td>NB 5/99</td>
<td>Start 12.10.</td>
<td></td>
</tr>
</tbody>
</table>

zzgl. 2 SWS Übungen, 14-täg. n.V.

Course description:
zzgl. 2 SWS Übungen, 14-täg. n.V.

150330 Advanced Course in Statistical Methods

<table>
<thead>
<tr>
<th>Lecture</th>
<th>Monday</th>
<th>08:00-12:00</th>
<th>HZO 90</th>
<th>Individual event: 04.09.</th>
<th>Bissantz, Nicolai</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 SWS</td>
<td>Tuesday</td>
<td>08:00-12:00</td>
<td>HZO 90</td>
<td>Individual event: 05.09.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Wednesday</td>
<td>08:00-12:00</td>
<td>HZO 90</td>
<td>Individual event: 06.09.</td>
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<tr>
<td></td>
<td>Thursday</td>
<td>08:00-12:00</td>
<td>HZO 90</td>
<td>Individual event: 07.09.</td>
<td></td>
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<tr>
<td></td>
<td>Monday</td>
<td>08:00-12:00</td>
<td>HZO 90</td>
<td>Individual event: 11.09.</td>
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<tr>
<td></td>
<td>Tuesday</td>
<td>08:00-12:00</td>
<td>HZO 90</td>
<td>Individual event: 12.09.</td>
<td></td>
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<tr>
<td></td>
<td>Wednesday</td>
<td>08:00-12:00</td>
<td>HZO 90</td>
<td>Individual event: 13.09.</td>
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</tr>
</tbody>
</table>

Die genauen Zeiten können gemeinsam mit den Teilnehmern noch abgesprochen werden. Bei Fragen diesbezüglich melden Sie sich bitte bei Herrn Bissantz (nicolai.bissantz@rub.de).

Course description:
The course considers quantitative methods in different kinds of statistical data analysis, providing both an overview on statistical data analysis and insight into the most important statistical methods. An important part of the course will be practical examples. In more detail, the course will have the following sections:
- Descriptive statistics and some basics of probability theory
- Confidence intervals
- Statistical testing (1): basic ideas and some important tests
- Statistical testing (2): t-test, F-test and ANOVA
- The linear model
- Non-parametric methods
- Multivariate statistics

Requirements:
Prerequisites/target group of this course: doctoral students of all faculties.
150560 Seminar über Real World Cryptanalysis

Seminar richtet sich an Studierende des B.Sc. und M.Sc. May, Alexander

Tuesday 10:00-12:00 NA 4/64 Start 10.10.

2 SWS / 4 CP

Course description:
Eine Vorbesprechung findet am Donnerstag, 27.07.2017 um 12:00 Uhr (ct) in NA 1/58 (Friedrich-Sommer-Raum) statt.
Faculty of Physics and Astronomy

160601 Interstellar Medium
Lecture Tuesday 14:00-16:00 NA 7/32 Start 10.10. Chini, Rolf
2 SWS

Course description:
Im ersten Teil der Lecture wird die Interstellare Materie behandelt. Hier geht es um die Bestandteile Gas, Staub und Kosmische Strahlung sowie die assoziierten Strahlungsprozesse und die Bildung von Molekülen. Im zweiten Teil geht es um die Entstehung von Sternen und Planeten. Informationen zu Prüfungsmodalitäten s. Modulhandbücher.

Requirements:
Der Stoff der Veranstaltung Grundlagen der Astronomie sollte bekannt sein. Alle zum Verständnis notwendigen physikalischen Voraussetzungen werden in der Lecture erarbeitet.

