# 2022/23

Please keep in mind the year of validity.

FACULTY OF MANAGEMENT, ECONOMICS AND SOCIAL SCI-ENCES

UNIVERSITY OF COLOGNE

VICE DEAN OF STUDIES DEPARTMENT

Valid for students of the Examination Regulations 2015

(enrolment for winter semester 2020/21 at the latest)



# **MODULE CATALOGUE**

**INFORMATION SYSTEMS** 

MASTER OF SCIENCE

IN ACCORDANCE WITH THE EXAMINATION REGULATIONS FOR THE SINGLE MAJOR MASTER PROGRAMME IN INFORMATION SYSTEMS



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| Status             | Taking effect on 01/10/2022  |

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# List of abbreviations

| AS   | Assignment                            | PRES | Presentation                                      |
|------|---------------------------------------|------|---|
| С    | Course                                | PRP  | Project Report                                    |
| CC   | Compulsory course                     | SI   | Studium Integrale                                 |
| СН   | Contact hours (= time spent in class) | SM   | Specialisation module                             |
| СМ   | Core module                           | SPM  | Supplementary module                              |
| CS   | Case study                            | SPW  | Semester period per week                          |
| EC   | Elective course                       | SSt  | Self-study  |
| ECTS | Credit point (ECTS)                   | TP   | Term paper  |
| OE   | Oral examniation                      | TPF  | Time required for preparation and follow-up       |
| PCR  | Practical component report            | TR   | Credit points transferred from another university |
| РО   | Portfolio                             | WL   | Workload  |
| PR   | Project                               | WT   | Written test                                      |

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# 1 Information Systems

#### 1.1 Content and objectives of the programme

Information Systems is an independent interdisciplinary subject area, which has its roots in computer science and economics, in particular business administration.

Studying Information Systems opens up a wide range of applications for graduates at the interface of business administration and computer science, especially in the planning, development and introduction as well as operation of information systems. In this context, business IT specialists perform a translation function between the business world of thought and language on the one hand and a technically anchored system environment on the other. In particular business computer scientists find fields of activity in the field of the use of information technology which require knowledge of the respective subject areas, in particular business management knowledge. They can therefore be used in a wide range of company areas and industries. Business information technologists can perform corresponding coordinating functions between IT specialists and technical specialists on the application side, whereby consulting services and project management are in the foreground. Due to the high innovation dynamics of IT as well as its inherent innovation potential, business IT specialists are also equipped for entrepreneurial activities (entrepreneurship).

Abilities like the organisation of specific application systems, business process organisation, technical system draft, requirement analysis, organisational implementation, change management, the spreading architectural organisation of the information system landscape as well as the organisation and co-ordination of an internal as well as intercompany information management are obtained. The range of methods includes in particular methods of modelling data, processes, as well as general internal and external structures and corresponding application systems, and depending on the choice of study depth also methods of data analysis (business intelligence, data science) or product and business model innovation.

Master's graduates have built up these skills in depth during their studies and thus aim at higher and more advanced career paths in business and administration. By means of a targeted specialisation, either in an informational or business context, the respective specialist focus is set. Typical topics include, for example, the organisation of the IT function in a company or system analysis and development as well as IT architecture. Central for business informaticians is the application-oriented implementation of mostly formal, quantitative and system analytical methods in addition to the ability to explain phenomena, behaviours of actors as well as interrelationships of the use of IT in organisations (explanation goal of business informatics). Due to the increasing importance of digitized data, there is an increasing demand for

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graduates who are familiar with the acquisition, storage, search, distribution, modelling, analysis and visualization of large amounts of data (Business Intelligence, Data Science). Here a broad, predominantly informatically founded method spectrum is to be mastered. In particular it requires the ability to conceive corresponding systems and to guide their development with technical understanding (design goal of business informatics). The spectrum of effects of the graduates ranges from the design of innovative products or processes to business models. Within the framework of the individual design of the course of studies, the study programme offers students the opportunity to develop different profiles through the targeted selection of specific courses in the main and supplementary areas. In particular, profiling opportunities are offered in the areas of "Business Analytics and Data Science", "Digital Innovation and Entrepreneurship" and "Digital Sustainable Society".

The "Business Intelligence and Data Science" profile focuses on the topics of data science, business analytics, applied machine learning and parts of artificial intelligence. The focus here is on generating value and knowledge from data. We translate real business questions into concrete information systems; we model data, set up abstract models and apply a broad spectrum of modelling and analysis methods. Typically, we answer entrepreneurial questions using algorithmic and heuristic methods, which are either developed as software or programmed by modifying existing information systems. We use corresponding software tools, interpret, visualize and discuss the results in context and evaluate the consequences of the practical implementation of corresponding information systems. For this purpose, we use methods from statistics, econometrics, machine learning and AI for questions in the areas of marketing, finance, energy markets, production and logistics. The profiling of "Business Intelligence and Data Science" thus prepares master students for different career paths in data science and analytics. This includes the classic Data Scientist with strong management competence, consulting roles in digital and data-driven projects and also roles as CEO or Data Scientist of founding companies that plan and decide on the basis of evidence.

The profile "Digital Innovation and Entrepreneurship" focuses on the topics of digitalisation, digital transformation as well as IT- and data-based start-ups. Students learn skills, methods and approaches for the development of digital business models, for example through the application of design thinking and business patterns, learn entrepreneurial basics, can develop their own startup ideas and independently implement digital innovations based on technologies such as artificial intelligence, machine learning or blockchain. The profile "Digital Innovation and Entrepreneurship" trains master students for career paths that have a stronger focus on innovation and entrepreneurship. Supported career goals include roles such as Digital Transformation Programme Manager, Chief Innovation Officer, CEO of start-up companies or consultant roles in the areas of digital business models, process digitization or design-led innovation.

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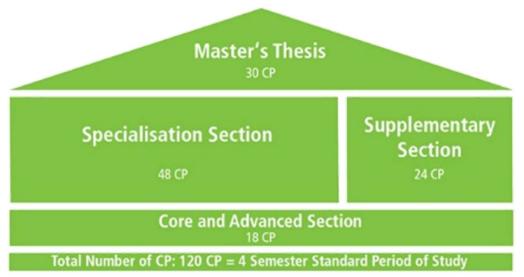
The "Digital Sustainable Society" profile focuses on digitalisation and the transformation to a more sustainable society. Students learn sound methodological skills from the areas of Big Data, Data Science and Machine Learning and at the same time gain deep insights into the topic of sustainability, especially with regard to the energy and mobility system. In addition to theoretical basics, teaching focuses on practical applications. Within the framework of data science projects, students work with real data from the energy (consumption and production data, microgrid transactions, etc.) and mobility industries (car sharing, bike sharing) and thus learn IT-related methods for concrete applications. The "Digital Sustainable Society" profile enables Master's students to pursue careers in the fields of start-up and innovation, for example through new business models in the energy industry or the provision of mobility services. On the other hand, the focus on methodological competencies (in particular data science and machine learning) also makes it possible to work as a data scientist. In addition, the graduates of the profiling programme are excellently equipped for classical consulting roles and industrial activities, especially with regard to digitization and sustainability.

#### 1.2 Requirements

To be accepted on the programme, students must hold a bachelor degree in a relevant area and meet the requirements set out in the "Regulations concerning determination of aptitude" (Ordnung zur Feststellung der besonderen Eignung).

#### 1.3 Programme structure

The programme carries a total of 120 ECTS credits and consists of a core and advanced section (18 ECTS credits), a specialisation section (48 ECTS credits) and a supplementary section (24 ECTS credits). Students complete the programme by submitting a master thesis (30 ECTS credits). The specialisation section enables students to deepen their knowledge in information systems and computer science and to choose specialisation seminars. They can also acquire knowledge from other fields by taking modules in the supplementary section.



A part of the credit points can be achieved abroad at one of the foreign partner universities. For students of the master programme the third semester its recommended (see sample study plan). The application must be provided approx. one year in advance. Further information can be found on the **faculty's website**.

#### 1.4 Study Abroad Option

The WiSo Faculty offers a broad range of study abroad options within an excellent network of prestigious partner universities worldwide. The so-called Study Abroad Programme (STAP) includes ERASMUS exchanges and provides an opportunity for a single-term stay at one of the WiSo Faculty's partner universities.

Successful STAP applicants benefit from direct contact and organisational support at the partner university and are exempt from paying tuition fees there. The range of universities available depends on the master course on which the student is enrolled – the possible options are listed in the <u>WiSo Exchange (WEX) International Outgoings Portal</u> (access through the student's UoC account only), along with detailed information on each university.

Every year, in addition to the STAP programme, the WiSo Faculty organises an exclusive short-term study option WiSo@NYC which takes place in New York City.

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In addition to these options offered by the Faculty, master students can also apply for a non-WiSo exchange, offered by Dezernat 9 – Internationales (Central International Office of the University of Cologne) within the 'fakultätsübergreifende Partnerschaften' framework. Further possibilities are going abroad as a freemover (i.e. as a student who organises his or her stay abroad individually) or participating in short courses or summer schools offered under separate terms and conditions.

For all study abroad options, the <u>International Relations Center</u> (ZIB WiSo) serves as point of information and advice.

#### The Faculty's Study Abroad Programme (STAP):

Master students should plan and submit their application for a term abroad at the beginning of their master course. The STAP main selection round takes place once a year with application deadline 15 January and allows for an application either for fall term or spring term of the following academic year. Detailed information on the selection criteria and the best preparation for a STAP application can be found online in the <a href="STAP Master Application Manual">STAP Master Application Manual</a>. (As an exception, if a certain number of slots are still available for spring term, a secondary STAP selection round will be offered in May, with a limited choice of exchange opportunities):

#### STAP Master - main selection round (fall term and spring term)



<sup>\*</sup> Alternative offer: if no offer can be given at one of the five preferred universities and if slots at other universities are available.

\*\* End of main selection round. In case any exchange slots become available after 15 March, these slots will be made available in a secondary selection round.

#### STAP Master - secondary selection round (for spring term only)

lease note: there is no guarantee that a secondary selection round will take place every year, nor should a wide range of exchange opportunities be expected



<sup>\*</sup> Deadline for handing in TOEFLS/IELTS results (if taken until 1 June): 15 June. \*\* Alternative offer: if no offer can be given at one of the five preferred universities and if slots at other universities are available

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#### **Credit transfer options from studies abroad:**

The WiSo Faculty has put a lot of emphasis on internationalisation in the design of its master courses, offering broad credit transfer options for all kinds of study abroad options. Each master course includes at least one "Studies Abroad" module, with a broad range of courses suitable for credit transfer. In addition, a single course-to-course credit transfer can be considered. For more information on credit transfer rules and regulations, please go to <u>WiSo Credit Transfer Center</u> > Information > Studies Abroad. For any questions regarding credit transfer, students can contact the <u>ZIB WiSo</u> or the <u>WiSo Credit Transfer Center</u>.

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# 1.5 Sample study plan

| M.Sc. Information Systems |           |  |                        |          |  |
|---------------------------|-----------|--|------------------------|----------|--|
| Term                      | EC/<br>CC | Module   | Section                | ECT<br>S |  |
| 1                         | CC        | CM Information Systems I                           | Core section           | 6        |  |
| 1                         | CC        | CM Information Systems II                          | Core section           | 6        |  |
| 1                         | CC        | CM Digital Transformation                          | Core section           | 6        |  |
| 1                         | EC        | Supplementary Module (1/4)                         | Supplementary section  | 6        |  |
| 1                         | EC        | SpM Computer Science I                             | Specialisation section | 9        |  |
|                           |           |  |                        | 33       |  |
| 2                         | EC        | Specialisation Module Information Systems (1/3)    | Specialisation section | 6        |  |
| 2                         | EC        | Specialisation Module Information Systems (2/3)    | Specialisation section | 6        |  |
| 2                         | EC        | Supplementary Module (2/4)                         | Supplementary section  | 6        |  |
| 2                         | EC        | SpM Computer Science II                            | Specialisation section | 9        |  |
| 2                         | EC        | SpM Seminar Information Systems I                  | Specialisation section | 6        |  |
|                           |           |  |                        | 33       |  |
| 3                         | EC        | Supplementary Module (3/4)                         | Supplementary section  | 6        |  |
| 3                         | EC        | Supplementary Module (4/4)                         | Supplementary section  | 6        |  |
| 3                         | EC        | Specialisation Module Information<br>Systems (3/3) | Specialisation section | 6        |  |
| 3                         | EC        | SpM Seminar Information Systems II                 | Specialisation section | 6        |  |
|                           |           |  |                        | 24       |  |
| 4                         | CC        | Master's thesis Information Systems                | Master's thesis        | 30       |  |
|                           |           |  |                        | 30       |  |

| M.Sc. I | M.Sc. Information Systems (Studies Abroad) |   |  |          |  |  |
|---------|--|---|--|----------|--|--|
| Term    | EC/<br>CC                                  | Module  | Section  | ECT<br>S |  |  |
| 1       | CC   | CM Information Systems I  | Core section                                       | 6        |  |  |
| 1       | CC   | CM Information Systems II   | Core section                                       | 6        |  |  |
| 1       | CC   | CM Digital Transformation Core section                            |  | 6        |  |  |
| 1       | EC   | Specialisation Module (1/4)                                       | Specialisation Module (1/4) Specialisation section |          |  |  |
| 1       | EC   | SpM Computer Science I Specialisation section                     |  | 9        |  |  |
|         |  |   |  | 33       |  |  |
| 2       | EC   | Specialisation Module Information Systems (2/3)                   | Specialisation section                             | 6        |  |  |
| 2       | EC   | SpM Computer Science II   | Specialisation section                             | 9        |  |  |
| 2       | EC   | SpM Seminar Information Systems I                                 | Specialisation section                             | 6        |  |  |
| 2       | EC   | SpM Seminar Information Systems II                                | Specialisation section                             | 6        |  |  |
|         |  |   |  | 27       |  |  |
| 3       | EC   | Supplementary Module Studies<br>Abroad                            | Supplementary section                              | 24       |  |  |
| 3       | EC   | Specialisation Module Studies Abroad in Information Systems (3/3) | Specialisation section                             | 6        |  |  |
|         |  |   |  | 30       |  |  |
| 4       | СС   | Master's thesis Information Systems                               | Master's thesis                                    | 30       |  |  |
|         |  |   |  | 30       |  |  |

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|      | M.  | .Sc. | Information Systems (inclu  | uding | g profiles)   |    |
|------|---|------|---|-------|---|----|
|      | Business Analytics and Data Science   |      | Digital Innovation and<br>Entrepreneurship  |       | Digital Sustainable Societ  | y  |
| Sem. | Module  | СР   | Module  | СР    | Module  | СР |
| 1    | CM IS I   | 6    | CM IS I   | 6     | CM IS I   | 6  |
| 1    | CM IS II  | 6    | CM IS II  | 6     | CM IS II  | 6  |
| 1    | CM DT   | 6    | CM DT   | 6     | CM DT   | 6  |
| 1    | SUPPLEMENTARY MODULE<br>Statistics & Econometrics   | 6    | SUPPLEMENTARY MODULE<br>Corporate Development   | 6     | SUPPLEMENTARY MODULE Energy Economics   | 6  |
| 1    | SM Info   | 9    | SM Info   | 9     | SM Info   | 9  |
|      |   | 33   |   | 33    |   | 33 |
| 2    | SUPPLEMENTARY MODULE<br>Statistics & Econometrics   | 6    | SUPPLEMENTARY MODULE<br>Corporate Development   | 6     | SUPPLEMENTARY MODULE Energy Economics   | 6  |
| 2    | SM Info   | 9    | SM Info   | 9     | SM Info   | 9  |
| 2    | SM IS II: Business Intelligence :   | 2x6  | SM IS II: IT Entrepreneurship   | 6     | SUPPLEMENTARY MODULE Energy Economics   | 6  |
|      | SM IS III: Advanced Infor-<br>mation Management with Arti-<br>ficial Intelligence   |      | SM IS III: Emerging Electronic<br>Business  | 6     | SM IS II: IT Entrepreneurship   | 6  |
| 2    | SM Sem IS: Advanced Semi-<br>nar Information Management<br>oder<br>Advanced Seminar Collabora-<br>tive Innovation Networks              | 6    | SM Sem IS: Advanced Seminar<br>Information Systems and Digital<br>Technology  | 6     | SM Sem IS: Advanced Seminar Collaborative Innovation Networks                   | 6  |
|      |   | 30   |   | 30    |   | 30 |
| 3    | SUPPLEMENTARY MODULE<br>Statistics & Econometrics   | 6    | SUPPLEMENTARY MODULE<br>Corporate Development   | 6     | SUPPLEMENTARY MODULE Energy Economics   | 6  |
| 3    | SUPPLEMENTARY MODULE<br>Statistics & Econometrics   | 6    | SUPPLEMENTARY MODULE<br>Corporate Development   | 6     | SM IS III: Design Thinking for Digital<br>Innovation                            | 6  |
| 3    | SM IS I: Advanced Analytics and Applications  | 6    | SM IS I: Digital Strategy and<br>Transformation   | 6     | SM IS I: Sustainable Digital Innovation Lab                                     | 6  |
| 3    | SM Sem IS: Advanced Semi-<br>nar Information Systems for<br>Sustainable Society<br>oder<br>Advanced Seminar Infor-<br>mation Management | 6    | SM Sem IS: Advanced Seminar<br>Collaborative Innovation Networks<br>or<br>Advanced Seminar Information<br>Systems for Sustainable Society<br>or<br>Advanced Seminar Information<br>Management | 6     | SM Sem IS: Advanced Seminar In-<br>formation Systems for Sustainable<br>Society | 6  |
|      |   | 27   |   | 27    |   | 27 |
| 4    | Thesis  | 30   | Thesis  | 30    | Thesis  | 30 |
|      |   | 30   |   | 30    |   | 30 |

#### 1.6 Modules with mid-term examinations

Some modules have courses that only run for half a term and usually with twice the normal number of classes. For these modules, the term is divided into two roughly equal halves. In the fall, the mid-term usually ends at the beginning of December; in the spring, it is usually in

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the middle or at the end of May. Often, the examinations for these courses are held mid-term, enabling students to reduce their examination load at the end of term.

The information in the campus management system (KLIPS) regarding the dates of courses and examinations is relevant in this context.

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# 2 Support for students

#### 2.1 Calculation of the overall mark

The marks for the individual examination elements are awarded by the respective examiner. The overall mark for the master's examination is calculated from the marks for the subject categories, weighted according to the relation of their credit points to the total credit points possible for the degree. The marks of the subject categories are calculated as the arithmetic mean of the individual marks for examination elements, weighted according to the relation of their credit points to the total volume of credit points of the examination elements of the respective subject area. In the case of end-of-module examinations consisting of several components, the mark for the module is calculated as specified in the annex.

The overall mark for the degree is calculated as the weighted arithmetic mean of the marks for the subject categories and the mark for the master's thesis. On the Information Systems programme, the weighting for the contributions to the overall mark is as follows:

a) Mark for core and advanced section: 18 of 120 ECTS credits

b) Mark for specialisation section: 48 of 120 ECTS credits

c) Mark for supplementary section: 24 of 120 ECTS credits

d) Mark for master's thesis: 30 of 120 ECTS credits

#### 2.2 Rules for failed attempts

Students may retake module examinations that they have failed. The number of attempts is limited to three per module. Modules offered by faculties other than the Faculty of Management, Economics and Social Sciences ("WiSo Faculty") may be subject to different rules.

After failing an exam three times, the <u>WiSo Student Service Point (WiSSPo)</u> provides information regarding the possibility and the requirements to receiving additional resit attempts. If none of the first three examination attempts were failed due to cheating or to an offence, further two resit attempts can be granted at any point of the programme. Students who have accumulated at least 90 credit points can be granted a further additional attempt. If a student fails an examination in the two additional attempts and the extra attempt for students with 90 points or more, they are deemed to have failed the programme at the final attempt. Where a module examination consists of several components, the candidate must obtain a "bestanden" (pass) mark, or at least an "ausreichend (4,0)" (sufficient) mark, in all of the examination components. All components marked "mangelhaft (5,0)" or "nicht bestanden" (fail) must be retaken. It is not possible to resit module examinations that have already been passed.

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A failed master's thesis can be retaken once, with a new topic. Students must register for their second attempt within six months of the result of their first attempt being announced.

# 2.3 Subject-specific advice and examination advice

The <u>Wisspo</u> provides general advice on studies, including the possibilities available and the requirements, for all programmes offered by the WiSo Faculty. Further services include the issuing of transcripts of records in German and English, ranking certificates and letters of assignment to the appropriate term of the programme and the application for advanced / higher semester. The <u>Wisspo</u> is also the first place to turn to for students with other questions and problems related to their studies. It can be contacted by phone, in person and, of course, e-mail. Please notice the opening hours and contact data on the website.

**Subject-specific advice** is provided during the designated times by the University's faculty members and associated teaching staff ("akademische Mitarbeiter/innen") involved in the teaching on the programme. The designated times are announced by means of notices in the institutes and on the departments'/institutes' websites.

Legally binding information concerning examinations and examination procedures is provided by the **WiSo Faculty Examination Offices**.

#### 2.4 Other sources of information and advice

"KLIPS 2.0" is the central campus management system of the University of Cologne. At the WiSo faculty, KLIPS 2.0 serves as a student organisation tool. Students should use it as an online course catalogue, for registration and deregistration of courses and examinations, as well as an overview of the complete study programme and calendar. Information on current dates and deadlines of the WiSo faculty, as well as video tutorials and FAQs about KLIPS can be found on the homepage of <a href="WiSo-KLIPS-Support">WiSo-KLIPS-Support</a>. If you have further questions, feel free to contact WiSo-KLIPS-Support via <a href="mailto:e-mai

International students who study at the WiSo Faculty for part of their programme can turn to the <u>International Relations Center</u> ("Zentrum für Internationale Beziehungen" or "ZIB") for help with any questions they have. Cologne University students preparing to study abroad can also contact the ZIB for support. The Center also runs a variety of summer schools, short programmes and Business English courses. The services, courses and people to contact can all be found on the website.

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The Faculty's <u>Credit Transfer Centre</u> (Zentrum für die Anrechnung auswärtiger Leistungen) is responsible for recognising credits accumulated in other institutions. This applies both to credits students have gained at other higher education institutions in Germany or abroad prior to studying at the WiSo Faculty, and to (advance) transfer of credits that students plan to accumulate abroad or have already accumulated abroad as part of a WiSo Faculty programme. This system eliminates the need to make individual inquiries to departments/institutes and examination offices. Students can find out everything they need to know about the transfer process on the website.

The <u>WiSo Career Service</u> offers advice and support, in cooperation with other partners, for students from the WiSo Faculty looking for an internship or profession that is right for them. It also helps them as they plan their career and apply for jobs. In addition, the WiSo Career Service organises seminars, presentations and special events in cooperation with employers and external and internal experts. All of the necessary information can be found on the website. The <u>WiSo IT Service</u> runs regular courses dealing with standard software and field-specific programmes.

Students who are having difficulties with their studies or their personal lives can seek help from the **Psychosocial Counselling Service** run by the Kölner Studentenwerk. In addition to counselling, it also provides advice on writing and learning skills plus support for pregnant students and students who have children.

A further service is **Nightline** Köln, the listening and information helpline run by students for students at all of Cologne's institutions of higher education.

The WiSo student council represents the interests of all students from the WiSo faculty. In addition to advice from fellow students it also provides a variety of useful services for studying at the WiSo faculty. Any information can be found at <a href="wiso-buero.de">wiso-buero.de</a> or by directly writing an email to <a href="wiso-buero@uni-koeln.de">wiso-buero@uni-koeln.de</a>.

# 3 Curriculum and module descriptions

#### 3.1 Core and advanced section

In accordance with section 33(1), No. 1 of the Examination Regulations, the examination candidate must obtain 18 ECTS credits in the core and advanced section.

| Group                                 | Module                    | ECTS | CC/<br>EC | Re-<br>quired<br>ECTS |
|---------------------------------------|---------------------------|------|-----------|-----------------------|
| Core and advanced section Information | CM Information Systems I  | 6    | СС        | 18                    |
| Systems                               | CM Information Systems II | 6    | СС        |                       |
|                                       | CM Digital Transformation | 6    | СС        |                       |

#### 3.2 Specialisation section

In accordance with section 33(1), No. 2 of the Examination Regulations, the examination candidate must obtain 48 ECTS credits in the specialisation section.

| Group                  | Module   | ECTS | CC/<br>EC | Re-<br>quired<br>ECTS |
|------------------------|--|------|-----------|-----------------------|
| Specialisation Infor-  | SpM Information Systems I                      | 6    | EC        | 18                    |
| mation Systems         | SpM Information Systems II                     | 6    | EC        |                       |
|                        | SpM Information Systems III                    | 6    | EC        |                       |
|                        | SpM Digital Strategy and Marketing             | 6    | EC        |                       |
|                        | Specialisation Module Studies Abroad I         | 6    | EC        |                       |
| Schwerpunkt Informatik | SpM Computer Science I                         | 9    | СС        | 18                    |
|                        | SpM Computer Science II                        | 9    | СС        |                       |
| Specialisation Com-    | SpM Seminar Information Systems I              | 6    | EC        | 12                    |
| puter Sciences         | SpM Seminar Information Systems II             | 6    | EC        |                       |
|                        | Specialisation Module Seminar Computer Science | 6    | EC        |                       |

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# 3.3 Supplementary section

In accordance with section 33(1), No. 3 of the Examination Regulations, the examination candidate must obtain 24 ECTS credits in a sub-group of the supplementary section.

| Group                | Module  | ECTS | CC/<br>EC | Required<br>ECTS |
|----------------------|---|------|-----------|------------------|
| Accounting and Taxa- | SpM Taxation I  | 6    | EC        | 24               |
| tion                 | SpM Taxation II   | 6    | EC        |                  |
|                      | SpM Controlling I   | 6    | EC        |                  |
|                      | SpM Controlling II  | 6    | EC        |                  |
|                      | SpM Accounting I  | 6    | EC        |                  |
|                      | SpM Accounting II   | 6    | EC        |                  |
|                      | SpM Selected Issues in Accounting & Taxation I                    | 6    | EC        |                  |
|                      | SpM Selected Issues in Accounting & Taxation II                   | 6    | EC        |                  |
|                      | SpM Advanced Accounting   | 6    | EC        |                  |
| Business Research    | Specialisation Module Research in Finance (Research Track)        | 6    | EC        | 24               |
|                      | Specialisation module Selected Issues in Corporate Development II | 6    | EC        |                  |
|                      | CM Advanced Mathematics   | 6    | EC        |                  |
|                      | CM Selected Methods in Economics                                  | 6    | EC        |                  |
|                      | AM Computational Methods¹   | 6    | EC        |                  |
|                      | CM Advanced Microeconomics I                                      | 6    | EC        |                  |
|                      | CM Advanced Microeconomics II                                     | 6    | EC        |                  |
|                      | CM Advanced Macroeconomics I                                      | 6    | EC        |                  |
|                      | CM Advanced Macroeconomics II                                     | 6    | EC        |                  |
|                      | CM Advanced Econometrics I  | 6    | EC        |                  |
|                      | CM Advanced Econometrics II                                       | 6    | EC        |                  |
| Corporate Develop-   | SpM Business Ethics   | 6    | СС        | 24               |
| ment                 | SpM Strategic Development   | 6    | СС        |                  |

|                                   | SpM Strategic Human Resource Management                                       | 6  | СС |                                       |
|-----------------------------------|---|----|----|---------------------------------------|
|                                   | SpM Strategic Management  | 6  | СС |                                       |
| Design & Behavior                 | CM Microeconomics (Business Administration)                                   | 6  | EC | 24                                    |
|                                   | SpM Market Design and Behaviour II  | 6  | EC |                                       |
|                                   | SpM Market Design and Behaviour IV  | 6  | EC |                                       |
|                                   | Specialisation Module Behavioral Economics                                    | 6  | EC |                                       |
|                                   | CM Selected Methods in Economics  | 6  | EC |                                       |
|                                   | SpM Market Design and Mechanism Design  | 6  | EC |                                       |
| Energy Economics                  | Specialisation Module Seminar in Energy, Resource and Environmental Economics | 6  | EC | 24                                    |
|                                   | SuM Energy and Climate Change I   | 6  | EC |                                       |
|                                   | SuM Energy and Climate Change III   | 6  | EC |                                       |
|                                   | SuM Energy and Climate Change IV  | 6  | EC |                                       |
|                                   | Specialisation module Competition Policy                                      | 6  | EC |                                       |
| Finance                           | Specialisation Module Financial Theory  | 12 | EC | 24                                    |
|                                   | Specialisation Module Financial Institutions Management                       | 12 | EC |                                       |
|                                   | Specialisation Module Finance 2   | 6  | EC |                                       |
|                                   | Specialisation Module Finance 5   | 6  | EC |                                       |
|                                   | Specialisation module Finance 7   | 6  | EC |                                       |
|                                   | Specialisation module Finance 8   | 6  | EC |                                       |
|                                   | Specialisation Module Value-Based Management in Insurance                     | 6  | EC |                                       |
|                                   | Specialisation Module Selected Issues in Finance I (6 LP)                     | 6  | EC |                                       |
| Growth, Labor and In-             | CM Macroeconomics   | 6  | EC | 24                                    |
| equality in the Global<br>Economy | SpM Markets and Economic Policy I   | 6  | EC |                                       |
|                                   | SpM Markets and Economic Policy IV  | 6  | EC |                                       |
|                                   | SpM Markets and Economic Policy III   | 6  | EC |                                       |
|                                   | SpM Markets and Economic Policy V   | 6  | EC |                                       |
|                                   |   |    |    | · · · · · · · · · · · · · · · · · · · |

|                        | SpM Market Design and Behaviour III   | 6 | EC |    |
|------------------------|---|---|----|----|
| Markets & Institutions | CM Microeconomics (Business Administration)                                     | 6 | EC | 24 |
|                        | Specialisation module Competition Policy  | 6 | EC |    |
|                        | SpM Media Economics   | 6 | EC |    |
|                        | CM Health Economics III   | 6 | EC |    |
|                        | SpM Market Design and Behaviour III   | 6 | EC |    |
|                        | SpM Market Design and Mechanism Design  | 6 | EC |    |
| Medienmanagement       | SuM Media and Technology Management - Enter-<br>prises, Markets, and Strategies | 6 | EC | 24 |
|                        | SuM Media and Technology Management - Selected Issues I                         | 6 | EC |    |
|                        | SuM Media and Technology Management - Selected Issues II                        | 6 | EC |    |
|                        | SuM Media and Technology Management - Research and Publications                 | 6 | EC |    |
|                        | SpM Media Economics   | 6 | EC |    |
| Statistics & Econo-    | SpM Empirical Methods and Data Analysis I                                       | 6 | EC | 24 |
| metrics                | SpM Empirical Methods and Data Analysis III                                     | 6 | EC |    |
|                        | SpM Empirical Methods and Data Analysis IV                                      | 6 | EC |    |
|                        | SpM Empirical Methods and Data Analysis V                                       | 6 | EC |    |
|                        | Specialisation Module Seminar Statistics and Econometrics                       | 6 | EC |    |
|                        | CM Econometrics <sup>2</sup>  | 6 | EC |    |
|                        | AM Empirical Methods  | 6 | EC |    |
| Supply Chain Ma-       | SpM Supply Chain Strategy   | 6 | EC | 24 |
| nagement               | SpM Supply Chain Innovation   | 6 | EC |    |
|                        | SpM Selected Issues in Behavioural Supply Chain Management                      | 6 | EC |    |
|                        | SpM Supply Chain Operations   | 6 | EC |    |
|                        | Specialisation Module Operative Supply Chain Planning                           | 6 | EC |    |

|                    | Specialisation Module Project Management       | 6  | EC |    |
|--------------------|--|----|----|----|
|                    | SpM Selected Issues in Supply Chain Management | 6  | EC |    |
| Wirtschaftsgeogra- | SuM Economic Geography I                       | 6  | СС | 24 |
| phie               | SuM Economic Geography II                      | 6  | СС |    |
|                    | SuM Economic Geography III                     | 6  | СС |    |
|                    | SuM Economic Geography IV                      | 6  | СС |    |
| Studies Abroad     | Studies Abroad I (Master)                      | 12 | СС | 24 |
|                    | Studies Abroad II (Master)                     | 12 | СС | ,  |

<sup>&</sup>lt;sup>1</sup> No examination registration possible, if the core module Methods (1289BMMe00) has already been passed.

<sup>&</sup>lt;sup>2</sup> No examination registration possible, if the core module Econometrics I (1314BMEc01) has already been passed.

Valid for students of the ER 2015 (enrolment for winter semester 2020/21 at the latest)

#### 3.4 Extracurricular course programme

In addition to their regular studies Master's students have the opportunity to take part in extracurricular courses, in which both academic and vocational skills are taught. Thus it can have an academic and a professional orientation, which serve the development of professional competences. The extracurricular course programme intends to promote and impart competences that go beyond specialist knowledge or concern basic scientific or personal attitudes: scientific curiosity, systematic and analytical thinking, dealing with complexity, solution-orientation and other skills, e.g. the ability to work in a team and foreign language skills.

The extracurricular course programme is offered jointly by the faculties and the Professional Centre of the University of Cologne and enables students to pursue their own additional interests, to gain insights into other subjects and faculties, to attend events of social importance, to acquire professionally relevant skills and to attend language courses. In addition, students are offered learning and study aids as part of the extracurricular programme, e.g. for scientific work or literature research. Extracurricular courses are not credited, but the participation is noted on the transcript of records.

Valid for students of the ER 2015 (enrolment for winter semester 2020/21 at the latest)

#### 3.5 Master's thesis

The master's thesis, which carries 30 ECTS credits, is written towards the end of the programme. It is intended to show that the student is capable of conducting academic work on and reflecting on a specific problem related to the subject matter covered on the programme, using the necessary methods and within a specified period.

The topic of the master's thesis on the Health Economics programme must come from the core and advanced section or the specialisation section.

Group master's theses are also permitted provided a clear distinction between and assessment of each candidate's contribution is possible. Objective criteria that make a clear distinction possible, such as sections, page numbers or topics, are used to indicate which student made which contribution. The total workload required of each group member must exceed the requirements for individual masters' theses to an appropriate extent. The difficulty and content of a group thesis must meet the same requirements as for theses undertaken individually and independently. The contribution made by each individual must meet the requirements for masters' theses.

