

2022/23

Please keep in mind the year of validity.

FACULTY OF MANAGEMENT,
ECONOMICS AND SOCIAL
SCIENCES

UNIVERSITY OF COLOGNE

VICE DEAN OF STUDIES
DEPARTMENT

valid for students of the
Examination Regulations
2021

(enrolment from
winter semester 2021/22)



MODULE CATALOGUE

INFORMATION SYSTEMS

MASTER OF SCIENCE

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

Academic Director	Prof. Dr. Detlef Schoder
Programme Director	Prof. Dr. Detlef Schoder
Editor	Vice Dean of Studies Department - WiSo Faculty
Student Services	WiSo-Student Service Point (WiSSPo) +49 (0) 221 / 470 - 8818 www.wiso.uni-koeln.de/enquiry
Status	Taking effect on 01/10/2021

List of abbreviations

AM	Advanced module	PRES	Presentation
AS	Assignment	SI	Studium Integrale
C	Course	SpM	Specialisation module
CC	Compulsory course	SuM	Supplementary module
CH	Contact hours (= time spent in class)	SPW	Semester period per week
CM	Core module	SSt	Self-study
EC	Elective course	TP	Term paper
ECTS	Credit point (ECTS)	TPF	Time required for preparation and follow-up
OE	Oral examination	TR	Credit points transferred from another university
PCR	Practical component report	WL	Workload
PO	Portfolio	WT	Written test
PR	Project		

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1 Information Systems

1.1 Content and objectives of the programme

The Master's degree corresponds to level 7 of the German Qualifications Framework/European Qualifications Framework, and to the master level of the German Qualifications Framework for University Degrees. The competencies which are acquired during the course of studies are listed below as "Intended Learning Outcomes". These Intended Learning Outcomes are comprised of "Learning Goals" and "Learning Objectives". The former are superordinate goals for the graduates of this study programme, while the latter refer to concrete tasks performed by the students.

Graduates act as/with...	
Subject-related and analytical competencies	...interdisciplinary analysts for information systems to support organizations in their strategic decisions on digitization, management and business models in a scientifically sound manner.
	<i>Students analyze strategies for the management of information systems, digital transformation and innovation, processes and business models, taking into account relevant concepts and methods.</i>
	<i>The students apply methods for the analysis of decision-making situations with information-economic reference to the development and renewal of technological products and artifacts, processes and business models in a solution-oriented manner.</i>
	...specialists in theoretical problems of information systems in order to recognize and help shape new digital trends.
	<i>Students analyze the logical and theoretical foundations of computer science, data science, computability and complexity of algorithms.</i>
	<i>Students independently write a scientific paper on a selected topic under the guidelines of the supervising chair.</i>
	...innovative problem solvers for complex problems at the interface of computer science and economic processes in order to optimize processes in a sustainable manner.
	<i>Students apply information economics, computer science, data analysis or business methods to known and unknown problem areas.</i>
	<i>Students apply their knowledge to unfamiliar subject-specific situations, including data science, business analytics, and artificial intelligence.</i>
Communicative and cooperative competencies	...communication experts for computer science issues in order to solve technical problems effectively in (diverse) teams.
	<i>Students work purposefully and cooperatively in diverse teams.</i>
	<i>The students justify independently developed technical positions or solutions to problems.</i>
Personal competencies	...independent and self-reflective decision makers: in order to effectively manage information systems.
	<i>Students derive scientifically sound judgments about information systems and their management from collected information.</i>
	<i>Students independently design their learning and work processes.</i>

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 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.

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.

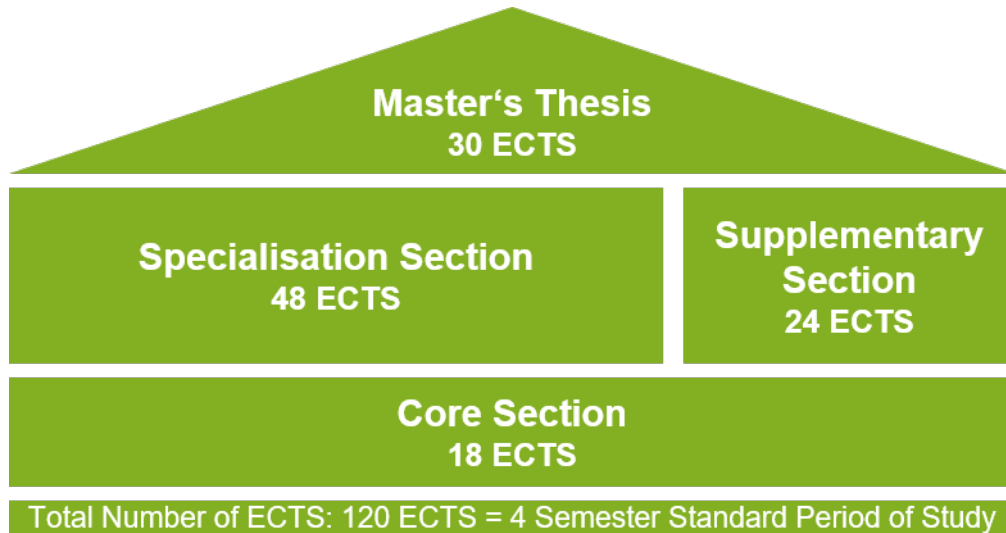
1.2 Requirements

The admission requirement for the study programme is a first professionally qualifying degree in a relevant Bachelor's programme of at least six semesters' duration, in which at least 180 credit points were acquired, or an equivalent successfully completed course of study. Furthermore, English language skills at level B2 as well as German language skills at level C1 are required at the beginning of the programme.

These and other subject-related requirements for the course of study are defined in the **admission regulations**.