Bibliographical reference:
E. Krügel: An Introduction to the Physics of Interstellar Dust (2008)||
J. Lequeux: The interstellar medium (2005)||
D. Osterbrock: Astrophysics of Gaseous Nebulae and AGN||
L. Spitzer: Physical Processes in the Interstellar Medium||
M. Dopita / R. Sutherland: Astrophysics of the Diffuse Universe||

160604 Extrasolar Planets
Lecture Monday 14:00-16:00 NA 7/32 Start 09.10. Chini, Rolf
2 SWS

Course description:
Kommentar:

Requirements:
Grundlagen der Astronomie empfohlen.
**160605 Extrasolar Planets (Exercises)**

Exercise course Die Übungen finden nur nach CP-Bedarf und nach Abstimmung mit den Studierenden statt. 
Chini, Rolf
1 SWS

**Requirements:**
Teilnahme an der Lecture

---

**160607 Nonthermal Astrophysics**

Lecture Thursday 15:00-18:00 NB 7/67 14tgl. Start Schlickeiser, Reinhard
2 SWS 26.10.

**Course description:**
Gliederung:
Technische Grundlagen der Röntgenastronomie
Astrophysikalische Prozesse im Röntgenbereich
Charakterisierung der Objektklassen von astrophysikalischen Röntgenemittern

**Requirements:**
Kenntnis der Grundlagen der Astronomie

**Bibliographical reference:**
Wir in der Lecture bekannt gegeben

---

**160603 X-ray Astronomy**

Lecture Thursday 14:00-16:00 NA 7/32 Start 12.10. Bomans, Dominik J.
Weis, Kerstin
2 SWS

**Course description:**
Gliederung:
Technische Grundlagen der Röntgenastronomie
Astrophysikalische Prozesse im Röntgenbereich
Charakterisierung der Objektklassen von astrophysikalischen Röntgenemittern

**Requirements:**
Kenntnis der Grundlagen der Astronomie

**Bibliographical reference:**
Wir in der Lecture bekannt gegeben

---

**160608 Stars, Winds, Nebulae**

Lecture NA 7/51 Monday 14:15-15:45 Uhr Weis, Kerstin
2 SWS

**Course description:**
Gliederung:
Technische Grundlagen der Röntgenastronomie
Astrophysikalische Prozesse im Röntgenbereich
Charakterisierung der Objektklassen von astrophysikalischen Röntgenemittern

**Requirements:**
Kenntnis der Grundlagen der Astronomie

**Bibliographical reference:**
Wir in der Lecture bekannt gegeben
### Computational Applications in Nuclear Astrophysics Using JAVA

**Lecture**
- Friday 11:00-12:45
- NB 6/99
- Start 13.10.
- 2 SWS
- Friday, 12-13.45 Uhr, NB 2/170

**Exercises**
- Friday 13:15-15:00
- NB 6/99
- Start 13.10.
- 2 SWS

Instructor: James Ritman, Elisabetta Prencipe

### Spectroscopy of Atoms and Ions

**Lecture**
- Friday 14:15-16:00
- NB 02/99
- Start 13.10.
- 2 SWS
- nach Bedarf auf deutsch/englisch

Instructor: Elmar Träbert

---

**Course description:**


Requirements:
Physik III (Atomphysik)

Bibliographical reference:

160623  **Astrophysical Fluids, Plasmas and Shocks**
Lecture  Dienstag 12.00-14.00 NA 7 / 32  
2 SWS

160621  **Selected Topics of Astronomy (Seminar)**
Seminar  Friday 10:00-12:00 NA 7/32 Start 13.10.  
2 SWS  Topics will be presented in an introductory talk, date see http://www.astro.ruhr-uni-bochum.de/  
Bomans, Dominik J.  
Chini, Rolf  
Dettmar, Ralf-Jürgen

Requirements:  
Kenntnis des Stoffs der Grundlagen der Astronomie und der Einführung in die Astrophysik

Bibliographical reference:  
Die erforderliche Literatur wird vom jeweiligen Vortragsbetreuer angegeben.

160622  **Theoretical Astro-Particlephysics (Seminar)**
Seminar  Wednesday 16:00-18:00 NB 7/67 Start 11.10.  
2 SWS

160624  **Advanced Laboratory: Observational Astronomy**
Praktikum  compact course (part of the advanced laboratory course for physics students)  
Bomans, Dominik J.  
Chini, Rolf  
Dettmar, Ralf-Jürgen

Course description:  
**Requirements:**
Vorauss: Die Lecture "Grundlagen der Astronomie" muss erfolgreich absolviert sein. Die Teilnahme an der Lecture "Methoden und Instrumente der Astrophysik" ist eine sehr sinnvolle Vorbereitung.