To register to do their master's thesis, students must have accumulated a minimum of 60 ECTS credits. They may take no longer than six months to write the thesis. Further, more detailed information on master's theses can be found in the Examination Regulations

# 3.6 Module description

# 3.6.1 Core and Advanced Section Information Systems

|                           |   |   |                |                               | i  |                            |  |
|---------------------------|---|---|----------------|-------------------------------|--|----------------------------|--|
| Module Code<br>1277MBISY1 |   | <b>Workload</b><br>180h   | ECTS Credits 6 | Module<br>Language<br>English | Module<br>Availability<br>every 2nd<br>term - winter<br>term | Duration<br>1 Term         |  |
| 1                         | Courses<br>Information Syst<br>tainability  | Information Systems and Environmental S   |                |                               | Self-Stu-<br>dies<br>120h                                    | Course Language<br>English |  |
| 2                         | Forms and type     Key sustainable     Green IT     Green IS     Transformatio     Sustainable designable uses  |   |                |                               |  |                            |  |
| 3                         | Students understand m of information sy analyse curre justify and de act responsib  | Learning Objectives Students understand methods and theories in the area of sustainable development, use and management of information systems analyse current questions and challenges in the area of organisational sustainability justify and defend (independently developed) positions or problem solutions act responsibly considering ecological, social and ethical criteria critically evaluate current social developments and develop alternative solutions. |                |                               |  |                            |  |
| 4                         | Teaching and L<br>lecture<br>practice   | earning Meth  | ods            |                               |  |                            |  |
| 5                         | Module Entry R  | Requirements  |                |                               |  |                            |  |
| 6                         | Mode of End-O<br>Written test: WT   |   | mination       |                               |  |                            |  |
| 7                         |   | Prerequisites for Awarding of Credit Points Passing the module examination  |                |                               |  |                            |  |
| 8                         | Other Programmes that Use the Module  Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs: Supplementary Section Business Education  Master of Science Information Systems: Core and Advanced Section Information Systems  Master of Arts Medienwissenschaft: MA Media Management and Economics |   |                |                               |  |                            |  |

| 9  | Module Manager N. N.   |
|----|--|
| 10 | Miscellaneous There may be case studies and exercises to be prepared in groups and presented by the students in class. The solutions presented will be analysed and discussed. Students will be advised of compulsory reading on a term-by-term basis. |

| CM Information Systems II |  |                                |              |   |                           |                            |  |  |
|---------------------------|--|--------------------------------|--------------|---|---------------------------|----------------------------|--|--|
| Module Code<br>1277MBISY2 | _  | Workload<br>180h               | ECTS Credits | Module Language English  Module Availability every 2nd term - winter term |                           |                            |  |  |
| 1                         | Courses Analytics and Applications   |                                |              | Contact<br>Hours<br>60h   | Self-Stu-<br>dies<br>120h | Course Language<br>English |  |  |
| 2                         | Module Content  Types of decision support and business intelligence  Data Analysis, business analytics  Simulation and optimisation  Data warehouse and business intelligence  Data-/ Text-/ Web-Mining  Predictive modelling, machine learning  Clustering  Making sense of data  Evaluation of modelling results  Using data and methods to create value |                                |              |   |                           |                            |  |  |
| 3                         | Learning Objectives Students understand advanced, specialized theories / methods in the area of Data Science and Machine Learning solve team-internal conflicts and target divergences independently justify and defend (independently developed) positions or problem solutions develop work processes for real problems and challenges.                  |                                |              |   |                           |                            |  |  |
| 4                         | Teaching and L<br>lecture<br>practice  | earning Meth                   | nods         |   |                           |                            |  |  |
| 5                         | Module Entry R   | Module Entry Requirements none |              |   |                           |                            |  |  |
| 6                         | Mode of End-O<br>Written test: PO  |                                | mination     |   |                           |                            |  |  |
| 7                         | Prerequisites for Passing the mod  |                                |              |   |                           |                            |  |  |
| 8                         | Other Programmes that Use the Module  Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs: Supplementary Section Business Education  Master of Science Information Systems: Core and Advanced Section Information Systems  Master of Arts Medienwissenschaft: MA Media Management and Economics  |                                |              |   |                           |                            |  |  |
| 9                         | Module Manage<br>UnivProf. Dr. V   |                                |              |   |                           |                            |  |  |

Valid for students of the ER 2015 (enrolment for winter semester 2020/21 at the latest)

| 10 | Miscellaneous |
|----|---------------|
|----|---------------|

The lecture is an inverted classroom. Please read the syllabus before joining this class. The participation in the first lecture is strongly recommended.

| CM Digital Transformation |  |  |                  |                               |  |                            |  |  |
|---------------------------|--|--|------------------|-------------------------------|--|----------------------------|--|--|
| Module Code<br>1277MBDTF1 |  | <b>Workload</b><br>180h  | ECTS Credits     | Module<br>Language<br>English | Module<br>Availability<br>every 2nd<br>term - winter<br>term | <b>Duration</b><br>1 Term  |  |  |
| 1                         | Courses<br>Digital Transform   | nation and Inno  | ovation          | Contact<br>Hours<br>45h       | Self-Stu-<br>dies<br>135h                                    | Course Language<br>English |  |  |
| 2                         | Select media,     Economic and     Different Areasuch as, cloud cosocial media     Management  | <ul> <li>Module Content</li> <li>Select media, Information and communication Technologies, their application and limitations</li> <li>Economic and managerial properties of digital goods and services</li> <li>Different Areas of application of digital media, information and telecommunication Technologies, such as, cloud computing, digital business models, big data and business intelligence, (Enterprise) social media</li> <li>Management of digital transformation and its prerequisites from an organizational perspective</li> <li>Concepts for the analysis and innovation of business models</li> </ul> |                  |                               |  |                            |  |  |
| 3                         | Learning Objectives Students analyse current questions and challenges of digital transformation and business model innovation justify and defend (independently developed) positions or problem solutions critically evaluate current social developments and develop alternative solutions. |  |                  |                               |  |                            |  |  |
| 4                         | Teaching and Learning Methods lecture practice   |  |                  |                               |  |                            |  |  |
| 5                         | Module Entry R   | Requirements   |                  |                               |  |                            |  |  |
| 6                         | Mode of End-O<br>Written test: WT  |  | mination         |                               |  |                            |  |  |
| 7                         | Prerequisites for Awarding of Credit Points Passing the module examination   |  |                  |                               |  |                            |  |  |
| 8                         | Other Programmes that Use the Module  Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs:   |  |                  |                               |  |                            |  |  |
| 9                         |  | Module Manager UnivProf. Dr. Detlef Schoder  |                  |                               |  |                            |  |  |
| 10                        | Miscellaneous<br>Students will be  | advised of con   | npulsory reading | on a term-by-te               | rm basis.  |                            |  |  |

# 3.6.2 Specialisation Section Information Systems

| SpM Info                  | ormation Syst  | tems I   |   |   |  |  |
|---------------------------|--|--|---|---|--|--|
| Module Code<br>1277MSISY1 |  | Workload<br>180h   | ECTS Credits  | Module<br>Language<br>English                     | Module<br>Availability<br>every term               | <b>Duration</b><br>1 Term                        |
| 1                         | b) Sustainable I   | Courses  a) Advanced Analytics and Applications b) Sustainable Digital Innovation Lab c) Case Project Digital Transformation   |   |   | Self-Stud-<br>ies<br>a) 150h<br>b) 150h<br>c) 150h | Course Language a) English b) English c) English |
| 2                         | Emergent dig     Systems deve     Development     Project and te     Design and in     Prototyping a      C) Case Projec     Digital Strateg     Digital Strateg     Digital Strateg | nalytics and Apalytics application unality analytics alytics process odels methods didata reduction atture models thods rks and Deep left of Treatment Elegarning of Reinforcement Language: Pyropigital Innovation global sustain ital technology elopment practicular of ideas to solve am management process of the strong of the | n methods earning  ffects  It Learning thon  Ion Lab hability challenges stacks (hardware ces suitable for or the design challent of information systems  formation  sign Thinking) | and software)<br>omplex context<br>llenge<br>tems | s and requirem                                     | rototype based on the                            |
| 3                         | Learning Object Students analyse curre   | ctives   | nd challenges in t  | he areas of: (a                                   | ) Data Science                                     | and Machine Learn-                               |
|                           | egy and innova   | tion.<br>nternal conflicts   | al technologies, so<br>and target diverg<br>a way that is appro   | ences indepen                                     | dently.  | bility, (c) digital strat-                       |

|    | critically evaluate current social developments and develop alternative solutions develop work processes for real problems and challenges.   |
|----|--|
| 4  | Teaching and Learning Methods lecture practice   |
| 5  | Module Entry Requirements none   |
| 6  | Mode of End-Of-Module Examination Written test: PO   |
| 7  | Prerequisites for Awarding of Credit Points  Passing the written examination of one course. A course is to be attended; the written examination relates to the content of one course.  |
| 8  | Other Programmes that Use the Module  Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs: Supplementary Section Business Education  Master of Science Information Systems: Specialization Section Information Systems |
| 9  | Module Manager UnivProf. Dr. Wolf Ketter   |
| 10 | Miscellaneous  |

| SpM Information Systems II |   |  |                |                  |  |   |  |  |
|----------------------------|---|--|----------------|------------------|--|---|--|--|
| Module Code<br>1277MSISY2  |   | Workload 180h ECTS Credits 6 Module Language English   |                | Language         | Module<br>Availability<br>every term         | Duration<br>1 Term  |  |  |
| 2                          | b) Business Int<br>ment<br>c) IT Entrepren  | a) Emerging Electronic Business     b) Business Intelligence and Data Manage-  |                |                  | Self-Studies a) 135h b) 130h c) 130h d) 135h | Course Language<br>a) English<br>b) English<br>c) English<br>d) English |  |  |
|                            | <ul> <li>Current IT trends and the transformation of electronic business into ""aml context of networked and computerised objects and environments (Internet ronments)</li> <li>Conceptual basics of relevant technologies (including sensors, RFID, tele Design and applications of smart environments</li> <li>Design of intuitive human-computer interaction (HCI)</li> <li>Context awareness and context-based services</li> <li>Freely offering and sharing Information as a way of adding value</li> <li>Economic, social and ethical effects of increasingly omnipresent informat</li> <li>Business Intelligence and Data Management</li> <li>Reporting and Online Analytical Processing (OLAP)</li> <li>Multidimensional Data Modelling (e.g., MetaMIS, ADAPT)</li> <li>Design and implementation of data warehouses</li> <li>Data warehouse schemas and architectures</li> </ul>   |  |                |                  |  | of Things, smart Envecommunication)                                     |  |  |
|                            | Data mining a networks)  c) IT Entreprer     Fundamental     Forms of entrepress moderal in the content of | and business ar<br>neurship<br>Is of entreprenet<br>repreneurship<br>Iels of entrepren<br>start-up industrie<br>blogies as enabl | urship         | on rules, decis  | ion trees, cluste                            | op, MapReduce)<br>ering, artificial neural                              |  |  |
|                            | projects, e.g. • Ensemble me • Social media • Text analytica • Neural Nets  | ethods for data a<br>:<br>ethods<br>and network an<br>s, text mining, N  | alysis<br>LP   | ess data; alterr | nating topics bas                            | sed on real research  |  |  |
| 3                          | Learning Object Students analyse curr   | ctives<br>ent questions ar   | nd challenges: |                  |  |   |  |  |

|    | a) in the area of latest technical and huginous related developments in (succession) also traville to a        |
|----|--|
|    | a) in the area of latest technical and business-related developments in (emerging) electronic businesses.      |
|    | b) in data analytics, data warehousing, and data mining.   |
|    | c) in IT-centric entrepreneurship  |
|    | d) in data science and machine learning, focused on issues regarding sustainability.                           |
|    | act responsibly considering ecological, social and ethical criteria.   |
|    | critically evaluate current social developments and develop alternative solutions.                             |
|    | develop work processes for real problems and challenges.   |
| 4  | Teaching and Learning Methods  |
|    | lecture  |
|    | practice   |
| 5  | Module Entry Requirements  |
|    | none   |
| 6  | Mode of End-Of-Module Examination  |
|    | Written test: PO   |
| 7  | Prerequisites for Awarding of Credit Points  |
|    | Passing the written examination of one course. A course is to be attended; the written examination             |
|    | relates to the content of one course.  |
| 8  | Other Programmes that Use the Module   |
|    | Master of Science Business Administration - Supply Chain Management:   |
|    | Supplementary Section Supply Chain Management  |
|    | Master of Science Business Administration - Finance:   |
|    | Supplementary Section Finance  |
|    | Master of Science Business Administration - Accounting and Taxation:   |
|    | Supplementary Section Accounting and Taxation  |
|    | Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development |
|    | Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs:   |
|    | Ergänzungbereich Wirtschaftspädagogik  |
|    | Master of Science Business Analytics & Econometrics:   |
|    | Supplementary Section Business Analytics & Econometrics  |
|    | Master of Science Information Systems:   |
|    | Specialisation Section Information Systems   |
| 9  | Module Manager   |
|    | UnivProf. Dr. Christoph Rosenkranz   |
| 10 | Miscellaneous  |
|    | a) Lecture is held in a project-based style. Students develop application scenarios and/ or prototypes         |
|    | for emerging electronic business, implement them, and present them in class. b) The course will em-            |
|    | ploy a project-based format. c) Required readings are announced at the beginning of the semester.              |
|    |  |

| SpM Info                  | mation Sys   | tems III   |   |   |  |   |
|---------------------------|--|--|---|---|--|---|
| Module Code<br>1277MSISY3 |  | Workload<br>180h   | ECTS Credits  | Module<br>Language<br>English   | Module<br>Availability<br>every term   | <b>Duration</b><br>1 Term   |
| 1                         | Courses a) Artificial Intel agement b) Applied Math c) Machine Lea d) Decision Mal   | nematical Optin  | nization<br>cial Intelligence   | Contact<br>Hours<br>a) 50h<br>b) 50h<br>c) 30h<br>d) 30h  | Self-Studies a) 130h b) 130h c) 150h d) 150h   | Course Language<br>a) English<br>b) English<br>c) Englisch<br>d) Englisch |
| 2                         | Concepts, fra Management IT in compani IT Governanc IT Strategy at IT Processes IT Controlling IT Sourcing Knowledge M Role of the C New trends  b) Applied Mat Fundamental Domain Know Data Science Introduction te Simulation ar Cutting-Edge  c) Machine Lea Basics of both boosting, supplearning, prince scaling) Translation of Responsible in  d) Decision Mat Probabilistics Bayesian Nett (Hidden) Mark Dynamic Proge Forecasting a | elligence and Interpretation of external information of external information of external information of external information of Strategic Alia of Strategic Alia of Sustainable with the external of Experimental of Experimentation of E | mization e Information Sys gy and Mobility in Learning Methods ems and how to ta tion techniques rom practice and cial Intelligence chine Learning an d unsupervised m chines, neural netw t analysis, factor a ems into machine of machine learni ertainty | tems conjunction with ackle them with leading researe d Artificial Inte nethods (e.g. do works, deep an analysis and di e learning use o ng projects in o | th sustainability Data Science ch Iligence (AI) ecision trees, raid opponent lea verse learning of | andom forests,<br>rning, ensemble<br>or multidimensional                  |
| 3                         | Learning Obje  | ctives   | and purposefully i  | <u> </u>  | ie.  |   |

|    | justify and defend (independently developed) positions or problem solutions evaluate their own action processes in self- and external reflection and identify development po-   |
|----|---|
|    | tentials develop work processes for real problems and challenges.   |
| 4  | Teaching and Learning Methods lecture practice  |
| 5  | Module Entry Requirements none  |
| 6  | Mode of End-Of-Module Examination Written test: PO  |
| 7  | Prerequisites for Awarding of Credit Points  Passing the written examination of one course. A course is to be attended; the written examination relates to the content of one course.   |
| 8  | Other Programmes that Use the Module  Master of Science Business Administration - Supply Chain Management:     Supplementary Section Supply Chain Management  Master of Science Business Administration - Finance:     Supplementary Section Finance  Master of Science Business Administration - Accounting and Taxation:     Supplementary Section Accounting and Taxation  Master of Science Business Administration - Corporate Development:     Supplementary Section Corporate Development  Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs:     Ergänzungbereich Wirtschaftspädagogik  Master of Science Business Analytics & Econometrics:     Supplementary Section Business Analytics & Econometrics  Master of Science Information Systems:     Specialisation Section Information Systems |
| 9  | Module Manager UnivProf. Dr. Wolf Ketter  |
| 10 | Miscellaneous b) Required readings are announced at the beginning of the semester.  |

| SpM Dig                   | gital Strategy a   | and Marke   | ting             |  |                           |                            |  |
|---------------------------|--|---|------------------|--|---------------------------|----------------------------|--|
| Module Code<br>1266MSDSM1 |  | <b>Workload</b><br>180h   | ECTS Credits     | Module<br>Availability<br>every 2nd<br>term - sum-<br>mer term | Duration<br>1 Term        |                            |  |
| 1                         | Courses<br>Digital Strategy  | Courses Digital Strategy and Marketing  |                  |  | Self-Stu-<br>dies<br>135h | Course Language<br>English |  |
| 2                         | Module Content  The emergence of the internet, mobile devices, the ability to automate tasks and the abundance data is dramatically changing society and businesses. This module exposes students to a wide range of issues and questions related to this "digital" transformation. The module consists of both conceptual as well as applied tools and frameworks to understand business models and the organization of industries. The module aims at covering both the supply side (infrastructure, operations, etc.) as well as the demand side (customer, marketing, etc.). Students are expected to share their own knowledge and to use ongoing events (e.g., new companies, current news, IPOs, etc.) to applied tools are deviced to share their own knowledge and to use ongoing events (e.g., new companies, current news, IPOs, etc.) to applied tools are their own knowledge and to use ongoing events (e.g., new companies, current news, IPOs, etc.) to applied tools are their own knowledge and to use ongoing events (e.g., new companies, current news, IPOs, etc.) to applied tools are their own knowledge and to use ongoing events (e.g., new companies, current news, IPOs, etc.) to applied tools are their own knowledge and to use ongoing events (e.g., new companies). |   |                  |  |                           |                            |  |
| 3                         | Students understand et els, and tactical analyse curre as a result of dig assess and d justify and de act responsib  | Learning Objectives Students understand economic and strategic frameworks related to industrial organization, business models, and tactical decisions analyse current questions and challenges related to the ongoing changes in business and society as a result of digital technologies assess and discuss findings and research results of specialised theories / methods justify and defend (independently developed) positions or problem solutions act responsibly considering ecological, social and ethical criteria critically evaluate current social developments and develop alternative solutions. |                  |  |                           |                            |  |
| 4                         | Teaching and Lecture practice  | earning Meth  | ods              |  |                           |                            |  |
| 5                         | Module Entry F   |   | edge of marketin | g and economic   | cs                        |                            |  |
| 6                         | Mode of End-O<br>Written test: WT  |   | mination         |  |                           |                            |  |
| 7                         | Prerequisites for Passing the mod  | _   |                  |  |                           |                            |  |
| 8                         | Other Programmes that Use the Module  Master of Science International Management:  |   |                  |  |                           |                            |  |
| 9                         | Module Manage<br>UnivProf. Dr. H   |   |                  |  |                           |                            |  |

Valid for students of the ER 2015 (enrolment for winter semester 2020/21 at the latest)

#### 10 Miscellaneous

This module may consist of at least one course that takes place either until the middle of the semester (1. term) or from the middle of the semester onwards (2. term). You can find this information in the KLIPS entry of the corresponding course. The corresponding examinations of courses that take place in the 1. term are often offered in the middle of the semester.

| Specialisa                | ation Module   | Studies A   | Abroad I        |                    |                                      |                           |  |  |
|---------------------------|--|---|-----------------|--------------------|--------------------------------------|---------------------------|--|--|
| Module Code<br>1014SASc01 | e  | <b>Workload</b><br>180h   | ECTS Credits    | Module<br>Language | Module<br>Availability<br>every term | <b>Duration</b><br>1 Term |  |  |
| 1                         | Courses  |   |                 | Contact<br>Hours   | Self-Stu-<br>dies                    | Course Language           |  |  |
| 2                         |  | Module Content Depends on chosen course   |                 |                    |                                      |                           |  |  |
| 3                         | Students describe appr explain intern discuss and c develop new i  | Learning Objectives Students describe approaches to information systems from an international perspective explain international issues in the area of information systems discuss and compare different theories and approaches in the area of information systems develop new intellectual perspectives of their own educational background are better equipped to master the dynamic, global dimensions of their professional future. |                 |                    |                                      |                           |  |  |
| 4                         |  | Teaching and Learning Methods depending on course choice  |                 |                    |                                      |                           |  |  |
| 5                         | Module Entry R   | Requirements  |                 |                    |                                      |                           |  |  |
| 6                         | Mode of End-O<br>TR - depending  |   |                 |                    |                                      |                           |  |  |
| 7                         | Prerequisites for Depends on cho   |   | f Credit Points |                    |                                      |                           |  |  |
| 8                         | Other Programmes that Use the Module  Master of Science Information Systems:  Specialization Section Information Systems   |   |                 |                    |                                      |                           |  |  |
| 9                         | Module Manage  | er  |                 |                    |                                      |                           |  |  |
| 10                        | Miscellaneous Language: Can be offered in English or in any language possible at the host university. This module can be studied at a higher education institution in another country. There is a standardised crediting procedure for such cases. Information about course crediting (deadlines and procedures) can be obtained from the Credit Transfer Centre (WiSo Credit Transfer Centre: https://www.anrechnungwiso.uni-koeln.de/) This module can also be taken as part of a summer school organised by the WiSo Faculty. In this case, students must register for the examination in accordance with the rules of the WiSo Faculty prior to embarking on the module. |   |                 |                    |                                      |                           |  |  |

| SpM Com                  | SpM Computer Science I   |   |                       |   |  |   |  |
|--------------------------|--|---|-----------------------|---|--|---|--|
| Module Code<br>5722MSCSC |  |   |                       | Module<br>Language<br>German and<br>English | Module<br>Availability<br>every 2nd<br>term - winter<br>term | <b>Duration</b><br>1 Term   |  |
| 1                        | Courses<br>Computer Scien  | ce I  |                       | Contact<br>Hours<br>90h                     | Self-Stu-<br>dies<br>180h                                    | Course Language<br>German   |  |
| 2                        | Module Conten<br>Different topics  |   | computer science      | , the current co                            | urse offer can l   | pe seen in KLIPS.   |  |
| 3                        | Students understand ad justify and def   | Learning Objectives Students understand advanced, specialized theories / methods justify and defend (independently developed) positions or problem solutions develop work processes for real problems and challenges. |                       |   |  |   |  |
| 4                        | Teaching and Learning Methods lecture practice   |   |                       |   |  |   |  |
| 5                        | Module Entry Requirements Recommendation: CM Mathematics, CM Computer Science, AM Computer Science I, AM Computer Science II, Programming Project and if poss. SpM Computer Science from the B.Sc. Wirtschaftsinformatik.                  |   |                       |   |  |   |  |
| 6                        | Mode of End-O<br>Written test: WT<br>Oral examination  | (180)   | mination              |   |  |   |  |
| 7                        | Prerequisites for Awarding of Credit Points  Passing the module examination. Regular participation in the exercises as well as the successful completion of exercise tasks can be used as a prerequisite for admission to the examination. |   |                       |   |  |   |  |
| 8                        | Other Programmes that Use the Module  Master of Science Information Systems:  Specialization Section Information Systems   |   |                       |   |  |   |  |
| 9                        | Module Manage<br>Geschäftsführe  |   | in Institut für Infor | matik                                       |  |   |  |
| 10                       | ticipation in the  | exercises and i<br>ne current web   | ndependent work       | on the tasks a                              | re essential. Fo   | leration, therefore par-<br>or further information,<br>l-of-module examina- |  |

| SpM Con                 | nputer Scienc  | ce II  |                       |   |                           |                                       |  |
|-------------------------|--|--|-----------------------|---|---------------------------|---------------------------------------|--|
| Module Cod<br>5722MSCSC | -  | <b>Workload</b><br>270h  | ECTS Credits<br>9     | Module<br>Language<br>German and<br>English | <b>Duration</b><br>1 Term |                                       |  |
| 1                       | Courses Architecture and coprocessors  | l programming  | of graphics and       | Contact<br>Hours<br>90h                     | Self-Stu-<br>dies<br>180h | Course Language<br>German and English |  |
| 2                       | Part 1: (probable ming and related also a short intropert 2: (probable part the three algorithm "Rasterizatessors will be coussed.  Part 4: (probable will be given. In will be discussed.  Part 5: (probable part 5: (probable) | Part 1: (probably winter term) Performance of computer programs, contents are parallel programming and related paradigms (SIMD, Multithreading, Message Passing, Software Pipelining, etc.), also a short introduction to parallel algorithms and the PRAM / Work-Time paradigm.  Part 2: (probably winter term) Rendering Algorithms, Fundamentals of Computer Graphics. In this part the three algorithms "Rasterization", "Deferred Shading" and "Ray Tracing" will be discussed.  Part 3: (probably summer term) Rendering Pipeline. In this part, the relationship between the algorithm "Rasterization" and the rendering / rasterization pipeline implemented on modern graphics processors will be discussed. Compression algorithms, GPU caches and mobile GPUs will also be discussed.  Part 4: (probably summer term) GPGPU Programming. An introduction to the CUDA GPGPU API will be given. In addition, the programming of special hardware such as NVIDIA's ray tracing cores will be discussed.  Part 5: (probably summer term) Sorting on GPUs. In this final part of the lecture, sorting networks, the Bitonic Sort algorithm and its efficient implementation with CUDA will be discussed. |                       |   |                           |                                       |  |
| 3                       | Students understand ac justify and de  | Learning Objectives Students understand advanced, specialized theories / methods justify and defend (independently developed) positions or problem solutions develop work processes for real problems and challenges.  |                       |   |                           |                                       |  |
| 4                       | Teaching and L<br>lecture<br>practice  |  |                       |   |                           |                                       |  |
| 5                       | Recommendation   | Module Entry Requirements Recommendation: CM Mathematics, CM Computer Science, AM Computer Science I, AM Compute Science II, Programming Project and if poss. SpM Computer Science from the B.Sc. Wirtschaftsinformatik.   |                       |   |                           |                                       |  |
| 6                       | Written test: WT   | Mode of End-Of-Module Examination Written test: WT (180) Oral examination: OE  |                       |   |                           |                                       |  |
| 7                       | Passing the mod  | Prerequisites for Awarding of Credit Points  Passing the module examination. Regular participation in the exercises as well as the successful completion of exercise tasks can be used as a prerequisite for admission to the examination.   |                       |   |                           |                                       |  |
| 8                       | Other Program Master of Science Special  | ce Information   |                       | ems   |                           |                                       |  |
| 9                       | Module Manage<br>Geschäftsführe  |  | in Institut für Infol | matik                                       |                           |                                       |  |

Valid for students of the ER 2015 (enrolment for winter semester 2020/21 at the latest)

#### 10 Miscellaneous

The contents of the lecture cannot be learned exclusively by theoretical consideration, therefore participation in the exercises and independent work on the tasks are essential. For further information, please refer to the current web page of the event. The mentioned mode of end-of-module examination are specified per course.

| SpM Seminar Information Systems I |   |  |  |  |  |   |  |
|-----------------------------------|---|--|--|--|--|---|--|
| lodule Code<br>277MSSIS1          |   | Workload<br>180h   | ECTS Credits   | Module<br>Language<br>English                                      | Module<br>Availability<br>every term                                     | <b>Duration</b><br>1 Term   |  |
| 1                                 | Networks (Prof.<br>b) Advanced Se<br>Sustainable Soo  | Gloor) eminar Informat ciety (Prof. Kett eminar Informat ogy (Prof. Reck eminar Integrate Rosenkranz) eminar Informat  | ion Systems and<br>er)<br>ed Information   | Contact<br>Hours<br>a) 30h<br>b) 30h<br>c) 30h<br>d) 30h<br>e) 30h | Self-Stud-<br>ies<br>a) 150h<br>b) 150h<br>c) 150h<br>d) 150h<br>e) 150h | Course Language<br>a) English<br>b) English<br>c) English<br>d) English<br>e) English |  |
| 2                                 | a) Collaborative swarm creative swarm creative Social Networ Sentiment and Digital platforn  b) Business intel Data Science Future Energy Learning Agel Sharing Econe Smart Market  c) Conceptual M Business Proce Information Si Systems Anal Digital Innova Digital Entrep Green IS Environmenta  d) IT Outsourcing | Innovation Net vity, and coolhurk analysis alysis ms for collaborating Business omy selection reneurship al Sustainability gestems Development series and series of the se | related to: works (COINs) nting/ coolfarming ation and creativity Analytics  ment pment n  pment & IT Project nt | y  |  | d either to theory or   |  |

|    | e)  • Media Mass Customization  • Electronic Commerce  • Social Media & Social Network Analysis  • Openness,  • Management of Information Spheres and IT-Platforms  • Decision Support Systems  • Artificial Intelligence  |
|----|--|
| 3  | Learning Objectives Students prepare independently a research design for a question solve team-internal conflicts and target divergences independently use techniques of scientific work and good scientific practice.   |
| 4  | Teaching and Learning Methods seminar  |
| 5  | Module Entry Requirements none   |
| 6  | Mode of End-Of-Module Examination Combined examination: PRES, TP   |
| 7  | Prerequisites for Awarding of Credit Points Passing the module examination   |
| 8  | Other Programmes that Use the Module  Master of Science Information Systems:  Specialization Section Information Systems   |
| 9  | Module Manager UnivProf. Dr. Detlef Schoder  |
| 10 | Miscellaneous  Course registration for advanced seminars in Information Systems is usually organized in a joint process for all advanced seminar courses in one semester. Students are required to provide preferences for at least two different advanced seminar courses in KLIPS during the first enrolment period ("1. Belegungsphase"). Registration is usually not possible during the second enrolment period ("2. Belegungsphase") or during the enrolment period for remaining places ("Restplatzvergabe"). Students are then assigned to a specific advanced seminar, based on the provided preferences and capacities. Delivery and discussion of presentations, prepared in the form of written papers under guidance. Students will generally be advised of compulsory reading and the topics for the presentations towards the end of the preceding term. Which topics are to be assigned to which students is decided after they have been advised of the topics available, towards the end of the preceding term. To enhance the learning outcome and expand the creative component, the advanced seminar can also be project-based or in the style of a case study. In these cases, a specifically defined assignment is given in addition to the compulsory reading. The written paper and the presentation then report on the apporaches taken when attempting to answer the question or solve the task on the literature and the students' own work. |

|                          | inar Informa   |  | ms II  |  |  | , , , , , , , , , , , , , , , , , , ,                                  |
|--------------------------|--|--|--|--|--|--|
| Module Code<br>277MSSIS2 |  | Workload<br>180h   | ECTS Credits   | Module<br>Language<br>English                                      | Module<br>Availability<br>every term                                     | <b>Duration</b><br>1 Term  |
| 1                        | Courses  a) Advanced Seminar Collaborative Innovation Networks (Prof. Gloor) b) Advanced Seminar Information Systems for Sustainable Society (Prof. Ketter) c) Advanced Seminar Information Systems and Digital Technology (Prof. Recker) d) Advanced Seminar Integrated Information Systems (Prof. Rosenkranz) e) Advanced Seminar Information Manage- ment (Prof. Schoder) |  |  | Contact<br>Hours<br>a) 30h<br>b) 30h<br>c) 30h<br>d) 30h<br>e) 30h | Self-Stud-<br>ies<br>a) 150h<br>b) 150h<br>c) 150h<br>d) 150h<br>e) 150h | Course Language a) English b) English c) English d) English e) English |
| 2                        | a) Collaborative swarm creativ Social Networ Sentiment and Digital platform b) Business intel Data Science Future Energy Learning Ager Sharing Econd Smart Markets c) Conceptual Me Business Prod Information Sy Systems Analy Digital Innovat Digital Entrepr Green IS Environmenta d) IT Outsourcing   | Innovation Net ity, and coolhu k analysis alysis and Business at Business at Business and Business and Business at Business and Business and Business and Business and Business and Design and Design and Design and Design and Design at Business and Business an | related to: works (COINs) nting/ coolfarming ation and creativit  Analytics  ment pment n  pment & IT Project nt | y  |  | d either to theory or  |

|    | e)  • Media Mass Customization  • Electronic Commerce  • Social Media & Social Network Analysis  • Openness,  • Management of Information Spheres and IT-Platforms  • Decision Support Systems  • Artificial Intelligence   |
|----|---|
| 3  | Learning Objectives Students prepare independently a research design for a question solve team-internal conflicts and target divergences independently use techniques of scientific work and good scientific practice.  |
| 4  | Teaching and Learning Methods seminar   |
| 5  | Module Entry Requirements none  |
| 6  | Mode of End-Of-Module Examination Combined examination: PRES, TP  |
| 7  | Prerequisites for Awarding of Credit Points Passing the module examination  |
| 8  | Other Programmes that Use the Module  Master of Science Information Systems:  Specialization Section Information Systems  |
| 9  | Module Manager UnivProf. Dr. Detlef Schoder   |
| 10 | Miscellaneous Course registration for advanced seminars in Information Systems is usually organized in a joint process for all advanced seminar courses in one semester. Students are required to provide preferences for at least two different advanced seminar courses in KLIPS during the first enrolment period ("1. Belegungsphase"). Registration is usually not possible during the second enrolment period ("2. Belegungsphase") or during the enrolment period for remaining places ("Restplatzvergabe"). Students are then assigned to a specific advanced seminar, based on the provided preferences and capacities. Delivery and discussion of presentations, prepared in the form of written papers under guidance. Students will generally be advised of compulsory reading and the topics for the presentations towards the end of the preceding term. Which topics are to be assigned to which students is decided after they have been advised of the topics available, towards the end of the preceding term. To enhance the learning outcome and expand the creative component, the advanced seminar can also be project-based or in the style of a case study. In these cases, a specifically defined assignment is given in addition to the compulsory reading. The written paper and the presentation then report on the apporaches taken when attempting to answer the question or solve the task on the literature and the students' own work. |

| Specialisation Module Seminar Computer Science |  |  |                           |                         |                           |                           |  |  |
|--|--|--|---------------------------|-------------------------|---------------------------|---------------------------|--|--|
| Module Cod<br>1277SMSI03                       |  | Workload<br>180h   | <b>Duration</b><br>1 Term |                         |                           |                           |  |  |
| 1  | Courses<br>Hauptseminar Ir   | nformatik  |                           | Contact<br>Hours<br>20h | Self-Stu-<br>dies<br>160h | Course Language<br>German |  |  |
| 2  | The seminar tal<br>dents. Students<br>and a presentati<br>mathematical co<br>one series of lec | Module Content  The seminar takes a deeper look at areas of mathematical computer science already familiar to students. Students work independently on a predefined topic/project and present it in a semi-nar paper and a presentation. The content usually comprises selected literature from an ad-vanced area of mathematical computer science, which can usually be studied based on knowledge from at least one series of lectures within the Msc Information Systems from the specialisation modules read by the Department of Computer Science |                           |                         |                           |                           |  |  |
| 3  | Students are able to inconscience, conduct lated project wor can coherently apply educations.  | Learning Objectives Students are able to independently deepen their already advanced knowledge of mathematical com-puter science, conduct literature searches and use their results as a basis for independent, re-search-related project work can coherently present and discuss their findings. The general learning outcomes are the ability to apply educational methods learned on the programme when giving academic presentations and to engage in critical academic discussions, general presentation skills and commu-nication skills         |                           |                         |                           |                           |  |  |
| 4  | Teaching and L   | _earning Meth  | ods                       |                         |                           |                           |  |  |
| 5  | Module Entry R   | Requirements   |                           |                         |                           |                           |  |  |
| 6  | Mode of End-O<br>Combined exam   |  |                           |                         |                           |                           |  |  |
| 7  | -  | Prerequisites for Awarding of Credit Points Passing the combined test.   |                           |                         |                           |                           |  |  |
| 8  | Master of Science  | Other Programmes that Use the Module  Master of Science Information Systems:  Specialization Section Information Systems   |                           |                         |                           |                           |  |  |
| 9  | _  | Module Manager<br>Geschäftsführende*r Direktor*in Institut für Informatik  |                           |                         |                           |                           |  |  |
| 10   | Miscellaneous<br>For further inforr  | mation, please   | refer to the curre        | nt version of the       | e website for th          | e course in ques-tion.    |  |  |