1.3 Programme structure

The programme carries a total of 120 ECTS credits and consists of a core 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).



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 **WiSo EXchange (WEX) International Outgoings Portal** (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.

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 **International Relations Center** (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 studies. 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 [STAP Master Application Manual](#). 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)



* 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)

Please 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.



* 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.

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 **WiSo Credit Transfer Center** > Information > Studies Abroad. For any questions regarding credit transfer, students can contact the **ZIB WiSo** or the **WiSo Credit Transfer Center**.

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1.5 Sample study plan

M.Sc. Programme Information Systems						
1. Semester	<div style="background-color: #4CAF50; color: white; padding: 5px; border: 1px solid black;"> Core Module Information Systems I CC 1277MBISY1 6 CP </div>	<div style="background-color: #4CAF50; color: white; padding: 5px; border: 1px solid black;"> Core Module Information Systems II CC 1277MBISY2 6 CP </div>	<div style="background-color: #4CAF50; color: white; padding: 5px; border: 1px solid black;"> Core Module Digital Transformation CC 1277MBDTF1 6 CP </div>	<div style="background-color: #4CAF50; color: white; padding: 5px; border: 1px solid black;"> Specialisation Module Computer Science (1/2) CC 5722MSCSC1 9 CP </div>	<div style="background-color: #E8F5E9; padding: 5px; border: 1px solid black;"> Supplementary Module (1/4) EC 6 CP </div>	33 CP
2. Semester	<div style="background-color: #4CAF50; color: white; padding: 5px; border: 1px solid black;"> Specialisation Module Information Systems (1/3) EC 6 CP </div>	<div style="background-color: #4CAF50; color: white; padding: 5px; border: 1px solid black;"> Specialisation Module Information Systems (2/3) EC 6 CP </div>	<div style="background-color: #4CAF50; color: white; padding: 5px; border: 1px solid black;"> Specialisation Seminar Information Systems I CC 1277MSSIS1 6 CP </div>	<div style="background-color: #4CAF50; color: white; padding: 5px; border: 1px solid black;"> Specialisation Module Computer Science (2/2) CC 5722MSCSC2 9 CP </div>	<div style="background-color: #E8F5E9; padding: 5px; border: 1px solid black;"> Supplementary Module (2/4) EC 6 CP </div>	33 CP
3. Semester	<div style="background-color: #4CAF50; color: white; padding: 5px; border: 1px solid black;"> Specialisation Module Information Systems (3/3) EC 6 CP </div>	<div style="background-color: #4CAF50; color: white; padding: 5px; border: 1px solid black;"> Specialisation Seminar Information Systems II CC 1277MSSIS2 6 CP </div>		<div style="background-color: #E8F5E9; padding: 5px; border: 1px solid black;"> Supplementary Module (3/4) EC 6 CP </div>	<div style="background-color: #E8F5E9; padding: 5px; border: 1px solid black;"> Supplementary Module (4/4) EC 6 CP </div>	24 CP
4. Semester	<div style="border: 1px solid black; padding: 10px;"> Master Thesis Information Systems CC 1277MMISY1 30 CP </div>					30 CP

Sections Core Specialisation Supplementary

M.Sc. Programme Information Systems (with study abroad option)						
1. Semester	<div style="background-color: #4CAF50; color: white; padding: 5px; border: 1px solid black;"> Core Module Information Systems I CC 1277MBISY1 6 CP </div>	<div style="background-color: #4CAF50; color: white; padding: 5px; border: 1px solid black;"> Core Module Information Systems II CC 1277MBISY2 6 CP </div>	<div style="background-color: #4CAF50; color: white; padding: 5px; border: 1px solid black;"> Core Module Digital Transformation CC 1277MBDTF1 6 CP </div>	<div style="background-color: #4CAF50; color: white; padding: 5px; border: 1px solid black;"> Specialisation Module Computer Science (1/2) CC 5722MSCSC1 9 CP </div>	<div style="background-color: #E8F5E9; padding: 5px; border: 1px solid black;"> Specialisation Module Information Systems (1/3) EC 6 CP </div>	33 CP
2. Semester	<div style="background-color: #4CAF50; color: white; padding: 5px; border: 1px solid black;"> Specialisation Seminar Information Systems I CC 1277MSSIS1 6 CP </div>		<div style="background-color: #4CAF50; color: white; padding: 5px; border: 1px solid black;"> Specialisation Seminar Information Systems II CC 1277MSSIS2 6 CP </div>	<div style="background-color: #4CAF50; color: white; padding: 5px; border: 1px solid black;"> Specialisation Module Computer Science (2/2) CC 5722MSCSC2 9 CP </div>	<div style="background-color: #4CAF50; color: white; padding: 5px; border: 1px solid black;"> Specialisation Module Information Systems (2/3) EC 6 CP </div>	27 CP
3. Semester <small>semester abroad</small>	<div style="border: 1px solid black; padding: 10px;"> Supplementary Section Studies Abroad EC 24CP </div>				<div style="background-color: #E8F5E9; padding: 5px; border: 1px solid black;"> Specialisation Module Information Systems Studies Abroad (3/3) EC 6 CP </div>	30 CP
4. Semester	<div style="border: 1px solid black; padding: 10px;"> Master Thesis Information Systems CC 1277MMISY1 30 CP </div>					30 CP

Sections Core Specialisation Supplementary

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Students have the opportunity to develop profiles in the subject areas of **"Business Intelligence and Data Science"**, **"Digital Innovation and Entrepreneurship"** and **"Digital Sustainable Society"** by selecting specific courses in the Specialisation and Supplementary Sections:

M.Sc. Information Systems – Business Intelligence and Data Science						
1. Semester	<div style="background-color: #4CAF50; color: white; padding: 5px; border: 1px solid black;"> Core Module Information Systems I <small>CC 1277MBISY1 6 CP</small> </div>	<div style="background-color: #4CAF50; color: white; padding: 5px; border: 1px solid black;"> Core Module Information Systems II <small>CC 1277MBISY2 6 CP</small> </div>	<div style="background-color: #4CAF50; color: white; padding: 5px; border: 1px solid black;"> Core Module Digital Transformation <small>CC 1277MBDTF1 6 CP</small> </div>	<div style="background-color: #4CAF50; color: white; padding: 5px; border: 1px solid black;"> Specialisation Section Informatik Module (1/2) <small>CC 5722MSCSC1 9 CP</small> </div>	<div style="background-color: #e8f5e9; padding: 5px; border: 1px solid black;"> Supplementary Section Economics (SM Empirical Methods & Data Analysis I-V) <small>EC 6 CP</small> </div>	CP 33
2. Semester	<div style="background-color: #4CAF50; color: white; padding: 5px; border: 1px solid black;"> Specialisation Module Information Systems II (Business Intelligence) <small>EC 1277MSISY2 6 CP</small> </div>	<div style="background-color: #4CAF50; color: white; padding: 5px; border: 1px solid black;"> Specialisation Module Information Systems III (Adv. Inform. Management with Artificial Intelligence) <small>EC 1277MSISY3 6 CP</small> </div>	<div style="background-color: #4CAF50; color: white; padding: 5px; border: 1px solid black;"> Seminar Information Systems I (Inform. Management oder Collaborative Innovation Networks) <small>CC 1277MSSI1 6 CP</small> </div>	<div style="background-color: #4CAF50; color: white; padding: 5px; border: 1px solid black;"> Specialisation Section Informatik Module (2/2) <small>CC 5722MSCSC2 9 CP</small> </div>	<div style="background-color: #e8f5e9; padding: 5px; border: 1px solid black;"> Supplementary Section Economics (SM Empirical Methods & Data Analysis I-V) <small>EC 6 CP</small> </div>	CP 33
3. Semester	<div style="background-color: #4CAF50; color: white; padding: 5px; border: 1px solid black;"> Specialisation Module Information Systems I (Advanced Analytics and Applications) <small>EC 1277MSISY1 6 CP</small> </div>	<div style="background-color: #4CAF50; color: white; padding: 5px; border: 1px solid black;"> Seminar Information Systems II (Collaborative Innovation Networks oder Inform. Management) <small>CC 277MSSI2 6 CP</small> </div>		<div style="background-color: #e8f5e9; padding: 5px; border: 1px solid black;"> Supplementary Section Economics (SM Empirical Methods & Data Analysis I-V) <small>EC 6 CP</small> </div>	<div style="background-color: #e8f5e9; padding: 5px; border: 1px solid black;"> Supplementary Section Economics (SM Empirical Methods & Data Analysis I-V) <small>EC 6 CP</small> </div>	CP 24
4. Semester	<div style="border: 1px solid black; padding: 10px;"> Master Thesis Information Systems <small>CC 1277MMISY1</small> </div>				30 CP 30	
Sections Core Specialisation Supplementary						

M.Sc. Information Systems – Digital Innovation and Entrepreneurship						
1. Semester	<div style="background-color: #4CAF50; color: white; padding: 5px; border: 1px solid black;"> Core Module Information Systems I <small>CC 1277MBISY1 6 CP</small> </div>	<div style="background-color: #4CAF50; color: white; padding: 5px; border: 1px solid black;"> Core Module Information Systems II <small>CC 1277MBISY2 6 CP</small> </div>	<div style="background-color: #4CAF50; color: white; padding: 5px; border: 1px solid black;"> Core Module Digital Transformation <small>CC 1277MBDTF1 6 CP</small> </div>	<div style="background-color: #4CAF50; color: white; padding: 5px; border: 1px solid black;"> Specialisation Section Informatik Module (1/2) <small>CC 5722MSCSC1 9 CP</small> </div>	<div style="background-color: #e8f5e9; padding: 5px; border: 1px solid black;"> Supplementary Section Corporate Development (1/4) <small>EC 6 CP</small> </div>	CP 33
2. Semester	<div style="background-color: #4CAF50; color: white; padding: 5px; border: 1px solid black;"> Specialisation Module Information Systems II (IT Entrepreneurship) <small>EC 1277MSISY2 6 CP</small> </div>	<div style="background-color: #4CAF50; color: white; padding: 5px; border: 1px solid black;"> Specialisation Module Information Systems III (Artificial Intelligence & Inform. Management) <small>EC 1277MSISY3 6 CP</small> </div>	<div style="background-color: #4CAF50; color: white; padding: 5px; border: 1px solid black;"> Seminar Information Systems I (Information Systems and Digital Technology oder Inform. Management) <small>CC 1277MSSI1 6 CP</small> </div>	<div style="background-color: #4CAF50; color: white; padding: 5px; border: 1px solid black;"> Specialisation Section Informatik Module (2/2) <small>CC 5722MSCSC2 9 CP</small> </div>	<div style="background-color: #e8f5e9; padding: 5px; border: 1px solid black;"> Supplementary Section Corporate Development (2/4) <small>EC 6 CP</small> </div>	CP 33
3. Semester	<div style="background-color: #4CAF50; color: white; padding: 5px; border: 1px solid black;"> Specialisation Module Information Systems I (Digital Strategy and Transformation) <small>EC 1277MSISY1 6 CP</small> </div>	<div style="background-color: #4CAF50; color: white; padding: 5px; border: 1px solid black;"> Seminar Information Systems II (Collab. Innovation Networks oder Inform. Systems for Sust. Society oder Inform. Management) <small>CC 1277MSSI2 6 CP</small> </div>		<div style="background-color: #e8f5e9; padding: 5px; border: 1px solid black;"> Supplementary Section Corporate Development (3/4) <small>EC 6 CP</small> </div>	<div style="background-color: #e8f5e9; padding: 5px; border: 1px solid black;"> Supplementary Section Corporate Development (4/4) <small>EC 6 CP</small> </div>	CP 24
4. Semester	<div style="border: 1px solid black; padding: 10px;"> Master Thesis Information Systems <small>CC 1277MMISY1</small> </div>				30 CP 30	
Sections Core Specialisation Supplementary						