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Type</th>
<th>Weekdays</th>
<th>Start Date</th>
<th>Location</th>
<th>Instructor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>160250</td>
<td>Fortgeschrittenen-Praktikum für Physikerinnen und Physiker / Advanced Laboratory Course for Physics Students</td>
<td>Praktikum</td>
<td>Wednesday</td>
<td>11.10.</td>
<td>HGB 30</td>
<td>Krebs, Hermann, Reicherz, Gerhard</td>
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<td>Informationen zu Inhalten, Prüfungsmodalitäten etc. s. Modulhandbücher</td>
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<tr>
<td>160404</td>
<td>Quantum Field Theory I</td>
<td>Lecture</td>
<td>Tuesday</td>
<td>10.10.</td>
<td>NB 6/173</td>
<td>Krebs, Hermann</td>
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<td>14:15-15:45</td>
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<td>160405</td>
<td>Quantum Field Theory I (Exercises)</td>
<td>Exercise course</td>
<td>Thursday</td>
<td>12.10.</td>
<td>NB 3/158</td>
<td>Krebs, Hermann</td>
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<td></td>
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<td>14:15-15:45</td>
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<tr>
<td>160406</td>
<td>Symbolic Computation in Mathematica</td>
<td>Lecture</td>
<td></td>
<td></td>
<td></td>
<td>Krebs, Hermann</td>
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<td></td>
<td></td>
<td></td>
<td>2 SWS</td>
<td></td>
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<tr>
<td>160409</td>
<td>Hadron Spectroscopy</td>
<td>Lecture</td>
<td>Thursday</td>
<td>12.10.</td>
<td>NB 2/99</td>
<td>Pelizäus, Marc</td>
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<td>14:00-15:30</td>
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<td></td>
<td>Requirements:</td>
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<tr>
<td></td>
<td>Einführung in die Kern- und Teilchenphysik</td>
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</tr>
</tbody>
</table>
160420 **Experimental Methods in Nuclear and Particle Physics (Seminar)**
Seminar  Tuesday  08:00-10:00  NB 2/158  Start 17.10.  Wiedner, Ulrich
2 SWS

**Course description:**
Inhalte:
Aktuelle experimentelle Forschungsergebnisse in der Kern- und Teilchenphysik
- Funktionsweise von Detektoren für Elementarteilchen
- Techniken zur Messdatenaufnahme und -verarbeitung
- Mathematische Grundlagen für die Datenanalyse

160421 **Detectors for Particle Physics (Seminar)**
Seminar  Tuesday  10:00-12:00  NB 2/158  Start 17.10.  Wiedner, Ulrich
Heinsius, Fritz-Herbert
2 SWS

**Course description:**
Inhalt:
Erörterung aktueller Fragen zur Entwicklung von Detektoren der Teilchen- und Kernphysik
Lernziele:
Einblick in die Entwicklung von Detektoren. Lösen physikalischer Fragestellungen.

Requirements:
Das Seminar richtet sich vorwiegend an fortgeschrittene Studenten und Doktoranden.

160419 **Seminar on Methods in Hadron Physics (Seminar)**
Seminar  2 SWS  Fritsch, Miriam

**Course description:**
Inhalte:
Aktuelle experimentelle Forschungsergebnisse in der Kern- und Teilchenphysik
- Funktionsweise von Detektoren für Elementarteilchen
- Techniken zur Messdatenaufnahme und -verarbeitung
- Mathematische Grundlagen für die Datenanalyse

160418 **Seminar zur Hadronenphysik / Seminar on Hadron Physics**
Seminar  2 SWS  Fritsch, Miriam
160422 **Selected Topics of Hadron Physics: Effective Field Theories for Few-Nucleon Systems (Seminar)**
Seminar  
2 SWS  
*Epelbaum, Evgeny*