# 3.6.3 Supplementary Section Information Systems

|                              |   |  | I   | 1  | T  |                           |  |  |
|------------------------------|---|--|---|--|--|---------------------------|--|--|
| <b>Module Co</b><br>1016MSTA |   | <b>Workload</b><br>180h  | ECTS Credits  | <b>Module Language</b> German  | Module<br>Availability<br>every 2nd<br>term - winter<br>term | Duration<br>1 Term        |  |  |
| 1                            | Courses Taxation of Com   | npanies I  |   | Contact<br>Hours<br>45h  | Self-Stu-<br>dies<br>135h                                    | Course Language<br>German |  |  |
| 2                            | Business taxa     Taxation of dif     Choice of lega     International b  | Module Content  Business taxation  Taxation of different legal structures (partnerships and corporations)  Choice of legal structure  International business taxation  Double taxation and anti-tax avoidance legislation  Case studies  |   |  |  |                           |  |  |
| 3                            | Students understand ac analyse curre assess and di  | Learning Objectives Students understand advanced, specialized methods in the area of tax law and business taxation analyse current questions and challenges in the area of business taxation assess and discuss findings and results of specialized methods justify and defend (independently developed) positions or problem solutions.   |   |  |  |                           |  |  |
| 4                            | Teaching and L<br>lecture<br>practice   | 1  |   |  |  |                           |  |  |
| 5                            | Module Entry R  | Requirements   |   |  |  |                           |  |  |
| 6                            | Mode of End-O<br>Written test: WT   |  | mination  |  |  |                           |  |  |
| 7                            | Prerequisites for Passing the mod   | _  | of Credit Points  |  |  |                           |  |  |
| 8                            | Master of Science Supplet Master of Education | ce Economics mentary Sections Business A mentary Sections Business A mentary Sections Business A mentary Sections Wirtschaft mentary Section Wirtschaft mentary Sections Sections Sections Section Sec | on<br>dministration - Fin<br>on Finance<br>Systems:<br>on Information Systems<br>dministration - Machinistration - Marketing<br>dministration - Coon Corporate Devitspädagogik/Lehron Business Educ | stems<br>rketing:<br>rporate Develo<br>elopment<br>amt an Berufsl<br>ation | kollegs:   |                           |  |  |

|    | Supplementary Section Accounting and Taxation  Master of Arts Regionalstudien China - Betriebswirtschaftslehre:  Business Administration Master Regional Studies China |
|----|--|
| 9  | Module Manager UnivProf. Dr. Michael Overesch  |
| 10 | Miscellaneous  |

| рм Та                            | xation II   |  |   |   |  |                           |  |  |
|----------------------------------|---|--|---|---|--|---------------------------|--|--|
| <b>Module Code</b><br>1016MSTAX2 |   | Workload ECTS Credit 180h 6  |   | Module<br>Language<br>German  | Module<br>Availability<br>every 2nd<br>term - sum-<br>mer term | <b>Duration</b><br>1 Term |  |  |
| 1                                | Courses<br>Taxation of Con  | ces Contact Hours dies 45h 135h  |   |   |  |                           |  |  |
| 2                                | <ul><li>Corporate tax</li><li>Tax planning</li><li>Tax planning</li></ul>   | <ul> <li>Module Content</li> <li>Corporate tax planning</li> <li>Tax planning in the case of mergers and acquisitions</li> <li>Tax planning in the case of international company structures</li> <li>Taxation and change of corporate form</li> <li>Case studies</li> </ul>  |   |   |  |                           |  |  |
| 3                                | Students understand a analyse curre assess and d justify and de   | Learning Objectives Students understand advanced, specialized methods in the area of tax law and business taxation analyse current questions and challenges in the area of business taxation assess and discuss findings and results of specialized methods justify and defend (independently developed) positions or problem solutions act responsibly considering ecological, social and ethical criteria. |   |   |  |                           |  |  |
| 4                                | Teaching and I<br>lecture<br>practice   |  |   |   |  |                           |  |  |
| 5                                | Module Entry F  | -  |   |   |  |                           |  |  |
| 6                                | Mode of End-O<br>Written test: WT   |  | mination  |   |  |                           |  |  |
| 7                                | Prerequisites f   |  | of Credit Points  |   |  |                           |  |  |
| 8                                | Master of Scient Supple Master of Scient Supple Master of Scient Supple Master of Scient Supple Master of Educa Supple Master of Scient Supple Master of Scient Supple Master of Scient Specia Supple | ce Economics mentary Sectice Business Amentary Sectice Information mentary Sectice Business Amentary Sectice Business Amentary Sectication Wirtschaften Wirtschaften Business Alization Section mentary Sectice Business Amentary Sectice Business Amentary Sectice Business Amentary Section mentary Section Mentary Section Section Mentary Section Mentary Section  | :<br>on<br>dministration - Fir<br>on Finance<br>Systems:<br>on Information Sy<br>dministration - Ma | stems irketing: rporate Develo elopment amt an Berufsl ation counting and T Taxation d Taxation | collegs:   |                           |  |  |

| 9  | Module Manager UnivProf. Dr. Michael Overesch |
|----|---|
| 10 | Miscellaneous                                 |

| SpM Со                    | ntrolling I  |  |   |   |  |                            |  |  |  |
|---------------------------|--|--|---|---|--|----------------------------|--|--|--|
| Module Code<br>1016MSCON1 |  | Workload<br>180h   | ECTS Credits  | Module<br>Language<br>English   | Module<br>Availability<br>every 2nd<br>term - winter<br>term | <b>Duration</b><br>1 Term  |  |  |  |
| 1                         | Courses<br>Operative Contr   | olling (1. Term  | )   | Contact<br>Hours<br>45h   | Self-Stu-<br>dies<br>135h                                    | Course Language<br>English |  |  |  |
| 2                         | Fundamentals     Theory, strate  | <ul> <li>Module Content</li> <li>Fundamentals of controlling</li> <li>Theory, strategies and methods to support controlling activities</li> <li>Controlling instruments</li> </ul>   |   |   |  |                            |  |  |  |
| 3                         | Students understand a communicate discuss scien cialists.  | understand advanced, specialized theories / methods in the area of operative controlling communicate continuously and purposefully in diverse teams discuss scientific topics in a professional manner and appropriate to the situation with (non-) spe-   |   |   |  |                            |  |  |  |
| 4                         | Teaching and L<br>lecture<br>practice  |  |   |   |  |                            |  |  |  |
| 5                         | Module Entry R<br>Recommendation<br>decision theory  |  |   | and external ac   | ccounting, inves   | tment, financing and       |  |  |  |
| 6                         | Mode of End-O<br>Written test: WT  |  | mination  |   |  |                            |  |  |  |
| 7                         | Prerequisites for Passing the mod  | _  | of Credit Points  |   |  |                            |  |  |  |
| 8                         | Supple Master of Science | ce Business A mentary Section Ce Business A mentary Section Economics mentary Section George Gesundheit mentary Section George International mentary Section Economics of Business A mentary Section George Gesundheit Gesun | dministration - Su<br>on Supply Chain I<br>dministration - Ma<br>on Marketing<br>dministration - Co<br>on Corporate Dev<br>:<br>on<br>sökonomie:<br>on Health Econon<br>al Management:<br>on International M<br>dministration - Fir<br>on Finance<br>Systems: | Management Irketing: Irporate Development Inics Inics Inics Inanagement Inance: |  |                            |  |  |  |
|                           | Master of Educa  | Supplementary Section Information Systems  Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs:  Supplementary Section Business Education  |   |   |  |                            |  |  |  |

|    | Master of Science Business Administration - Accounting and Taxation: Specialization Section Accounting and Taxation Supplementary Section Accounting and Taxation Master of Arts Regionalstudien China - Betriebswirtschaftslehre: Business Administration Master Regional Studies China |
|----|--|
| 9  | Module Manager UnivProf. Dr. Carsten Homburg   |
| 10 | Miscellaneous This course ends in the middle of the semester (1. term). The exam is offered at the end of the course.  |

| SpM Со                    | ntrolling II   |  |  |   |  |                            |  |  |  |
|---------------------------|--|--|--|---|--|----------------------------|--|--|--|
| Module Code<br>1016MSCON2 |  | 180h 6   |  | Module<br>Language<br>English                             | Module<br>Availability<br>every 2nd<br>term - winter<br>term | <b>Duration</b><br>1 Term  |  |  |  |
| 1                         | Courses<br>Strategic Contro  | olling (2. Term)   |  | Contact<br>Hours<br>45h                                   | Self-Stu-<br>dies<br>135h                                    | Course Language<br>English |  |  |  |
| 2                         | Introduction to     Conventional     More recent conventional  | Module Content  Introduction to strategic controlling  Conventional cost management instruments  More recent cost management instruments  Benchmarking   |  |   |  |                            |  |  |  |
| 3                         | Students understand ac communicate discuss scien cialists.   | understand advanced, specialized theories / methods in the area of strategic controlling communicate continuously and purposefully in diverse teams discuss scientific topics in a professional manner and appropriate to the situation with (non-) spe- |  |   |  |                            |  |  |  |
| 4                         | Teaching and L<br>lecture<br>practice  |  |  |   |  |                            |  |  |  |
| 5                         | Module Entry R<br>Recommendation<br>decision theory  | -  |  | and external ad   | ccounting, inves   | tment, financing and       |  |  |  |
| 6                         | Mode of End-O<br>Written test: WT  |  | mination   |   |  |                            |  |  |  |
| 7                         | Prerequisites for Passing the mod  | _  | of Credit Points<br>on   |   |  |                            |  |  |  |
| 8                         | Supple Master of Science Supple | ce Business A<br>mentary Section<br>ce Business A<br>mentary Section<br>ce Business A<br>mentary Section<br>ce Gesundheit<br>mentary Section<br>ce International<br>mentary Section<br>ce Business A<br>mentary Section                                  | dministration - Supply Chain I dministration - Macon Marketing dministration - Coon Corporate Devisor Son General Economie: on Health Economal Management: on International Ministration - Firon Finance | Management rketing: rporate Develoelopment nics anagement | •  |                            |  |  |  |
|                           | Supple   | aster of Science Information Systems: Supplementary Section Information Systems aster of Education Wirtschaftspädagogik/Lehramt an Berufskollegs:  |  |   |  |                            |  |  |  |

|   |    | Supplementary Section Business Education  Master of Science Business Administration - Accounting and Taxation: Specialization Section Accounting and Taxation Supplementary Section Accounting and Taxation  Master of Arts Regionalstudien China - Betriebswirtschaftslehre: Business Administration Master Regional Studies China |
|---|----|---|
|   | 9  | Module Manager UnivProf. Dr. Carsten Homburg  |
| , | 10 | Miscellaneous This course starts in the middle of the semester (2. term). The exam is offered at the end of the course.   |

|                           |   | M. 11   | F070 0 !!!       |                              | Ī.,  | D. atti                   |  |  |
|---------------------------|---|---|------------------|------------------------------|--|---------------------------|--|--|
| Module Code<br>1016MSACC1 |   | <b>Workload</b><br>180h   | 6                | Module<br>Language<br>German | Module Availability every 2nd term - winter term | Duration<br>1 Term        |  |  |
| 1                         | Courses<br>Sustainability Re  | eporting  |                  | Contact<br>Hours<br>45h      | Self-Stu-<br>dies<br>135h                        | Course Language<br>German |  |  |
| 2                         | Conceptual ar General Requester Reporting on Reporting on Reporting on Preparing Sus Assuring Sus   | Module Content  Conceptual and Institutional Background General Requirements Reporting on Governance Issues Reporting on Environmental Issues Reporting on Social Issues Preparing Sustainability Reports Assuring Sustainability Reports Analyzing Sustainability Reports  |                  |                              |  |                           |  |  |
| 3                         | Students understand ac analyse curre assess and di justify and de   | Learning Objectives Students understand advanced, specialized theories / methods in the area of sustainability/ESG reporting analyse current questions and challenges in the area of sustainability/ESG reporting assess and discuss findings and research results of specialized theories / methods justify and defend (independently developed) positions or problem solutions critically evaluate current social developments and develop alternative solutions. |                  |                              |  |                           |  |  |
| 4                         | Teaching and L<br>lecture<br>practice   |   |                  |                              |  |                           |  |  |
| 5                         | Module Entry R  | Requirements  |                  |                              |  |                           |  |  |
| 6                         | Mode of End-O<br>Written test: WT   |   | mination         |                              |  |                           |  |  |
| 7                         | Prerequisites for Passing the mod   | _   | of Credit Points |                              |  |                           |  |  |
| 8                         | Other Programmes that Use the Module  Master of Science Business Administration - Supply Chain Management:     Supplementary Section Supply Chain Management  Master of Science Business Administration - Marketing:     Supplementary Section Marketing  Master of Science Business Administration - Finance:     Supplementary Section Finance  Master of Science Information Systems:     Supplementary Section Information Systems  Master of Science Business Administration - Corporate Development:     Supplementary Section Corporate Development  Master of Science Informatik:     Anwendungsfeld  Master of Science Geographie: |   |                  |                              |  |                           |  |  |

|    | Master of Science Economics:     Supplementary Section Management & Social Sciences  Master of Science Mathematik:     Economics Sciences  Master of Science Wirtschaftsmathematik:     Economics Sciences  Master of Science International Management:     Supplementary Section International Management  Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs:     Ergänzungbereich Wirtschaftspädagogik  Master of Arts Regionalstudien China - Betriebswirtschaftslehre:     Ergänzungsbereich Business Administration  Master of Science Business Administration - Accounting and Taxation:     Specialisation Section Accounting and Taxation |
|----|---|
| 9  | Module Manager Prof. Dr. Maximilian A. Müller   |
| 10 | Miscellaneous The examination is offered in every term.   |

| SpM Ac                    | counting II   |   |                  |                              |  |                           |  |  |
|---------------------------|---|---|------------------|------------------------------|--|---------------------------|--|--|
| Module Code<br>1016MSACC2 |   | Workload<br>180h  | ECTS Credits     | Module<br>Language<br>German | Module<br>Availability<br>every 2nd<br>term - sum-<br>mer term | Duration<br>1 Term        |  |  |
| 1                         | Courses<br>International Ac   | counting  |                  | Contact<br>Hours<br>45h      | Self-Stu-<br>dies<br>135h                                      | Course Language<br>German |  |  |
| 2                         | <ul><li>Theoretical as</li><li>IASB-Framew</li><li>Recognition a</li></ul>  | Module Content  Theoretical as well as institutional foundations of IFRS  IASB-Framework  Recognition and measurement of different classes of assets and liabilities  Special issues of individual and consolidated IFRS reports  |                  |                              |  |                           |  |  |
| 3                         | Students understand a analyse curre gain confiden respect to recog acquire know solve new pro in the module.  | understand advanced, specialized theories / methods in the area international accounting analyse current questions and challenges in the area of uninternational accounting gain confidence in reporting according to international financial reporting standards (IFRS) with respect to recognition as well as measurement issues acquire knowledge enabling them to interpret IFRS in light of their principle-based character solve new problems and cases, using the subject-related and methodological competence taught |                  |                              |  |                           |  |  |
| 4                         | Teaching and I<br>lecture<br>practice   | earning Metl  | nods             |                              |  |                           |  |  |
| 5                         | Module Entry F  | Requirements  | :                |                              |  |                           |  |  |
| 6                         | Mode of End-O<br>Written test: WT   |   | ımination        |                              |  |                           |  |  |
| 7                         | Prerequisites for Passing the modern  | _   | of Credit Points |                              |  |                           |  |  |
| 8                         | Other Programmes that Use the Module  Master of Science Economics:     Supplementary Section  Master of Science Business Administration - Finance:     Supplementary Section Finance  Master of Science Information Systems:     Supplementary Section Information Systems  Master of Science Business Administration - Marketing:     Supplementary Section Marketing  Master of Science Business Administration - Corporate Development:     Supplementary Section Corporate Development  Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs:     Supplementary Section Business Education  Master of Science Business Administration - Accounting and Taxation:     Specialization Section Accounting and Taxation  Supplementary Section Accounting and Taxation |   |                  |                              |  |                           |  |  |

|    | Master of Arts Regionalstudien China - Betriebswirtschaftslehre: Business Administration Master Regional Studies China |
|----|--|
| 9  | Module Manager N. N.   |
| 10 | Miscellaneous The examination is offered in every term.  |

| SpM Selected Issues in Accounting & Taxation I |  |  |   |  |   |  |  |  |
|--|--|--|---|--|---|--|--|--|
| Module Code<br>1016MSSIS1                      |  | <b>Workload</b><br>180h  | ECTS Credits  | Module<br>Language<br>German and<br>English                                  | Module<br>Availability<br>every 2nd<br>term - sum-<br>mer term                | <b>Duration</b><br>1 Term  |  |  |
| 1  | Courses a) Tax Accounting b) Financial Service and Real Estate Taxation c) Taxation of Family Business d) Selected Issues in Controlling I e) Annual Audit f) Special Audits                                   |  |   | Contact<br>Hours<br>a) 30h<br>b) 30h<br>c) 30h<br>d) 30h<br>e) 30h<br>f) 30h | Self-Stud-<br>ies<br>a) 60h<br>b) 60h<br>c) 60h<br>d) 60h<br>e) 60h<br>f) 60h | Course Language a) English b) English c) German d) English e) German f) German |  |  |
| 2  |  | Module Content Selected Issues in managerial accounting, financial accounting, auditing or business taxation   |   |  |   |  |  |  |
| 3  | Students understand ad analyse curre assess and di justify and dei discuss topics  | Learning Objectives Students understand advanced, specialized theories or methods in accounting or taxation analyse current questions and challenges in accounting or taxation assess and discuss findings and research results of specialized theories / methods justify and defend (independently developed) positions or problem solutions discuss topics in a professional manner and appropriate to the situation with specialists develop work processes for real problems and challenges.   |   |  |   |  |  |  |
| 4  | Teaching and L   | earning Meth   | ods   |  |   |  |  |  |
| 5  | Module Entry R   | Requirements   |   |  |   |  |  |  |
| 6  | Mode of End-O<br>Written test: PO  | f-Module Exa   | mination  |  |   |  |  |  |
| 7  | Prerequisites for Passing the model lectures.  |  |   | must be taken.   | The exam cov  | ers the content of two   |  |  |
| 8  | Supple Master of Science Supple | ce Business Admentary Section ce Business Admentary Section ce Economics: mentary Section ce International mentary Section ce Business Admentary Section ce Business Admentary Section ce Information mentary Section ce Information ce Information mentary Section ce Information ce Informati | dministration - Su<br>on Supply Chain Maninistration - Ma<br>on Marketing<br>dministration - Co<br>on Corporate Dev<br>on<br>I Management:<br>on International Maninistration - Fin<br>on Finance | Management rketing: rporate Developelopment anagement ance:                  | pment:  |  |  |  |

|    | Supplementary Section Business Education  Master of Science Business Administration - Accounting and Taxation:  Specialization Section Accounting and Taxation  Supplementary Section Accounting and Taxation |
|----|---|
| 9  | Module Manager Area Accounting and Taxation   |
| 10 | Miscellaneous   |

| SpM Selected Issues in Accounting & Taxation II |  |                         |                   |  |   |   |  |
|---|--|-------------------------|-------------------|--|---|---|--|
| Module Code<br>1016MSSIS2                       |  | <b>Workload</b><br>180h | ECTS Credits      | Module<br>Language<br>German and<br>English                        | Module<br>Availability<br>every 2nd<br>term - winter<br>term        | <b>Duration</b><br>1 Term   |  |
| 1   | Courses  a) International Tax Planning b) Taxation of Corporate Groups c) Consolidated Balance Sheets d) Selected Issues in Business Valuation e) Selected Issues in Controlling II  |                         |                   | Contact<br>Hours<br>a) 30h<br>b) 30h<br>c) 30h<br>d) 30h<br>e) 30h | Self-Stud-<br>ies<br>a) 60h<br>b) 60h<br>c) 60h<br>d) 60h<br>e) 60h | Course Language a) English b) German c) German d) German e) English |  |
| 2   | Module Conten<br>Selected Issues<br>business taxatio   | in managerial           | accounting, finar | ncial accounting, auditing , business valuation or                 |   |   |  |
| 3   | Learning Objectives Students understand advanced, specialized theories or methods in accounting or taxation analyse current questions and challenges in accounting or taxation assess and discuss findings and research results of specialized theories / methods justify and defend (independently developed) positions or problem solutions discuss topics in a professional manner and appropriate to the situation with special develop work processes for real problems and challenges. |                         |                   |  |   | nethods.<br>s.  |  |
| 4   | Teaching and L   | earning Meth.           | ods               |  |   |   |  |
| 5   | Module Entry R<br>None   | dequirements            |                   |  |   |   |  |
| 6   | Mode of End-O<br>Written test: PO  |                         | nination          |  |   |   |  |
| 7   | Prerequisites for Awarding of Credit Points  Passing the module examination: Two lectures have to be chosen. The exam covers the content of two lectures.  |                         |                   |  |   |   |  |
| 8   | Other Programmes that Use the Module  Master of Science Business Administration - Finance:     Supplementary Section Finance  Master of Science Information Systems:     Supplementary Section Information Systems  Master of Science Business Administration - Accounting and Taxation:     Supplementary Section Accounting and Taxation Specialisation Section Accounting and Taxation  |                         |                   |  |   |   |  |
| 9   | Module Manage<br>Area Accounting   |                         |                   |  |   |   |  |
| 10  | Miscellaneous  |                         |                   |  |   |   |  |

| SpM Ad                    | vanced Accou   | ınting  |                  |                               |  |                            |  |
|---------------------------|--|---|------------------|-------------------------------|--|----------------------------|--|
| Module Code<br>1016MSAAC1 |  | Workload<br>180h ECTS Credits<br>6  |                  | Module<br>Language<br>English | Module<br>Availability<br>every 2nd<br>term - sum-<br>mer term | Duration<br>1 Term         |  |
| 1                         | Courses<br>Value-based Co  | entrolling  |                  | Contact<br>Hours<br>45h       | Self-Stu-<br>dies<br>135h                                      | Course Language<br>English |  |
| 2                         | Basics of valu Characteristic Effect of capit Shareholder v Discounted ca Value-based i Working capit Risk measure   | Module Content  Basics of value-based controlling (including traditional financial indicators)  Characteristics of capital markets  Effect of capital structure on business value  Shareholder value approach  Discounted cash flow (DCF) method  Value-based indicators and their steering  Working capital management, especially cash management  Risk measurement and risk management  Implementation of a value-based strategy |                  |                               |  |                            |  |
| 3                         | Students understand ac analyse curre collect, syster justify and de discuss scien cialists act responsib   | understand advanced, specialized theories / methods analyse current questions and challenges collect, systematize and synthesize independently literature on selected scientific questions justify and defend (independently developed) positions or problem solutions discuss scientific topics in a professional manner and appropriate to the situation with (non-) spe-   |                  |                               |  |                            |  |
| 4                         | Teaching and L<br>lecture<br>practice  | earning Meth  | nods             |                               |  |                            |  |
| 5                         | Module Entry R   |   |                  | and external ac               | ccounting, inves   | stment and financing       |  |
| 6                         | Mode of End-O<br>Written test: WT  |   | mination         |                               |  |                            |  |
| 7                         | Prerequisites for Passing the modern   | _   | of Credit Points |                               |  |                            |  |
| 8                         | Other Programmes that Use the Module  Master of Science Business Administration - Supply Chain Management:     Supplementary Section Supply Chain Management  Master of Science Business Administration - Marketing:     Supplementary Section Marketing  Master of Science Business Administration - Corporate Development:     Supplementary Section Corporate Development  Master of Science Economics:     Supplementary Section  Master of Science Gesundheitsökonomie: |   |                  |                               |  |                            |  |

|    | Supplementary Section Health Economics                               |
|----|--|
|    | Master of Science International Management:                          |
|    | Supplementary Section International Management                       |
|    | Master of Science Business Administration - Finance:                 |
|    | Supplementary Section Finance  |
|    | Master of Science Information Systems:                               |
|    | Supplementary Section Information Systems                            |
|    | Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs:   |
|    | Supplementary Section Business Education                             |
|    | Master of Science Business Administration - Marketing:               |
|    | Specialization Section Marketing                                     |
|    | Master of Science Business Administration - Accounting and Taxation: |
|    | Specialization Section Accounting and Taxation                       |
|    | Supplementary Section Accounting and Taxation                        |
|    | Master of Arts Regionalstudien China - Betriebswirtschaftslehre:     |
|    | Business Administration Master Regional Studies China                |
| 9  | Module Manager   |
|    | UnivProf. Dr. Carsten Homburg  |
| 10 | Miscellaneous  |

| Specialis                 | ation Module  | Research  | in Finance                             | (Research                                   | Track)                              |                           |  |  |
|---------------------------|---|---|--|---|-------------------------------------|---------------------------|--|--|
| Module Code<br>1259RiFi01 |   | Workload<br>180h  | ECTS Credits                           | Module<br>Language<br>German and<br>English | Module<br>Availability<br>irregular | <b>Duration</b><br>1 Term |  |  |
| 1                         | b) Empirical Res  | Courses a) Empirical Research in Asset Management b) Empirical Research in Corporate Finance c) Wissenschaftliches Arbeiten in Finance: Von der der Idee zur Veröffentlichung  Contact Hours ies a) 30h b) 150h b) English c) German c) 30h c) 35h  |  |   |                                     |                           |  |  |
| 2                         | Empirical Reservence Current issue Critical assesvence Methodical im Guidance on Empirical Reservence Current issue Critical assesvence Methodical im Guidance on Scientific work in  | Module Content  Empirical Research in Corporate Finance  • Current issues in capital market research, focusing on asset management  • Critical assessment of pivotal studies in this area  • Methodical implementation of empirical investigations  • Guidance on independent research  Empirical Research in Asset Management  • Current issues in capital market research, focusing on asset management  • Critical assessment of pivotal studies in this area  • Methodical implementation of empirical investigations  • Guidance on independent research  Scientific work in Finance: From Idea to Publication  • Development of a research proposal in the field of finance  • Preparation of the proposal for a research paper |  |   |                                     |                           |  |  |
| 3                         |   | own research i<br>ds for conducti<br>r own research   | ng their own rese<br>n proposals and w |   | ito papers.                         |                           |  |  |
| 4                         | Teaching and L<br>lecture<br>practice<br>seminar  | earning Meth.   | ods                                    |   |                                     |                           |  |  |
| 5                         | Module Entry Requirements Recommended: Extensive knowledge of finance and statistics. We recommend a minimum of 42 LPs from the Core and Advanced as well as from the Specialization section with a minimum average grade of 2.0. |   |  |   |                                     |                           |  |  |
| 6                         |   | Mode of End-Of-Module Examination Combined examination: PRES, TP  |  |   |                                     |                           |  |  |
| 7                         | Prerequisites for Awarding of Credit Points  Passing the combined examination. Only one course must an can be attended; the examination refers to topics of only one course.  |   |  |   |                                     |                           |  |  |
| 8                         | Other Programmes that Use the Module  Master of Science Business Administration - Supply Chain Management:  |   |  |   |                                     |                           |  |  |

|    | Supplementary Section Supply Chain Management  Master of Science Business Administration - Finance:     Supplementary Section Finance  Master of Science Information Systems:     Supplementary Section Information Systems  Master of Science Business Administration - Marketing:     Supplementary Section Marketing  Master of Science Business Administration - Corporate Development:     Supplementary Section Corporate Development  Master of Science Business Administration - Accounting and Taxation:     Supplementary Section Accounting and Taxation  Master of Science Business Administration - Finance:     Specialization Section Finance |
|----|--|
| 9  | Module Manager UnivProf. Dr. Dieter Hess UnivProf. Dr. Alexander Kempf Dr. Alexander Pütz  |
| 10 | Miscellaneous Only one course (a, b, or c) must and can be attended. The courses are offered on an irregular basis.  |

| Module Code<br>1253SMSC02 |   | Workload 180h ECTS Credits   |                   | Module<br>Language<br>German and<br>English | Module<br>Availability<br>irregular | <b>Duration</b><br>1 Term |  |  |
|---------------------------|---|--|-------------------|---|-------------------------------------|---------------------------|--|--|
| 1                         |   | Courses a) Elective Corporate Development II b) Sustainability & Strategy  Contact Hours ies a) 4 German and Er b) 30h b) 30h b) 150h b) English   |                   |   |                                     |                           |  |  |
| 2                         | Module Conten<br>Varying topics i   |  | orporate developr | nent  |                                     |                           |  |  |
| 3                         | Students discuss currer perform analy apply theoreti engage in aca  | Learning Objectives  |                   |   |                                     |                           |  |  |
| 4                         | Teaching and L  | Teaching and Learning Methods seminar  |                   |   |                                     |                           |  |  |
| 5                         |   | Module Entry Requirements No recommendations   |                   |   |                                     |                           |  |  |
| 6                         |   | Mode of End-Of-Module Examination Written test: WT (60)  |                   |   |                                     |                           |  |  |
| 7                         | Prerequisites for Passing the writt to topics of only   | ten examinatio   |                   | se must an can                              | be attended; th                     | ne examination refers     |  |  |
| 8                         | Master of Science Supplei Master of Science | Other Programmes that Use the Module  Master of Science Business Administration - Supply Chain Management:     Supplementary Section Supply Chain Management  Master of Science Business Administration - Finance:     Supplementary Section Finance  Master of Science Information Systems:     Supplementary Section Information Systems  Master of Science Business Administration - Marketing:     Supplementary Section Marketing  Master of Science Business Administration - Corporate Development:     Supplementary Section Corporate Development  Master of Science Business Administration - Accounting and Taxation:     Supplementary Section Accounting and Taxation  Master of Science Business Administration - Corporate Development:     Supplementary Section Accounting and Taxation |                   |   |                                     |                           |  |  |
| 9                         | Module Manage<br>UnivProf. Dr. M<br>UnivProf. Dr. B<br>UnivProf. Dr. D  | lark Ebers<br>ernd Irlenbusc   | h                 |   |                                     |                           |  |  |

| 10 | Miscellaneous  |
|----|--|
|    | Discuss, develop and implement corporate development methods in teams and with the lecturer. |

| CM Adva                      | anced Mathen   | natics   |  |  |  |                           |  |  |
|------------------------------|--|--|--|--|--|---------------------------|--|--|
| <b>Module Co</b><br>1302MBAM |  | <b>Workload</b><br>180h  | ECTS Credits   | Module<br>Language<br>English  | Module<br>Availability<br>every 2nd<br>term - winter<br>term | <b>Duration</b><br>1 Term |  |  |
| 1                            | Courses<br>Advanced Mathe  | Contact Self-Stu-dies English 60h  Contact Hours dies English  |  |  |  |                           |  |  |
| 2                            | Overview of e     Metric and sta     Linear algebra     Differential cal   | Module Content  Overview of elementary mathematical concepts  Metric and standardized spaces  Linear algebra  Differential calculus and applications  Convex sets and concave functions  Optimisation  |  |  |  |                           |  |  |
| 3                            | Students apply mathem  | Learning Objectives Students apply mathematical argumentation and proof techniques correctly formulate economic problems occurring in research mathematically and solve them.  |  |  |  |                           |  |  |
| 4                            | Teaching and L<br>lecture<br>practice  |  |  |  |  |                           |  |  |
| 5                            | Module Entry R   | Module Entry Requirements none   |  |  |  |                           |  |  |
| 6                            |  | Mode of End-Of-Module Examination Written test: WT (90)  |  |  |  |                           |  |  |
| 7                            | · ·  | Prerequisites for Awarding of Credit Points Passing the module examination   |  |  |  |                           |  |  |
| 8                            | Supple Master of Science | ce Business Amentary Section Business Amentary Business Business Busines | dministration - Su<br>on Supply Chain M<br>dministration - Fin<br>on Finance<br>Systems:<br>on Information Syd<br>dministration - Ma<br>on Marketing<br>dministration - Co<br>on Corporate Dev<br>dministration - Accounting and | Management ance: stems rketing: rporate Develoelopment counting and T d Taxation | ppment:  |                           |  |  |
| 9                            | Module Manage  | Core and Advanced Section Economic Research  Module Manager UnivProf. Dr. Martin Barbie  |  |  |  |                           |  |  |

Valid for students of the ER 2015 (enrolment for winter semester 2020/21 at the latest)

10 Miscellaneous

| CM Selec                  | cted Methods   | in Econo   | mics  |   |  |                           |  |  |
|---------------------------|--|--|---|---|--|---------------------------|--|--|
| Module Code<br>1289MBEXE1 |  |  | ECTS Credits  | Module<br>Language<br>English   | Module<br>Availability<br>every 2nd<br>term - sum-<br>mer term | <b>Duration</b><br>1 Term |  |  |
| 1                         | Courses<br>Experimental Me   | Contact Self-Stu- kperimental Methods Hours dies English  60h 120h   |   |   |  |                           |  |  |
| 2                         | • Experimental • Experimental  | Module Content  • Experimental Methods in economics  • Experimental designs  • Analysing experimental data   |   |   |  |                           |  |  |
| 3                         | Students understand ac analyse curre assess and di analyse data present scien critically evalu   | Learning Objectives Students understand advanced, specialized theories / methods in the area of experimental Economics analyse current questions and challenges in the area of Microeconomics assess and discuss findings and research results of specialized methods analyse data for selected scientific questions using quantitative methods present scientific results in a way that is appropriate for the target audience critically evaluate current social developments and develop alternative solutions use techniques of scientific work and good scientific practice.  |   |   |  |                           |  |  |
| 4                         | Teaching and L<br>lecture<br>practice  |  |   |   |  |                           |  |  |
| 5                         | 1  | Module Entry Requirements  Recommendation: Bachelor Level Microeconomics, Macroeconomics, Mathematics  |   |   |  |                           |  |  |
| 6                         | Mode of End-O<br>Written test: WT  |  | mination  |   |  |                           |  |  |
| 7                         | -  | Prerequisites for Awarding of Credit Points Passing the module examination   |   |   |  |                           |  |  |
| 8                         | Core at Supple Master of Science Supple Master of Arts P | ce Business Adnd Advanced Sementary Sections Information Mentary Sections Business Admentary Sections Informations Information Inform | dministration - Su<br>Section Supply Chain Manual<br>dministration - Find<br>on Finance<br>Systems:<br>on Information - Manual<br>dministration - Manual<br>dministration - Co<br>on Corporate Devi | lain Management Management Management Mance:  stems rketing:  rporate Develo elopment counting and T d Taxation | opment:  |                           |  |  |

|    | Master of Science Business Administration - Finance: |
|----|--|
| 9  | Module Manager UnivProf. Michael Krause, Ph.D.       |
| 10 | Miscellaneous  |

| M Com                       | nputational Me  | ethods  |   |   |  |                           |  |  |
|-----------------------------|---|---|---|---|--|---------------------------|--|--|
| <b>lodule Co</b><br>302MACM |   | Workload<br>180h  | ECTS Credits  | Module<br>Language<br>English   | Module<br>Availability<br>every 2nd<br>term - sum-<br>mer term | <b>Duration</b><br>1 Term |  |  |
| 1                           | Courses<br>Computational N  | Contact Self-Stu- Course Language Hours dies English  |   |   |  |                           |  |  |
| 2                           | <ul><li>Programming</li><li>Numerical app</li><li>Numerical sole</li><li>Application to</li></ul>   | Module Content  Programming numerical algorithms  Numerical approximation  Numerical solution of zeroing and optimization problems  Application to canonical economic problems  Parametrization, solution and simulation of structural economic models                              |   |   |  |                           |  |  |
| 3                           | Students apply numeric economic mode interpret resu   | Learning Objectives Students apply numerical methods and programs for the solution and simulation of quantitative structural economic models interpret results of the application of numerical models use the technical language in a way that is appropriate for the target group. |   |   |  |                           |  |  |
| 4                           | Teaching and L<br>lecture<br>practice   |   |   |   |  |                           |  |  |
| 5                           | Module Entry F  | Requirements  |   |   |  |                           |  |  |
| 6                           | Mode of End-O<br>Written test: WT   |   | mination  |   |  |                           |  |  |
| 7                           | Prerequisites for Passing the mod   |   | of Credit Points  |   |  |                           |  |  |
| 8                           | Supple Master of Science Supple Master of Arts R Econor Master of Arts R | ce Business A<br>mentary Secti<br>ce Business A<br>mentary Secti<br>ce Information<br>mentary Secti<br>ce Business A<br>mentary Secti<br>ce Business A<br>mentary Secti<br>ce Business A<br>mentary Secti<br>ce Business A<br>mentary Secti<br>Regionalstudies<br>Regionalstudies   | dministration - Su<br>on Supply Chain I<br>dministration - Fir<br>on Finance<br>Systems:<br>on Information Sy<br>dministration - Ma | Management nance: stems rketing: rporate Development counting and 1 d Taxation tschaftslehre: hina uropa - Volksw | opment:<br><sup>-</sup> axation:                               |                           |  |  |
|                             | Master of Science   | ce Economic F   |   |   |  |                           |  |  |

|    | Specialization Section Economic Research Master of Arts Regionalstudien Lateinamerika - Volkswirtschaftslehre: Economics Master Regional Studies Latin America |
|----|--|
| 9  | Module Manager UnivProf. Dr. Andreas Schabert  |
| 10 | Miscellaneous  |

| CM Advanced Microeconomics I     |  |   |              |   |  |                            |  |  |  |
|----------------------------------|--|---|--------------|---|--|----------------------------|--|--|--|
| <b>Module Code</b><br>1289MBAMI1 |  | <b>Workload</b><br>180h   | ECTS Credits | <b>Module</b><br><b>Language</b><br>English | Module<br>Availability<br>every 2nd<br>term - winter<br>term | <b>Duration</b><br>1 Term  |  |  |  |
| 1                                | Courses<br>Advanced Micro  | economics I   |              | Contact<br>Hours<br>60h                     | Self-Stu-<br>dies<br>120h                                    | Course Language<br>English |  |  |  |
| 2                                | • Theory of hou • Theory of the  | Module Content  • Theory of household and demand  • Theory of the enterprise and the supply  • Market equilibrium   |              |   |  |                            |  |  |  |
| 3                                | Students understand m are proficient of individual dec use mathema   | understand modern microeconomic concepts are proficient in the most important techniques of microeconomic analysis, such as the analysis of individual decision-making behaviour use mathematical models to investigate price formation in markets modify these models to recognize their limitations and to analyse the effects of political interven- |              |   |  |                            |  |  |  |
| 4                                | Teaching and L<br>lecture<br>practice  |   |              |   |  |                            |  |  |  |
| 5                                | -  | Module Entry Requirements Recommendation: Good basic knowledge of microeconomics and mathematics  |              |   |  |                            |  |  |  |
| 6                                |  | Mode of End-Of-Module Examination Written test: WT (60)   |              |   |  |                            |  |  |  |
| 7                                |  | Prerequisites for Awarding of Credit Points Passing the module examination  |              |   |  |                            |  |  |  |
| 8                                | Other Programmes that Use the Module  Master of Science Business Administration - Supply Chain Management:     Supplementary Section Supply Chain Management  Master of Science Business Administration - Finance:     Supplementary Section Finance  Master of Science Information Systems:     Supplementary Section Information Systems  Master of Science Business Administration - Marketing:     Supplementary Section Marketing  Master of Science Business Administration - Corporate Development:     Supplementary Section Corporate Development  Master of Science Business Administration - Accounting and Taxation:     Supplementary Section Accounting and Taxation  Master of Science Economics:     Supplementary Section  Master of Science Economic Research:     Core and Advanced Section Economic Research |   |              |   |  |                            |  |  |  |
|                                  | Master of Science<br>Core an   | ce Economic F<br>nd Advanced S  | Research:    |   |  |                            |  |  |  |

| 9  | Module Manager UnivProf. Dr. Johannes Münster |
|----|---|
| 10 | Miscellaneous                                 |

| CM Adv                    | anced Microe   | conomics   | II   |   |  |                            |  |  |
|---------------------------|--|--|--|---|--|----------------------------|--|--|
| Module Code<br>1289MBAMI2 |  | <b>Workload</b><br>180h  | ECTS Credits   | Module<br>Language<br>English   | Module<br>Availability<br>every 2nd<br>term - sum-<br>mer term | Duration<br>1 Term         |  |  |
| 1                         | Courses<br>Advanced Micro  | economics II   |  | Contact<br>Hours<br>60h   | Self-Stu-<br>dies<br>120h                                      | Course Language<br>English |  |  |
| 2                         | Static games v     Dynamic game principle, bargai     Static games v     Dynamic game signalling games v     Mechanism de  | <ul> <li>Module Content</li> <li>Static games with complete information: Nash Equilibrium, Mixed Strategies</li> <li>Dynamic games with complete information: subgame perfect Nash Equilibrium, one-shot deviation principle, bargaining, forward induction</li> <li>Static games with incomplete information: Bayesian Nash Equilibrium, auctions</li> <li>Dynamic games with incomplete information: Perfect Bayesian Nash Equilibrium and refinements signalling games</li> <li>Mechanism design and social preferences aggregation</li> <li>Current developments in game theory and mechanism design</li> </ul>  |  |   |  |                            |  |  |
| 3                         | Students acquire and d nism design.  | acquire and deepen methodological knowledge in the field of modern game theory and mecha-  |  |   |  |                            |  |  |
| 4                         | Teaching and L<br>lecture<br>practice  |  |  |   |  |                            |  |  |
| 5                         | Module Entry R   | Module Entry Requirements none   |  |   |  |                            |  |  |
| 6                         |  | Mode of End-Of-Module Examination Written test: WT (60)  |  |   |  |                            |  |  |
| 7                         | Prerequisites for Passing the mod  |  |  |   |  |                            |  |  |
| 8                         | Supple<br>Master of Science<br>Supple<br>Master of Science<br>Supple<br>Master of Science<br>Supple<br>Master of Science<br>Supple<br>Master of Science<br>Supple<br>Master of Science | ce Business Admentary Section ce Business Admentary Section ce Information mentary Section ce Business Admentary Section ce Bu | dministration - Supon Supply Chain Maninistration - Finds Fi | Management ance: stems rketing: rporate Developelopment counting and Ta | pment:   |                            |  |  |

|    | Core and Advanced Section Economic Research Specialization Section Economic Research |
|----|--|
| 9  | Module Manager UnivProf. Dr. Christoph Schottmüller                                  |
| 10 | Miscellaneous  |

| CM Advanced Macroeconomics I |  |   |              |                               |  |                            |  |  |
|------------------------------|--|---|--------------|-------------------------------|--|----------------------------|--|--|
| Module Code<br>1302MBAMA1    |  | <b>Workload</b><br>180h   | ECTS Credits | Module<br>Language<br>English | Module<br>Availability<br>every 2nd<br>term - winter<br>term | <b>Duration</b><br>1 Term  |  |  |
| 1                            | Courses<br>Advanced Macro  | peconomics I  |              | Contact<br>Hours<br>60h       | Self-Stu-<br>dies<br>120h                                    | Course Language<br>English |  |  |
| 2                            | Stylized facts: Dynamic optin Stability and u The canonical Exogenous ar Real business Numeral solut   | Module Content     Stylized facts: growth and business cycles     Dynamic optimization in continuous time and in discrete time under uncertainty     Stability and uniqueness of dynamic systems     The canonical neoclassical growth model     Exogenous and endogenous growth     Real business cycles (TFP and fiscal policy shocks)     Numeral solutions, simulation and evaluation of structural models     Calibration and introduction in structural estimation of model parameter |              |                               |  |                            |  |  |
| 3                            | Students analyse and s methodological l apply the mat tailor and app growth and busi discuss the st tions parameterize develop analy gain an under   | analyse and solve the canonical models of real business cycle and growth theory at an advanced methodological level apply the mathematical and numerical methods necessary to do so tailor and apply these models to answer positive and normative research questions in the areas of growth and business cycle fluctuations discuss the strengths and weaknesses of these models in terms of their assumptions and implica-  |              |                               |  |                            |  |  |
| 4                            | Teaching and L<br>lecture<br>practice  | earning Meth  | nods         |                               |  |                            |  |  |
| 5                            | Module Entry R   | Requirements  |              |                               |  |                            |  |  |
| 6                            | <b>I</b>   | Mode of End-Of-Module Examination Written test: WT (90)   |              |                               |  |                            |  |  |
| 7                            | · •  | Prerequisites for Awarding of Credit Points Passing the module examination  |              |                               |  |                            |  |  |
| 8                            | Other Programmes that Use the Module  Master of Science Business Administration - Supply Chain Management:     Supplementary Section Supply Chain Management  Master of Science Business Administration - Finance:     Supplementary Section Finance  Master of Science Information Systems:     Supplementary Section Information Systems  Master of Science Business Administration - Marketing:     Supplementary Section Marketing |   |              |                               |  |                            |  |  |