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M.Sc. Information Systems – Digital Sustainable Society						
1. Semester	Core Module Information Systems I <small>CC 1277MBISY1 6 CP</small>	Core Module Information Systems II <small>CC 1277MBISY2 6 CP</small>	Core Module Digital Transformation <small>CC 1277MBDTF1 6 CP</small>	Specialisation Section Informatik Module (1/2) <small>CC 5722MSCSC1 9 CP</small>	Supplementary Section Economics (Energy Economics 1/4) <small>EC 6 CP</small>	CP 33
2. Semester	Specialisation Module Information Systems II (IT Entrepreneurship) <small>EC 1277MSISY2 6 CP</small>	Seminar Information Systems I (Collaborative Innovation Networks) <small>CC 1277MSSIS1 6 CP</small>	Specialisation Section Informatik Module (2/2) <small>CC 5722MSCSC2 9 CP</small>	Supplementary Section Economics (Energy Economics 2/4) <small>EC 6 CP</small>	Supplementary Section Economics (Energy Economics 3/4) <small>EC 6 CP</small>	33
3. Semester	Specialisation Module Information Systems I (Sustainable Digital Innovation Lab) <small>EC 1277MSISY1 6 CP</small>	Specialisation Module Information Systems III (Adv. Topics in Inf. Systems for Sust. Society) <small>EC 1277MSISY3 6 CP</small>	Seminar Information Systems II (Information Systems for Sustainable Society) <small>CC 1277MSSIS2 6 CP</small>	Supplementary Section Economics (Energy Economics 4/4) <small>EC 6 CP</small>		24
4. Semester	Master Thesis Information Systems <small>CC 1277MMISY1</small>				30 CP	30

Sections Core Specialisation Supplementary

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 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.

1.7 Calculation of the overall mark

The marks for core, supplementary and specialisation categories are calculated as the weighted arithmetic mean of the marks for the respective modules, based on the weighting system described in the examination regulations. In the case of end-of-module examinations consisting of several components, the mark for the module is calculated as specified in the **examination regulations**.

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 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

1.8 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 **WiSo Student Service Point (WiSSPo)** 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.

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 Support for students

2.1 Course registration in KLIPS 2.0

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 **WiSo-KLIPS-Support**. If you have further questions, feel free to contact WiSo-KLIPS-Support via **e-mail** (klips-wiso@uni-koeln.de). For account questions, contact the central **KLIPS support**.

2.2 Exam registration in KLIPS 2.0

Examinations on the various programmes are always managed via KLIPS 2.0. Students must register for them within specified deadlines. Please note that registration for courses **without** restriction on participation via KLIPS and registration for the corresponding module examinations are two completely separate processes. In the case of courses which are subject to a restriction on participation, an examination registration is generally only possible if a registration for the course has been submitted beforehand. Most examinations in written test form are offered twice per term. Often, this will be to “space out” the dates, i.e. students can choose the date that best fits their examination schedule. In some cases, however, the second examination may be a genuine repetition of the first, depending on the department/institute concerned.

All WiSo Faculty examination candidates are entitled to see their examination papers after they have been marked. For more information, please visit the **WiSo Examination Office website**.

2.3 Subject-specific advice and examination advice

The **WiSSPo** 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. WiSSPo 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 Office**.

2.4 Other sources of information and advice

International students who study at the WiSo Faculty for part of their programme can turn to the **International Relations Center** 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.

The Faculty's **Credit Transfer Centre** 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 does away with 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 **WiSo Career Service** 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 **WiSo IT Service** 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 **wiso-buero.uni-koeln.de** or by directly writing an email to **wiso-buero@uni-koeln.de**.

3 Curriculum and module descriptions

3.1 Core section

In accordance with section 32(1), No. 1 of the Examination Regulations, the examination candidate must obtain 18 ECTS credits in the core section.

Group	Module	ECTS	CC/EC	Required ECTS	
Core Section Information Systems	CM Information Systems I	6	CC	18	
	CM Information Systems II	6	CC		
	CM Digital Transformation	6	CC		

3.2 Specialisation section

In accordance with section 32(1), No. 2 of the Examination Regulations, the examination candidate must obtain 48 ECTS credits in the specialisation section.