160423 **Relativistic Quantum Field Theory (Seminar)**
Seminar  
Monday  
14:00-16:00  
NB 6/173  
Start 09.10.  
*Polyakov, Maxim*

**Course description:**
Inhalte:
Dirac-Theorie  
Felder von Bosonen und ihre Quantisierung  
Felder von Fermionen und ihre Quantisierung  
Quantisierung des Photonenfeldes  
Störungstheorie in der Quantenelektrodynamik  
Einfache elementare Prozesse

Lernziele:
Das Grundlegendes Verständnis von:
relativistischer Quantenfeldtheorie  
Störungstheorie und Feynman-Diagramme  
Anwendung auf Prozesse zwischen Elementarteilchen

Informationen zu Prüfungsmodalitäten s. Modulhandbücher

**Requirements:**
Kennenisse in "Quantenmechanik I"

160501 **Introduction to Plasma Physics II**
Lecture  
Tuesday  
16:00-18:00  
NB 5/158  
Start 10.10.  
*Schulz-von der Gathen, Volker*

3 SWS  
Friday  
12:00-14:00  
NB 5/158  
Start 13.10.

160502 **Introduction to Plasma Physics II (Exercises)**
Exercise course  
Friday  
09:00-10:00  
NB 5/158  
Start 13.10.  
*Schulz-von der Gathen, Volker*

2 SWS

160505 **Mathematical Topics in fluids and Plasmas**
Lecture  
Blockveranstaltung winter 2018  
*Grauer, Rainer*
Course description:
In this lecture, we will introduce the basics of magnetic confinement of high temperature fusion plasmas and describe the challenges and concepts for first wall materials.

Requirements:
Grundlagen der Plasmaphysik

Bibliographical reference:
Michael Kaufmann, Plasmaphysik und Fusionsforschung, Teubner 2003

Course description:
Inhalt:
Lernziele:
Die Studierenden lernen in diesem Kurs die Grundlagen der Atommodelle der Plasmaspektroskopie und ihre Anwendung auf Labor- und astrophysikalische Plasmen.

Besonderheit:
Einführung in freizugängliche Codes für die Berechnung der Atomstruktur und der Linienintensität.

Bibliographical reference:
P.H.Heckmann, E.Träbert "Einführung in die Spektroskopie der Atomhülle", Vieweg, Braunschweig 1980

160516 Modeling of Atomic Populations in the Spectroscopy of Laboratory and Astrophysical Plasmas (Exercises)
Exercise course Thursday 16:00-17:00 NA 2/99 Start Marchuk, Oleksandr
1 SWS

160522 Applied Plasma Physics (Seminar)
Seminar Thursday 16:15-17:45 NB 5/158 Start Böke, Marc
12.10.
Schulz-von der Gathen, Volker von Keudell, Achim
2 SWS

160523 Compact Course: "Low Temperature Plasma Physics: Basis and Applications" and Master Class "Low Temperature Plasma Physics in Fusion"
Blockseminar "Low Temperature Plasma Physics: Basis and Applications"

1 SWS

160301 Scientific Methods of Semiconductor Physics
Lecture Tuesday 10:00-11:30 NB 6/173 Start 10.10. Wieck, Andreas
2 SWS Tuesday 10:00-11:30 NABF 03/251 Start 10.10. Andreas

160302 Scientific Methods of Semiconductor Physics (Exercises)
Exercise course Tuesday 11:30-12:30 NB 6/173 Start Wieck, Andreas
1 SWS 10.10.
Tuesday 11:30-12:30 NABF 03/251 Start
Course description:
Course description:
Inhalte:

Lernziele:
Vertriefte Kenntnis auf Spezialgebieten der Festkörperphysik, insbesondere der Oberflächenphysik, des Magnetismus und der Supraleitung

Informationen zu Prüfungsmodalitäten s. Modulhandbücher

Requirements:
erfolgreiches Studium bis zum 4. FS, Grundkenntnisse der Festkörperphysik

Bibliographical reference:
zu den einzelnen Vorträgen

Course description:
Inhalte:
Themen der mesoskopischen Physik, die am LS bearbeitet werden