Valid for students of the ER 2015 (enrolment for winter semester 2020/21 at the latest)

Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development Master of Science Business Administration - Accounting and Taxation: Supplementary Section Accounting and Taxation Master of Science Economics: Supplementary Section Master of Science Economic Research: Core and Advanced Section Economic Research Specialization Section Economic Research 9 **Module Manager** Univ.-Prof. Dr. Peter Funk 10 Miscellaneous Useful references are: - Acemoglu, Daron (2008). Introduction to modern economic growth. Princeton University Press. - McCandless, George T. (2008). The ABC of RBCs. Harvard University Press. - King, Robert G. and Sergio T. Rebelo (1999). "Resuscitating real business cycles". Handbook of macroeconomics. Ed. by John B. Taylor and Michael Woodford. Vol. 1. Elsevier, 927-1007. - Chow, Gregory C. (1997). Dynamic economics: optimization by the Lagrange method. Oxford: Oxford University Press. - Ljungqvist, Lars and Thomas J. Sargent (2012). Recursive macroeconomic theory. 3rd ed. Cambridge, MA: MIT Press. - Stokey, Nancy, Robert E. Lucas, and Edward C. Prescott (1989). Recursive methods in economic dynamics. Harvard University Press.

| CM Advanced Macroeconomics II |  |   |              |                               |  |                            |  |  |
|-------------------------------|--|---|--------------|-------------------------------|--|----------------------------|--|--|
| Module Code<br>1302MBAMA2     |  | <b>Workload</b><br>180h   | ECTS Credits | Module<br>Language<br>English | Module<br>Availability<br>every 2nd<br>term - sum-<br>mer term | Duration<br>1 Term         |  |  |
| 1                             | Courses<br>Advanced Macro  | peconomics II   |              | Contact<br>Hours<br>60h       | Self-Stu-<br>dies<br>120h                                      | Course Language<br>English |  |  |
| 2                             | <ul> <li>Complete mar</li> <li>Incomplete mar</li> <li>Fiscal policy, prince of the complete market</li> <li>Transaction from the complete of the complete market</li> <li>New Keynesia</li> </ul>   | Module Content Complete markets and representative agents Incomplete markets and heterogeneous agents Fiscal policy, public debt, and optimal taxation Transaction frictions and monetary policy Open economy macroeconomics New Keynesian macroeconomics Labour market frictions and Labour market fluctuations  |              |                               |  |                            |  |  |
| 3                             | Students master core in skill for innovativ deepen their lead conduct of policy evaluate and markets recognize posplete markets Identify the opoffs.   | master core macroeconomic concepts for solving positive and normative problems and acquire skill for innovative research deepen their knowledge of short- and medium-run macroeconomic developments and of efficient conduct of policy measures evaluate and discuss the impact of empirically relevant frictions in goods, financial and labour markets recognize possibilities to enhance social welfare in a general equilibrium framework with incomplete markets Identify the optimal implementation of macroeconomic instruments under relevant policy tradeoffs question and assess societal developments, in particular, inequality and unemployment, and re- |              |                               |  |                            |  |  |
| 4                             | Teaching and L<br>lecture<br>practice  | earning Meth  | ods          |                               |  |                            |  |  |
| 5                             | Module Entry R   | Requirements  |              |                               |  |                            |  |  |
| 6                             |  | Mode of End-Of-Module Examination Written test: WT (90)   |              |                               |  |                            |  |  |
| 7                             | -  | Prerequisites for Awarding of Credit Points Passing the module examination  |              |                               |  |                            |  |  |
| 8                             | Other Programmes that Use the Module  Master of Science Business Administration - Supply Chain Management:     Supplementary Section Supply Chain Management  Master of Science Business Administration - Finance:     Supplementary Section Finance  Master of Science Information Systems:     Supplementary Section Information Systems  Master of Science Business Administration - Marketing:     Supplementary Section Marketing |   |              |                               |  |                            |  |  |

|    | Master of Science Business Administration - Corporate Development:     Supplementary Section Corporate Development  Master of Science Business Administration - Accounting and Taxation:     Supplementary Section Accounting and Taxation  Master of Science Economics:     Supplementary Section  Master of Science Economic Research:     Core and Advanced Section Economic Research     Specialization Section Economic Research |
|----|---|
| 9  | Module Manager UnivProf. Michael Krause, Ph.D. UnivProf. Dr. Andreas Schabert   |
| 10 | Miscellaneous Useful references are Ljungqvist, Lars and Thomas J. Sargent (2012). Recursive mac-roeconomic theory. 3rd ed. Cambridge, MA: MIT Press; Gali, J. (2015) Monetary Policy, Inflation, and the Business Cycle An Introduction to the New Keynesian Framework and Its Applications, 2nd ed., Princeton University Press. Schmitt-Grohe, S., and Uribe M. (2017). Open Economy Macroeconomics, Princeton University Press    |

| CM Advanced Econometrics I |  |   |              |                               |  |                            |  |  |
|----------------------------|--|---|--------------|-------------------------------|--|----------------------------|--|--|
| Module Code<br>1314MBAEM1  |  | <b>Workload</b><br>180h   | ECTS Credits | Module<br>Language<br>English | Module<br>Availability<br>every 2nd<br>term - winter<br>term | Duration<br>1 Term         |  |  |
| 1                          | Courses<br>Advanced Econo  | ometrics: Theo  | ry           | Contact<br>Hours<br>60h       | Self-Stu-<br>dies<br>120h                                    | Course Language<br>English |  |  |
| 2                          | Tests in the cl Specification of Generalised li Panel data reg Time series ed Instrument Va  | Module Content  The classic linear model  Tests in the classical linear model  Specification of econometric models  Generalised linear model  Panel data regression  Time series econometric methods  Instrument Variables / GMM  Asymptotic Inference  |              |                               |  |                            |  |  |
| 3                          | Students have basic kn butions in the fie ods model econor tions.  | have basic knowledge of econometric methods, which enable them to understand scientific contributions in the field of empirical economic research and to assess the properties of quantitative methods model economic relationships econometrically and choose between alternative model specifica- |              |                               |  |                            |  |  |
| 4                          | Teaching and L<br>lecture<br>practice  |   |              |                               |  |                            |  |  |
| 5                          | Module Entry R   | Module Entry Requirements none  |              |                               |  |                            |  |  |
| 6                          |  | Mode of End-Of-Module Examination Written test: WT (60)   |              |                               |  |                            |  |  |
| 7                          | Prerequisites for Passing the mod  |   |              |                               |  |                            |  |  |
| 8                          | Other Programmes that Use the Module  Master of Science Business Administration - Supply Chain Management:     Supplementary Section Supply Chain Management  Master of Science Business Administration - Finance:     Supplementary Section Finance  Master of Science Information Systems:     Supplementary Section Information Systems  Master of Science Business Administration - Marketing:     Supplementary Section Marketing  Master of Science Business Administration - Corporate Development:     Supplementary Section Corporate Development  Master of Science Business Administration - Accounting and Taxation:     Supplementary Section Accounting and Taxation  Master of Science Economics: |   |              |                               |  |                            |  |  |

|    | Supplementary Section Master of Science Economic Research: Core and Advanced Section Economic Research Specialization Section Economic Research |
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| 9  | Module Manager UnivProf. Dr. Jörg Breitung  |
| 10 | Miscellaneous This module presents econometric tools for the analysis of cross-sectional data, time series and panel data at doctoral level.    |

| iii Auv                          | anced Econor   |   |                               | ı  |                            | ı |  |  |
|----------------------------------|--|---|-------------------------------|--|----------------------------|---|--|--|
| <b>Module Code</b><br>1314MBAEM2 |  | Workload<br>180h ECTS Credits<br>6  | Module<br>Language<br>English | Module<br>Availability<br>every 2nd<br>term - sum-<br>mer term | Duration<br>1 Term         |   |  |  |
| 1                                | Courses<br>Advanced Econ   | ometrics: App   | Contact<br>Hours<br>60h       | Self-Stu-<br>dies<br>120h                                      | Course Language<br>English |   |  |  |
| 2                                | <ul><li>Evaluation of</li><li>Fixed effects a</li><li>Regression di</li><li>Robust standa</li></ul>  | Module Content  • Evaluation of causal effects  • Fixed effects and difference-in-difference estimator  • Regression discontinuity designs  • Robust standard errors and clustering  • Structural estimates with experimental data  |                               |  |                            |   |  |  |
| 3                                | Students implement es discuss situat apply appropr carry out emp   | Learning Objectives Students implement estimation methods and test procedures discuss situation estimation and testing procedures apply appropriate econometric models and the corresponding inference methods carry out empirical studies in modern macro- and microeconometrics report on their approach and their results. |                               |  |                            |   |  |  |
| 4                                | Teaching and L<br>lecture<br>practice  |   |                               |  |                            |   |  |  |
| 5                                | Module Entry R   | Module Entry Requirements none  |                               |  |                            |   |  |  |
| 6                                |  | Mode of End-Of-Module Examination Combined examination: PRES, TP  |                               |  |                            |   |  |  |
| 7                                |  | Prerequisites for Awarding of Credit Points Passing the module examination  |                               |  |                            |   |  |  |
| 8                                | Other Programmes that Use the Module  Master of Science Business Administration - Supply Chain Management:     Supplementary Section Supply Chain Management  Master of Science Business Administration - Finance:     Supplementary Section Finance  Master of Science Information Systems:     Supplementary Section Information Systems  Master of Science Business Administration - Marketing:     Supplementary Section Marketing  Master of Science Business Administration - Corporate Development:     Supplementary Section Corporate Development  Master of Science Business Administration - Accounting and Taxation:     Supplementary Section Accounting and Taxation  Master of Science Economics:     Supplementary Section  Master of Science Economic Research:     Core and Advanced Section Economic Research |   |                               |  |                            |   |  |  |

| 9  | Module Manager UnivProf. Dr. Jörg Breitung   |
|----|--|
| 10 | Miscellaneous This module presents econometric tools for the analysis of cross-sectional data, time series and panel data at doctoral level. |

| SpM Bu                    | siness Ethics   |  |   |  |  |                           |  |
|---------------------------|---|--|---|--|--|---------------------------|--|
| Module Code<br>1253MSBET1 |   | <b>Workload</b><br>180h  | ECTS Credits  | Module<br>Language<br>English                        | Module<br>Availability<br>every 2nd<br>term - winter<br>term | <b>Duration</b><br>1 Term |  |
| 1                         | Courses<br>Managing Busin<br>ganisations  | Managing Business Ethics in Markets and Or- Hours dies English   |   |  |  |                           |  |
| 2                         | This module int<br>managers and e<br>ethics and fairne<br>evaluated in the  | Module Content  This module introduces basic business ethics concepts and applies them to decision making of managers and employees. It draws on standard ethics theories, like teleology, deontology, virtue ethics and fairness concepts. Business decisions in organisations and markets are discussed and evaluated in the light of these foundations. Case studies are employed to illustrate and apply the theoretical concepts.   |   |  |  |                           |  |
| 3                         | Students understand ac analyse curre assess and d solve team-in justify and de evaluate their tentials act responsib                                  | understand advanced, specialized theories / methods analyse current questions and challenges assess and discuss findings and research results of specialized theories / methods solve team-internal conflicts and target divergences independently justify and defend (independently developed) positions or problem solutions evaluate their own action processes in self- and external reflection and identify development per   |   |  |  |                           |  |
| 4                         | Teaching and L<br>lecture<br>practice   |  |   |  |  |                           |  |
| 5                         | Module Entry R  | Module Entry Requirements none   |   |  |  |                           |  |
| 6                         |   | Mode of End-Of-Module Examination Written test: WT (60)  |   |  |  |                           |  |
| 7                         | Prerequisites for Passing the mod   | _  |   |  |  |                           |  |
| 8                         | Supple Master of Science | ce Business Admentary Section ce Information mentary Section ce Business Admentary Section ce Business Admentary Section ce Economics: mentary Section ce Gesundheit c | dministration - Su<br>on Supply Chain M<br>Systems:<br>on Information Systeministration - Ma<br>on Marketing<br>dministration - Accounting and<br>on Accounting and<br>on<br>sökonomie:<br>on Health Econom | Management stems irketing: counting and Tad Taxation | Ū  |                           |  |

|    | Core and Advanced Section International Management   |  |  |  |  |  |  |
|----|--|--|--|--|--|--|--|
|    | Supplementary Section International Management   |  |  |  |  |  |  |
|    | Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs:   |  |  |  |  |  |  |
|    | Supplementary Section Business Education   |  |  |  |  |  |  |
|    | Master of Arts Medienwissenschaft:   |  |  |  |  |  |  |
|    | MA Media Management and Economics  |  |  |  |  |  |  |
|    | Master of Science Economic Research:   |  |  |  |  |  |  |
|    | Supplementary Section Economic Research  |  |  |  |  |  |  |
|    | Master of Science Business Administration - Corporate Development:   |  |  |  |  |  |  |
|    | Specialization Section Corporate Development   |  |  |  |  |  |  |
|    | Master of Arts Regionalstudien China - Betriebswirtschaftslehre:   |  |  |  |  |  |  |
|    | Business Administration Master Regional Studies China  |  |  |  |  |  |  |
| 9  | Module Manager<br>UnivProf. Dr. Bernd Irlenbusch   |  |  |  |  |  |  |
| 10 | Miscellaneous This module can contain courses which takes place either until the middle of the semester (1. term) or from the middle of the semester (2. term). The required examinations are generally offered after the respective term. |  |  |  |  |  |  |

| SpM Str               | ategic Develo  | pment   |  |  |  |                            |  |
|-----------------------|--|---|--|--|--|----------------------------|--|
| Module Co<br>1253MSSD |  | <b>Workload</b><br>180h   | ECTS Credits   | Module<br>Language<br>English  | Module<br>Availability<br>every 2nd<br>term - winter<br>term                 | <b>Duration</b><br>1 Term  |  |
| 1                     | Courses<br>Mergers and Ac  | quisitions  |  | Contact<br>Hours<br>60h  | Self-Stu-<br>dies<br>120h  | Course Language<br>English |  |
| 2                     | Module Content   |   | lopment  |  |  |                            |  |
| 3                     | analyse curre assess and d justify and de discuss scien cialists.  | dvanced, spec<br>nt questions a<br>iscuss findings<br>fend (independ<br>tific topics in a | cialised theories / ind challenges in t<br>is and research residently developed)<br>i professional man<br>ecological, social | he area of corp<br>sults of speciali<br>positions or pr<br>ner and appro | porate developm<br>sed theories / n<br>oblem solutions<br>priate to the situ | nent.<br>nethods.          |  |
| 4                     | Teaching and L<br>lecture<br>practice  | 1.55.50   |  |  |  |                            |  |
| 5                     | Module Entry R   | Module Entry Requirements None  |  |  |  |                            |  |
| 6                     |  | Mode of End-Of-Module Examination Written test: WT (60)                                   |  |  |  |                            |  |
| 7                     |  | Prerequisites for Awarding of Credit Points Passing the module examination                |  |  |  |                            |  |
| 8                     | Other Programmes that Use the Module  Master of Science Business Administration - Supply Chain Management:     Supplementary Section Supply Chain Management  Master of Science Information Systems:     Supplementary Section Information Systems  Master of Science Business Administration - Marketing:     Supplementary Section Marketing  Master of Science Business Administration - Accounting and Taxation:     Supplementary Section Accounting and Taxation  Master of Science International Management:     Supplementary Section International Management  Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs:     Supplementary Section Business Education  Master of Science Business Administration - Corporate Development:     Specialization Section Corporate Development |   |  |  |  |                            |  |
| 9                     | Module Manag   | er  |  |  |  |                            |  |
| 10                    | Miscellaneous  |   |  |  |  |                            |  |

| 1 | Courses  | 180h   | 6 | Module<br>Language | Module<br>Availability             | <b>Duration</b><br>1 Term |  |
|---|--|--|---|--------------------|------------------------------------|---------------------------|--|
|   |  |  |   | English            | every 2nd<br>term - winter<br>term | T Term                    |  |
| • | Courses<br>Strategic Human Resource ManagementContact<br>Hours<br>60hSelf-Stu-<br>dies<br>120hCourse Lar<br>English  |  |   |                    |                                    |                           |  |
| 2 | The module tea   | Module Content  The module teaches how Human Resource Management creates economic value and contributes to the implementation of corporate strategies. |   |                    |                                    |                           |  |
| 3 | Learning Objectives Students understand advanced, specialized theories / methods analyse current questions and challenges communicate continuously and purposefully in diverse teams solve team-internal conflicts and target divergences independently justify and defend (independently developed) positions or problem solutions act responsibly considering ecological, social and ethical criteria develop work processes for real problems and challenges.   |  |   |                    |                                    |                           |  |
| 4 | Teaching and L<br>lecture<br>practice  |  |   |                    |                                    |                           |  |
| 5 | Module Entry R   | Module Entry Requirements none   |   |                    |                                    |                           |  |
| 6 |  | Mode of End-Of-Module Examination Combined examination: WT (60), PRES  |   |                    |                                    |                           |  |
| 7 | -  | Prerequisites for Awarding of Credit Points Passing the module examination   |   |                    |                                    |                           |  |
| 8 | Other Programmes that Use the Module  Master of Science Business Administration - Supply Chain Management:     Supplementary Section Supply Chain Management  Master of Science Information Systems:     Supplementary Section Information Systems  Master of Science Business Administration - Marketing:     Supplementary Section Marketing  Master of Science Business Administration - Accounting and Taxation:     Supplementary Section Accounting and Taxation  Master of Science Economics:     Supplementary Section  Master of Science Gesundheitsökonomie:     Supplementary Section Health Economics  Master of Science International Management:     Supplementary Section International Management  Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs:     Supplementary Section Business Education |  |   |                    |                                    |                           |  |

|    | Master of Science Economic Research: Supplementary Section Economic Research Master of Science Business Administration - Corporate Development: Specialization Section Corporate Development Master of Arts Regionalstudien China - Betriebswirtschaftslehre: Business Administration Master Regional Studies China |
|----|---|
| 9  | Module Manager UnivProf. Dr. Dirk Sliwka  |
| 10 | Miscellaneous   |

| pivi Str                  | rategic Manago   | ement  |              |                               | _  |                           |  |
|---------------------------|--|--|--------------|-------------------------------|--|---------------------------|--|
| Module Code<br>1253MSSMG1 |  | <b>Workload</b><br>180h  | ECTS Credits | Module<br>Language<br>English | Module<br>Availability<br>every 2nd<br>term - winter<br>term | <b>Duration</b><br>1 Term |  |
| 1                         | Courses<br>Strategic Manag   | Courses Strategic Management (1. Term)  Contact Hours dies 120h  Course Langua English   |              |                               |  |                           |  |
| 2                         | Fundamentals     Basic concept     Basic concept   | Module Content  Fundamentals of strategic management  Basic concepts and tools for analysing strategic positioning for companies on the market  Basic concepts and tools for analysing competition  Applying theoretical concepts on strategic positioning and competition in case studies   |              |                               |  |                           |  |
| 3                         | Students analyse curre assess and di collect and ar methods communicate solve team-in justify and de present scien evaluate their tentials act responsib   | analyse current questions and challenges assess and discuss findings and research results of specialized theories / methods collect and analyse data material for selected scientific questions using quantitative / qualitative methods communicate continuously and purposefully in diverse teams solve team-internal conflicts and target divergences independently justify and defend (independently developed) positions or problem solutions present scientific results in a way that is appropriate for the target audience evaluate their own action processes in self- and external reflection and identify development potentials act responsibly considering ecological, social and ethical criteria critically evaluate current social developments and develop alternative solutions. |              |                               |  |                           |  |
| 4                         | Teaching and L<br>lecture<br>practice  |  |              |                               |  |                           |  |
| 5                         | Module Entry R   | Requirements   |              |                               |  |                           |  |
| 6                         | Mode of End-O<br>Written test: WT  |  | mination     |                               |  |                           |  |
| 7                         | -  | Prerequisites for Awarding of Credit Points Passing the module examination   |              |                               |  |                           |  |
| 8                         | Other Programmes that Use the Module  Master of Science Business Administration - Supply Chain Management:     Supplementary Section Supply Chain Management  Master of Science Information Systems:     Supplementary Section Information Systems  Master of Science Business Administration - Marketing:     Supplementary Section Marketing  Master of Science Business Administration - Accounting and Taxation:     Supplementary Section Accounting and Taxation  Master of Science Economics:     Supplementary Section |  |              |                               |  |                           |  |

|    | Master of Science Gesundheitsökonomie: Supplementary Section Health Economics  Master of Science International Management: Core and Advanced Section International Management Supplementary Section International Management           |
|----|--|
|    | Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs: Supplementary Section Business Education Master of Arts Medienwissenschaft:   |
|    | MA Media Management and Economics  Master of Science Economic Research:  Supplementary Section Economic Research   |
|    | Master of Science Business Administration - Corporate Development: Specialization Section Corporate Development Master of Arts Regionalstudien China - Betriebswirtschaftslehre: Business Administration Master Regional Studies China |
| 9  | Module Manager UnivProf. Dr. Matthias Heinz  |
| 10 | Miscellaneous  |

| CM Micı                      | roeconomics (   | Business   | Administrati   | ion)                          |  |                            |  |
|------------------------------|---|--|----------------|-------------------------------|--|----------------------------|--|
| <b>Module Co</b><br>1289MBME |   | <b>Workload</b><br>180h  | ECTS Credits 6 | Module<br>Language<br>English | Module<br>Availability<br>every 2nd<br>term - winter<br>term | <b>Duration</b><br>1 Term  |  |
| 1                            | Courses<br>Microeconomics   | s: Game Theor  | у              | Contact<br>Hours<br>60h       | Self-Stu-<br>dies<br>120h                                    | Course Language<br>English |  |
| 2                            | Module Content  Non-cooperative Game Theory  Normal form games  Extensive form games, with complete and incomplete information  Finitely and infinitely repeated games  Cooperative Game Theory  Core, Shapley-value, bargaining problem  Evolutionary game theory  Social choice theory, voting  Condorcet-paradox, Arrow-theorem  |  |                |                               |  |                            |  |
| 3                            | Learning Objectives Students understand advanced, specialized theories / methods in the area of Game Theory assess and discuss findings and research results of specialized methods analyse data for selected scientific questions using quantitative methods communicate continuously and purposefully in diverse teams critically evaluate current social developments and develop alternative solutions use techniques of scientific work and good scientific practice.  |  |                |                               |  |                            |  |
| 4                            | Teaching and I<br>lecture<br>practice   |  |                |                               |  |                            |  |
| 5                            | -   | Module Entry Requirements Recommendation: Bachelor Level Microeconomics, Macroeconomics, Mathematics |                |                               |  |                            |  |
| 6                            |   | Mode of End-Of-Module Examination Written test: WT (60)  |                |                               |  |                            |  |
| 7                            | -   | Prerequisites for Awarding of Credit Points Passing the module examination                           |                |                               |  |                            |  |
| 8                            | Other Programmes that Use the Module  Master of Science Business Administration - Supply Chain Management:  Core and Advanced Section Supply Chain Management Supplementary Section Supply Chain Management  Master of Arts Politikwissenschaft: Supplementary Section Political Science  Master of Science Business Administration - Finance: Supplementary Section Finance  Master of Science Information Systems: Supplementary Section Information Systems  Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development  Master of Arts Regionalstudien China - Volkswirtschaftslehre: |  |                |                               |  |                            |  |

|    | Economics Master Regional Studies China                                       |  |  |  |  |  |
|----|---|--|--|--|--|--|
|    | Master of Science Sociology and Social Research:                              |  |  |  |  |  |
|    | Supplementary Section Sociology and Social Research                           |  |  |  |  |  |
|    | Master of Science International Management:                                   |  |  |  |  |  |
|    | Supplementary Section International Management                                |  |  |  |  |  |
|    | Master of Science Business Administration - Finance:                          |  |  |  |  |  |
|    | Core and Advanced Section Finance   |  |  |  |  |  |
|    | Master of Science Business Administration - Marketing:                        |  |  |  |  |  |
|    | Core and Advanced Section Marketing   |  |  |  |  |  |
|    | Master of Arts Regionalstudien Ost- und Mitteleuropa - Volkswirtschaftslehre: |  |  |  |  |  |
|    | Economics Master Regional Studies Eastern Europe                              |  |  |  |  |  |
|    | Master of Science Business Administration - Corporate Development:            |  |  |  |  |  |
|    | Core and Advanced Section Corporate Development                               |  |  |  |  |  |
|    | Master of Science Business Administration - Accounting and Taxation:          |  |  |  |  |  |
|    | Core and Advanced Section Accounting and Taxation                             |  |  |  |  |  |
|    | Master of Arts Regionalstudien Lateinamerika - Volkswirtschaftslehre:         |  |  |  |  |  |
|    | Economics Master Regional Studies Latin America                               |  |  |  |  |  |
| 9  | Module Manager UnivProf. Dr. Bettina Rockenbach                               |  |  |  |  |  |
| 10 | Miscellaneous   |  |  |  |  |  |

| SpM Mai                   | rket Design aı   | nd Behavio   | our II         |                               |                                     |                            |  |
|---------------------------|--|--|----------------|-------------------------------|-------------------------------------|----------------------------|--|
| Module Code<br>1289MSMDB2 |  | <b>Workload</b><br>180h  | ECTS Credits   | Module<br>Language<br>English | Module<br>Availability<br>irregular | <b>Duration</b><br>1 Term  |  |
| 1                         | Courses<br>Economic Engin  | eering   |                | Contact<br>Hours<br>45h       | Self-Stu-<br>dies<br>135h           | Course Language<br>English |  |
| 2                         | Evaluation of the and incentive sy     Analysis of religible specific designs  | Discussion of practical applications of economic engineering in matching markets, auctions and |                |                               |                                     |                            |  |
| 3                         | Learning Objectives Students analyse current questions and challenges in the area of market design write an academic paper on a selected topic and achieve thereby their own scientific contribution discuss problems in markets with respect to different affected groups in a professional manner critically evaluate current developments in different markets and develop alternative solutions.   |  |                |                               |                                     |                            |  |
| 4                         | Teaching and L<br>lecture<br>practice  |  |                |                               |                                     |                            |  |
| 5                         | _  | Module Entry Requirements no recommendation  |                |                               |                                     |                            |  |
| 6                         |  | Mode of End-Of-Module Examination Combined examination: PRES, TP                               |                |                               |                                     |                            |  |
| 7                         |  | Prerequisites for Awarding of Credit Points Passing the module examination                     |                |                               |                                     |                            |  |
| 8                         | Other Programmes that Use the Module  Master of Science Business Administration - Supply Chain Management:     Supplementary Section Supply Chain Management  Master of Arts Politikwissenschaft:     Supplementary Section Political Science  Master of Science Business Administration - Finance:     Supplementary Section Finance  Master of Science Information Systems:     Supplementary Section Information Systems  Master of Science Business Administration - Corporate Development:     Supplementary Section Corporate Development  Master of Science Economics:     Specialization Section Economics     Supplementary Section  Master of Science Sociology and Social Research:     Supplementary Section Sociology and Social Research |  |                |                               |                                     |                            |  |
| 9                         | Module Manage<br>UnivProf. Dr. A   | er   | 3, <del></del> |                               |                                     |                            |  |

Valid for students of the ER 2015 (enrolment for winter semester 2020/21 at the latest)