Group	Module	ECTS	CC/EC	Required ECTS	
Information System	SpM Information Systems I	6	EC	18	48
	SpM Information Systems II	6	EC		
	SpM Information Systems III	6	EC		
	Studies Abroad in Information Systems	6	EC		
Computer Science	SpM Computer Science I	9	CC	18	
	SpM Computer Science II	9	CC		
Seminar	SpM Seminar Information Systems I	6	CC	12	
	SpM Seminar Information Systems II	6	CC		

3.3 Supplementary section

In accordance with section 32(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/ EC	Required ECTS
Accounting and Taxation	SpM Controlling I	6	EC	24
	SpM Controlling II	6	EC	
	SpM Accounting I	6	EC	
	SpM Taxation I	6	EC	
	SpM Advanced Accounting	6	EC	
	SpM Accounting & Taxation Seminar	6	EC	
	SpM Selected Issues in Accounting & Taxation I	6	EC	
Corporate Development	SpM Business Ethics	6	EC	24
	SpM Strategic Development	6	EC	
	SpM Strategic Human Resource Management	6	EC	
	SpM Strategic Management	6	EC	
	SpM Elective Corporate Development I	6	EC	
	SpM Elective Corporate Development II	6	EC	
	SpM Elective Corporate Development III	6	EC	
Finance	SpM Finance I	6	CC	24
	SpM Finance II	6	CC	
	SpM Finance III	6	CC	
	SpM Finance Advanced IV	6	CC	
Marketing	SpM Brand Management	6	CC	24
	SpM Customer Management	6	CC	
	SpM Marketing Performance Management	6	CC	
	SpM Digital Strategy and Marketing	6	CC	

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Supply Chain Management	CM Supply Chain Analytics I	6	CC	24
	CM Supply Chain Analytics II	6	EC	
	SpM Supply Chain Operations	6	CC	
	SpM Supply Chain Strategy	6	EC	
	SpM Supply Chain Planning	6	EC	
	SpM Selected Issues in Behavioural Supply Chain Management	6	EC	
Economics for Business Administration	SpM Empirical Methods and Data Analysis I	6	EC	24
	SpM Empirical Methods and Data Analysis II	6	EC	
	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	
	SpM Market Design and Behaviour I	6	EC	
	SpM Market Design and Behaviour II	6	EC	
	SpM Market Design and Behaviour V	6	EC	
	SpM Markets and Economic Policy I	6	EC	
	SpM Markets and Economic Policy II	6	EC	
	SpM Markets and Economic Policy III	6	EC	
	SpM Markets and Economic Policy IV	6	EC	
	SuM Energy and Climate Change I	6	EC	
	SuM Energy and Climate Change II	6	EC	
	SuM Energy and Climate Change III	6	EC	
	SuM Energy and Climate Change IV	6	EC	
	CM Macroeconomics	6	EC	
	CM Selected Methods in Economics	6	EC	
	SpM Media Economics	6	EC	
	CM Applied Econometrics (Business Administration)	6	EC	

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	CM Microeconomics (Business Administration)	6	EC	
	CM Mathematics	6	EC	
Media and Technology Management	SuM Media and Technology Management - Enterprises, 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	
	SpM Media Economics	6	EC	
	SpM Media and Technology Management - Research and Publications	6	EC	
	SpM Seminar Media Economics	6	EC	
Political Science	CM Comparative Political Institutions	6	EC	24
	CM Comparative Political Economy	6	EC	
	CM Democratic Theory and Practice	6	EC	
	CM International Relations	6	EC	
	CM European Politics	6	EC	
	SpM Special Topics Political Science I	6	EC	
	SpM Special Topics Political Science I	6	EC	
Sociology	CM Sociology I: Analysis of Cross-Sectional Data	12	CC	24
	CM Sociology II: Sociological Theory	6	CC	
	CM Sociology III: Contemporary Societies: Social Structure and Social Change	6	CC	

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Tax Law	SpM Selected Issues in Accounting & Taxation I	6	EC	24
	SpM Selected Issues in Accounting & Taxation II	6	EC	
	CM Basic Course Tax Law	6	EC	
	CM European Tax Law	6	EC	
	CM Specialisation in Company Law	6	EC	
	CM Income Tax Law	6	EC	
	CM Indirect Taxation Law	6	EC	
	CM Corporate Tax Law	6	EC	
	CM International Tax Law	6	EC	
	CM Selected Issues of Tax Law	6	EC	
Economic Psychology	SuM Introduction to Economic Psychology	12	CC	24
	SuM Advanced Economic Psychology I	6	CC	
	SuM Advanced Economic Psychology II	6	CC	
Business Analytics & Econometrics	CM Data Analytics I	6	EC	24
	CM Data Analytics III	6	EC	
	CM Data Analytics V	6	EC	
	CM Data Analytics II	6	EC	
	CM Data Analytics IV	6	EC	
Studies Abroad	Studies Abroad I	6	EC	24
	Studies Abroad II	6	EC	
	Studies Abroad III	6	EC	
	Studies Abroad IV	6	EC	

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.

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 must have a clear reference to information systems.

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 Section

CM Information Systems I					
Module Code 1277MBISY1	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Information Systems and Environmental Sustainability		Contact Hours 60h	Self-Studies 120h	Course Language English
2	Module Content <ul style="list-style-type: none"> • Forms and types of sustainability • Key sustainability indicators • Green IT • Green IS • Transformation potential of information systems for organizational sustainability • Sustainable development of information systems • Sustainable use of information systems • Sustainable management of information systems 				
3	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 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 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:				

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	<p>Supplementary Section Corporate Development</p> <p>Master of Science Economics: Supplementary Section Management & Social Sciences</p> <p>Master of Arts Medienwissenschaft: Ergänzungsbereich Medienmanagement und Medienökonomie</p> <p>Master of Science International Management: Supplementary Section International Management</p> <p>Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs: Ergänzungsbereich Wirtschaftspädagogik</p> <p>Master of Science Information Systems: Core Section Information Systems</p>
9	<p>Module Manager N. N.</p>
10	<p>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.</p>

CM Information Systems II					
Module Code 1277MBISY2	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Analytics and Applications		Contact Hours 60h	Self-Studies 120h	Course Language English
2	Module Content <ul style="list-style-type: none"> • 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 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: 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 Science Economics: Supplementary Section Management & Social Sciences Master of Arts Medienwissenschaft: Ergänzungsbereich Medienmanagement und Medienökonomie				