Lernziele:
Selbstständiges Erarbeiten eines Themas anhand wissenschaftlicher Literatur; Präsentation eines wiss. Vortrages; Heranführen an aktuelle Forschungsthemen

Informationen zu Prüfungsmodalitäten etc. s. Modulhandbücher

Requirements:
Kursvorlesungen zu Quantenmechanik und Festkörperphysik
Selected Topics of Solid State Physics Theory (Seminar)

Seminar Tuesday 16:00-18:00 NB 6/73 Start 10.10. Efetov, Konstantin Eremin, Ilya

2 SWS

Course description:
Themen:
aktuelle Probleme der theoretischen Festkörperphysik

Inhalte:
Physik des Quanten-Hall-Effekts

Lernziele: Selbstständiges Erarbeiten eines Themas anhand wissenschaftlicher Literatur; Präsentation eines wiss. Vortrages

Informationen zu Prüfungsmodalitäten s. Modulhandbücher

Requirements:
Grundkenntnisse in Quantenmechanik und Festkörperphysik

Bibliographical reference:
Janßen et al., Introduction to the Theory of the Integer Quantum Hall Effect, VCH 1994; .... Prange, Girvin

Compact Course: Practical Exercises in Semiconductor Technology

Block- praktiku Informations: http://www.ruhr-uni-bochum.de/afp/?l=hlpraktikum Wieck, Andreas Ludwig, Arne

Course description:
Einführung in die Halbleitertechnologie mittels einer Kombination aus Vorlesungen und praktischen Übungen.
Die Studenten stellen selbst einen Feldeffekttransistor her.
Weitere Informationen im Sekretariat des Lehrstuhls für Angewandte Festkörperphysik (NB 03/58) und bei Herrn Dr. Reuter (NB 03/34) oder unter http://www.rub.de/afp
Faculty of Geosciences

170096 | Microeconomics of Competitiveness: Firms, Clusters and Economic Development
Seminar | Monday | 14:00-17:00 | NA 7/128 | Start 09.10.
3 SWS
Hundt, Christian
Kiese, Matthias

170097 | Changing landscapes under contemporary processes of peri-urbanization
Seminar | Monday | 17:00-20:00 | NA 7/158
3 SWS / 6 CP
Individual event: 06.11.
Individual event: 07.11.
Individual event: 08.11.
Individual event: 09.11.
Individual event: 10.11.
Individual event: 06.11.
Individual event: 07.11.
Individual event: 08.11.
Individual event: 09.11.
Individual event: 10.11.
La Rosa, Daniele
Kiese, Matthias

170200 | Urban and Regional Planning in Germany
Lecture | Tuesday | 10:00-16:00 | NA 7/128
2 SWS | Wednesday | 10:00-16:00 | NA 7/128
Individual event: 26.09.
Individual event: 27.09.
Feldhoff, Thomas
Held, Thomas

Course description:
Teil Feldhoff am 26.9. und 27.9. 2017 von 10-16 Uhr in NA 7/128
Teil Held 5 Termine Montags in NA 5/130 von 10-12 Uhr

170202 | Planning Theory and Practice
Seminar | Tuesday | 12:00-16:00 | NA 4/175 | Start 10.10.
4 SWS
als Wahlmodul möglich nur für Master: Stadt- und Landschaftsökologie und Stadt- und Regionalentwicklung
Merkle, Uta

Course description:
The Ruhr Lecture takes place on 6 dates on Thursdays, 17-20 Uhr
### 170203 Transformation of Urban Landscapes: Analytical Concepts, Methods and Applications (ACOMAP)

| Seminar | Monday 16:00-18:00 | NA 4/175 | Farwick, Andreas |
The|---|---|---|
| 6 SWS | Start 09.10. | | Heinze, Stefanie |
| | Wednesday 08:00-12:00 | NA 5/172 CIP-Raum | Inostroza, Luis |
| | Start 11.10. | | Kiese, Matthias |
| | | | Trachte, Katja |

### 170201 Autumn School Ruhr "Introduction into the Transformation of Urban Landscapes in the Metropolitan Region Ruhr"

<table>
<thead>
<tr>
<th>Seminar</th>
<th>Monday 09:00-12:00</th>
<th>NA 01/130</th>
<th>Zepp, Harald</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 SWS</td>
<td>Start 09.10.</td>
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<tr>
<td></td>
<td>Exkursionswoche, Abschlussprüfung im laufenden Semester</td>
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</tbody>
</table>
For more information about the Faculty of Chemistry and Biochemistry, see page 13.