10 Miscellaneous

| SpM Ma                       | rket Design a   | nd Behavi   | our IV       |                               |  |  |  |
|------------------------------|---|---|--------------|-------------------------------|--|--|--|
| <b>Module Co</b><br>1289MSMI |   | <b>Workload</b><br>180h   | ECTS Credits | <b>Module Language</b> German | Module<br>Availability<br>every 2nd<br>term - sum-<br>mer term | <b>Duration</b><br>1 Term                  |  |
| 1                            | 1 '   | Courses a) Auction Theory (WS) b) Contract Theory   |              |                               | Self-Stud-<br>ies<br>a) 120h<br>b) 135h                        | Course Language<br>a) English<br>b) German |  |
| 2                            | Contract Theory Principal-ager Moral hazard, Hold-up proble Incomplete co Auction Theory Auctions with nue equivalence  | Module Content Contract Theory: Principal-agent models Moral hazard, adverse selection Hold-up problem Incomplete contracts ///  Auction Theory (winter semester, until 2022/23): Auctions with "private values": second-price auctions, first-price auctions, reservation prices, roue equivalence theorem, extensions Mechanism design: revelation principle, optimal mechanisms, efficient mechanisms Auctions with "interdependent values": comparisons of auction process. |              |                               |  |  |  |
| 3                            | Learning Objectives Students understand advanced, specialized methods of formal institutional economics analyse questions and challenges in situations with asymmetric information assess findings and research results in the theory of economic incentives solve contract-theoretic problems independently.   |   |              |                               |  |  |  |
| 4                            | Teaching and L<br>lecture<br>practice   |   |              |                               |  |  |  |
| 5                            | 1   | Module Entry Requirements no recommendation   |              |                               |  |  |  |
| 6                            |   | Mode of End-Of-Module Examination Written test: WT (60)   |              |                               |  |  |  |
| 7                            |   | Prerequisites for Awarding of Credit Points Passing the module examination in one of the courses offered.   |              |                               |  |  |  |
| 8                            | Other Programmes that Use the Module  Master of Science Business Administration - Supply Chain Management:     Supplementary Section Supply Chain Management  Master of Arts Politikwissenschaft:     Supplementary Section Political Science  Master of Science Business Administration - Finance:     Supplementary Section Finance  Master of Science Information Systems:     Supplementary Section Information Systems  Master of Science Business Administration - Corporate Development:     Supplementary Section Corporate Development  Master of Science Economics: |   |              |                               |  |  |  |

|    | Specialization Section Economics Supplementary Section Master of Science Sociology and Social Research: Supplementary Section Sociology and Social Research |  |  |  |
|----|---|--|--|--|
| 9  | Module Manager UnivProf. Dr. Patrick W. Schmitz   |  |  |  |
| 10 | Miscellaneous   |  |  |  |

| -                         | sation Module   |  |  |   |  |                            |  |  |
|---------------------------|---|--|--|---|--|----------------------------|--|--|
| Module Code<br>1289SMBE00 |   | <b>Workload</b><br>180h  | ECTS Credits   | Module<br>Language<br>English                         | Module<br>Availability<br>every 2nd<br>term - sum-<br>mer term | Duration<br>1 Term         |  |  |
| 1                         | Courses<br>Behavioral Econ  | omics  |  | Contact<br>Hours<br>60h                               | Self-Stu-<br>dies<br>120h                                      | Course Language<br>English |  |  |
| 2                         | Module Content Using the concept of the homo economicus, the module presents behavioural theory concepts that are based on findings from empirical and experimental research. The lectures provide an introduction to bounded rationality theories, focusing on those theories' criticism of the homo economicus concept. |  |  |   |  |                            |  |  |
| 3                         | Learning Objectives Students understand behavioural models and formal arguments apply advanced microeconomic concepts challenge arguments critically.   |  |  |   |  |                            |  |  |
| 4                         | Teaching and Learning Methods lecture practice  |  |  |   |  |                            |  |  |
| 5                         | Module Entry Requirements Recommended: Core modules in Microeconomics   |  |  |   |  |                            |  |  |
| 6                         | Mode of End-Of-Module Examination Written test: WT (60)   |  |  |   |  |                            |  |  |
| 7                         | Prerequisites for Awarding of Credit Points Passing the written test.   |  |  |   |  |                            |  |  |
| 8                         | Supplet Master of Arts P Supplet Master of Science Special Supplet Master of Science Supplet Master of Science Supplet  | ce Business A<br>mentary Section<br>olitikwissenso<br>mentary Section<br>ce Business A<br>mentary Section<br>mentary Section<br>ce Business A<br>mentary Section<br>ce Economics<br>dization Section<br>mentary Section<br>mentary Section<br>mentary Section<br>mentary Section | dministration - Su<br>on Supply Chain Maft:<br>on Political Science<br>dministration - Fin<br>on Finance<br>Systems:<br>on Information Systemsistration - Co<br>on Corporate Dev | Management se ance: stems rporate Develo elopment ch: | pment:   |                            |  |  |

| 9  | Module Manager Fachbereich Mikroökonomik JunProf. Dr. Frederik Schwerter |
|----|--|
| 10 | Miscellaneous  |

| CM Selec                  | cted Methods  | in Econo   | mics         |                               |  |                            |  |  |  |
|---------------------------|---|--|--------------|-------------------------------|--|----------------------------|--|--|--|
| Module Code<br>1289MBEXE1 |   | Workload<br>180h   | ECTS Credits | Module<br>Language<br>English | Module<br>Availability<br>every 2nd<br>term - sum-<br>mer term | <b>Duration</b><br>1 Term  |  |  |  |
| 1                         | Courses<br>Experimental Me  | urses<br>perimental Methods  |              |                               | Self-Stu-<br>dies<br>120h                                      | Course Language<br>English |  |  |  |
| 2                         | Module Content  • Experimental Methods in economics  • Experimental designs  • Analysing experimental data  |  |              |                               |  |                            |  |  |  |
| 3                         | Learning Objectives Students understand advanced, specialized theories / methods in the area of experimental Economics analyse current questions and challenges in the area of Microeconomics assess and discuss findings and research results of specialized methods analyse data for selected scientific questions using quantitative methods present scientific results in a way that is appropriate for the target audience critically evaluate current social developments and develop alternative solutions use techniques of scientific work and good scientific practice.   |  |              |                               |  |                            |  |  |  |
| 4                         | Teaching and Learning Methods lecture practice  |  |              |                               |  |                            |  |  |  |
| 5                         | 1   | Module Entry Requirements Recommendation: Bachelor Level Microeconomics, Macroeconomics, Mathematics |              |                               |  |                            |  |  |  |
| 6                         |   | Mode of End-Of-Module Examination Written test: WT (60)  |              |                               |  |                            |  |  |  |
| 7                         | Prerequisites for Awarding of Credit Points Passing the module examination  |  |              |                               |  |                            |  |  |  |
| 8                         | Other Programmes that Use the Module  Master of Science Business Administration - Supply Chain Management:     Core and Advanced Section Supply Chain Management     Supplementary Section Supply Chain Management  Master of Science Business Administration - Finance:     Supplementary Section Finance  Master of Science Information Systems:     Supplementary Section Information Systems  Master of Science Business Administration - Marketing:     Supplementary Section Marketing  Master of Science Business Administration - Corporate Development:     Supplementary Section Corporate Development  Master of Science Business Administration - Accounting and Taxation:     Supplementary Section Accounting and Taxation  Master of Arts Politikwissenschaft:     Supplementary Section Political Science  Master of Science Sociology and Social Research: |  |              |                               |  |                            |  |  |  |

|    | Master of Science Business Administration - Finance: |
|----|--|
| 9  | Module Manager UnivProf. Michael Krause, Ph.D.       |
| 10 | Miscellaneous  |

| ЅрМ Ма                    | rket Design aı   | nd Mechan  | ism Design   |                               |  |                            |  |  |  |
|---------------------------|--|--|--------------|-------------------------------|--|----------------------------|--|--|--|
| Module Code<br>1289MSMMD1 |  | <b>Workload</b><br>180h  | ECTS Credits | Module<br>Language<br>English | Module<br>Availability<br>every 2nd<br>term - winter<br>term | <b>Duration</b><br>1 Term  |  |  |  |
| 1                         | Courses<br>Matching and M<br>Practice  | arket Design: 1  | Theory and   | Contact<br>Hours<br>45h       | Self-Stu-<br>dies<br>135h                                    | Course Language<br>English |  |  |  |
| 2                         | Module Content Matching Markets, Mechanism Design with and without monetary transfers  |  |              |                               |  |                            |  |  |  |
| 3                         | Students understand le transfers analyse existi empirical analys   | understand leading theoretical models of mechanism market design with and without monetary   |              |                               |  |                            |  |  |  |
| 4                         | Teaching and Learning Methods lecture practice   |  |              |                               |  |                            |  |  |  |
| 5                         | Module Entry Requirements Recommendation: Knowledge of game theory   |  |              |                               |  |                            |  |  |  |
| 6                         | Mode of End-Of-Module Examination Combined examination: PRES, TP   |  |              |                               |  |                            |  |  |  |
| 7                         |  | Prerequisites for Awarding of Credit Points Passing the module examination   |              |                               |  |                            |  |  |  |
| 8                         | Master of Science Supplee Master of Arts P Supplee Master of Science | Other Programmes that Use the Module  Master of Science Business Administration - Supply Chain Management:     Supplementary Section Supply Chain Management  Master of Arts Politikwissenschaft:     Supplementary Section Political Science  Master of Science Business Administration - Finance:     Supplementary Section Finance  Master of Science Information Systems:     Supplementary Section Information Systems  Master of Science Business Administration - Corporate Development:     Supplementary Section Corporate Development  Master of Science Economics:     Specialization Section Economics     Supplementary Section  Master of Science Sociology and Social Research:     Supplementary Section Sociology and Social Research  Master of Science Economic Research: |              |                               |  |                            |  |  |  |
| 9                         | Module Manage  | Specialization Section Economic Research  Module Manager UnivProf. Dr. Alexander Westkamp  |              |                               |  |                            |  |  |  |

Valid for students of the ER 2015 (enrolment for winter semester 2020/21 at the latest)

10 Miscellaneous

| Specialisation Module Seminar in Energy, Resource and Environmental Economics |  |  |              |                               |  |                            |  |  |
|---|--|--|--------------|-------------------------------|--|----------------------------|--|--|
| Module Code<br>1289SMSE00   |  | <b>Workload</b><br>180h                      | ECTS Credits | Module<br>Language<br>English | Module<br>Availability<br>every 2nd<br>term - sum-<br>mer term | <b>Duration</b><br>1 Term  |  |  |
| 1   | Courses Seminar in Energy, Resource and Environmental Economics  |  |              | Contact<br>Hours<br>30h       | Self-Stu-<br>dies<br>150h                                      | Course Language<br>English |  |  |
| 2   | Module Content Varying topics from the areas of: • Energy economics • Environmental economics • Resource economics • Climate change economics  |  |              |                               |  |                            |  |  |
| 3   | Learning Objectives Students acquire the skills necessary for independent conceptual work in the fields of energy, environ-mental, resource or climate change economics independently analyse current issues in research and practice, using the economics knowledge gained on the programme critically examine the subject-specific, scientific and applied literature, summarise their findings in a piece of written work, present the results in a seminar and discuss them with the other seminar participants. |  |              |                               |  |                            |  |  |
| 4   | Teaching and L<br>seminar  | earning Meth                                 | ods          |                               |  |                            |  |  |
| 5   | _  | Module Entry Requirements No recommendations |              |                               |  |                            |  |  |
| 6   | Mode of End-Of-Module Examination Combined examination: PRES, TP   |  |              |                               |  |                            |  |  |
| 7   | Prerequisites for Awarding of Credit Points Passing the combined examination.  |  |              |                               |  |                            |  |  |
| 8   | Other Programmes that Use the Module  Master of Science Business Administration - Supply Chain Management:     Supplementary Section Supply Chain Management  Master of Science Information Systems:     Supplementary Section Information Systems  Master of Science Economics:     Specialization Section Economics  Master of Arts Politikwissenschaft:     Supplementary Section Political Science   |  |              |                               |  |                            |  |  |
| 9   | Module Manage<br>UnivProf. Dr. M   |  | tzüge        |                               |  |                            |  |  |
| 10  | Miscellaneous  |  |              |                               |  |                            |  |  |

| SuM Ener                  | gy and Clim  | ate Chang               | e I          |                               |  |                            |  |  |
|---------------------------|--|-------------------------|--------------|-------------------------------|--|----------------------------|--|--|
| Module Code<br>1289MEECC1 |  | <b>Workload</b><br>180h | ECTS Credits | Module<br>Language<br>English | Module<br>Availability<br>every 2nd<br>term - winter<br>term | <b>Duration</b><br>1 Term  |  |  |
| 1                         | Courses Energy Markets and Regulation  |                         |              | Contact<br>Hours<br>45h       | Self-Stu-<br>dies<br>135h                                    | Course Language<br>English |  |  |
| 2                         | Module Content  • Economic models of energy markets and infrastructure  • Short- and long-term equilibria  • Market design and regulation  • Institutions and policies  • New technologies   |                         |              |                               |  |                            |  |  |
| 3                         | Learning Objectives Students understand advanced, specialized theories / methods in the area of energy economics discuss scientific topics in a professional manner and appropriate to the situation with (non-) specialists act responsibly considering ecological, social and ethical criteria critically evaluate current political, institutional, technological, and social developments.   |                         |              |                               |  |                            |  |  |
| 4                         | Teaching and Learning Methods lecture practice   |                         |              |                               |  |                            |  |  |
| 5                         | Module Entry Requirements none   |                         |              |                               |  |                            |  |  |
| 6                         | Mode of End-Of-Module Examination Written test: WT (90)  |                         |              |                               |  |                            |  |  |
| 7                         | Prerequisites for Awarding of Credit Points Passing the module examination   |                         |              |                               |  |                            |  |  |
| 8                         | Other Programmes that Use the Module  Master of Science Business Administration - Supply Chain Management:     Supplementary Section Supply Chain Management  Master of Science Information Systems:     Supplementary Section Information Systems  Master of Science Economics:     Specialization Section Economics  Master of Arts Politikwissenschaft:     Supplementary Section Political Science  Master of Science International Management:     Supplementary Section International Management  Master of Science Economic Research:     Supplementary Section Economic Research |                         |              |                               |  |                            |  |  |
| 9                         | Module Manager UnivProf. Dr. Marc Oliver Bettzüge  |                         |              |                               |  |                            |  |  |
|                           | UnivProf. Dr. N  | Marc Oliver Bet         | tzüge        |                               |  |                            |  |  |

| SuM Ener                 | rgy and Clim   | ate Chang  | e III            |   |  |  |  |
|--------------------------|--|--|------------------|---|--|--|--|
| Module Code<br>1289MEECC |  | <b>Workload</b><br>180h  | ECTS Credits     | Module<br>Language<br>English                             | Module<br>Availability<br>irregular                  | <b>Duration</b><br>1 Term                        |  |
| 1                        | Courses<br>Quantitative Met  | thods in Energ   | y Economics      | Contact<br>Hours<br>30h                                   | Self-Stu-<br>dies<br>150h                            | Course Language<br>English                       |  |
| 2                        | Module Conten  Numerical app Optimisation p Empirical metl   | proaches to end<br>problems in end   |                  | elling  |  |  |  |
| 3                        | collect and an methods write an acad present scien   | apply quantitati<br>alyse data ma<br>emic paper on<br>tific results in a                                   |                  | scientific quest<br>and achieve the<br>opriate for the ta | tions using qua<br>ereby their own<br>arget audience | ntitative / qualitative scientific contribution. |  |
| 4                        | Teaching and L   | earning Meth   | ods              |   |  |  |  |
| 5                        | Module Entry R   | -  | y and Climate Ch | ange I  |  |  |  |
| 6                        | Mode of End-O<br>Combined exam   |  |                  |   |  |  |  |
| 7                        | Prerequisites for Passing the mod  | _  |                  |   |  |  |  |
| 8                        | Master of Science Supples Master of Science Supples Master of Science Special Master of Arts P Supples Master of Science | Other Programmes that Use the Module  Master of Science Business Administration - Supply Chain Management: |                  |   |  |  |  |
| 9                        | Module Manage<br>UnivProf. Dr. M   |  | tzüge            |   |  |  |  |
| 10                       | Miscellaneous  |  |                  |   |  |  |  |

| Module Code 1289MEECC4    Workload   180h   ECTS Credits   English   Module   Availability   English   Error   Err |          | TOT STUDENTS OF T  |  | (   |  |                       | /                        |  |
|--|----------|--|--|---|--|-----------------------|--------------------------|--|
| 1289MEECC4  180h  6  Language English  every 2nd term - summer term  1 Courses Model UNFCCC - Climate Change Strategy  Module Content  • Economics of climate change • Resource economics • Fundamentals of energy economics • Environmental economics • Economics and politics of international climate change agreements  3 Learning Objectives Students  analyse current questions and challenges in the area of energy economics and climate policy,  write an academic paper on a selected topic and achieve thereby their own scientific contribution.  communicate continuously and purposefully in diverse teams.  justify and defend (independently developed) positions or problem solutions.  develop work processes for real problems and challenges.  4 Teaching and Learning Methods lecture practice  5 Module Entry Requirements None  6 Mode of End-Of-Module Examination Written test: PO  7 Prerequisites for Awarding of Credit Points Passing the module examination  8 Other Programmes that Use the Module Master of Science Business Administration - Supply Chain Management Master of Science Enonomics  Supplementary Section Information Systems:  Supplementary Section Information Systems Master of Science Economics Specialization Section Political Science Master of Science Economics Supplementary Section Political Science Master of Science Economics Supplementary Section Political Science Master of Science Economics Master of Science Economics Supplementary Section Political Science Master of Science Economics Master of Science Economics Master of Science Economics Master of Science Economics Supplementary Section Political Science Master of Science Economics Master of Science Economics Master of Science Economics Master of Science Economics M                        | SuM Ener | gy and Clim  | ate Chang  | e IV  |  |                       |                          |  |
| Model UNFCCC - Climate Change Strategy  Module Content  Economics of climate change Resource economics Fundamentals of energy economics Fundamentals of energy economics Fundamental economics Economics and politics of international climate change agreements  Learning Objectives Students Analyse current questions and challenges in the area of energy economics and climate policy. Analyse current questions and challenges in the area of energy economics and climate policy. Analyse current questions and challenges in the area of energy economics and climate policy. Analyse current questions and challenges in the area of energy economics and climate policy. Analyse current questions and challenges in diverse teams. Analyse current questions and challenges in diverse teams. Analyse current questions and challenges in diverse teams. Analyse current questions or problem solutions. Analyse defend (independently developed) positions or problem solutions. And evelop work processes for real problems and challenges.  Teaching and Learning Methods lecture practice  Module Entry Requirements None  Mode of End-Of-Module Examination Written test: PO  Prerequisites for Awarding of Credit Points Passing the module examination Written test: PO  Prerequisites for Awarding of Credit Points Passing the module examination  Master of Science Business Administration - Supply Chain Management Master of Science Business Administration - Supply Chain Management Master of Science Information Systems  Master of Science Information Systems  Master of Science Information Systems  Master of Science Economics Supplementary Section Folitical Science Master of Science Economic Research: Supplementary Section Folitical Science Master of Science Economic Research: Supplementary Section Economic Research  Module Manager UnivProf. Dr. Marc Oliver Bettzüge   |          |  |  |   | Availability<br>every 2nd<br>term - sum-             |                       |                          |  |
| * Economics of climate change     * Resource economics     * Pundamentals of energy economics     * Environmental economics     * Economics and politics of international climate change agreements  3 Learning Objectives Students     analyse current questions and challenges in the area of energy economics and climate policy.     write an academic paper on a selected topic and achieve thereby their own scientific contribution.     communicate continuously and purposefully in diverse teams.     justify and defend (independently developed) positions or problem solutions.     develop work processes for real problems and challenges.  4 Teaching and Learning Methods lecture practice  5 Module Entry Requirements None  6 Mode of End-Of-Module Examination Written test: PO  7 Prerequisites for Awarding of Credit Points Passing the module examination Written test: PO  8 Other Programmes that Use the Module Master of Science Business Administration - Supply Chain Management Master of Science Economics:     Supplementary Section Information Systems Master of Science Economics:     Specialization Section Information Systems Master of Arts Politikwissenschaft:     Supplementary Section Political Science Master of Science Economic Research:     Supplementary Section Economic Research  9 Module Manager UnivProf. Dr. Marc Oliver Bettzüge  | 1        |  | : - Climate Cha  | inge Strategy   | Hours  | dies                  |                          |  |
| Students  analyse current questions and challenges in the area of energy economics and climate policy.  write an academic paper on a selected topic and achieve thereby their own scientific contribution.  communicate continuously and purposefully in diverse teams.  justify and defend (independently developed) positions or problem solutions.  develop work processes for real problems and challenges.  4   | 2        | • Economics of<br>• Resource eco<br>• Fundamentals<br>• Environmenta   | climate chang<br>nomics<br>of energy eco<br>I economics  | nomics  | e change agree                                       | ements                |                          |  |
| lecture practice  5  | 3        | Students analyse curre write an acad communicate justify and def   | nt questions a<br>emic paper on<br>continuously a<br>fend (independ  | a selected topic a<br>and purposefully i<br>dently developed) | and achieve the<br>n diverse team<br>positions or pr | ereby their own<br>s. | scientific contribution. |  |
| Mode of End-Of-Module Examination Written test: PO  7 Prerequisites for Awarding of Credit Points Passing the module examination  8 Other Programmes that Use the Module Master of Science Business Administration - Supply Chain Management: Supplementary Section Supply Chain Management Master of Science Information Systems: Supplementary Section Information Systems Master of Science Economics: Specialization Section Economics Master of Arts Politikwissenschaft: Supplementary Section Political Science Master of Science Economic Research: Supplementary Section Economic Research  9 Module Manager UnivProf. Dr. Marc Oliver Bettzüge   | 4        | lecture  | earning Meth   | ods   |  |                       |                          |  |
| Written test: PO  Prerequisites for Awarding of Credit Points Passing the module examination   Other Programmes that Use the Module Master of Science Business Administration - Supply Chain Management: Supplementary Section Supply Chain Management Master of Science Information Systems: Supplementary Section Information Systems Master of Science Economics: Specialization Section Economics Master of Arts Politikwissenschaft: Supplementary Section Political Science Master of Science Economic Research: Supplementary Section Economic Research  Module Manager UnivProf. Dr. Marc Oliver Bettzüge  | 5        | 1  | Requirements   |   |  |                       |                          |  |
| Passing the module examination  8  Other Programmes that Use the Module     Master of Science Business Administration - Supply Chain Management:   | 6        |  |  |   |  |                       |                          |  |
| Master of Science Business Administration - Supply Chain Management:   | 7        | -  | _  |   |  |                       |                          |  |
| UnivProf. Dr. Marc Oliver Bettzüge   | 8        | Master of Science Supplet Master of Science Supplet Master of Science Special Master of Arts P Supplet Master of Science | Master of Science Business Administration - Supply Chain Management:     Supplementary Section Supply Chain Management  Master of Science Information Systems:     Supplementary Section Information Systems  Master of Science Economics:     Specialization Section Economics  Master of Arts Politikwissenschaft:     Supplementary Section Political Science  Master of Science Economic Research: |   |  |                       |                          |  |
| 10 Miscellaneous   | 9        |  |  | tzüge   |  |                       |                          |  |
|  | 10       | Miscellaneous  |  |   |  |                       |                          |  |

| Specialis               | ation module   | e Competit   | ion Policy  |                                     |                           |                            |  |  |
|-------------------------|--|--|---|-------------------------------------|---------------------------|----------------------------|--|--|
| Module Cod<br>1289SMCP0 | -  | <b>Workload</b><br>180h  | ECTS Credits  | Module<br>Availability<br>irregular | <b>Duration</b><br>1 Term |                            |  |  |
| 1                       | Courses<br>Competition Pol   | icy  |   | Contact<br>Hours<br>60h             | Self-Stu-<br>dies<br>120h | Course Language<br>English |  |  |
| 2                       | <ul><li>Institutional ba</li><li>Market power:</li><li>Unilateral abus</li></ul>   | Module Content  Institutional background: competition policy in Germany, the EU and the US  Market power: theory and measurement  Unilateral abuse of market power: horizontal and vertical restraints on competition  Multilateral abuse of market power: cartels and implicit agreements |   |                                     |                           |                            |  |  |
| 3                       | discuss the ca   | sed on models<br>auses of marke<br>ate and debate  | of competition that power and its ecases that illusti | ffects in terms                     | of welfare econ           |                            |  |  |
| 4                       | Teaching and L<br>lecture<br>practice  | earning Meth   | ods   |                                     |                           |                            |  |  |
| 5                       | Module Entry R   |  |   |                                     |                           |                            |  |  |
| 6                       |  | Mode of End-Of-Module Examination Written test: WT (90)  |   |                                     |                           |                            |  |  |
| 7                       | Prerequisites for Awarding of Credit Points Passing the written test.  |  |   |                                     |                           |                            |  |  |
| 8                       | Other Programmes that Use the Module  Master of Science Business Administration - Supply Chain Management:     Supplementary Section Supply Chain Management  Master of Science Information Systems:     Supplementary Section Information Systems  Master of Arts Politikwissenschaft:     Supplementary Section Political Science  Master of Science Business Administration - Finance:     Supplementary Section Finance  Master of Science Business Administration - Corporate Development:     Supplementary Section Corporate Development  Master of Science Mathematik:     Economics  Master of Science Economics:     Specialization Section Economics     Supplementary Section  Master of Arts Regionalstudien China - Volkswirtschaftslehre:     Economics Master Regional Studies China  Master of Science Wirtschaftsmathematik:     Economics  Master of Science International Management:     Core and Advanced Section International Management |  |   |                                     |                           |                            |  |  |

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|    | Master of Arts Regionalstudien Ost- und Mitteleuropa - Volkswirtschaftslehre:  |
|    | Economics Master Regional Studies Eastern Europe   |
|    | Master of Science Economic Research:   |
|    | Supplementary Section Economic Research  |
|    | Master of Science Geographie:  |
|    | Economics Master Geography   |
|    | Master of Arts Regionalstudien Lateinamerika - Volkswirtschaftslehre:  |
|    | Economics Master Regional Studies Latin America  |
| 9  | Module Manager UnivProf. Dr. Christoph Schottmüller  |
| 10 | Miscellaneous  |

| Speciali                      | sation Module  | Financial  | Theory  |   |  |                                       |  |  |
|-------------------------------|--|--|---|---|--|---------------------------------------|--|--|
| <b>Module Co</b><br>1259SFiTh |  | <b>Workload</b><br>360h  | ECTS Credits 12   | Module<br>Language<br>English                       | Module<br>Availability<br>every 2nd<br>term - winter<br>term | <b>Duration</b><br>1 Term             |  |  |
| 1                             | 1 ' '  | Courses a) Capital Market Theory (1. Term) b) Corporate Finance Theory (1. Term) c) Contact Hours a) 60h b) 60h c) 60h b) 120h c) Course Language a) English b) English b) English   |   |   |  |                                       |  |  |
| 2                             | <ul> <li>Portfolio theo</li> <li>Asset pricing</li> <li>Analysis and</li> <li>Equity valuati</li> <li>Multiples approa</li> <li>Impact of fina</li> <li>M&amp;A activities</li> </ul>  | ts and consumed and consumers and consumers with the consumers and consumers and consumers and defensive and defen | certainity and und<br>wards, futures, a<br>particular Discour | nd options<br>nted Cash Flow                        |  | els of residual income<br>cquisitions |  |  |
| 3                             | use different r<br>learn how to a<br>recognize diffe   | tment decision<br>sset pricing mo<br>value of secu<br>methods of valu<br>analyse annual<br>erent theories  |   | nd individual a<br>r to extract valu<br>activities. |  | rmation.                              |  |  |
| 4                             | Teaching and L<br>lecture<br>practice  | earning Meth   | ods   |   |  |                                       |  |  |
| 5                             | Module Entry R   |  |   |   |  |                                       |  |  |
| 6                             | Mode of End-O<br>Written test: PO  | f-Module Exa   | mination  |   |  |                                       |  |  |
| 7                             | <del>-</del>   | Prerequisites for Awarding of Credit Points Passing the written test. Both courses must be attended; the examination refers to topics of both courses.   |   |   |  |                                       |  |  |
| 8                             | Other Programmes that Use the Module  Master of Science Business Administration - Supply Chain Management:     Supplementary Section Supply Chain Management  Master of Science Information Systems:     Supplementary Section Information Systems  Master of Science Business Administration - Marketing:     Supplementary Section Marketing  Master of Science Business Administration - Corporate Development:     Supplementary Section Corporate Development |  |   |   |  |                                       |  |  |

|    | Master of Science Business Administration - Accounting and Taxation: |
|----|--|
|    | Supplementary Section Accounting and Taxation                        |
|    | Master of Science Mathematik:  |
|    | MA Business and Economics Sciences Mathematics                       |
|    | Master of Science Economics:   |
|    | Supplementary Section  |
|    | Master of Science Wirtschaftsmathematik:                             |
|    | MA Business and Economics Sciences Mathematics                       |
|    | Master of Science International Management:                          |
|    | Core and Advanced Section International Management                   |
|    | Supplementary Section International Management                       |
|    | Master of Science Business Administration - Finance:                 |
|    | Specialization Section Finance                                       |
|    | Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs:   |
|    | Supplementary Section Business Education                             |
|    | Master of Science Geographie:  |
|    | Business Administration Master Geography                             |
|    | Master of Arts Regionalstudien China - Betriebswirtschaftslehre:     |
|    | Business Administration Master Regional Studies China                |
| 9  | Module Manager   |
|    | Univ -Prof. Dr. Dieter Hess  |
|    | UnivProf. Dr. Alexander Kempf  |
|    | Dr. Alexander Pütz   |
| 10 | Miscellaneous  |

|                               |   |  |  | I                                    |  |   |  |
|-------------------------------|---|--|--|--------------------------------------|--|---|--|
| <b>Module Co</b><br>1259SFIMa |   | <b>Workload</b><br>360h  | ECTS Credits 12                            | Module<br>Language<br>English        | Module<br>Availability<br>every 2nd<br>term - winter<br>term | <b>Duration</b><br>1 Term                   |  |
| 1                             | Courses a) Insurance Ecc b) Risk Manager  |  |  | Contact<br>Hours<br>a) 60h<br>b) 60h | Self-Studies<br>a) 120h<br>b) 120h                           | Course Language<br>a) English<br>b) English |  |
| 2                             | Risk and risk r     Management of Manag | ment n perfect and in neasures of liquidity risk of interest rate of default risk onomics nand theory eory in insurance in regard to i or-specific tarif   | ce<br>nformation symm<br>f calculation and | etry and asym                        | •  |   |  |
| 3                             | Students analyse variou apply risk mea assess regula are familiar wi assess instruu analyse insura can explain in assess the insura   | Learning Objectives Students analyse various risk measures in terms of effective risk/return management apply risk measures to decision-making problems in bank operations assess regulatory standards intended to limit risk are familiar with the methods for measuring market and default risks assess instruments for controlling market and default risks analyse insurance supply and demand can explain information symmetry and asymmetry assess the institutional parameters for insurance markets calculate premiums and reserves in life and indemnity insurance. |  |                                      |  |   |  |
| 4                             | Teaching and L<br>lecture<br>practice   |  |  |                                      |  |   |  |
| 5                             |   | Module Entry Requirements no recommendations   |  |                                      |  |   |  |
| 6                             | Mode of End-O<br>Written test: PO   | Mode of End-Of-Module Examination Written test: PO   |  |                                      |  |   |  |
| 7                             |   | Prerequisites for Awarding of Credit Points  Passing the written test. Both courses must be attended; the examination refers to topics of both courses.  |  |                                      |  |   |  |
| 8                             | Other Program   | Other Programmes that Use the Module  Master of Science Business Administration - Supply Chain Management:   |  |                                      |  |   |  |

| Supplementary Section Supply Chain Management                        |
|--|
| Master of Science Information Systems:                               |
| Supplementary Section Information Systems                            |
| Master of Science Business Administration - Marketing:               |
| Supplementary Section Marketing                                      |
| Master of Science Business Administration - Corporate Development:   |
| Supplementary Section Corporate Development                          |
| Master of Science Business Administration - Accounting and Taxation: |
| Supplementary Section Accounting and Taxation                        |
| Master of Science Mathematik:  |
| MA Business and Economics Sciences Mathematics                       |
| Master of Science Economics:   |
| Supplementary Section  |
| Master of Science Gesundheitsökonomie:                               |
| Supplementary Section Health Economics                               |
| Master of Science Wirtschaftsmathematik:                             |
| MA Business and Economics Sciences Mathematics                       |
| Master of Science International Management:                          |
| Supplementary Section International Management                       |
| Master of Science Business Administration - Finance:                 |
| Specialization Section Finance                                       |
| Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs:   |
| Supplementary Section Business Education                             |
| Master of Science Geographie:  |
| Business Administration Master Geography                             |
| Master of Arts Regionalstudien China - Betriebswirtschaftslehre:     |
| Business Administration Master Regional Studies China                |
| Module Manager   |
| UnivProf. Dr. Thomas Hartmann-Wendels                                |
| UnivProf. Dr. Heinrich R. Schradin                                   |
| Miscellaneous  |
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| Specialisation Module Finance 2 |  |   |                 |   |  |                            |  |  |
|---------------------------------|--|---|-----------------|---|--|----------------------------|--|--|
| <b>Module Co</b><br>1259SMFi0   |  | <b>Workload</b><br>180h   | ECTS Credits    | Module<br>Language<br>German and<br>English | Module<br>Availability<br>every 2nd<br>term - sum-<br>mer term | Duration<br>1 Term         |  |  |
| 1                               | Courses<br>Fixed Income M  | anagement   |                 | Contact<br>Hours<br>60h                     | Self-Stu-<br>dies<br>120h                                      | Course Language<br>English |  |  |
| 2                               | Market for Fixe     Trading strate     Types of bone     Yield curves     Bond valuation   | Module Content  • Market for Fixed Income securities  • Trading strategies  • Types of bonds and risk factors  • Yield curves  • Bond valuation and management  • Interest rate derivatives   |                 |   |  |                            |  |  |
| 3                               | Students outline how th analyse variou value bonds a calculate the weigh the ant risk managemer compare port answer critica work on pract class.   | outline how the Fixed Income market operates analyse various investment styles and their prospects of success value bonds and bond portfolios calculate the risks involved in bonds weigh the anticipated return against the risk taken in order to ensure professional and responsible risk management compare portfolio management strategies answer critical questions confidently work on practical exercises in small groups to discuss the knowledge and methods learned in class agree on suitable methods for solving the practical exercises within the small groups and justify |                 |   |  |                            |  |  |
| 4                               | Teaching and L<br>lecture<br>practice  | ∟earning Meth   | ods             |   |  |                            |  |  |
| 5                               | Module Entry R<br>Recommended:   | •   | Module Financia | l Theory                                    |  |                            |  |  |
| 6                               |  | Mode of End-Of-Module Examination Written test: WT (60)  Prerequisites for Awarding of Credit Points Passing the written test.  |                 |   |  |                            |  |  |
| 7                               |  |   |                 |   |  |                            |  |  |
| 8                               | Other Programmes that Use the Module  Master of Science Business Administration - Supply Chain Management:     Supplementary Section Supply Chain Management  Master of Science Information Systems:     Supplementary Section Information Systems  Master of Science Business Administration - Marketing:     Supplementary Section Marketing  Master of Science Business Administration - Corporate Development:     Supplementary Section Corporate Development |   |                 |   |  |                            |  |  |

| Speciali                      | Specialisation Module Finance 5  |  |  |  |  |                           |  |  |
|-------------------------------|--|--|--|--|--|---------------------------|--|--|
| <b>flodule Co</b><br>259SMFi1 |  | <b>Workload</b><br>180h  | ECTS Credits   | Module<br>Language<br>German and<br>English              | Module<br>Availability<br>every 2nd<br>term - sum-<br>mer term | <b>Duration</b><br>1 Term |  |  |
| 1                             | Courses<br>Insurance   |  |  | Contact<br>Hours<br>60h                                  | Self-Stu-<br>dies<br>120h                                      | Course Language<br>German |  |  |
| 2                             | Part A: Reinsur Reinsurance a Forms of tradi Financial Rein Alternative Ris Part B: Manage Management  | Module Content  Part A: Reinsurance and ART  Reinsurance and Alternative Risk Transfer  Forms of traditional Reinsurance  Financial Reinsurance  Alternative Risk Transfer  Part B: Management of groups and mutual principle  Management of groups and mutual principle  Construction of insurance groups |  |  |  |                           |  |  |
| 3                             | analyse curre<br>assess and di<br>discuss scien  | dvanced, spec<br>nt questions a<br>iscuss findings<br>tific topics in a  | ialized theories / ind challenges in to and research responds professional marevelopments in fin | he area of finar<br>sults of specializ<br>ner and approp | nce.<br>zed theories / r                                       | nethods.                  |  |  |
| 4                             | Teaching and L<br>lecture<br>practice  | earning Meth   | nods   |  |  |                           |  |  |
| 5                             | 1  | Module Entry Requirements no recommendations  Mode of End-Of-Module Examination Written test: WT (60)  Prerequisites for Awarding of Credit Points Passing the written test. Both courses must be attended; the examination refers to topics of both courses.  |  |  |  |                           |  |  |
| 6                             |  |  |  |  |  |                           |  |  |
| 7                             | Passing the writ   |  |  |  |  |                           |  |  |
| 8                             | Other Programmes that Use the Module  Master of Science Business Administration - Supply Chain Management:     Supplementary Section Supply Chain Management  Master of Science Information Systems:     Supplementary Section Information Systems  Master of Science Business Administration - Marketing:     Supplementary Section Marketing  Master of Science Business Administration - Corporate Development:     Supplementary Section Corporate Development  Master of Science Business Administration - Accounting and Taxation:     Supplementary Section Accounting and Taxation  Master of Science Mathematik:     MA Business and Economics Sciences Mathematics |  |  |  |  |                           |  |  |

|    | Master of Science Economics:     Supplementary Section  Master of Science Wirtschaftsmathematik:     MA Business and Economics Sciences Mathematics  Master of Science Business Administration - Finance:     Specialization Section Finance     Supplementary Section Finance  Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs:     Supplementary Section Business Education |
|----|---|
| 9  | Module Manager UnivProf. Dr. Heinrich R. Schradin   |
| 10 | Miscellaneous   |

| Specialisation Module Finance 7 |  |  |   |   |  |                           |  |
|---------------------------------|--|--|---|---|--|---------------------------|--|
| <b>/lodule Cod</b><br>259SMFi07 | -  | <b>Workload</b><br>180h  | ECTS Credits  | Module<br>Language<br>German and<br>English   | Module<br>Availability<br>every 2nd<br>term - sum-<br>mer term | <b>Duration</b><br>1 Term |  |
| 1                               | Courses Rechnungslegung von Versicherungsunternehmen nach HGB und IFRS  Contact Hours 30h  Contact dies German German  |  |   |   |  |                           |  |
| 2                               | <ul><li>Accounting sy</li><li>Sources of lav</li><li>HGB, IAS/IFR</li></ul>  | Module Content  • Accounting systems  • Sources of law  • HGB, IAS/IFRS accounting methods  • Full fair value accounting   |   |   |  |                           |  |
| 3                               | value claims r   | ance companion<br>reserves, claim<br>repact of differe   | es' annual financia<br>is equalization res<br>nt accounting rule<br>ng strategies for ir  | serves and actures on how balar   | iarial reserves.<br>nce sheet items                            |                           |  |
| 4                               | Teaching and L<br>lecture<br>practice  |  |   |   |  |                           |  |
| 5                               | Module Entry R   | -  |   |   |  |                           |  |
| 6                               | Mode of End-O<br>Written test: WT  |  | mination  |   |  |                           |  |
| 7                               | •  | Prerequisites for Awarding of Credit Points Passing the written test.  |   |   |  |                           |  |
| 8                               | Supplei Master of Science MA Bus Master of Science Supplei Master of Science Supplei Master of Science MA Bus Master of Science MA Bus Master of Science | ce Business Admentary Section ce Information mentary Section ce Business Admentary Section ce Business Admentary Section ce Business Admentary Section ce Mathematik ce Economics: mentary Section ce Wirtschaftsrussiness and Economic | dministration - Supon Supply Chain Management Systems:  on Information Systems:  on Information - Management Systems:  on Marketing dministration - Component Development Systems:  on Accounting and the Component Sociences on mathematik:  onomics Sciences on Sciences on Systems Sociences dministration - Fin | Management stems rketing: rporate Developelopment counting and Tatation Mathematics Mathematics | oment:   |                           |  |

|    | Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs: Supplementary Section Business Education Master of Science Geographie: Business Administration Master Geography Master of Arts Regionalstudien China - Betriebswirtschaftslehre: Business Administration Master Regional Studies China |
|----|---|
| 9  | Module Manager UnivProf. Dr. Heinrich R. Schradin   |
| 10 | Miscellaneous   |