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	<p>Master of Science International Management: Supplementary Section International Management</p> <p>Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs: Ergänzungsbereich Wirtschaftspädagogik</p> <p>Master of Science Information Systems: Core Section Information Systems</p>
9	<p>Module Manager Univ.-Prof. Dr. Wolf Ketter</p>
10	<p>Miscellaneous The lecture is an inverted classroom. Please read the syllabus before joining this class. The participation in the first lecture is strongly recommended.</p>

CM Digital Transformation					
Module Code 1277MBDTF1	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Digital Transformation and Innovation		Contact Hours 45h	Self-Studies 135h	Course Language English
2	Module Content <ul style="list-style-type: none"> • Select media, Information and communication Technologies, their application and limitations • Economic and managerial properties of digital goods and services • 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 • Management of digital transformation and its prerequisites from an organizational perspective • Concepts for the analysis and innovation of business models 				
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 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 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 Science Economics: Supplementary Section Management & Social Sciences Master of Arts Medienwissenschaft: Ergänzungsbereich Medienmanagement und Medienökonomie Master of Science International Management: Supplementary Section International Management Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs: Ergänzungsbereich Wirtschaftspädagogik				

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	Master of Science Information Systems: Core Section Information Systems
9	Module Manager Univ.-Prof. Dr. Detlef Schoder
10	Miscellaneous Students will be advised of compulsory reading on a term-by-term basis.

3.6.2 Specialisation Section

SpM Information Systems I					
Module Code	Workload	ECTS Credits	Module Language	Module Availability	Duration
1277MSISY1	180h	6	English	every term	1 Term
1	Courses a) Advanced Analytics and Applications b) Sustainable Digital Innovation Lab c) Case Project Digital Transformation		Contact Hours a) 30h b) 30h c) 30h	Self-Studies a) 150h b) 150h c) 150h	Course Language a) English b) English c) English
2	Module Content a) Advanced Analytics and Applications <ul style="list-style-type: none"> • Business analytics applications • Information quality • Explanatory analytics • Predictive analytics • Data mining process • Predictive models • Classification methods • Clustering and data reduction methods • Gaussian Mixture models • Sampling methods • Neural networks and Deep learning • Time Series • Causal inference • Identification of Treatment Effects • Ensemble Learning • Introduction to Reinforcement Learning • Programming Language: Python b) Sustainable Digital Innovation Lab <ul style="list-style-type: none"> • Introduction to global sustainability challenges and digital innovation • Emergent digital technology stacks (hardware and software) • Systems development practices suitable for complex contexts and requirements • Development of ideas to solve the design challenge • Project and team management • Design and implementation of information systems • Prototyping and testing c) Case Project Digital Transformation <ul style="list-style-type: none"> • Digital Strategy Lab • Digital Strategy Ideation (Design Thinking) • Digital Strategy Development • Digital Transformation (Development of a Technical Solution / Use-Case / Prototype based on the Developed Strategy) 				
3	Learning Objectives Students... ... analyse current questions and challenges in the areas of: (a) Data Science and Machine Learning, (b) digital innovation, digital technologies, systems development, sustainability, (c) digital strategy and innovation. ... solve team-internal conflicts and target divergences independently. ... present scientific results in a way that is appropriate for the target audience.				

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	<p>... critically evaluate current social developments and develop alternative solutions. ... develop work processes for real problems and challenges.</p>
4	<p>Teaching and Learning Methods lecture practice</p>
5	<p>Module Entry Requirements none</p>
6	<p>Mode of End-Of-Module Examination Written test: PO</p>
7	<p>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.</p>
8	<p>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: Ergänzungsbereich Wirtschaftspädagogik Master of Science Business Analytics & Econometrics: Supplementary Section Business Analytics & Econometrics Master of Science Information Systems: Specialisation Section Information Systems</p>
9	<p>Module Manager Univ.-Prof. Dr. Wolf Ketter</p>
10	<p>Miscellaneous</p>

SpM Information Systems II					
Module Code	Workload	ECTS Credits	Module Language	Module Availability	Duration
1277MSISY2	180h	6	English	every term	1 Term
1	Courses a) Emerging Electronic Business b) Business Intelligence and Data Management c) IT Entrepreneurship d) Bayesian Data Analytics		Contact Hours a) 45h b) 50h c) 50h d) 45h	Self-Studies a) 135h b) 130h c) 130h d) 135h	Course Language a) English b) English c) English d) English
2	Module Content a) Emerging Electronic Business <ul style="list-style-type: none"> • Current IT trends and the transformation of electronic business into ""ambient business"" in the context of networked and computerised objects and environments (Internet of Things, smart Environments) • Conceptual basics of relevant technologies (including sensors, RFID, telecommunication) • Design and applications of smart environments • Design of intuitive human-computer interaction (HCI) • Context awareness and context-based services • Freely offering and sharing Information as a way of adding value • Economic, social and ethical effects of increasingly omnipresent information technology b) Business Intelligence and Data Management <ul style="list-style-type: none"> • Reporting and Online Analytical Processing (OLAP) • Multidimensional Data Modelling (e.g., MetaMIS, ADAPT) • Design and implementation of data warehouses • Data warehouse schemas and architectures • Non-relational databases (NoSQL/NewSQL) • Foundations of managing and analysing large data sets (e.g., Spark, Hadoop, MapReduce) • Data mining and business analytics (association rules, decision trees, clustering, artificial neural networks) c) IT Entrepreneurship <ul style="list-style-type: none"> • Fundamentals of entrepreneurship • Forms of entrepreneurship • Process models of entrepreneurship • IT-centered start-up industries • Digital technologies as enablers and triggers of entrepreneurship • Practices for developing and presenting start-up ideas d) Bayesian Data Analytics <ul style="list-style-type: none"> • Advanced methods for data analysis of business data; alternating topics based on real research projects, e.g.: • Ensemble methods • Social media and network analysis • Text analytics, text mining, NLP • Neural Nets • Heterogeneous Treatment Effects • Multi-Armed Bandits 				
3	Learning Objectives Students... ... analyse current questions and challenges:				