This faculty has three Masters taught in English:

- Master of Science in Biochemistry
- Master of Science in Chemistry
- Molecular Sciences (iMOS)
Faculty of Biology and Biotechnology

190523 **Ringvorlesung Neurobiologie (2-semestrig)**
              Start: 16.10.2017; Pflichtveranstaltung für M.Sc.-Studierende mit dem Schwerpunkt Neurobiologie

190522 **Ringvorlesung Biotechnology**
Lecture  Wednesday  12:00-13:30  ND 2/99  2 SWS  Start 11.10.
                  Friday 10:00-11:00  NDEF 06/398
                  Individual event: 16.02.
                  Pflichtveranstaltung für M.Sc.-Studierende mit dem Schwerpunkt Biotechnologie, in englischer Sprache

190533 **Lecture: Einführung in die Bioinformatik**
Lecture  Friday, 08.15 s.t. - 09.45 Uhr, Ort: HGA 20, 1.  2 SWS  Lecture: 13.10.2017, 08.15 Uhr, in englischer Sprache / 3 CP

190596 **Literaturseminar und Kolloquium zu den Forschungsarbeiten der NG Zelluläre Neurobiologie**
Seminar /  ND 5/63, Mittwoch, 1 St., ganzjährig, in englischer Sprache, n.V.
Moderne Methoden der Life Sciences: Kultur und Analyse embryonaler Hippocampusneurone unter definierten Bedingungen, retinaler Stammzellen und von Neurosphären

Einführung Introductory Course (3-5 days = 1/1,5/2 CP), according to prior agreement

Faissner, Andreas
Gottschling, Christine
Reinhard, Jacqueline
Theocharidis, Ursula

Requirements:
Master-Abschluss

Moderne Methoden der Life Sciences: Videomikroskopie und Konfokale Laser Scanning Mikroskopie

Einführung Introductory course (3-5 days = 1/1,5/2 CP), according to prior agreement

Faissner, Andreas
Klausmeyer, Alice
Reinhard, Jacqueline
Schaberg, Elena
Wiemann, Susanne

Requirements:
Master-Abschluss
### Pathology of Degenerative Diseases

**Lecture**
Monday und Tuesday 13.00-15.00, MA 5/61, siehe Aushang

Brand-Saberi, Beate E.M.
Faustmann, Pedro M.
Milting, Hendrik
Mügge, Andreas
Napirei, Markus
Tatzelt, Jörg
Vorgerd, Matthias
Winklhofer, Konstanze F.

### Kolloquium über neuere Arbeiten auf dem Gebiet der Biochemie

**Seminar**
Friday 12:00-14:00
Raum: s. gesonderten Aushang 14tgl.
Start 20.10.

Winklhofer, Konstanze F.
Dozent(inn)en d. Inst. für Biochem. u. Pathobioch.

### Anleitung zu wissenschaftlichem Arbeiten: Physiologische Chemie (mit Seminar)

**Seminar**
n.V., MA-Nord, Etage 2-4

Tatzelt, Jörg
Winklhofer, Konstanze F.
Dozent(inn)en d. Inst. für Biochem. u. Pathobioch.

### Exercise course für Fortgeschrittene, S-Block: Signalwege der zellulären Qualitätskontrolle und Stressantwort

S-Block
n.V., gtg., 6wöchig, ganzjährig

Winklhofer, Konstanze F.
und Mitarbeiter /-innen,

### Kolloquium zu laufenden Forschungsarbeiten der Arbeitsgruppe der molekularen Zellbiologie

**Seminar**
Wednesday 08:00-10:00 MA 2/139

Winklhofer, Konstanze F.
Dozent(inn)en d. Inst. für Biochem. u. Pathobioch.