| Specialisation module Finance 8  |   |   |   |   |  |                           |  |
|----------------------------------|---|---|---|---|--|---------------------------|--|
| <b>Module Code</b><br>1259SMFi08 |   | <b>Workload</b><br>180h   | ECTS Credits  | Module<br>Language<br>German and<br>English                       | Module<br>Availability<br>every 2nd<br>term - sum-<br>mer term | <b>Duration</b><br>1 Term |  |
| 1                                | Courses<br>Asset Managem  | Courses Asset Management Contact Hours 60h Self-Stu- dies English   |   |   |  |                           |  |
| 2                                | Investment pro  | Module Content  Investment process and design of equity funds Trading strategies for equity funds Risk factors  |   |   |  |                           |  |
| 3                                | Students outline the ins analyse vario value stock, b calculate the weigh the ant risk managemer compare port answer critica work on pract class agree on suita their decision. | outline the institutional framework related to asset management analyse various investment styles and their prospects of success value stock, bonds and combined stock/bond portfolios calculate the risks involved in stocks and bonds weigh the anticipated return against the risk taken in order to ensure professional and responsible risk management compare portfolio management strategies answer critical questions confidently work on practical exercises in small groups to discuss the knowledge and methods learned in class agree on suitable methods for solving the practical exercises within the small groups and justify |   |   |  |                           |  |
| 4                                | Teaching and L<br>lecture<br>practice   | earning Meth  | nods  |   |  |                           |  |
| 5                                |   | Module Entry Requirements Recommended: Specialisation Module Financial Theory   |   |   |  |                           |  |
| 6                                |   | Mode of End-Of-Module Examination Written test: WT (60)   |   |   |  |                           |  |
| 7                                | 1 -   | Prerequisites for Awarding of Credit Points Passing the written test.   |   |   |  |                           |  |
| 8                                | Supple Master of Science Supple Master of Science Supple Master of Science Supple Master of Science   | ce Business A<br>mentary Section<br>ce Information<br>mentary Section<br>ce Business A<br>mentary Section<br>ce Business A<br>mentary Section   | dministration - Su<br>on Supply Chain I<br>Systems:<br>on Information Sy<br>dministration - Ma<br>on Marketing<br>dministration - Co<br>on Corporate Dev<br>dministration - Ac<br>on Accounting and | Management stems rketing: rporate Developelopment counting and Ta | pment:   |                           |  |

|    | MA Business and Economics Sciences Mathematics  Master of Science Wirtschaftsmathematik:     MA Business and Economics Sciences Mathematics  Master of Science International Management:     Supplementary Section International Management  Master of Science Business Administration - Finance:     Specialization Section Finance     Supplementary Section Finance  Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs:     Supplementary Section Business Education |
|----|---|
| 9  | Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs:     Supplementary Section Business Education  Master of Science Geographie:     Business Administration Master Geography  Master of Arts Regionalstudien China - Betriebswirtschaftslehre:     Business Administration Master Regional Studies China  Module Manager   |
|    | UnivProf. Dr. Alexander Kempf<br>Dr. Alexander Pütz   |
| 10 | Miscellaneous   |

| Specialisation Module Value-Based Management in Insurance |  |   |  |  |                                     |                            |  |
|---|--|---|--|--|-------------------------------------|----------------------------|--|
| Module Code<br>1259SMVB00                                 |  | I I   | ECTS Credits   | Module<br>Language<br>English  | Module<br>Availability<br>irregular | <b>Duration</b><br>1 Term  |  |
| 1   | Courses<br>Value-Based Ma<br>ory and Practice  | -   | nsurance - The-  | Contact<br>Hours<br>60h  | Self-Stu-<br>dies<br>120h           | Course Language<br>English |  |
| 2   | Introduction in Insurance Ris Risk Modellin Risk Manage Risk-based C Decision-mak Trends and C   | Module Content  Introduction in Insurance Management Insurance Risk and Production Technology Risk Modelling and Risk Measurement Risk Management and Shareholder Wealth Risk-based Capital Allocation Decision-making in a Value-Based Management Framework Trends and Challenges in the Insurance Industry Trends and Challenges in the Insurance Industry  |  |  |                                     |                            |  |
| 3   | Learning Objectives Students learn methods for managing and evaluating insurance companies learn methods of value-based management in insurance companies model cash flows of insurance companies analyze the risk situation of insurance companies assess different methods for calculating the capital requirements assess different methods for risk capital allocation learn fundamentals of asset liability management. |   |  |  |                                     |                            |  |
| 4   | Teaching and L<br>lecture<br>practice  |   |  |  |                                     |                            |  |
| 5   | Module Entry R   | Module Entry Requirements none  |  |  |                                     |                            |  |
| 6   |  | Mode of End-Of-Module Examination Written test: WT (60)   |  |  |                                     |                            |  |
| 7   | Prerequisites for Passing the write  | _   |  |  |                                     |                            |  |
| 8   | Supple<br>Master of Science<br>Supple<br>Master of Science<br>Supple<br>Master of Science<br>Supple<br>Master of Science<br>MA Bus<br>Master of Science  | ce Business Admentary Section ce Information mentary Section ce Business Admentary Section ce Business Admentary Section ce Business Admentary Section ce Mathematik siness and Economical Economical Section ce Mathematik siness and Economical Section ce Mathematical Section | dministration - Sum Supply Chain Management Systems: on Information Systems: dministration - Management Systems: dministration - Comporate Device Comporate Device Comporate Systems on Accounting and systems Sciences Systems System | Management stems rketing: rporate Develo elopment counting and Ta d Taxation | pment:                              |                            |  |

|    | Master of Science Wirtschaftsmathematik:  MA Business and Economics Sciences Mathematics  Master of Science International Management:  Supplementary Section International Management  Master of Science Business Administration - Finance:  Specialization Section Finance  Supplementary Section Finance  Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs:  Supplementary Section Business Education |
|----|--|
| 9  | Module Manager Dr. Muhammed Altuntas UnivProf. Dr. Heinrich R. Schradin  |
| 10 | Miscellaneous  |

| Specialisation Module Selected Issues in Finance I (6 LP) |  |                                    |              |                                      |  |                           |  |
|---|--|------------------------------------|--------------|--------------------------------------|--|---------------------------|--|
| Module Code<br>1259SIiF01                                 |  | Workload<br>180h ECTS Credits<br>6 | ECTS Credits | Module<br>Language<br>German         | Module<br>Availability<br>every 2nd<br>term - sum-<br>mer term | <b>Duration</b><br>1 Term |  |
| 1   | Courses a) Management term) b) Management  | _                                  | ,            | Contact<br>Hours<br>a) 60h<br>b) 30h | Self-Stud-<br>ies<br>a) 120h<br>b) 150h                        | Course Language           |  |
| 2   | Module Content  a) Management of building societies:  • Main contents of the Building and Loan Associations Act (Bauspar-kassengesetz) • Basic theoric of controlling depositors groups • Risk categories relevant for building societies • Managing interest rate margins on a depositor group level • Management of liquidity risks • Impact of the Basel Committee's capital accords on building societies  b) Management of Leasing Companies:  • Institutional Economic Analysis of Leases  • Financing of Leasing Companies  • Special Features of Accounting for Leasing Contracts  • Calculation of Net Asset Value  • Financial Controlling of Leasing Companies' Profit and Risk Situation |                                    |              |                                      |  |                           |  |
| 3   | Learning Objectives Students analyse the theoretical fundamentals of the leasing business recognise the special features of leasing in term in term of business administration assess different refinancing possibilities for leasing companies calculate net asset value in order to value leasing portfolios discuss the special features of accounting for leasing contracts apply financial controlling instruments to leasing companies' return/risk control activities develop an understanding for the managerial tasks in a leasing company  |                                    |              |                                      |  |                           |  |
| 4   | Teaching and Learning Methods lecture practice   |                                    |              |                                      |  |                           |  |
| 5   | Module Entry Requirements No recommendations   |                                    |              |                                      |  |                           |  |
| 6   | Mode of End-Of-Module Examination Written test: WT (60)  |                                    |              |                                      |  |                           |  |
| 7   | Prerequisites for Awarding of Credit Points Passing the written test in one of the courses.  |                                    |              |                                      |  |                           |  |
| 8   |  |                                    |              |                                      |  |                           |  |

|    | Supplementary Section Corporate Development  Master of Science Business Administration - Accounting and Taxation: Supplementary Section Accounting and Taxation  Master of Science Mathematik: MA Business and Economics Sciences Mathematics  Master of Science Wirtschaftsmathematik: MA Business and Economics Sciences Mathematics  Master of Science Business Administration - Finance: Specialization Section Finance Supplementary Section Finance |
|----|---|
| 9  | Module Manager UnivProf. Dr. Thomas Hartmann-Wendels  |
| 10 | Miscellaneous   |

| CM Macı                   | roeconomics  |  |  |  |  |                           |  |  |
|---------------------------|--|--|--|--|--|---------------------------|--|--|
| Module Code<br>1302MBMAC1 |  | Workload ECTS Credits 6  |  | Module<br>Language<br>English                  | Module<br>Availability<br>every 2nd<br>term - winter<br>term | <b>Duration</b><br>1 Term |  |  |
| 1                         | Courses<br>Macroeconomic   | Courses Macroeconomics  Contact Hours 60h  Contact Hours 120h  Course Langu English  |  |  |  |                           |  |  |
| 2                         | The course foci<br>nants of econom<br>second part, sho<br>real business cy<br>able, whether th<br>economic policy  | Module Content  The course focuses on macroeconomic theory and issues. In its first part, it covers key determinants of economic growth and cross-country income differences, using modern growth theory. In the second part, short-term fluctuations in economic activity and stabilisation policy are covered, using real business cycle and new Keynesian models. Both parts ask when market outcomes are sustain able, whether they coincide with outcomes that are optimal from society's perspective, and whethe economic policy can help achieve socially desirable outcomes. The course also introduces method of dynamic optimisation and simulation of macroeconomic models. |  |  |  |                           |  |  |
| 3                         | Learning Objectives Students understand advanced, specialized theories / methods analyse current questions and challenges present scientific results in a way that is appropriate for the target audience act responsibly considering ecological, social and ethical criteria critically evaluate current social developments and develop alternative solutions. |  |  |  |  |                           |  |  |
| 4                         | Teaching and L<br>lecture<br>practice  |  |  |  |  |                           |  |  |
| 5                         | Module Entry R   |  | s<br>omics, Macroecon  | omics and Bac                                  | helor Level Ma   | thematics                 |  |  |
| 6                         |  | Mode of End-Of-Module Examination Written test: WT (90)  |  |  |  |                           |  |  |
| 7                         |  | Prerequisites for Awarding of Credit Points Passing the module examination   |  |  |  |                           |  |  |
| 8                         | Master of Arts R Econor Master of Arts P Supple Master of Science Supple Master of Science Supple Master of Science  | ce Economics and Advanced a Regionalstudie mics Master R Politikwissensc mentary Secti ce Business A mentary Secti ce Information mentary Secti  | : Section Economic n China - Volkswir egional Studies Co chaft: on Political Science dministration - Fin on Finance n Systems: on Information Systal Management: | tschaftslehre:<br>hina<br>ce<br>ance:<br>stems |  |                           |  |  |

|    | Supplementary Section Corporate Development Master of Arts Regionalstudien Lateinamerika - Volkswirtschaftslehre: Economics Master Regional Studies Latin America |
|----|---|
| 9  | Module Manager UnivProf. Michael Krause, Ph.D.  |
| 10 | Miscellaneous   |

|                           |  |  | T   | ı  | 1  | 1                         |  |  |
|---------------------------|--|--|---|--|--|---------------------------|--|--|
| Module Code<br>1302MSMEP1 |  | <b>Workload</b><br>180h  | ECTS Credits 6  | Module<br>Language<br>English  | Module<br>Availability<br>every 2nd<br>term - sum-<br>mer term | <b>Duration</b><br>1 Term |  |  |
| 1                         | Courses<br>Growth, Inequal   | Courses Growth, Inequality and Structural Change  Contact Hours 45h  Self-Studies English  |   |  |  |                           |  |  |
| 2                         | <ul> <li>Neoclassical C</li> <li>The Rate and</li> <li>Automation, W</li> <li>Men, Robots,</li> <li>Sectorial Char</li> <li>Technical Char</li> </ul>  | Module Content  Neoclassical Growth  The Rate and the Direction of Technical Change  Automation, Work and Leisure  Men, Robots, and Artificial Intelligence  Sectorial Change (Deindustrialisation, Services, Real Estate, Rise of the State)  Technical Change and Inequality  The Affluent Society and its Economic Problems   |   |  |  |                           |  |  |
| 3                         | Students understand ac   | Learning Objectives Students understand advanced, specialized theories / methods analyse current questions and challenges assess and discuss findings and research results of specialized theories / methods.  |   |  |  |                           |  |  |
| 4                         | Teaching and L<br>lecture<br>practice  |  |   |  |  |                           |  |  |
| 5                         | Module Entry R   | -  | economics or CM   | Advanced Mac   | croeconomics I   |                           |  |  |
| 6                         | Mode of End-O<br>Written test: WT  |  | mination  |  |  |                           |  |  |
| 7                         | Prerequisites for Passing the mod  | _  |   |  |  |                           |  |  |
| 8                         | Supplei Master of Arts R Econor Master of Arts P Supplei Master of Science Supplei Master of Science Supplei Master of Arts R Econor Master of Science Supplei Supplei Master of Arts R Econor Master of Science Supplei | ce Economics ization Section mentary Section Master Rollitikwissenschen Business Amentary Section Information mentary Section Information mentary Section Master Rollics Ma | : n Economics on n China - Volkswir egional Studies Ci haft: on Political Scienc dministration - Fin on Finance Systems: on Information Systems Ost- und Mittele egional Studies Es | nina<br>ee<br>ance:<br>stems<br>uropa - Volksw<br>astern Europe<br>earch |  |                           |  |  |

|    | Master of Arts Regionalstudien Lateinamerika - Volkswirtschaftslehre:<br>Economics Master Regional Studies Latin America |
|----|--|
| 9  | Module Manager UnivProf. Dr. Peter Funk  |
| 10 | Miscellaneous  |

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|-----------------------------|---|--|--|---|--|---------------------------|--|
| <b>lodule Co</b><br>302MSME |   | <b>Workload</b><br>180h  | ECTS Credits   | Module<br>Language<br>English                 | Module<br>Availability<br>every 2nd<br>term - sum-<br>mer term | <b>Duration</b><br>1 Term |  |
| 1                           | Courses<br>Macroeconomic  | Courses Macroeconomics of the Labour Market  Contact Hours 45h  Self-Stu- dies English   |  |   |  |                           |  |
| 2                           | Labour Marke     Theory of Sea     The Search ar     Structural Lab     Labour Marke  | Module Content  Labour Market Dynamics: job creation and destruction Theory of Search Unemployment The Search and Matching Model of the Labour Market Structural Labour Market Policy: Employment Protection and Unemployment Insurance Labour Markets and the Business Cycle Specific Topics in Macroeconomics of the Labour Market |  |   |  |                           |  |
| 3                           | Students assess and di justify and det discuss scient cialists.   | assess and discuss findings and research results of specialized theories / methods justify and defend (independently developed) positions or problem solutions discuss scientific topics in a professional manner and appropriate to the situation with (non-) s   |  |   |  |                           |  |
| 4                           | Teaching and L<br>lecture<br>practice   |  |  |   |  |                           |  |
| 5                           | Recommendation CM Microeconor   | Module Entry Requirements Recommendation: CM Macroeconomics or CM Advanced Macroeconomics; CM Microeconomics o CM Microeconomics (Business Administration) or CM Advanced Microeconomics; CM Mathematics or CM Advanced Mathematics  |  |   |  |                           |  |
| 6                           |   | Mode of End-Of-Module Examination Written test: WT (90)  |  |   |  |                           |  |
| 7                           |   | Prerequisites for Awarding of Credit Points Passing the module examination   |  |   |  |                           |  |
| 8                           | Supplei Master of Arts R Econor Master of Arts P Supplei Master of Science Supplei Master of Science Supplei Master of Arts R | ce Economics: lization Section mentary Section legionalstudier nics Master Re colitikwissensol mentary Section ce Business Acomentary Section ce Information mentary Section   | n Economics on on China - Volkswir egional Studies Conaft: on Political Science dministration - Fin on Finance Systems: on Information System Ost- und Mittele | hina<br>e<br>ance:<br>stems<br>uropa - Volksw | rirtschaftslehre:  |                           |  |

|    | Supplementary Section Economic Research Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development Master of Arts Regionalstudien Lateinamerika - Volkswirtschaftslehre: Economics Master Regional Studies Latin America |
|----|--|
| 9  | Module Manager UnivProf. Michael Krause, Ph.D.   |
| 10 | Miscellaneous  |

| SpM Markets and Economic Policy III |  |  |                   |                               |  |                           |  |
|-------------------------------------|--|--|-------------------|-------------------------------|--|---------------------------|--|
| Module Cod<br>1302MSMEF             |  | <b>Workload</b><br>180h  | ECTS Credits      | Module<br>Language<br>English | Module<br>Availability<br>every 2nd<br>term - winter<br>term | <b>Duration</b><br>1 Term |  |
| 1                                   | Courses Development Ed   | CoursesContact<br>HoursSelf-Stu-<br>dies<br>135hCourse<br>English  |                   |                               |  |                           |  |
| 2                                   | Introduction to     Causes and co     Risk and insure  | Module Content  Introduction to development economics based on theoretical and empirical research  Causes and consequences of poverty, underinvestment in health, education, and wealth  Risk and insurance  Methods to evaluate development projects and policies   |                   |                               |  |                           |  |
| 3                                   | Students assess and di collect and an methods justify and def  | assess and discuss findings and research results of specialized theories / methods collect and analyse data material for selected scientific questions using quantitative / qualitative methods justify and defend (independently developed) positions or problem solutions evaluate their own action processes in self- and external reflection and identify development po-  |                   |                               |  |                           |  |
| 4                                   | Teaching and L<br>lecture<br>practice  |  |                   |                               |  |                           |  |
| 5                                   | Module Entry R<br>Recommendation   | -  | netrics or CM App | lied Econometi                | rics (Business /   | Administration)           |  |
| 6                                   | Mode of End-O<br>Written test: WT  |  | mination          |                               |  |                           |  |
| 7                                   | Prerequisites for Passing the mod  | _  |                   |                               |  |                           |  |
| 8                                   | Master of Science Special Supplee Master of Arts P Supplee Master of Science Supplee Master of Science Supplee Master of Science | Other Programmes that Use the Module  Master of Science Economics:     Specialization Section Economics     Supplementary Section  Master of Arts Politikwissenschaft:     Supplementary Section Political Science  Master of Science Business Administration - Finance:     Supplementary Section Finance  Master of Science Information Systems:     Supplementary Section Information Systems  Master of Science Economic Research:     Supplementary Section Economic Research |                   |                               |  |                           |  |
| 9                                   | Module Manage<br>UnivProf. Dr. E   |  |                   |                               |  |                           |  |
| 10                                  | Miscellaneous  |  |                   |                               |  |                           |  |

| SpM Mark                  | ets and Eco  | nomic Pol   | icy V         |                                |  |                            |  |
|---------------------------|--|---|---------------|--------------------------------|--|----------------------------|--|
| Module Code<br>1302MSMEP5 |  | <b>Workload</b><br>180h   | ECTS Credits  | <b>Module Language</b> English | Module<br>Availability<br>every 2nd<br>term - sum-<br>mer term | <b>Duration</b><br>1 Term  |  |
| 1                         | Courses<br>Determinants of   | Growth in Eco   | nomic History | Contact<br>Hours<br>45h        | Self-Stu-<br>dies<br>135h                                      | Course Language<br>English |  |
| 2                         | <ul> <li>Introduction to<br/>cially geography</li> </ul>   | Module Content  Introduction to the determinants of long-term development and growth in economic history, especially geography, institutions and cultural factors  Methods for assessing causal relationships between the determinants and current economic development |               |                                |  |                            |  |
| 3                         | Learning Objectives Students assess and discuss findings and research results of specialized theories / methods justify and defend (independently developed) positions or problem solutions evaluate their own action processes in self- and external reflection and identify development potentials.  |   |               |                                |  |                            |  |
| 4                         | Teaching and L<br>lecture<br>practice  |   |               |                                |  |                            |  |
| 5                         | _  | Module Entry Requirements Recommendation: CM Econometrics or CM Applied Econometrics (Business Administration)  |               |                                |  |                            |  |
| 6                         | Mode of End-O<br>Written test: WT  |   | mination      |                                |  |                            |  |
| 7                         | -  | Prerequisites for Awarding of Credit Points Passing the module examination  |               |                                |  |                            |  |
| 8                         | Other Programmes that Use the Module  Master of Science Economics:     Specialization Section Economics     Supplementary Section  Master of Arts Politikwissenschaft:     Supplementary Section Political Science  Master of Science Business Administration - Finance:     Supplementary Section Finance  Master of Science Information Systems:     Supplementary Section Information Systems  Master of Science Economic Research:     Supplementary Section Economic Research |   |               |                                |  |                            |  |
| 9                         | Module Manage<br>UnivProf. Dr. E   |   |               |                                |  |                            |  |
| 10                        | Miscellaneous  |   |               |                                |  |                            |  |

| SpM Market Design and Behaviour III |  |   |                  |                               |  |                           |  |
|-------------------------------------|--|---|------------------|-------------------------------|--|---------------------------|--|
| Module Co                           |  | Workload<br>180h  | ECTS Credits     | Module<br>Language<br>English | Module<br>Availability<br>every 2nd<br>term - sum-<br>mer term | <b>Duration</b><br>1 Term |  |
| 1                                   | Courses<br>Economics of In   | Courses<br>Economics of InnovationContact<br>Hours<br>45hSelf-Stu-<br>dies<br>135hCourse Lang<br>English  |                  |                               |  |                           |  |
| 2                                   | Core and currer Ideas and know Competition i Innovation, pr Intellectual pr Mobility of innovation-mak Artificial intell Empirical mode Potential outce Difference-in- | Module Content Core and current research in the field Economics of Innovation:  • Ideas and knowledge production, adoption and diffusion of technologies  • Competition in product markets, market entry, innovation, and economic growth  • Innovation, productivity, and reallocation  • Intellectual property rights, science and basic research  • Mobility of innovators and high-skilled individuals  • Decision-making of inventors and entrepreneurs  • Artificial intelligence, automation, and digital transformation  Empirical modelling and econometric methods:  • Potential outcomes, treatments, assignment mechanisms, and identification of causal effects  • Difference-in-differences methods, methods using instrumental variables  • Propensity-score and matching methods, non- and semi-parametric models, machine learning |                  |                               |  | n of causal effects       |  |
| 3                                   | Students understand ac extend and us assess and e present and d are introduced   | Learning Objectives   |                  |                               |  |                           |  |
| 4                                   | Teaching and L<br>lecture<br>practice  | Teaching and Learning Methods lecture   |                  |                               |  |                           |  |
| 5                                   | Recommendation  Methods in the Methods   | Module Entry Requirements Recommendation: CMs Econometrics, Microeconomics, and Macroeconomics and AM Empirical Methods in the M.Sc. Economics or the CMs Advanced Econometrics I and II, Advanced Microeconomics I, and Advanced Macroeconomics I in the M.Sc. Economic Research   |                  |                               |  | •                         |  |
| 6                                   |  | Mode of End-Of-Module Examination Written test: PO  |                  |                               |  |                           |  |
| 7                                   |  |   | of Credit Points |                               |  |                           |  |
| 8                                   | Master of Scient<br>Supple<br>Master of Arts P<br>Supple<br>Master of Scient   | Passing the module examination  Other Programmes that Use the Module  Master of Science Business Administration - Supply Chain Management:     Supplementary Section Supply Chain Management  Master of Arts Politikwissenschaft:     Supplementary Section Political Science  Master of Science Business Administration - Finance:     Supplementary Section Finance   |                  |                               |  |                           |  |

|    | Master of Science Information Systems:     Supplementary Section Information Systems Master of Science Business Administration - Corporate Development:     Supplementary Section Corporate Development Master of Science Economics:     Specialization Section Economics Supplementary Section |
|----|---|
| 9  | Module Manager UnivProf. Dr.' Susanne Prantl  |
| 10 | Miscellaneous See the relevant online systems and www.ieam.uni-koeln.de for further information.  |

| VIVI IVIICI                 | roeconomics (  | Business   | Administrati     | ion)  |  |                            |
|-----------------------------|--|--|------------------|---|--|----------------------------|
| <b>lodule Co</b><br>289MBME |  | <b>Workload</b><br>180h  | ECTS Credits     | <b>Module</b><br><b>Language</b><br>English | Module<br>Availability<br>every 2nd<br>term - winter<br>term | <b>Duration</b><br>1 Term  |
| 1                           | Courses<br>Microeconomics  | s: Game Theor  | у                | Contact<br>Hours<br>60h                     | Self-Stu-<br>dies<br>120h                                    | Course Language<br>English |
| 2                           | Non-cooperati Normal form g Extensive form Finitely and in Cooperative G Core, Shapley Evolutionary g Social choice  | Module Content  Non-cooperative Game Theory  Normal form games  Extensive form games, with complete and incomplete information  Finitely and infinitely repeated games  Cooperative Game Theory  Core, Shapley-value, bargaining problem  Evolutionary game theory  Social choice theory, voting  Condorcet-paradox, Arrow-theorem |                  |   |  |                            |
| 3                           | Learning Objectives Students understand advanced, specialized theories / methods in the area of Game Theory assess and discuss findings and research results of specialized methods analyse data for selected scientific questions using quantitative methods communicate continuously and purposefully in diverse teams critically evaluate current social developments and develop alternative solutions use techniques of scientific work and good scientific practice. |  |                  |   |  |                            |
| 4                           | Teaching and L<br>lecture<br>practice  | earning Meth   | ods              |   |  |                            |
| 5                           | Module Entry R   |  | evel Microeconom | nics, Macroeco                              | nomics, Mathen   | natics                     |
| 6                           | Mode of End-O<br>Written test: WT  |  | mination         |   |  |                            |
| 7                           | -  | Prerequisites for Awarding of Credit Points Passing the module examination   |                  |   |  |                            |
| 8                           | Other Programmes that Use the Module  Master of Science Business Administration - Supply Chain Management:   |  |                  |   |  |                            |

|    | Economics Master Regional Studies China  Master of Science Sociology and Social Research:     Supplementary Section Sociology and Social Research  Master of Science International Management:     Supplementary Section International Management  Master of Science Business Administration - Finance:     Core and Advanced Section Finance  Master of Science Business Administration - Marketing:     Core and Advanced Section Marketing  Master of Arts Regionalstudien Ost- und Mitteleuropa - Volkswirtschaftslehre:     Economics Master Regional Studies Eastern Europe  Master of Science Business Administration - Corporate Development: |
|----|---|
|    | Master of Science Business Administration - Marketing: Core and Advanced Section Marketing Master of Arts Regionalstudien Ost- und Mitteleuropa - Volkswirtschaftslehre:  |
|    | Economics Master Regional Studies Latin America   |
| 9  | Module Manager UnivProf. Dr.' Bettina Rockenbach  |
| 10 | Miscellaneous   |

| Specialisation module Competition Policy |  |  |   |   |                                     |                            |  |  |
|--|--|--|---|---|-------------------------------------|----------------------------|--|--|
| Module Cod<br>1289SMCP0                  | -  | <b>Workload</b><br>180h  | ECTS Credits  | Module<br>Language<br>English                                   | Module<br>Availability<br>irregular | <b>Duration</b><br>1 Term  |  |  |
| 1  | Courses<br>Competition Pol   | icy  |   | Contact<br>Hours<br>60h   | Self-Stu-<br>dies<br>120h           | Course Language<br>English |  |  |
| 2  | <ul><li>Institutional ba</li><li>Market power:</li><li>Unilateral abus</li></ul>   | <ul> <li>Module Content</li> <li>Institutional background: competition policy in Germany, the EU and the US</li> <li>Market power: theory and measurement</li> <li>Unilateral abuse of market power: horizontal and vertical restraints on competition</li> <li>Multilateral abuse of market power: cartels and implicit agreements</li> </ul> |   |   |                                     |                            |  |  |
| 3  | Students recognise, ba discuss the ca assess, evalu  | Learning Objectives Students recognise, based on models of competition theory, how competitive markets work discuss the causes of market power and its effects in terms of welfare economics assess, evaluate and debate cases that illustrate competition policy in practice and use competition theory to analyse them.                      |   |   |                                     |                            |  |  |
| 4  | Teaching and Learning Methods lecture practice   |  |   |   |                                     |                            |  |  |
| 5  |  | Module Entry Requirements No recommendations   |   |   |                                     |                            |  |  |
| 6  | Mode of End-O<br>Written test: WT  |  | mination  |   |                                     |                            |  |  |
| 7  | Prerequisites for Passing the write  | _  | f Credit Points   |   |                                     |                            |  |  |
| 8  | Supplei Master of Science Supplei Master of Arts P Supplei Master of Science Supplei Master of Science Supplei Master of Science Econor Master of Science Special Supplei Master of Arts R | ce Business Acmentary Section ce Information mentary Section colitikwissenschamentary Section ce Business Acmentary Section ce Business Acmentary Section ce Mathematik: nics ce Economics: lization Section mentary Section mentary Section ce Inics Master Rece Wirtschaftsrinics  | Iministration - Su<br>on Supply Chain M<br>Systems:<br>on Information Systems:<br>on Political Science<br>Iministration - Find<br>on Finance<br>Iministration - Co<br>on Corporate Devi | Management stems e ance: rporate Develo elopment tschaftslehre: |                                     |                            |  |  |

|    | Master of Arts Regionalstudien Ost- und Mitteleuropa - Volkswirtschaftslehre: |
|----|---|
| 9  | Module Manager UnivProf. Dr. Christoph Schottmüller                           |
| 10 | Miscellaneous   |

| SpM Media Economics         |   |   |   |  |  |                            |  |
|-----------------------------|---|---|---|--|--|----------------------------|--|
| <b>lodule Co</b><br>289MSME |   | <b>Workload</b><br>180h   | ECTS Credits  | <b>Module Language</b> English                             | Module<br>Availability<br>every 2nd<br>term - winter<br>term | <b>Duration</b><br>1 Term  |  |
| 1                           | Courses<br>Media Economic   | cs  |   | Contact<br>Hours<br>60h                                    | Self-Stu-<br>dies<br>120h                                    | Course Language<br>English |  |
| 2                           | Characteristic     Cost and reve     Digital transfor   | Module Content  Characteristics of media markets  Cost and revenue structures on media markets  Digital transformation of media markets  Political economy of media markets   |   |  |  |                            |  |
| 3                           | Students analyse curre assess and di  | Learning Objectives Students analyse current questions and challenges assess and discuss findings and research results of specialised theories / methods critically evaluate current social developments and develop alternative solutions.             |   |  |  |                            |  |
| 4                           | Teaching and L<br>lecture<br>practice   |   |   |  |  |                            |  |
| 5                           | Module Entry R  | Module Entry Requirements None  |   |  |  |                            |  |
| 6                           | Mode of End-O<br>Written test: WT   |   | mination  |  |  |                            |  |
| 7                           | Prerequisites for Passing the mod   | _   | of Credit Points  |  |  |                            |  |
| 8                           | Supple Master of Arts P Supple Master of Science | ce Business A<br>mentary Secti-<br>colitikwissensc<br>mentary Secti-<br>ce Business A<br>mentary Secti-<br>ce Business A<br>mentary Secti-<br>ce Economics<br>lization Section<br>mentary Secti-<br>ce International<br>mentary Secti-<br>ce Business A | dministration - Su<br>on Supply Chain I<br>haft:<br>on Political Science<br>dministration - Fir<br>on Finance<br>Systems:<br>on Information Sy<br>dministration - Co<br>on Corporate Dev<br>:<br>in Economics<br>on<br>al Management:<br>on International M<br>dministration - Ma | Management ee ance: stems rporate Develoelopment anagement |  |                            |  |
|                             | Master of Science   |   | _   | earch  |  |                            |  |

|    | Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs: Supplementary Section Business Education |
|----|---|
| 9  | Module Manager UnivProf. Dr. Johannes Münster   |
| 10 | Miscellaneous   |

| CM Health Economics III |  |  |   |   |  |                           |  |  |
|-------------------------|--|--|---|---|--|---------------------------|--|--|
| Module Co<br>1282MBHH   |  | <b>Workload</b><br>180h  | ECTS Credits  | Module<br>Language<br>English                   | Module<br>Availability<br>every 2nd<br>term - winter<br>term | <b>Duration</b><br>1 Term |  |  |
| 1                       | Courses<br>Information prob  | Courses Information problems in healthcare markets  Contact Hours 60h  Course Language English   |   |   |  |                           |  |  |
| 2                       | <ul><li>Relevant playe</li><li>Relationships</li></ul>   | Module Content  Relevant players on these markets, their goals and factors influencing decisions  Relationships between the players and implications in terms of health care market design  Analysis of existing health care systems in Europe and the rest of the world   |   |   |  |                           |  |  |
| 3                       | Students analyse curre assess and di justify and det   | Learning Objectives Students analyse current questions and challenges assess and discuss findings and research results of specialized theories / methods justify and defend (independently developed) positions or problem solutions critically evaluate current social developments and develop alternative solutions.  |   |   |  |                           |  |  |
| 4                       | Teaching and L<br>lecture<br>practice  |  |   |   |  |                           |  |  |
| 5                       | Module Entry R   | Module Entry Requirements none   |   |   |  |                           |  |  |
| 6                       | Mode of End-O<br>Written test: WT  |  | nination  |   |  |                           |  |  |
| 7                       | Prerequisites for Passing the mod  | _  |   |   |  |                           |  |  |
| 8                       | Supplei Master of Arts P Supplei Master of Science Special Supplei Master of Science Core ar | ce Business Admentary Section continues and a mentary Section ce Information mentary Section ce Business Admentary Section ce Business Admentary Section ce Economics: dization Section mentary Section ce Gesundheits and Advanced Section ce Secundheits and Advanced Section ce Information section ce Gesundheits and Advanced Section ce Gesundheits and Advanced Section ce Informatical Section ce Gesundheits and Advanced Section ce Informatical Section ce Informat | Iministration - Supon Supply Chain Maraft: In Political Science Iministration - Fine Political Science Systems: In Information Systems: In Corporate Devo | Management e ance: stems rporate Develoelopment | pment:   |                           |  |  |
|                         | Supple<br>Master of Science  | mentary Section<br>ce Economic R   | n Business Educ   | ation   |  |                           |  |  |

| 9  | Module Manager UnivProf. Dr. Christoph Schottmüller |
|----|---|
| 10 | Miscellaneous                                       |

| SpM Market Design and Behaviour III |   |   |  |                               |  |                           |  |
|-------------------------------------|---|---|--|-------------------------------|--|---------------------------|--|
| Module Code<br>1289MSMDB3           |   | Workload<br>180h  | ECTS Credits   | Module<br>Language<br>English | Module<br>Availability<br>every 2nd<br>term - sum-<br>mer term | <b>Duration</b><br>1 Term |  |
| 1                                   | Courses<br>Economics of In  | novation  | Self-Stu-<br>dies<br>120h  | Course Language<br>English    |  |                           |  |
| 2                                   | Core and currer Ideas and know Competition i Innovation, pr Intellectual pr Mobility of innovation-mak Artificial intell Empirical mode Potential outce | Module Content Core and current research in the field Economics of Innovation: Ideas and knowledge production, adoption and diffusion of technologies Competition in product markets, market entry, innovation, and economic growth Innovation, productivity, and reallocation Intellectual property rights, science and basic research Mobility of innovators and high-skilled individuals Decision-making of inventors and entrepreneurs Artificial intelligence, automation, and digital transformation  Empirical modelling and econometric methods: Potential outcomes, treatments, assignment mechanisms, and identification of causal effects Difference-in-differences methods, methods using instrumental variables Propensity-score and matching methods, non- and semi-parametric models, machine learning |  |                               |  |                           |  |
| 3                                   | Students understand ac extend and us assess and e present and d are introduced  | Learning Objectives   |  |                               |  |                           |  |
| 4                                   | Teaching and L<br>lecture<br>practice   | Teaching and Learning Methods lecture   |  |                               |  |                           |  |
| 5                                   | Recommendation  Methods in the Methods  | Module Entry Requirements Recommendation: CMs Econometrics, Microeconomics, and Macroeconomics and AM Empirical Methods in the M.Sc. Economics or the CMs Advanced Econometrics I, Advanced Microeconomic I, and Advanced Macroeconomics I in the M.Sc. Economic Research   |  |                               |  |                           |  |
| 6                                   |   | Mode of End-Of-Module Examination Written test: PO  |  |                               |  |                           |  |
| 7                                   | Prerequisites for Passing the mod   |   | of Credit Points<br>on   |                               |  |                           |  |
| 8                                   | Supple<br>Master of Arts P<br>Supple<br>Master of Science   | ce Business A<br>mentary Section<br>olitikwissensc<br>mentary Section   | dministration - Su<br>on Supply Chain N<br>haft:<br>on Political Scienc<br>dministration - Fin | Management<br>ee              | nagement:  |                           |  |

|    | Master of Science Information Systems:     Supplementary Section Information Systems Master of Science Business Administration - Corporate Development:     Supplementary Section Corporate Development Master of Science Economics:     Specialization Section Economics Supplementary Section |
|----|---|
| 9  | Module Manager UnivProf. Dr.' Susanne Prantl  |
| 10 | Miscellaneous See the relevant online systems and www.ieam.uni-koeln.de for further information.  |

| SpM Market Design and Mechanism Design |  |  |                   |                               |  |                           |  |  |
|--|--|--|-------------------|-------------------------------|--|---------------------------|--|--|
| Module Co<br>1289MSMN                  |  | <b>Workload</b><br>180h  | ECTS Credits      | Module<br>Language<br>English | Module<br>Availability<br>every 2nd<br>term - winter<br>term | <b>Duration</b><br>1 Term |  |  |
| 1                                      | Courses<br>Matching and M<br>Practice  | Matching and Market Design: Theory and Hours dies English                                  |                   |                               |  |                           |  |  |
| 2                                      | Module Conten<br>Matching Marke  |  | n Design with and | without monet                 | ary transfers  |                           |  |  |
| 3                                      | Students understand le transfers analyse existi empirical analys   | understand leading theoretical models of mechanism market design with and without monetary |                   |                               |  |                           |  |  |
| 4                                      | Teaching and L<br>lecture<br>practice  |  |                   |                               |  |                           |  |  |
| 5                                      | 1  | Module Entry Requirements Recommendation: Knowledge of game theory                         |                   |                               |  |                           |  |  |
| 6                                      |  | Mode of End-Of-Module Examination Combined examination: PRES, TP                           |                   |                               |  |                           |  |  |
| 7                                      | Prerequisites for Passing the mod  | _  |                   |                               |  |                           |  |  |
| 8                                      | Other Programmes that Use the Module  Master of Science Business Administration - Supply Chain Management:     Supplementary Section Supply Chain Management  Master of Arts Politikwissenschaft:     Supplementary Section Political Science  Master of Science Business Administration - Finance:     Supplementary Section Finance  Master of Science Information Systems:     Supplementary Section Information Systems  Master of Science Business Administration - Corporate Development:     Supplementary Section Corporate Development  Master of Science Economics:     Specialization Section Economics     Supplementary Section  Master of Science Sociology and Social Research:     Supplementary Section Sociology and Social Research  Master of Science Economic Research:     Supplementary Section Economic Research  Specialization Section Economic Research |  |                   |                               |  |                           |  |  |
| 9                                      | Module Manage<br>UnivProf. Dr. A   | ər   |                   |                               |  |                           |  |  |