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	<p>... a) in the area of latest technical and business-related developments in (emerging) electronic businesses.</p> <p>... b) in data analytics, data warehousing, and data mining.</p> <p>...c) in IT-centric entrepreneurship</p> <p>... d) in data science and machine learning, focused on issues regarding sustainability.</p> <p>... act responsibly considering ecological, social and ethical criteria.</p> <p>... critically evaluate current social developments and develop alternative solutions.</p> <p>... develop work processes for real problems and challenges.</p>
4	<p>Teaching and Learning Methods</p> <p>lecture</p> <p>practice</p>
5	<p>Module Entry Requirements</p> <p>none</p>
6	<p>Mode of End-Of-Module Examination</p> <p>Written test: PO</p>
7	<p>Prerequisites for Awarding of Credit Points</p> <p>Passing the written examination of one course. A course is to be attended; the written examination relates to the content of one course.</p>
8	<p>Other Programmes that Use the Module</p> <p>Master of Science Business Administration - Supply Chain Management: Supplementary Section Supply Chain Management</p> <p>Master of Science Business Administration - Finance: Supplementary Section Finance</p> <p>Master of Science Business Administration - Accounting and Taxation: Supplementary Section Accounting and Taxation</p> <p>Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development</p> <p>Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs: Ergänzungsbereich Wirtschaftspädagogik</p> <p>Master of Science Business Analytics & Econometrics: Supplementary Section Business Analytics & Econometrics</p> <p>Master of Science Information Systems: Specialisation Section Information Systems</p>
9	<p>Module Manager</p> <p>Univ.-Prof. Dr. Christoph Rosenkranz</p>
10	<p>Miscellaneous</p> <p>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 employ a project-based format. c) Required readings are announced at the beginning of the semester. d) This course will not be offered after winter term 22/23 anymore.</p>

SpM Information Systems III					
Module Code 1277MSISY3	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every term	Duration 1 Term
1	Courses a) Artificial Intelligence and Information Management b) Applied Mathematical Optimization c) Machine Learning and Artificial Intelligence d) Decision Making under Uncertainty		Contact Hours a) 50h b) 50h c) 30h d) 30h	Self-Studies a) 130h b) 130h c) 150h d) 150h	Course Language a) English b) English c) Englisch d) Englisch
2	<p>Module Content</p> <p>a) Artificial Intelligence and Information Management</p> <ul style="list-style-type: none"> • Concepts, frameworks, and development of Information Management • Management of external information sources and demand • IT in companies - role and contribution to value generation • IT Governance • IT Strategy and Strategic Alignment • IT Processes • IT Controlling • IT Sourcing • Knowledge Management • Role of the CIO • New trends <p>b) Applied Mathematical Optimization</p> <ul style="list-style-type: none"> • Fundamentals of Sustainable Information Systems • Domain Knowledge in Energy and Mobility in conjunction with sustainability • Data Science and Machine Learning Methods • Introduction to wicked problems and how to tackle them with Data Science • Simulation and experimentation techniques • Cutting-Edge IS use cases from practice and leading research <p>c) Machine Learning and Artificial Intelligence</p> <ul style="list-style-type: none"> • Basics of the methods of Machine Learning and Artificial Intelligence (AI) • Basics of both supervised and unsupervised methods (e.g. decision trees, random forests, boosting, support vector machines, neural networks, deep and opponent learning, ensemble learning, principal component analysis, factor analysis and diverse learning or multidimensional scaling) • Translation of business problems into machine learning use cases; feasibility and impact • Responsible implementation of machine learning projects in compliance with ethical standards <p>d) Decision Making under Uncertainty</p> <ul style="list-style-type: none"> • Probabilistics • Bayesian Networks • (Hidden) Markov Decision Process • Dynamic Programming • Forecasting and Time-Series Prognose und Zeitreihenanalyse • Agent-based Decision and Reinforcement Learning 				
3	<p>Learning Objectives</p> <p>Students...</p> <p>... communicate continuously and purposefully in diverse teams.</p>				

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	<p>... 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 potentials. ... develop work processes for real problems and challenges.</p>
4	<p>Teaching and Learning Methods lecture practice</p>
5	<p>Module Entry Requirements none</p>
6	<p>Mode of End-Of-Module Examination Written test: PO</p>
7	<p>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.</p>
8	<p>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: Ergänzungsbereich Wirtschaftspädagogik Master of Science Business Analytics & Econometrics: Supplementary Section Business Analytics & Econometrics Master of Science Information Systems: Specialisation Section Information Systems</p>
9	<p>Module Manager Univ.-Prof. Dr. Wolf Ketter</p>
10	<p>Miscellaneous b) Required readings are announced at the beginning of the semester.</p>