### Modular Advanced Practical in the Focal Point Programme "Molecular Medicine"

**Praktikum**

i.a. Brüning, Thomas

4,5 SWS / 4 CP
185982 **Research Practical in the Focal Point Programme**
Praktikum
13 SWS / 14 CP

185983 **Seminar to the Research Practical in the Focal Point Programme**
"Molecular Medicine"
Seminar
0,8 SWS

209852 **Seminar to the Modular Advanced Practical in the Focal Point Programme**
"Molecular Medicine"
Seminar
i.a. Brüning, Thomas

209836 **Übungen für Fortgeschrittene, S-Block: Physiologische Chemie, Biochemie von Zellorganellen**
S-Block n.V., gtg., 6-wöchig, Zentrum für Biochemie und Pathobiochemie

209841 **Aktuelle Themen und Methoden der molekularen Zellbiologie**
Seminar Friday 14:00-14:45 MA 4/140 Start 13.10.
Präsentation und Diskussion in englischer Sprache, Zentrum für Biochemie und Pathobiochemie

i.a. Erdmann, Ralf
Course description:
This course provides an introduction into the theoretical cognitive and systems neurosciences from a particular theoretical vantage point, the dynamical systems approach. This approach emphasizes the evolution in time of behavioral and neural patterns as the basis of their analysis and synthesis. Dynamic stability, a concept shared with the classical biological cybernetics framework, is one cornerstone of the approach. Instabilities (or bifurcations) extend this framework and provide a basis for understanding flexibility, task specific adjustment, adaptation and learning.

The course includes tutorial modules which provide mathematical foundations. Theoretical concepts are exposed in reference to a number of experimental model systems which will include the coordination of movement, postural and configurational stability, the perception of motion and elementary forms of spatial cognition. In the spirit of Braitenberg’s "synthetic psychology", autonomous robots will be used to illustrate some of the ideas.

Exercises are integrated into the lectures. They consist of elementary mathematical exercises, the design of (thought) experiments and their analysis and the design of simple artificial systems, all on the basis of the theoretical framework exposed in the main lectures. Learning to produce scientific texts with appropriate illustrations and documenting mathematical ideas is one of the learning goals of the course.

Some of the exercises refer to readings, scientific papers that students will study to do the exercises. Learning to read and understand research papers is another learning goal of the course.

Requirements:
This course requires some basic math preparation, typically as covered in two semesters of higher mathematics (functions, differentiation, integration, differential equations, linear algebra). The course does not make extensive use of the underlying mathematical techniques, but uses the mathematical concepts to express scientific ideas. Students without prior training in the relevant mathematics may be able to follow the course, but will have to work harder to familiarize themselves with the concepts.
### Artificial Neural Networks

<table>
<thead>
<tr>
<th>Lecture mit</th>
<th>Exercise course</th>
<th>Time</th>
<th>Location</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Friday</td>
<td>Start 13.10.</td>
<td>12:15-14:00</td>
<td>HZO 100</td>
<td>Würtz, Rolf P.</td>
</tr>
</tbody>
</table>

**Bibliographical reference:**
C. M. Bishop, Neural Networks for Pattern Recognition, 1995 Clarendon Press, Oxford.

S. Haykin, Neural Networks and Learning Machines, 3rd edition, 2003, Pearson, New Jersey

### Machine Learning: Evolutionary Algorithms

<table>
<thead>
<tr>
<th>Lecture mit</th>
<th>Exercise course</th>
<th>Time</th>
<th>Location</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Friday</td>
<td>Start 27.10.</td>
<td>10:15-13:45</td>
<td>NB 3/57</td>
<td>Glasmachers, Tobias</td>
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</table>

**Bibliographical reference:**
For most topics a script will be available

### Machine Learning: Unsupervised Methods

<table>
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<tr>
<th>Lecture mit</th>
<th>Exercise course</th>
<th>Time</th>
<th>Location</th>
<th>Instructor</th>
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</thead>
<tbody>
<tr>
<td>Tuesday</td>
<td>Start 10.10.</td>
<td>12:15-13:45</td>
<td>NB 3/57</td>
<td>Wiskott, Laurenz</td>
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</table>