Valid for students of the ER 2015 (enrolment for winter semester 2020/21 at the latest)

10 Miscellaneous

| SuM Me                | dia and Techr   | nology Mai  | nagement - E  | Enterprises  | , Markets,   | and Strategies                        |  |
|-----------------------|---|---|---|--|--|---------------------------------------|--|
| Module Co<br>1284MEEN |   | <b>Workload</b><br>180h   | ECTS Credits  | Module<br>Language<br>German and<br>English                                | Module<br>Availability<br>every 2nd<br>term - winter<br>term | <b>Duration</b><br>1 Term             |  |
| 1                     | Courses<br>Media and Tech<br>prises, Markets,   |   |   | Contact<br>Hours<br>30h  | Self-Stu-<br>dies<br>150h                                    | Course Language<br>German and English |  |
| 2                     | Overview of b tries and market Economic char of digital goods) MTM infrastru social welfare Design option Application of formation evaluation | Module Content  Overview of business models and characteristics of various media and telecommunications industries and markets in the digital age  Economic characteristics of digital products and services and resulting pricing strategies (economy of digital goods)  MTM infrastructures and their regulation and influence on MTM business models, companies and social welfare  Design options and decision strategies on digital and hybrid platforms and markets  Application of concepts of technology and innovation management, strategy development, transformation evaluation and entrepreneurship to selected media, IS and telecommunications companies, markets, platforms and innovations |   |  |  |                                       |  |
| 3                     | Students understand a agement analyse curre   | understand advanced, specialized theories / methods in the area of Media and Technology Man-  |   |  |  |                                       |  |
| 4                     | Teaching and L<br>lecture<br>Colloquium   | _earning Meth   | ods   |  |  |                                       |  |
| 5                     | Module Entry F  | Requirements  |   |  |  |                                       |  |
| 6                     | Mode of End-O<br>Written test: WT   |   | mination  |  |  |                                       |  |
| 7                     | Prerequisites for Passing the modern  | _   |   |  |  |                                       |  |
| 8                     | Master of Scient Supple Master of Scient Supple Master of Scient Supple Master of Arts M MA Me Master of Educa                                | ce Economics: mentary Section ce Information mentary Section ce Business Admentary Section ce Business Admentary Section dedienwissension dia Managementary Wirtschaft  | on<br>Systems:<br>on Information System<br>dministration - Ma<br>on Marketing<br>dministration - Co<br>on Corporate Dev | rketing:<br>rporate Develo <sub>l</sub><br>elopment<br>s<br>amt an Berufsk |  |                                       |  |

| 9  | Module Manager UnivProf. Dr.' Claudia Loebbecke, M.B.A. |
|----|---|
| 10 | Miscellaneous   |

| Jain moan                 | a and recini  | lology ivial  | nagement - S | elected is:                                 | sues i                    |                                       |  |  |
|---------------------------|---|---|--------------|---|---------------------------|---------------------------------------|--|--|
| Module Code<br>1284MEMTM1 |   | <b>Workload</b><br>180h                                 | ECTS Credits | Module<br>Language<br>German and<br>English | <b>Duration</b><br>1 Term |                                       |  |  |
| 1                         | Courses<br>Selected Media   | and Technolog   | y Issues     | Contact<br>Hours<br>30h                     | Self-Stu-<br>dies<br>150h | Course Language<br>German and English |  |  |
| 2                         | Module Conten<br>Varying topics   | t   |              |   |                           |                                       |  |  |
| 3                         | Learning Objectives Students analyse current questions and challenges in the area of Media and Technology Management justify and defend (independently developed) positions or problem solutions discuss scientific topics in a professional manner and appropriate to the situation with (non-) specialists act responsibly considering ecological, social and ethical criteria critically evaluate current social developments and develop alternative solutions.   |   |              |   |                           |                                       |  |  |
| 4                         | Teaching and Learning Methods<br>seminar<br>Colloquium  |   |              |   |                           |                                       |  |  |
| 5                         | Module Entry Requirements none  |   |              |   |                           |                                       |  |  |
| 6                         | Mode of End-O<br>Written test: PO   | f-Module Exar   | mination     |   |                           |                                       |  |  |
| 7                         | Prerequisites for Awarding of Credit Points Passing the module examination  |   |              |   |                           |                                       |  |  |
| 8                         | Other Programmes that Use the Module  Master of Science Economics:     Supplementary Section  Master of Science Information Systems:     Supplementary Section Information Systems  Master of Science Business Administration - Marketing:     Supplementary Section Marketing  Master of Science Business Administration - Corporate Development:     Supplementary Section Corporate Development  Master of Arts Medienwissenschaft:     MA Media Management and Economics  Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs:     Supplementary Section Business Education |   |              |   |                           |                                       |  |  |
| 9                         | Module Manage<br>UnivProf. Dr.' (   |   | ecke, M.B.A. |   |                           |                                       |  |  |
|                           |   | InivProf. Dr.' Claudia Loebbecke, M.B.A.  Miscellaneous |              |   |                           |                                       |  |  |

| Module Code<br>1284MEMTM2 |   | <b>Workload</b><br>180h   | ECTS Credits | Module<br>Language    | Module<br>Availability | <b>Duration</b><br>1 Term |  |
|---------------------------|---|---|--------------|-----------------------|------------------------|---------------------------|--|
|                           |   |   |              | German and<br>English | irregular              |                           |  |
| 1                         | Courses<br>Selected Media   | Courses Selected Media and Technology Issues Contact Hours 30h Contact Hours 150h Course Language German and Eng  |              |                       |                        |                           |  |
| 2                         | Module Content<br>Varying topics  | t   |              |                       |                        |                           |  |
| 3                         | Students analyse curre assess and di justify and de critically evalu  | Learning Objectives Students analyse current questions and challenges in the area of Media and Technology Management assess and discuss findings and research results of specialized theories / methods justify and defend (independently developed) positions or problem solutions critically evaluate current social developments and develop alternative solutions use techniques of scientific work and good scientific practice. |              |                       |                        |                           |  |
| 4                         | Teaching and L<br>seminar<br>Colloquium   |   |              |                       |                        |                           |  |
| 5                         | Module Entry R  | Requirements  |              |                       |                        |                           |  |
| 6                         | Mode of End-O<br>Written test: PO   |   | mination     |                       |                        |                           |  |
| 7                         | -   | Prerequisites for Awarding of Credit Points Passing the module examination  |              |                       |                        |                           |  |
| 8                         | Other Programmes that Use the Module  Master of Science Economics:     Supplementary Section  Master of Science Information Systems:     Supplementary Section Information Systems  Master of Science Business Administration - Marketing:     Supplementary Section Marketing  Master of Science Business Administration - Corporate Development:     Supplementary Section Corporate Development  Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs:     Supplementary Section Business Education |   |              |                       |                        |                           |  |
| 9                         | Module Manage<br>UnivProf. Dr.' (   |   | ecke, M.B.A. |                       |                        |                           |  |
| 10                        | Miscellaneous   | Miscellaneous   |              |                       |                        |                           |  |

| Module Code<br>1284MEMRP |   | <b>Workload</b><br>180h  | ECTS Credits | Module<br>Language<br>English | Module<br>Availability<br>irregular | <b>Duration</b><br>1 Term  |  |  |
|--------------------------|---|--|--------------|-------------------------------|-------------------------------------|----------------------------|--|--|
| 1                        | Courses<br>Media and Tech<br>search and Publ  |  | ement: Re-   | Contact<br>Hours<br>30h       | Self-Stu-<br>dies<br>150h           | Course Language<br>English |  |  |
| 2                        | The focus of thi  | <b>Module Content</b> The focus of this event is on scientific work, research design and research methods in the field of media and technology management and information systems. |              |                               |                                     |                            |  |  |
| 3                        | Learning Objectives Students understand advanced, specialized theories / methods in the field of media and technology management analyse current questions and challenges in the field of media and technology management assess and discuss findings and research results of specialized theories / methods collect, systematize and synthesize independently literature on selected scientific questions prepare independently a research design for a question justify and defend (independently developed) positions or problem solutions present scientific results in a manner appropriate to the target audience use techniques of scientific work and good scientific practice. |  |              |                               |                                     |                            |  |  |
| 4                        | Teaching and Learning Methods seminar   |  |              |                               |                                     |                            |  |  |
| 5                        | Module Entry Requirements  Recommendation: At least parallel assignment of an MTM Master Module and interest to write the Master thesis in MTM.   |  |              |                               |                                     |                            |  |  |
| 6                        | Mode of End-O<br>Written test: PO   | f-Module Exar  | mination     |                               |                                     |                            |  |  |
| 7                        | Prerequisites for Passing the mod   | _  |              |                               |                                     |                            |  |  |
| 8                        | Other Programmes that Use the Module  Master of Science Economics:     Supplementary Section  Master of Science Information Systems:     Supplementary Section Information Systems  Master of Science Business Administration - Marketing:     Supplementary Section Marketing  Master of Science Business Administration - Corporate Development:     Supplementary Section Corporate Development  Master of Arts Medienwissenschaft:     MA Media Management and Economics  Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs:     Supplementary Section Business Education   |  |              |                               |                                     |                            |  |  |
| 9                        | Module Manage<br>UnivProf. Dr.' (   |  | ecke, M.B.A. |                               |                                     |                            |  |  |
| 10                       | UnivProf. Dr. Claudia Loebbecke, M.B.A.  Miscellaneous  See www.mtm.uni-koeln.de  |  |              |                               |                                     |                            |  |  |

| SpM Media Economics       |   |   |   |  |  |                            |  |  |
|---------------------------|---|---|---|--|--|----------------------------|--|--|
| Module Code<br>1289MSMEC1 |   | <b>Workload</b><br>180h   | ECTS Credits  | Module<br>Language<br>English                              | Module<br>Availability<br>every 2nd<br>term - winter<br>term | <b>Duration</b><br>1 Term  |  |  |
| 1                         | Courses<br>Media Economic   | cs  |   | Contact<br>Hours<br>60h                                    | Self-Stu-<br>dies<br>120h                                    | Course Language<br>English |  |  |
| 2                         | Characteristic     Cost and reve     Digital transfor   | Module Content  Characteristics of media markets  Cost and revenue structures on media markets  Digital transformation of media markets  Political economy of media markets   |   |  |  |                            |  |  |
| 3                         | Students analyse curre assess and di  | Learning Objectives Students analyse current questions and challenges assess and discuss findings and research results of specialised theories / methods critically evaluate current social developments and develop alternative solutions.             |   |  |  |                            |  |  |
| 4                         | Teaching and L<br>lecture<br>practice   |   |   |  |  |                            |  |  |
| 5                         | Module Entry R  | Module Entry Requirements None  |   |  |  |                            |  |  |
| 6                         | Mode of End-O<br>Written test: WT   |   | mination  |  |  |                            |  |  |
| 7                         | Prerequisites for Passing the mod   | _   | of Credit Points  |  |  |                            |  |  |
| 8                         | Supple Master of Arts P Supple Master of Science | ce Business A<br>mentary Secti-<br>colitikwissensc<br>mentary Secti-<br>ce Business A<br>mentary Secti-<br>ce Business A<br>mentary Secti-<br>ce Economics<br>lization Section<br>mentary Secti-<br>ce International<br>mentary Secti-<br>ce Business A | dministration - Su<br>on Supply Chain I<br>haft:<br>on Political Science<br>dministration - Fir<br>on Finance<br>Systems:<br>on Information Sy<br>dministration - Co<br>on Corporate Dev<br>:<br>in Economics<br>on<br>al Management:<br>on International M<br>dministration - Ma | Management ee ance: stems rporate Develoelopment anagement |  |                            |  |  |
|                           | Master of Science   |   | _   | earch  |  |                            |  |  |

|    | Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs: Supplementary Section Business Education |
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| 9  | Module Manager UnivProf. Dr. Johannes Münster   |
| 10 | Miscellaneous   |

| Nodule Code<br>314MSEMD |  |  |  |   |  |                           |
|-------------------------|--|--|--|---|--|---------------------------|
|                         |  | <b>Workload</b><br>180h  | ECTS Credits   | Module<br>Language<br>English                                 | Module<br>Availability<br>every 2nd<br>term - winter<br>term | <b>Duration</b><br>1 Term |
| 1                       | Courses a) Statistical Inference b) Topics in Econometrics and Statistics I  Contact Hours a) 45h b) 45h b) 45h  Course Langua a) English b) English   |  |  |   |  |                           |
| 2                       | Module Content  • Foundations of probability theory  • Theory of point estimation and estimation techniques (e.g. maximum likelihood)  • Theory of hypothesis testing and selected tests  • Interval estimation  |  |  |   |  |                           |
| 3                       | Learning Objectives Students understand advanced, specialised theories / methods.  |  |  |   |  |                           |
| 4                       | Teaching and Learning Methods lecture practice   |  |  |   |  |                           |
| 5                       | Module Entry Requirements Recommendation: solid basic knowledge of probability theory  |  |  |   |  |                           |
| 6                       | Mode of End-Of-Module Examination Written test: WT (90)  |  |  |   |  |                           |
| 7                       | Prerequisites for Awarding of Credit Points  Passing the written examination of one course. A course is to be attended; the written examination relates to the content of one course.  |  |  |   |  |                           |
| 8                       | Core ar Master of Science Special Supplet Master of Arts P Supplet Master of Science Core ar Supplet Master of Science Supplet | ce Business Act Advanced Street Economics: ization Section mentary Section olitikwissenschapen Section Business Act Advanced Street Business Act Bus | dministration - Su<br>Section Supply Ch<br>a Economics<br>on<br>naft:<br>on Political Science<br>dministration - Fin<br>Section Finance<br>on Finance<br>Systems:<br>on Information Systeministration - Ma | ee ance: stems rketing: rporate Develoelopment counting and T | pment:   |                           |

|    | Master of Science Economic Research: Supplementary Section Economic Research Master of Science Business Administration - Corporate Development: Core and Advanced Section Corporate Development Master of Science Business Administration - Accounting and Taxation: Core and Advanced Section Accounting and Taxation |
|----|--|
| 9  | Module Manager UnivProf. Dr. Dominik Wied  |
| 10 | Miscellaneous  |

|                           |   |   | T                | T  | 1  | ı  |
|---------------------------|---|---|------------------|--|--|--|
| Module Code<br>1314MSEMD3 |   | <b>Workload</b><br>180h   | ECTS Credits 6   | Module<br>Language<br>English                  | Module<br>Availability<br>every 2nd<br>term - sum-<br>mer term | <b>Duration</b><br>1 Term                        |
| 1                         | Courses a) Time Series E b) Stochastic Mo c) Topics in Eco  | odels and Proc  |                  | Contact<br>Hours<br>a) 45h<br>b) 45h<br>c) 45h | Self-Stud-<br>ies<br>a) 135h<br>b) 135h<br>c) 135h             | Course Language a) English b) English c) English |
| 2                         | Module Content a)Time Series Econometrics:  • ARMA Models • State-Space Models • Models for Non-Stationary Time Series • Multivariate Time Series Models • Non-Stationarity in Multivariate Time Series  b) Stochastic Models and Processes: • Deepening topics in statistical inference • bootstrap • nonparametric density estimation • nonparametric tests (e.g. for independence) • Brownian motions • Poisson processes • Markov processes |   |                  |  |  |  |
| 3                         | Course c) Topics in Econometrics and Statistics III will be offered if available.  Learning Objectives Students understand advanced, specialized theories / methods analyse current questions and challenges collect and analyse data material for selected scientific questions using quantitative / qualitative methods.  |   |                  |  |  |  |
| 4                         | Teaching and L<br>lecture<br>practice   |   |                  |  |  |  |
| 5                         | -   | Module Entry Requirements Recommendation: Solid basic knowledge of probability theory |                  |  |  |  |
| 6                         |   | Mode of End-Of-Module Examination Written test: WT (90)                               |                  |  |  |  |
| 7                         | Prerequisites for Passing the write relates to the co   | ten examinatio  | n of one course. | A course is to b                               | pe attended; the   | e written examination                            |
| 8                         | Other Programmes that Use the Module  Master of Science Business Administration - Supply Chain Management:  Core and Advanced Section Supply Chain Management   |   |                  |  |  |  |

|    | Master of Science Economics:   |
|----|--|
|    | Specialization Section Economics                                     |
|    | Supplementary Section  |
|    | Master of Arts Politikwissenschaft:                                  |
|    | Supplementary Section Political Science                              |
|    | Master of Science Business Administration - Finance:                 |
|    | Core and Advanced Section Finance                                    |
|    | Supplementary Section Finance  |
|    | Master of Science Information Systems:                               |
|    | Supplementary Section Information Systems                            |
|    | Master of Science Business Administration - Marketing:               |
|    | Supplementary Section Marketing                                      |
|    | Master of Science Business Administration - Corporate Development:   |
|    | Supplementary Section Corporate Development                          |
|    | Master of Science Business Administration - Accounting and Taxation: |
|    | Supplementary Section Accounting and Taxation                        |
|    | Master of Science Business Administration - Marketing:               |
|    | Core and Advanced Section Marketing                                  |
|    | Master of Science Economic Research:                                 |
|    | Specialization Section Economic Research                             |
|    | Supplementary Section Economic Research                              |
|    | Master of Science Business Administration - Corporate Development:   |
|    | Core and Advanced Section Corporate Development                      |
|    | Master of Science Business Administration - Accounting and Taxation: |
|    | Core and Advanced Section Accounting and Taxation                    |
| 9  | Module Manager   |
|    | UnivProf. Dr. Dominik Wied   |
| 10 | Miscellaneous  |

|                          |  |                         |              |                                      |  | ,   |
|--------------------------|--|-------------------------|--------------|--------------------------------------|--|---|
| SpM Emp                  | irical Method  | ds and Dat              | a Analysis I | V                                    |  |   |
| Module Code<br>1314MSEMD |  | <b>Workload</b><br>180h | ECTS Credits | Module<br>Language<br>English        | Module<br>Availability<br>every 2nd<br>term - winter<br>term | <b>Duration</b><br>1 Term                   |
| 1                        | Courses a) Statistical Ana b) Topics in Eco  |                         |              | Contact<br>Hours<br>a) 45h<br>b) 45h | Self-Studies<br>a) 135h<br>b) 135h                           | Course Language<br>a) English<br>b) English |
| 2                        | Module Content  Properties of financial time series  Time series models  Efficiency of financial markets  Empirical analysis of the capital asset pricing model  Empirical analysis of intertemporal asset pricing models  Volatility models  Market Microstructure and high-frequency data  |                         |              |                                      |  |   |
| 3                        | Learning Objectives Students understand advanced, specialized theories / methods analyse current questions and challenges collect and analyse data material for selected scientific questions using quantitative / qualitative methods justify and defend (independently developed) positions or problem solutions.  |                         |              |                                      |  | ·   |
| 4                        | Teaching and Learning Methods lecture practice   |                         |              |                                      |  |   |
| 5                        | Module Entry Requirements  Recommendation: Solid knowledge of statistical and econometric methods; CM Econometrics or CM Applied Econometrics (Business Administration) or CM Advanced Econometrics  |                         |              |                                      |  |   |
| 6                        | Mode of End-Of-Module Examination Written test: WT (90)  |                         |              |                                      |  |   |
| 7                        | Prerequisites for Awarding of Credit Points  Passing the written examination of one course. A course is to be attended; the written examination relates to the content of one course.  |                         |              |                                      |  |   |
| 8                        | Other Programmes that Use the Module  Master of Science Economics:     Specialization Section Economics     Supplementary Section  Master of Arts Politikwissenschaft:     Supplementary Section Political Science  Master of Science Business Administration - Finance:     Supplementary Section Finance  Master of Science Information Systems:     Supplementary Section Information Systems  Master of Science Business Administration - Marketing:     Supplementary Section Marketing  Master of Science Business Administration - Corporate Development: |                         |              |                                      |  |   |

|    | Supplementary Section Corporate Development  Master of Science Business Administration - Accounting and Taxation: Supplementary Section Accounting and Taxation  Master of Science Economic Research: Supplementary Section Economic Research |
|----|---|
| 9  | Module Manager UnivProf. Dr. Roman Liesenfeld   |
| 10 | Miscellaneous   |

| Module Code<br>1314MSEMD5 |   | <b>Workload</b><br>180h  | ECTS Credits  | <b>Module Language</b> English  | Module<br>Availability<br>every 2nd<br>term - sum-<br>mer term             | <b>Duration</b><br>1 Term                                   |
|---------------------------|---|--|---|---|--|---|
| 1                         | Courses  a) Multivariate S  b) Panel Data A  c) Bayesian Eco  d) Topics in Eco  | nalysis<br>nometrics   | Statistics V  | Contact<br>Hours<br>a) 45h<br>b) 45h<br>c) 45h<br>d) 45h                      | Self-Stud-<br>ies<br>a) 135h<br>b) 135h<br>c) 135h<br>d) 135h              | Course Language a) English b) English c) English d) English |
| 2                         | Importance Sa     Gaussian Line     Gaussian Line     Linear Regres     Time Series M     Models for dis     Students will p data  d) Topics in Ecc     Recent statisti | Statistics:  Iriance  ponent Analysis  Isis  Isi | Econometrics merical Integratio arkov-Chain-Mon Model with Conju Model with Non- h General Error Cont variables e of the methods I Statistics 5: metric methods | te-Carlo<br>ugate Priors<br>Conjugate Prio<br>Covariance Mat<br>using econome | rix<br>etric software to   | analyse economic  |
| 3                         | analyse curre<br>analyse data<br>justify and det<br>discuss scien   | dvanced, speci<br>nt questions ar<br>material for sel<br>fend (independ<br>tific topics in a   | lently developed)   | Statistics and E<br>uestions using<br>positions or pr<br>ner and appro        | conometrics.<br>statistical and e<br>oblem solutions<br>oriate to the situ | econometric methods<br>s.<br>uation with specialists        |

| 4  | Teaching and Learning Methods lecture practice   |
|----|--|
| 5  | Module Entry Requirements Recommendation: CM Econometrics or CM Applied Econometrics (Business Administration) or CM Advanced Econometrics   |
| 6  | Mode of End-Of-Module Examination Oral examination: OE   |
| 7  | Prerequisites for Awarding of Credit Points  Passing the oral examination of one course. A course is to be attended; the oral examination relates to the content of one course.  |
| 8  | Other Programmes that Use the Module  Master of Science Economics:     Specialization Section Economics     Supplementary Section  Master of Arts Politikwissenschaft:     Supplementary Section Political Science  Master of Science Business Administration - Finance:     Supplementary Section Finance  Master of Science Information Systems:     Supplementary Section Information Systems  Master of Science Business Administration - Marketing:     Supplementary Section Marketing  Master of Science Business Administration - Corporate Development:     Supplementary Section Corporate Development  Master of Science Business Administration - Accounting and Taxation:     Supplementary Section Accounting and Taxation  Master of Science Economic Research:     Supplementary Section Economic Research |
| 9  | Module Manager Dr. Bastian Gribisch  |
| 10 | Miscellaneous  |

| Speciali              | sation Module  | e Seminar  | Statistics an | d Econom                                    | etrics   |                                       |  |
|-----------------------|--|--|---------------|---|--|---------------------------------------|--|
| Module Co<br>1314SMSS |  | Workload<br>180h   | ECTS Credits  | Module<br>Language<br>German and<br>English | Module<br>Availability<br>every 2nd<br>term - sum-<br>mer term | Duration<br>1 Term                    |  |
| 1                     | Courses<br>Seminar in Stati  | stics and Ecor   | nometrics     | Contact<br>Hours<br>30h                     | Self-Stu-<br>dies<br>150h                                      | Course Language<br>German and English |  |
| 2                     | The seminar co Time series an Microeconome Macreconome Panel econome Financial marl Bayesian econ Non-parametr Analysis of sto   | Module Content The seminar covers topics from areas such as:  • Time series analysis  • Microeconometrics  • Macreconometrics  • Panel econometrics  • Financial market econometrics and statistics  • Bayesian econometrics and statistics  • Non-parametric methods  • Analysis of stochastic processes  • Statistical inference |               |   |  |                                       |  |
| 3                     | Students analyse speci critically asse apply contem data.  | analyse specialist literature on the subject critically assess contemporary statistical and econometric methods apply contemporary statistical and econometric methods independently in practice to analyse rea  |               |   |  |                                       |  |
| 4                     | Teaching and L   | earning Meth   | iods          |   |  |                                       |  |
| 5                     | Recommended:   | Module Entry Requirements Recommended: Core module Econometrics I and/or specialisation module Advanced Statistics (Statistics Processes) or Advanced Statistics (Statistical Inference)   |               |   |  |                                       |  |
| 6                     | Mode of End-O Combined exam  |  |               |   |  |                                       |  |
| 7                     | -  | Prerequisites for Awarding of Credit Points Passing the combined examination.  |               |   |  |                                       |  |
| 8                     | Other Programmes that Use the Module  Master of Science Economics:     Specialization Section Economics     Supplementary Section  Master of Arts Politikwissenschaft:     Supplementary Section Political Science  Master of Science Business Administration - Finance:     Supplementary Section Finance  Master of Science Information Systems:     Supplementary Section Information Systems  Master of Science Business Administration - Marketing:     Supplementary Section Marketing  Master of Science Business Administration - Corporate Development: |  |               |   |  |                                       |  |

|    | Supplementary Section Corporate Development  Master of Science Business Administration - Accounting and Taxation:  Supplementary Section Accounting and Taxation |
|----|--|
| 9  | Module Manager UnivProf. Dr. Jörg Breitung UnivProf. Dr. Roman Liesenfeld UnivProf. Dr. Dominik Wied   |
| 10 | Miscellaneous  |

| CM Econometrics           |  |  |                  |                               |  |                           |  |
|---------------------------|--|--|------------------|-------------------------------|--|---------------------------|--|
| Module Code<br>1314MBECO1 |  | <b>Workload</b><br>180h  | ECTS Credits     | Module<br>Language<br>English | Module<br>Availability<br>every 2nd<br>term - winter<br>term | <b>Duration</b><br>1 Term |  |
| 1                         | Courses<br>Econometrics  |  |                  |                               |  |                           |  |
| 2                         | <ul> <li>Linear regress</li> <li>Least squares</li> <li>Endogeneity a</li> <li>Maximum like</li> <li>Models for lim</li> </ul> | Module Content  Linear regression model  Least squares (LS) method and generalized least squares (GLS) method  Endogeneity and instrumental variable (IV) method  Maximum likelihood (ML) method  Models for limited dependent variables  Time series models |                  |                               |  |                           |  |
| 3                         | Students understand ac analyse curre collect and ar methods.   | understand advanced, specialized theories / methods analyse current questions and challenges collect and analyse data material for selected scientific questions using quantitative / qualitative  |                  |                               |  |                           |  |
| 4                         | Teaching and L<br>lecture<br>practice  |  |                  |                               |  |                           |  |
| 5                         | Module Entry R   | -  | ;                |                               |  |                           |  |
| 6                         |  | Mode of End-Of-Module Examination Written test: WT (90)  |                  |                               |  |                           |  |
| 7                         | Prerequisites for Passing the mod  |  | of Credit Points |                               |  |                           |  |
| 8                         | Other Programmes that Use the Module  Master of Science Business Administration - Supply Chain Management:                     |  |                  |                               |  |                           |  |
|                           | Supple   | ementary Section Information Systems ce Business Administration - Marketing:   |                  |                               |  |                           |  |

|    | Supplementary Section Marketing  Master of Science Business Administration - Corporate Development:     Supplementary Section Corporate Development  Master of Science Business Administration - Accounting and Taxation:     Supplementary Section Accounting and Taxation  Master of Science Business Administration - Marketing:     Core and Advanced Section Marketing  Master of Arts Regionalstudien Ost- und Mitteleuropa - Volkswirtschaftslehre:     Economics Master Regional Studies Eastern Europe  Master of Science Business Administration - Corporate Development:     Core and Advanced Section Corporate Development  Master of Science Business Administration - Accounting and Taxation:     Core and Advanced Section Accounting and Taxation |
|----|---|
|    | Master of Science Business Administration - Accounting and Taxation: Core and Advanced Section Accounting and Taxation Master of Arts Regionalstudien Lateinamerika - Volkswirtschaftslehre: Economics Master Regional Studies Latin America  |
| 9  | Module Manager UnivProf. Dr. Roman Liesenfeld   |
| 10 | Miscellaneous   |

| AM Emp                    | irical Method   | s  |   |  |  |                    |  |
|---------------------------|---|--|---|--|--|--------------------|--|
| Module Code<br>1314MAEMT1 |   | Workload<br>180h   | ECTS Credits  | Module<br>Language<br>English          | Module<br>Availability<br>every 2nd<br>term - sum-<br>mer term | Duration<br>1 Term |  |
| 1                         | Courses<br>Empirical Metho  | Courses Contact Hours Course Language English  45h 135h  Course Language English   |   |  |  |                    |  |
| 2                         | <ul><li>Principles of n</li><li>Parametric an</li><li>Causal Inferen</li><li>Specialized en</li><li>Machine learn</li></ul> | Module Content  Principles of modern data analysis  Parametric and nonparametric statistical inference  Causal Inference  Specialized econometric tools  Machine learning and big-data methods  Classification methods   |   |  |  |                    |  |
| 3                         | Students understand a analyse curre collect and ar methods discuss scien cialists.  | understand advanced, specialized theories / methods analyse current questions and challenges collect and analyse data material for selected scientific questions using quantitative / qualitative methods discuss scientific topics in a professional manner and appropriate to the situation with (non-) spe-   |   |  |  |                    |  |
| 4                         | Teaching and I  | _earning MetI  | nods  |  |  |                    |  |
| 5                         | Module Entry F  | -  |   |  |  |                    |  |
| 6                         | Mode of End-O<br>Written test: WT   |  | mination  |  |  |                    |  |
| 7                         |   | Prerequisites for Awarding of Credit Points Passing the module examination   |   |  |  |                    |  |
| 8                         | Core al<br>Master of Scient<br>Specia<br>Supple<br>Master of Arts F<br>Econor<br>Master of Scien                            | ce Business And Advanced Sice Economics lization Section Regionalstudie mics Master Rice Sociology and Advance | dministration - Su<br>Section Supply Ch<br>:<br>n Economics<br>on<br>n China - Volkswii<br>egional Studies C<br>and Social Resear | nain Managem<br>tschaftslehre:<br>hina | ent  |                    |  |

|    | Supplementary Section Information Systems  Master of Science Business Administration - Marketing:     Supplementary Section Marketing  Master of Science Business Administration - Corporate Development:     Supplementary Section Corporate Development  Master of Science Business Administration - Accounting and Taxation:     Supplementary Section Accounting and Taxation  Master of Science Business Administration - Marketing:     Core and Advanced Section Marketing  Master of Arts Regionalstudien Ost- und Mitteleuropa - Volkswirtschaftslehre:     Economics Master Regional Studies Eastern Europe  Master of Science Business Administration - Corporate Development:     Core and Advanced Section Corporate Development  Master of Science Business Administration - Accounting and Taxation:     Core and Advanced Section Accounting and Taxation  Master of Arts Regionalstudien Lateinamerika - Volkswirtschaftslehre: |
|----|--|
|    | Master of Arts Regionalstudien Lateinamerika - Volkswirtschaftslehre:  Economics Master Regional Studies Latin America   |
| 9  | Module Manager UnivProf. Dr. Jörg Breitung   |
| 10 | Miscellaneous  |

| Spivi Su                  | pply Chain Str  | ategy   |              |                               |  |                           |  |
|---------------------------|---|---|--------------|-------------------------------|--|---------------------------|--|
| Module Code<br>1271MSSSY1 |   | <b>Workload</b><br>180h   | ECTS Credits | Module<br>Language<br>English | Module<br>Availability<br>every 2nd<br>term - winter<br>term | <b>Duration</b><br>1 Term |  |
| 1                         | Courses<br>Supply Chain St  | Courses<br>Supply Chain StrategyContact<br>Hours<br>45hSelf-Stu-<br>dies<br>135hCourse Language<br>English  |              |                               |  |                           |  |
| 2                         | Strategy Form     Product devel     Process Design  | Module Content  • Strategy Formation  • Product development  • Process Design  • Process Simulation  • Applications   |              |                               |  |                           |  |
| 3                         | Students understand ac egies in the cont analyse curre assess and di communicate justify and det act responsible  | Learning Objectives Students understand advanced, specialized theories / methods for formulation and implementation of strategies in the context of supply chain and operations management analyse current questions and challenges in supply chains assess and discuss findings and research results of specialized theories / methods communicate continuously and purposefully in diverse teams justify and defend (independently developed) positions or problem solutions act responsibly considering ecological, social and ethical criteria critically evaluate current social developments and develop alternative solutions. |              |                               |  |                           |  |
| 4                         | Teaching and L<br>lecture<br>practice   |   |              |                               |  |                           |  |
| 5                         | Module Entry R  | Module Entry Requirements none  |              |                               |  |                           |  |
| 6                         |   | Mode of End-Of-Module Examination Written test: PO  |              |                               |  |                           |  |
| 7                         | -   | Prerequisites for Awarding of Credit Points Passing the module examination  |              |                               |  |                           |  |
| 8                         | Other Programmes that Use the Module  Master of Science Business Administration - Supply Chain Management:     Specialization Section Supply Chain Management  Master of Science Information Systems:     Supplementary Section Information Systems  Master of Science Business Administration - Marketing:     Supplementary Section Marketing  Master of Science Business Administration - Corporate Development:     Supplementary Section Corporate Development  Master of Science Business Administration - Accounting and Taxation:     Supplementary Section Accounting and Taxation  Master of Arts Regionalstudien China - Betriebswirtschaftslehre:     Business Administration Master Regional Studies China |   |              |                               |  |                           |  |

| 9  | Module Manager UnivProf. Dr. Fabian Sting Area Supply Chain Management |
|----|--|
| 10 | Miscellaneous  |