**Bibliographical reference:**
For most topics a script will be available

### V Introduction to Perception

<table>
<thead>
<tr>
<th>Lecture</th>
<th>Time</th>
<th>Location</th>
<th>Start</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
<td>10:00-12:00</td>
<td>GA 04/187</td>
<td>09.10.</td>
<td>Cheng, Sen</td>
</tr>
</tbody>
</table>

**Requirements:**
keine

**Bibliographical reference:**
Sensation and Perception by E. Bruce Goldstein, 8th or 9th ed, Wadsworth

### Artificial Neural Networks I - IV

<table>
<thead>
<tr>
<th>Exercise course</th>
<th>Time</th>
<th>Location</th>
<th>Start</th>
<th>Instructor</th>
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</thead>
<tbody>
<tr>
<td>Wednesday</td>
<td>14:00-18:00</td>
<td>ND 03/99</td>
<td>11.10.</td>
<td>Würtz, Rolf P.</td>
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</tbody>
</table>

**Course description:**
s. Lecture 310 002
Course description:
s. Lecture 310003

Bibliographical reference:
"The Cambridge Handbook of Computational Psychology" edited by Ron Sun, Cambridge University Press + modeling papers announced in class
Interdisciplinary Centre For Advanced Materials Simulation (ICAMS)

<table>
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<tr>
<th>Code</th>
<th>Course description</th>
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<tbody>
<tr>
<td>440603</td>
<td><strong>Multiscale Modelling in Materials Science</strong></td>
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<tr>
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<td>Lecture Tuesday 08:00-12:00 IC 02/718. Start 10.10. Drautz, Ralf</td>
</tr>
<tr>
<td></td>
<td>4 SWS Tuesday 08:00-12:00 IC 02/514-522 CIP- Hammerschmidt, Thomas</td>
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<tr>
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<td>/ 6 CP Pool Start 10.10. Hartmaier, Alexander</td>
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</tbody>
</table>

<table>
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<tr>
<th>Code</th>
<th>Course description</th>
</tr>
</thead>
<tbody>
<tr>
<td>440402</td>
<td><strong>Elements of Microstructure</strong></td>
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<tr>
<td></td>
<td>Lecture Wednesday 13:30-15:30 IC 02/718. Start 11.10. Eggeler, Gunther</td>
</tr>
<tr>
<td></td>
<td>2 SWS Somsen, Christoph</td>
</tr>
<tr>
<td></td>
<td>/ 3 CP</td>
</tr>
</tbody>
</table>

**Course description:**
Students will develop a first qualitative and comprehensive view of all basic elements of materials science and engineering, which are important to understand the evolution of materials microstructure during processing and service. They learn basic facts about the solid state, about crystal defects, about thermodynamic stability, about materials kinetics and about phase transformation. They also acquire basic knowledge about materials characterization. With these basics about microstructures and their characterisation they are enabled to study and understand advanced textbooks on materials science independently.

**Requirements:**
This course is an introduction to the microstructure of engineering materials. It is targeted towards students of the Master's Course "Materials Science and Simulation", but is also open to all other students, postdocs and guests who are interested in the basic principles underlying materials microstructures and methods for their analysis.

All lectures and course materials will be in English.
Continuum Methods in Materials Science

Course description:
Students understand the underlying principles of the finite element/finite volume method to solve problems in continuum mechanics including phase transformations. They are familiar with mean-field models and rate equation solutions. With the phase field method they are able to solve free boundary problems coupled to a thermodynamic material description. With the help of these widely used numerical methods in industrial and academic materials science the students have acquired the skills to model and solve materials science problems and they also understand the limitations of these methods.

Requirements:
Completion of modules “Assessment and Description of Materials Properties” and “Statistical Physics and Thermodynamics” or equivalent.

Atomistic Simulation Methods

Drautz, Ralf
Publishing Details

Edited and Published by:

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D-44780 Bochum

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