| SpM Su                    | pply Chain Inr  | novation   |   |   |  |                            |
|---------------------------|---|--|---|---|--|----------------------------|
| Module Code<br>1271MSSIN1 |   | <b>Workload</b><br>180h  | ECTS Credits  | Module<br>Language<br>English                           | Module<br>Availability<br>every 2nd<br>term - winter<br>term | <b>Duration</b><br>1 Term  |
| 1                         | Courses Supply Chain Innovation  Contact Hours 45h  Course Langua English   |  |   |   |  | Course Language<br>English |
| 2                         | <ul> <li>Innovation Str</li> <li>Innovation Ma</li> <li>Supply Chain</li> <li>Collaborative</li> <li>Applications o</li> </ul>  | <ul> <li>Module Content</li> <li>Innovation Strategy in Supply Chains</li> <li>Innovation Management in Supply Chains</li> <li>Supply Chain Innovation Processes: Idea Generation, Idea Selection, Idea Implementation</li> <li>Collaborative Supply Chain Innovation</li> <li>Applications of Supply Chain Innovation Strategy</li> <li>Current Technological Changes and Effective Supply Chain Strategies</li> </ul>  |   |   |  |                            |
| 3                         | Students understand ac analyse curre assess and di communicate justify and de act responsib   | Learning Objectives Students understand advanced, specialized theories / methods supply chain innovation management analyse current questions and challenges supply chain innovation management assess and discuss findings and research results of specialized theories / methods communicate continuously and purposefully in diverse teams justify and defend (independently developed) positions or problem solutions act responsibly considering ecological, social and ethical criteria critically evaluate current social developments and develop alternative solutions.   |   |   |  |                            |
| 4                         | Teaching and L<br>lecture<br>practice   |  |   |   |  |                            |
| 5                         | Module Entry R  | Module Entry Requirements none   |   |   |  |                            |
| 6                         |   | Mode of End-Of-Module Examination Written test: PO   |   |   |  |                            |
| 7                         |   | Prerequisites for Awarding of Credit Points Passing the module examination   |   |   |  |                            |
| 8                         | Special Master of Science Supple Master of Science Supple Master of Educate Supple Master of Science Supple Master of Science Supple Master of Science Supple Master of Science | ce Business A lization Section Ce Economics mentary Section Wirtschaft mentary Section Wirtschaft mentary Section Economics August 1988 Au | dministration - Sun<br>in Supply Chain Marcon<br>on<br>al Management:<br>on International M<br>tspädagogik/Lehra<br>on Business Educ<br>Systems:<br>on Information Systemistration - Ma | anagement anagement amt an Berufsk ation stems rketing: | ollegs:  |                            |

|    | Master of Science Business Administration - Accounting and Taxation: Supplementary Section Accounting and Taxation Master of Arts Regionalstudien China - Betriebswirtschaftslehre: Business Administration Master Regional Studies China |
|----|---|
| 9  | Module Manager UnivProf. Dr. Fabian Sting Area Supply Chain Management  |
| 10 | Miscellaneous   |

| n Behavi  | I Selected Issue   | ural Supply   | Chain Ma  | nagement   |                           |
|---|--|---|---|--|---------------------------|
| <b>Workload</b><br>180h   | ule Code<br>MSIBS1   | ECTS Credits 6  | Module<br>Language<br>English                           | Module<br>Availability<br>every 2nd<br>term - sum-<br>mer term | <b>Duration</b><br>1 Term |
| CoursesContact<br>HoursSelf-Stu-<br>dies<br>45hCourse Language<br>English   |  |   |   |  |                           |
| Module Content  • Behavioural Decision Making  • Behavioural Management  • Decision Heuristics  |  |   |   |  |                           |
| Learning Objectives Students understand advanced, specialized theories / methods in Behavioural Operations Management assess and discuss findings and research results of specialized theories / methods collect and analyse data material for selected scientific questions using quantitative / qualitative methods prepare independently a research design for a question communicate continuously and purposefully in diverse teams justify and defend (independently developed) positions or problem solutions present scientific results in a way that is appropriate for the target audience use techniques of scientific work and good scientific practice. |  |   |   |  |                           |
| Teaching and Learning Methods lecture practice  |  |   |   |  |                           |
| -   | 5 Module Entr<br>Recommend   | odules Supply Cl  | nain Analytics  | I and II should I  | have been completed.      |
| Mode of End-Of-Module Examination Written test: PO  |  |   |   |  |                           |
| Prerequisites for Awarding of Credit Points Passing the module examination  |  |   |   |  |                           |
| e Business A<br>zation Section<br>e Economics<br>nentary Section<br>e Internation<br>nentary Section Wirtscha<br>nentary Section<br>e Business A<br>nentary Section<br>e Business A   | Spe Master of Sc Sup Master of Sc Sup Master of Ed Sup Master of Sc Sup Master of Sc Sup Master of Sc Sup Master of Sc | ministration - Sup<br>Supply Chain Man<br>Management:<br>In International Man<br>Spädagogik/Lehran<br>Business Educa<br>Systems:<br>In Information Systemistration - Man<br>Marketing<br>Ministration - Coi | anagement amagement amt an Berufsk ation stems rketing: | collegs:   |                           |
| Supplementary Section Information Systems  Master of Science Business Administration - Marketing:     Supplementary Section Marketing  Master of Science Business Administration - Corporate Development:     Supplementary Section Corporate Development  Master of Science Business Administration - Accounting and Taxation:   |  |   |   |  |                           |

|    | Supplementary Section Accounting and Taxation  Master of Arts Regionalstudien China - Betriebswirtschaftslehre:  Business Administration Master Regional Studies China |
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| 9  | Module Manager Prof. Dr. Nicolas Fugger Area Supply Chain Management   |
| 10 | Miscellaneous  |

| SpM Su                    | pply Chain Op   | erations   |  |  |  |                           |  |
|---------------------------|---|--|--|--|--|---------------------------|--|
| Module Code<br>1271MSSOP1 |   | Workload<br>180h   | ECTS Credits   | Module<br>Language<br>English  | Module<br>Availability<br>every 2nd<br>term - sum-<br>mer term | <b>Duration</b><br>1 Term |  |
| 1                         | Courses<br>Supply Chain O   | Courses<br>Supply Chain OperationsContact<br>Hours<br>45hSelf-Stu-<br>dies<br>135hCourse Langua<br>English   |  |  |  |                           |  |
| 2                         | Inventory Mar     Contract Design     Capacity and  | Module Content Inventory Management Contract Design Capacity and Revenue Management Supply Chain Management  |  |  |  |                           |  |
| 3                         | Students understand a analyse curre communicate discuss scien cialists present scien act responsib  | understand advanced, specialized theories / methods to control supply chains analyse current questions and challenges in supply chain management communicate continuously and purposefully in diverse teams discuss scientific topics in a professional manner and appropriate to the situation with (non-) spe- |  |  |  |                           |  |
| 4                         | Teaching and L<br>lecture<br>practice   |  |  |  |  |                           |  |
| 5                         | 1   | Module Entry Requirements Recommendation: The CM Supply Chain Analytics I should have been completed.  |  |  |  |                           |  |
| 6                         |   | Mode of End-Of-Module Examination Written test: PO   |  |  |  |                           |  |
| 7                         |   | Prerequisites for Awarding of Credit Points Passing the module examination   |  |  |  |                           |  |
| 8                         | Special Master of Science Supple Master of Science Supple Master of Educate Supple Master of Science Supple | ce Business A<br>lization Section<br>ce Economics:<br>mentary Section<br>ce International<br>mentary Section<br>mentary Section<br>ce Information<br>mentary Section<br>ce Business A<br>mentary Section<br>mentary Section  | dministration - Sun Supply Chain Mon In Management: on International Maspädagogik/Lehron Business Educing Systems: on Information Sydministration - Ma | anagement anagement amt an Berufsk ation stems rketing: rporate Develo | collegs:<br>opment:  |                           |  |

|    | Supplementary Section Accounting and Taxation  Master of Arts Regionalstudien China - Betriebswirtschaftslehre:  Business Administration Master Regional Studies China |
|----|--|
| 9  | Module Manager Area Supply Chain Management UnivProf. Dr. Ulrich W. Thonemann  |
| 10 | Miscellaneous  |

| peciali                   | isation Module   | e Operativo  | e Supply Cha  | ain Plannin   | ıg   |                           |  |  |
|---------------------------|--|--|---|---|--|---------------------------|--|--|
| Module Code<br>1271OSCP01 |  | Workload 180h ECTS Credits 6   |   | Module<br>Language<br>German and<br>English                                     | Module<br>Availability<br>every 2nd<br>term - winter<br>term | <b>Duration</b><br>1 Term |  |  |
| 1                         | Courses<br>Production Mana   | agement  |   | Contact<br>Hours<br>45h   | Self-Stu-<br>dies<br>135h                                    | Course Language<br>German |  |  |
| 2                         | Supply Chain     Demand Plani     Program Plani     Lotsizing and  | Module Content  Supply Chain Design  Demand Planning  Program Planning  Lotsizing and Scheduling  Inventory Management   |   |   |  |                           |  |  |
| 3                         | Students acquire knowl agement and me learn about th are able to de problems, based work coopera discuss and p recognize the | acquire knowledge about the problems that occur in production planning and supply chain management and methods for solving them.  learn about the relationships between the relevant decision variables and  are able to develop, implement and evaluate proposals for practical solutions to specific decision problems, based on solid theoretical foundations.  work cooperatively in teams,  discuss and present Supply Chain Management topics,  recognize the consequences of decision-making,  learn to act in a responsible as well as sustainable way and   |   |   |  |                           |  |  |
| 4                         | Teaching and L<br>lecture<br>practice  | earning Meth   | ods   |   |  |                           |  |  |
| 5                         | Module Entry R   | Requirements   |   |   |  |                           |  |  |
| 6                         | Mode of End-O<br>Written test: WT  |  | mination  |   |  |                           |  |  |
| 7                         | Prerequisites for Passing the write  | _  | of Credit Points  |   |  |                           |  |  |
| 8                         | Special Master of Science MA Bus Master of Science Supple Master of Science MA Bus Master of Science Core an Master of Educa | ce Business Adlization Section | dministration - Sun Supply Chain Missing Sciences on mathematik: onomics Sciences | anagement  Mathematics  Mathematics  Mathematics  nal Managemer  amt an Berufsk | nt   |                           |  |  |

|    | Master of Science Information Systems:     Supplementary Section Information Systems  Master of Science Business Administration - Marketing:     Supplementary Section Marketing  Master of Science Business Administration - Corporate Development:     Supplementary Section Corporate Development  Master of Science Business Administration - Accounting and Taxation:     Supplementary Section Accounting and Taxation  Master of Science Geographie:     Business Administration Master Geography  Master of Arts Regionalstudien China - Betriebswirtschaftslehre:     Business Administration Master Regional Studies China |
|----|--|
| 9  | Module Manager AD Dr. Johannes Antweiler UnivProf. Dr. Horst Tempelmeier   |
| 10 | Miscellaneous Guided and structured self-study in working groups with active presentation of results. Registration in ILIAS is required. Mandatory reading will be announced in ILIAS.   |

| Speciali                         | sation Module  | Project I  | Management         |   |  |                            |  |
|----------------------------------|--|--|--------------------|---|--|----------------------------|--|
| <b>Module Code</b><br>1271SMPrjM |  | <b>Workload</b><br>180h  | ECTS Credits       | <b>Module</b><br><b>Language</b><br>English | Module<br>Availability<br>every 2nd<br>term - sum-<br>mer term | <b>Duration</b><br>1 Term  |  |
| 1                                | Courses<br>Project Manage  | ment   |                    | Contact<br>Hours<br>60h                     | Self-Stu-<br>dies<br>120h                                      | Course Language<br>English |  |
| 2                                | Module Content Project Definit Project Risk A Resource Allo Project Sched Project Monito Project Portfol Managing Hur  |  |                    |   |  |                            |  |
| 3                                | Students understand th understand, re human behavior engage in gro approaches are reflect on thei case studies. Cr apply modern ject managemer apply real opt  | Learning Objectives Students understand the strategic relevance of project management across industries understand, recognise, and discuss the importance of project complexity, project uncertainty an human behavior in managing projects engage in group and class discourses to evaluate how different project planning and execution approaches are contingent on project environments reflect on their own developed project management skills by applying these in project groups ar case studies. Critically reflect on own and peer developed project management solutions apply modern methods of project planning and project execution such as agile or help-based pr ject management systems apply real options thinking to determine the value of uncertain projects recommend project approaches to cope with uncertainty, complexity, and human behavior while |                    |   |  |                            |  |
| 4                                | Teaching and L<br>lecture<br>practice  | earning Meth   | ods                |   |  |                            |  |
| 5                                | Module Entry R<br>Recommended:   | •  | CTS credits from t | he group Found                              | dation Knowled   | ge                         |  |
| 6                                | Mode of End-O<br>Written test: PO  |  | mination           |   |  |                            |  |
| 7                                | Prerequisites for Passing the write  | •  | of Credit Points   |   |  |                            |  |
| 8                                | Other Programmes that Use the Module  Master of Science Business Administration - Supply Chain Management:     Specialization Section Supply Chain Management  Master of Science Mathematik:     MA Business and Economics Sciences Mathematics  Master of Science Economics:     Supplementary Section  Master of Science Wirtschaftsmathematik:     MA Business and Economics Sciences Mathematics |  |                    |   |  |                            |  |

|    | Master of Science International Management:  Core and Advanced Section International Management |
|----|---|
|    | •   |
|    | Supplementary Section International Management  |
|    | Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs:                              |
|    | Supplementary Section Business Education  |
|    | Master of Science Information Systems:  |
|    | Supplementary Section Information Systems   |
|    | Master of Science Business Administration - Marketing:  |
|    | Supplementary Section Marketing   |
|    | Master of Science Business Administration - Corporate Development:                              |
|    | Supplementary Section Corporate Development   |
|    | Master of Science Business Administration - Accounting and Taxation:                            |
|    | Supplementary Section Accounting and Taxation   |
|    | Master of Science Geographie:   |
|    | Business Administration Master Geography  |
|    | Master of Arts Regionalstudien China - Betriebswirtschaftslehre:                                |
|    | Business Administration Master Regional Studies China   |
|    | Dusiness Administration Master Neglonal Studies China   |
| 9  | Module Manager  |
|    | UnivProf. Dr. Fabian Sting  |
|    |   |
| 10 | Miscellaneous   |

| SpM Sel                   | ected Issues   | in Supply   | Chain Manao       | gement                                      |   |  |  |  |
|---------------------------|--|---|-------------------|---|---|--|--|--|
| Module Code<br>1271MSISP1 |  | Workload<br>180h  | ECTS Credits      | Module<br>Language<br>German and<br>English | Module<br>Availability<br>irregular     | <b>Duration</b><br>1 Term                  |  |  |
| 1                         | Courses a) Purchasing b) Supply Chain  |   |                   |   | Self-Stud-<br>ies<br>a) 135h<br>b) 135h | Course Language<br>a) German<br>b) English |  |  |
| 2                         | Selected Issues • Purchasing: S  | Module Content Selected Issues in Supply Chain Management: • Purchasing: Strategic Procurement Management • Supply Chain Games: Data Modelling, Databases and Simulation Tools  |                   |   |   |  |  |  |
| 3                         | Students understand ac justify and de  | understand advanced, specialized theories / methods in Supply Chain Management justify and defend (independently developed) positions or problem solutions discuss scientific topics in a professional manner and appropriate to the situation with (non-) spe- |                   |   |   |  |  |  |
| 4                         | Teaching and L<br>lecture<br>practice  |   |                   |   |   |  |  |  |
| 5                         | Module Entry R   | -   | pply Chain Analyt | ics I and II sho                            | uld have been                           | completed.                                 |  |  |
| 6                         | Mode of End-O<br>Written test: PO  |   | mination          |   |   |  |  |  |
| 7                         | Prerequisites for Passing the write relates to the co  | ten examinatio  | n of one course.  | A course is to b                            | e attended; the                         | e written examination                      |  |  |
| 8                         | Master of Science Special Master of Science Supple Master of Science Supple Master of Science Supple Master of Science | Other Programmes that Use the Module  Master of Science Business Administration - Supply Chain Management:  |                   |   |   |  |  |  |
| 9                         | Module Manage<br>Area Supply Ch  |   | ent               |   |   |  |  |  |
| 10                        | Miscellaneous  |   |                   |   |   |  |  |  |

| SuM Ecor                  | nomic Geogr  | aphy I   |   |  |  |   |  |  |
|---------------------------|--|--|---|--|--|---|--|--|
| Module Code<br>1343MEEGY1 |  | <b>Workload</b><br>180h  | ECTS Credits<br>6   | Module<br>Language<br>English  | Module<br>Availability<br>every 2nd<br>term - winter<br>term | <b>Duration</b><br>1 Term   |  |  |
| 1                         | Courses<br>Start-ups and In<br>ion   | novation in the  | European Un-  | Contact<br>Hours<br>30h  | Self-Stu-<br>dies<br>150h                                    | Course Language<br>English  |  |  |
| 2                         | Spatial patterr     Geographical torial innovation   | Module Content  • Spatial patterns of economic activities in the European Union  • Geographical and interdisciplinary approaches to entrepreneurship, innovation, creativity and tertorial innovation systems  • Empirical case studies from different EU regions  |   |  |  |   |  |  |
| 3                         | context of regior analyse curre tive industries fo write an acad justify and def   | dvanced, specinal developmer nt questions are regional develomic paper on fend (independuate spatial dispecial dispe | nt.  Ind challenges corelopment in the Elea selected topic a selected topic a sently developed) parities of the Eur | isidering the rol<br>uropean Union.<br>and achieve the<br>positions or pro | le of knowledge<br>ereby their own<br>oblem solutions        | tion research within the e intensive and creascientific contribution. |  |  |
| 4                         | Teaching and L<br>seminar  | earning Meth   | ods   |  |  |   |  |  |
| 5                         | Module Entry R   | Requirements   |   |  |  |   |  |  |
| 6                         | Mode of End-O<br>Combined exam   |  |   |  |  |   |  |  |
| 7                         | Prerequisites for Passing the mod  |  |   |  |  |   |  |  |
| 8                         | Other Programmes that Use the Module  Master of Science Economics:     Supplementary Section  Master of Science Sociology and Social Research:     Supplementary Section Sociology and Social Research  Master of Arts Politikwissenschaft:     Supplementary Section Political Science  Master of Science Information Systems:     Supplementary Section Information Systems  Master of Arts Regionalstudien Ost- und Mitteleuropa - Sozialwissenschaften:     Social Sciences Master Regional Studies Eastern Europe  Master of Arts Regionalstudien Lateinamerika - Sozialwissenschaften:     Social Sciences Master Regional Studies Latin America  Master of Arts Regionalstudien China - Sozialwissenschaften:     Social Sciences Master Regional Studies China |  |   |  |  |   |  |  |

| 9  | Module Manager UnivProf. Dr.' Martina Fuchs |
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| 10 | Miscellaneous                               |

| SuM Economic Geography II |  |  |  |   |  |                            |  |  |
|---------------------------|--|--|--|---|--|----------------------------|--|--|
| Module Code<br>1343MEEGY2 |  | <b>Workload</b><br>180h  | ECTS Credits<br>6  | Module<br>Language<br>English   | Module<br>Availability<br>every 2nd<br>term - sum-<br>mer term | Duration<br>1 Term         |  |  |
| 1                         | Courses Digitalization, Sr Regions   | mart Manufactı   | uring and 'Smart'  | Contact<br>Hours<br>60h   | Self-Stu-<br>dies<br>300h                                      | Course Language<br>English |  |  |
| 2                         | <ul> <li>Digitalization a</li> <li>Geographical</li> <li>Smart Manufa</li> <li>Smart regiona</li> <li>Regional Inno</li> <li>Digitalization o</li> </ul> | Module Content  Digitalization as opportunity and challenge for internationalization and spatial development Geographical approaches to digital change in the areas of production and consumption Smart Manufacturing Smart regional development and 'Smart City'- strategies Regional Innovation Systems Digitalization of value chains: case studies Digitalization and sustainable development: institutional arrangements and strategies of practitions  |  |   |  |                            |  |  |
| 3                         | Students understand active areas of proc analyse chara write an acad achieve thereby justify and dec critically evalu                                    | Learning Objectives Students understand advanced, specialized theories of technological change to digitalization processes in the areas of production, consumption and work analyse characteristics and current questions and challenges of digital transformation write an academic paper on a selected topic using literature from economic geography and achieve thereby their own scientific contribution justify and defend (independently developed) positions or problem solutions critically evaluate assess opportunities and challenges of digitalization for different actors (small and large firms, employees, final consumers) within different value chains.  |  |   |  |                            |  |  |
| 4                         | Teaching and L   | earning Meth   | ods  |   |  |                            |  |  |
| 5                         | Module Entry R   | Requirements   |  |   |  |                            |  |  |
| 6                         | Mode of End-O<br>Combined exam   |  |  |   |  |                            |  |  |
| 7                         | Prerequisites for Passing the mod  | _  |  |   |  |                            |  |  |
| 8                         | Master of Science Supple Master of Arts P Supple Master of Science Supple Master of Arts R Social S Master of Arts R                                     | mentary Section Sectio | on<br>nd Social Resear<br>on Sociology and<br>naft:<br>on Political Scienc | Social Researd<br>se<br>stems<br>uropa - Sozialv<br>es Eastern Eur<br>Sozialwissens | vissenschaften:<br>rope<br>chaften:                            |                            |  |  |

|    | Master of Arts Regionalstudien China - Sozialwissenschaften: Social Sciences Master Regional Studies China |
|----|--|
| 9  | Module Manager UnivProf. Dr. Martina Fuchs   |
| 10 | Miscellaneous  |

|                           |  | aphy III   |  |  |  |                            |  |  |
|---------------------------|--|--|--|--|--|----------------------------|--|--|
| Module Code<br>1343MEEGY3 |  | <b>Workload</b><br>180h  | ECTS Credits   | Module<br>Language<br>English                                      | Module<br>Availability<br>every 2nd<br>term - winter<br>term | <b>Duration</b><br>1 Term  |  |  |
| 1                         | Courses Global South an Business: Ethics ance  |  |  | Contact<br>Hours<br>30h  | Self-Stu-<br>dies<br>150h                                    | Course Language<br>English |  |  |
| 2                         | Sustainability     Theoretical ap     Modes and wa     Empirical case  | Module Content     Sustainability as interdisciplinary theoretical concept and as strategic approach of companies     Theoretical approaches to regional development in the context of international production     Modes and ways of regional economic integration in the world economy     Empirical case studies of regions of the Global South     Strategies and governance for sustainable development   |  |  |  |                            |  |  |
| 3                         | Students understand ac sponsibility and assess and di regional social ru collect, syster lated disciplines discuss the et cal resource poo | understand advanced, specialized theoretical approaches to sustainability, ethics, corporate responsibility and governance in the context of a globalized economy.  assess and discuss analyse drivers and limitations of corporate social responsibility (CSR) and regional social responsibility (RSR) in global value chains.  collect, systematize and synthesize independently literature from economic geography and related disciplines as well as secondary data.  discuss the effects of foreign direct investment in countries of the Global South with regard to local resource pools and sustainable development.  critically evaluate upgrading strategies in global value chains as drivers for growth and develop-  |  |  |  |                            |  |  |
| 4                         | Teaching and L   | earning Meth   | nods   |  |  |                            |  |  |
| 5                         | Module Entry R   | Requirements   |  |  |  |                            |  |  |
| 6                         | Mode of End-O<br>Combined exam   |  |  |  |  |                            |  |  |
| 7                         | Prerequisites for Passing the mod  |  | of Credit Points   |  |  |                            |  |  |
| 8                         | Master of Science Supple Master of Arts P Supple Master of Science Supple Master of Arts R Social S Master of Arts R                       | ce Economics mentary Sections Sociology a mentary Section of the Information of | :<br>on<br>and Social Resear<br>on Sociology and<br>haft:<br>on Political Scienc | Social Researd stems uropa - Sozialv es Eastern Eul Sozialwissenso | wissenschaften:<br>rope<br>chaften:                          |                            |  |  |

|    | Master of Arts Regionalstudien China - Sozialwissenschaften: Social Sciences Master Regional Studies China |
|----|--|
| 9  | Module Manager UnivProf. Dr. Martina Fuchs   |
| 10 | Miscellaneous  |

| SuM Eco                   | nomic Geogr  | aphy IV  |              |                              |                           |                           |  |  |
|---------------------------|--|--|--------------|------------------------------|---------------------------|---------------------------|--|--|
| Module Code<br>1343MEEGY4 |  | Workload<br>180h   | ECTS Credits | Module<br>Language<br>German | <b>Duration</b><br>1 Term |                           |  |  |
| 1                         | Courses<br>Methods in Regi   | ional Research   |              | Contact<br>Hours<br>60h      | Self-Stu-<br>dies<br>300h | Course Language<br>German |  |  |
| 2                         | Research met     Selected geog   | Module Content  Research methods in economic geography and regional studies  Selected geographical case study of a region or city, e.g. in North Rhine-Westphalia  Designing and conducting a research project in economic geography |              |                              |                           |                           |  |  |
| 3                         | Students collect and ar methods prepare indeprent issues in ed write an acad communicate   | collect and analyse data material for selected scientific questions using quantitative / qualitative   |              |                              |                           |                           |  |  |
| 4                         | Teaching and L   | Teaching and Learning Methods seminar  |              |                              |                           |                           |  |  |
| 5                         | Module Entry R   | Requirements   |              |                              |                           |                           |  |  |
| 6                         | Mode of End-O<br>Combined exam   |  |              |                              |                           |                           |  |  |
| 7                         | Prerequisites for Passing the mod  | _  |              |                              |                           |                           |  |  |
| 8                         | Other Programmes that Use the Module  Master of Science Economics:     Supplementary Section  Master of Science Sociology and Social Research:     Supplementary Section Sociology and Social Research  Master of Arts Politikwissenschaft:     Supplementary Section Political Science  Master of Science Information Systems:     Supplementary Section Information Systems  Master of Arts Regionalstudien Ost- und Mitteleuropa - Sozialwissenschaften:     Social Sciences Master Regional Studies Eastern Europe  Master of Arts Regionalstudien Lateinamerika - Sozialwissenschaften:     Social Sciences Master Regional Studies Latin America  Master of Arts Regionalstudien China - Sozialwissenschaften:     Social Sciences Master Regional Studies China |  |              |                              |                           |                           |  |  |
| 9                         | Module Manage<br>UnivProf. Dr.' N  |  |              |                              |                           |                           |  |  |

Valid for students of the ER 2015 (enrolment for winter semester 2020/21 at the latest)

10 Mi

Miscellaneous

| Students describe appr tional perspective explain internence discuss and county and social science   | etives roaches to busing   | ECTS Credits 12 iness administrati   | Module Language  Contact Hours   | Module<br>Availability<br>every term<br>Self-Stu-<br>dies   | Duration 1 Term  Course Language   |  |  |
|--|--|--|--|---|--|--|--|
| Module Content Depends on che Learning Object Students describe appritional perspective explain internience discuss and countered and social science   | etives roaches to busing   | iness administrati   | Hours  |   | Course Language  |  |  |
| Depends on che  Learning Object Students describe appritional perspective explain international discuss and county and social science  | etives roaches to busing   | iness administrati   | on, economics  |   |  |  |  |
| Students describe appr tional perspective explain internence discuss and county and social science   | roaches to busi  | iness administrati   | on, economics  |   |  |  |  |
|  | e.<br>intellectual per   | describe approaches to business administration, economics and social sciences from an international perspective explain international issues in the areas of business administration, economics and social science discuss and compare different theories and approaches in business administration, economics and social science develop new intellectual perspectives with regard to their own education.  |  |   |  |  |  |
| Teaching and Learning Methods depending on course choice   |  |  |  |   |  |  |  |
| Module Entry Requirements No recommendations   |  |  |  |   |  |  |  |
| Mode of End-Of-Module Examination TR - depending on course selection   |  |  |  |   |  |  |  |
| <u> </u>   | _  | of Credit Points   |  |   |  |  |  |
| Master of Science Supplee Master of Science Supplee Master of Science Supplee Master of Arts P Supplee Master of Science Supplee Master of Educate Supplee Master of Science Supplee | ce Business Admentary Section ce Economics: mentary Section ce Sociology a mentary Section ce Business Admentary Section Wirtschaft mentary Section Wirtschaft mentary Section ce Information mentary Section ce Business Admentary Section ce Busines | dministration - Su<br>on Supply Chain M<br>on<br>on Social Resear<br>on Sociology and<br>naft:<br>on Political Science<br>dministration - Fin<br>on Finance<br>espädagogik/Lehra<br>on Business Educ<br>Systems:<br>on Information Systems:<br>on Information - Ma<br>on Marketing   | Management  ch: Social Researd ee ance: amt an Berufsk ation stems rketing:  | ch<br>collegs:  |  |  |  |
|  | develop new in recognize the recognized recognize     | develop new intellectual per recognize the dynamic, glob  Teaching and Learning Meth depending on course choice  Module Entry Requirements No recommendations  Mode of End-Of-Module Exal TR - depending on course select  Prerequisites for Awarding of Depends on chosen course  Other Programmes that Use Master of Science Business Ad Supplementary Section Master of Science Sociology a Supplementary Section Master of Arts Politikwissensch Supplementary Section Master of Science Business Ad Supplementary Section Master of Science Business Ad Supplementary Section Master of Science Information Supplementary Section Master of Science Business Ad Supplementary Section | develop new intellectual perspectives with reg recognize the dynamic, global dimensions of Teaching and Learning Methods depending on course choice  Module Entry Requirements No recommendations  Mode of End-Of-Module Examination TR - depending on course selection  Prerequisites for Awarding of Credit Points Depends on chosen course  Other Programmes that Use the Module Master of Science Business Administration - Su. Supplementary Section Supply Chain Master of Science Economics: Supplementary Section Master of Science Sociology and Social Resear Supplementary Section Sociology and Master of Arts Politikwissenschaft: Supplementary Section Political Science Master of Science Business Administration - Fin Supplementary Section Business Educe Master of Education Wirtschaftspädagogik/Lehra Supplementary Section Information Systems: Supplementary Section Information Systems: Supplementary Section Marketing Master of Science Business Administration - Masupplementary Section Corporate Dev. Master of Science Business Administration - Co. Supplementary Section Corporate Dev. Master of Science Business Administration - Acc. | develop new intellectual perspectives with regard to their ow recognize the dynamic, global dimensions of their profession.  Teaching and Learning Methods depending on course choice  Module Entry Requirements No recommendations  Mode of End-Of-Module Examination TR - depending on course selection  Prerequisites for Awarding of Credit Points Depends on chosen course  Other Programmes that Use the Module  Master of Science Business Administration - Supply Chain Management Master of Science Economics:  Supplementary Section Supply Chain Management Master of Science Economics:  Supplementary Section  Master of Science Sociology and Social Research:  Supplementary Section Sociology and Social Research  Master of Arts Politikwissenschaft:  Supplementary Section Political Science  Master of Science Business Administration - Finance:  Supplementary Section Finance  Master of Education Wirtschaftspädagogik/Lehramt an Berufsk Supplementary Section Business Education  Master of Science Information Systems:  Supplementary Section Information Systems  Master of Science Business Administration - Marketing:  Supplementary Section Marketing  Master of Science Business Administration - Corporate Development Supplementary Section Corporate Development | develop new intellectual perspectives with regard to their own education recognize the dynamic, global dimensions of their professional future.  Teaching and Learning Methods depending on course choice  Module Entry Requirements No recommendations  Mode of End-Of-Module Examination TR - depending on course selection  Prerequisites for Awarding of Credit Points Depends on chosen course  Other Programmes that Use the Module Master of Science Business Administration - Supply Chain Management:     Supplementary Section Supply Chain Management Master of Science Economics:     Supplementary Section Supply Chain Management Master of Science Sociology and Social Research:     Supplementary Section Political Science Master of Arts Politikwissenschaft:     Supplementary Section Political Science Master of Science Business Administration - Finance:     Supplementary Section Business Education Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs:     Supplementary Section Business Education Master of Science Information Systems:     Supplementary Section Information Systems Master of Science Business Administration - Marketing:     Supplementary Section Marketing Master of Science Business Administration - Corporate Development:     Supplementary Section Corporate Development Master of Science Business Administration - Accounting and Taxation: |  |  |

| 9  | Module Manager   |
|----|--|
| 10 | Miscellaneous Language: can be held in English or in any language offered at the host university. This module can be studied at a higher education institution in another country. There is a standardised crediting procedure for such cases. Information about course crediting (deadlines and procedures) can be obtained from the Credit Transfer Centre (WiSo Credit Transfer Centre: https://www.anrechnungwiso.uni-koeln.de/) This module can also be taken as part of a summer school organised by the WiSo Faculty. In this case, students must register for the examination in accordance with the rules of the WiSo Faculty prior to embarking on the module. |

| Studies Abread II (Mester) |  |   |                    |                    |                                      |                           |  |
|----------------------------|--|---|--------------------|--------------------|--------------------------------------|---------------------------|--|
| Studies Abroad II (Master) |  |   |                    |                    |                                      |                           |  |
| Module Code<br>1014SAEr02  |  | <b>Workload</b><br>360h   | ECTS Credits<br>12 | Module<br>Language | Module<br>Availability<br>every term | <b>Duration</b><br>1 Term |  |
| 1                          | Courses Contact Hours Self-Studies Course Language   |   |                    |                    |                                      | Course Language           |  |
| 2                          |  | Module Content Depends on chosen course   |                    |                    |                                      |                           |  |
| 3                          | Students describe appritional perspective explain international ence discuss and county and social science develop new i   | describe approaches to business administration, economics and social sciences from an international perspective explain international issues in the areas of business administration, economics and social science discuss and compare different theories and approaches in business administration, economics and social science develop new intellectual perspectives with regard to their own education are better equipped to deal with the dynamic, global dimensions of their professional future in an |                    |                    |                                      |                           |  |
| 4                          | 1  | Teaching and Learning Methods depending on course choice  |                    |                    |                                      |                           |  |
| 5                          | 1  | Module Entry Requirements No recommendations  |                    |                    |                                      |                           |  |
| 6                          |  | Mode of End-Of-Module Examination TR - depending on course selection  |                    |                    |                                      |                           |  |
| 7                          | · ·  | Prerequisites for Awarding of Credit Points Depends on chosen course.   |                    |                    |                                      |                           |  |
| 8                          | Other Programmes that Use the Module  Master of Science Business Administration - Supply Chain Management:     Supplementary Section Supply Chain Management  Master of Science Sociology and Social Research:     Supplementary Section Sociology and Social Research  Master of Arts Politikwissenschaft:     Supplementary Section Political Science  Master of Science Business Administration - Finance:     Supplementary Section Finance  Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs:     Supplementary Section Business Education  Master of Science Information Systems:     Supplementary Section Information Systems  Master of Science Business Administration - Marketing:     Supplementary Section Marketing  Master of Science Business Administration - Corporate Development:     Supplementary Section Corporate Development  Master of Science Business Administration - Accounting and Taxation:     Supplementary Section Accounting and Taxation |   |                    |                    |                                      |                           |  |

| 9  | Module Manager   |
|----|--|
| 10 | Miscellaneous Language: Can be offered in English or in any language possible at the host university. This module can be studied at a higher education institution in another country. There is a standardised crediting procedure for such cases. Information about course crediting (deadlines and procedures) can be obtained from the Credit Transfer Centre (WiSo Credit Transfer Centre: https://www.anrechnungwiso.uni-koeln.de/) This module can also be taken as part of a summer school organised by the WiSo Faculty. In this case, students must register for the examination in accordance with the rules of the WiSo Faculty prior to embarking on the module. |

## 3.6.4 Masterthesis

| viaster 1                        | Thesis Informati  | on Systems   |                    |   |                                      | ı   |
|----------------------------------|---|--|--------------------|---|--------------------------------------|---|
| <b>Module Code</b><br>1015MalS00 |   | Workload 900h ECTS C   | ECTS Credits<br>30 | redits Module Language German and English | Module<br>Availability<br>every term | <b>Duration</b><br>1 Term   |
| 1                                | b) Master's thes<br>c) Master's thesi   | Courses  a) Master's thesis with Prof. Ketter b) Master's thesis with Prof. Recker c) Master's thesis with Prof. Rosenkranz d) Master's thesis with Prof. Schoder  b) Oh c) Oh d) Oh   |                    |   |                                      | Course Language a) German and English b) German and English c) German and English d) German and English |
| 2                                | The topic of the tion or the group assigned to the  | Module Content  The topic of the Master's thesis in Information Systems must be taken from the area of specialisation or the group of the supplementary area occupied by the examination candidate. If the topic is assigned to the supplementary area, the candidate must have already successfully completed 18 ECTS in the supplementary area.  |                    |   |                                      |   |
| 3                                | Students are familiar wi it through their o identify questi work on these formulate theo search draw up a res organise and independently engage in adv students and inc | are familiar with current debate on the theory and methods of their subject area and make use of it through their own independent research work.  identify questions and issues that meet academic requirements.  work on these questions independently, using the main primary and secondary literature.  formulate theoretical and methodical (qualitative and/or quantitative) approaches to academic re- |                    |   |                                      |   |
| 4                                | Teaching and L<br>Master's Thesis   | Teaching and Learning Methods Master's Thesis  |                    |   |                                      |   |
| 5                                | Module Entry R  | Requirements   |                    |   |                                      |   |
| 6                                | Mode of End-O<br>Written test 6 mo  |  | mination           |   |                                      |   |
| 7                                | Prerequisites for Passing the written   | _  | f Credit Points    |   |                                      |   |
| 8                                | Master of Science   | Other Programmes that Use the Module  Master of Science Information Systems:  Master Thesis  |                    |   |                                      |   |

| 9  | Module Manager Managing Director Cologne Institute for Information Systems |  |
|----|--|--|
| 10 | Miscellaneous The Master thesis can be written in German or English.       |  |