Studies Abroad in Information Systems						
Module Code 1014MSSA1		Workload 180h	ECTS Credits 6	Module Language selected language	Module Availability every term	Duration 1 Term
1	Courses			Contact Hours	Self-Studies	Course Language
2	Module Content depending on course choice					
3	Learning Objectives Students... ... depending on course choice					
4	Teaching and Learning Methods depending on course choice					
5	Module Entry Requirements depending on course choice					
6	Mode of End-Of-Module Examination TR - depending on course selection					
7	Prerequisites for Awarding of Credit Points depending on course choice					
8	Other Programmes that Use the Module Master of Science Information Systems: Specialisation Section Information Systems					
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 accreditation procedure for such cases. Information about course accreditation (deadlines and procedures) can be obtained from the Credit Transfer Centre (WiSo Credit Transfer Centre: https://www.anrechnungswiso.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 Computer Science I					
Module Code 5722MSCSC1	Workload 270h	ECTS Credits 9	Module Language German and English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Computer Science I		Contact Hours 90h	Self-Studies 1810h	Course Language German and English
2	Module Content Different topics in the area of computer science, the current course offer can be seen in KLIPS.				
3	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-Of-Module Examination Written test: WT (180) Oral examination: OE				
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: Specialisation Section Information Systems				
9	Module Manager Geschäftsführende*r Direktor*in Institut für Informatik				
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 Computer Science II					
Module Code 5722MSCSC2	Workload 270h	ECTS Credits 9	Module Language German and English	Module Availability every 2nd term - summer term	Duration 1 Term
1	Courses Computer Science II		Contact Hours 90h	Self-Studies 180h	Course Language German and English
2	Module Content Different topics in the area of computer science, the current course offer can be seen in KLIPS.				
3	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-Of-Module Examination Written test: WT (180) Oral examination: OE				
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: Specialisation Section Information Systems				
9	Module Manager Geschäftsführende*r Direktor*in Institut für Informatik				
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					
Module Code 1277MSSIS1	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every term	Duration 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 Machine Learning (Jun.-Prof. Li) e) Advanced Seminar Information Management (Prof. Schoder)		Contact Hours a) 30h b) 30h c) 30h d) 30h e) 30h	Self-Studies a) 150h b) 150h c) 150h d) 150h e) 150h	Course Language a) English b) English c) English d) English e) English
2	Module Content Selected issues and varying topics in the area of Information Systems, related either to theory or methods. Topics are primarily related to:				
	a) <ul style="list-style-type: none"> • Collaborative Innovation Networks (COINs) • swarm creativity, and coolhunting/ coolfarming • Social Network analysis • Sentiment analysis • Digital platforms for collaboration and creativity 				
	b) <ul style="list-style-type: none"> • Business intelligence • Data Science and Business Analytics • Future Energy Business • Learning Agents • Sharing Economy • Smart Markets 				
	c) <ul style="list-style-type: none"> • Conceptual Modeling • Business Process Management • Information Systems Development • Systems Analysis and Design • Digital Innovation • Digital Entrepreneurship • Green IS • Environmental Sustainability 				
	d) <ul style="list-style-type: none"> • Supervised, Unsupervised, and Semi-Supervised Learning • Clustering, Principal Component Analysis, High-dimensional Data • Transfer Learning and Federated Learning • Neural Network, Convolutional Neural Network, Graph Convolutional Network • Recurrent Neural Networks for Natural Language Process and More • Self-supervised Learning • Reinforcement Learning 				
	e) <ul style="list-style-type: none"> • Media Mass Customization • Electronic Commerce • Social Media & Social Network Analysis 				

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	<ul style="list-style-type: none"> • Openness, • Management of Information Spheres and IT-Platforms • Decision Support Systems • Artificial Intelligence
3	<p>Learning Objectives</p> <p>Students...</p> <p>... prepare independently a research design for a question.</p> <p>... solve team-internal conflicts and target divergences independently.</p> <p>... use techniques of scientific work and good scientific practice.</p>
4	<p>Teaching and Learning Methods</p> <p>seminar</p>
5	<p>Module Entry Requirements</p> <p>none</p>
6	<p>Mode of End-Of-Module Examination</p> <p>Combined examination: PRES, TP</p>
7	<p>Prerequisites for Awarding of Credit Points</p> <p>Passing the module examination</p>
8	<p>Other Programmes that Use the Module</p> <p>Master of Science International Management: Supplementary Section International Management</p> <p>Master of Science Information Systems: Specialisation Section Information Systems</p>
9	<p>Module Manager</p> <p>Univ.-Prof. Dr. Detlef Schoder</p>
10	<p>Miscellaneous</p> <p>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 approaches taken when attempting to answer the question or solve the task on the literature and the students' own work.</p>

SpM Seminar Information Systems II					
Module Code 1277MSSIS2	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every term	Duration 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 Machine Learning (Jun.-Prof. Li) e) Advanced Seminar Information Management (Prof. Schoder)		Contact Hours a) 30h b) 30h c) 30h d) 30h e) 30h	Self-Studies a) 150h b) 150h c) 150h d) 150h e) 150h	Course Language a) English b) English c) English d) English e) English
2	Module Content Selected issues and varying topics in the area of Information Systems, related either to theory or methods. Topics are primarily related to:				
	a) <ul style="list-style-type: none"> • Collaborative Innovation Networks (COINs) • swarm creativity, and coolhunting/ coolfarming • Social Network analysis • Sentiment analysis • Digital platforms for collaboration and creativity 				
	b) <ul style="list-style-type: none"> • Business intelligence • Data Science and Business Analytics • Future Energy Business • Learning Agents • Sharing Economy • Smart Markets 				
	c) <ul style="list-style-type: none"> • Conceptual Modeling • Business Process Management • Information Systems Development • Systems Analysis and Design • Digital Innovation • Digital Entrepreneurship • Green IS • Environmental Sustainability 				
	d) <ul style="list-style-type: none"> • Supervised, Unsupervised, and Semi-Supervised Learning • Clustering, Principal Component Analysis, High-dimensional Data • Transfer Learning and Federated Learning • Neural Network, Convolutional Neural Network, Graph Convolutional Network • Recurrent Neural Networks for Natural Language Process and More • Self-supervised Learning • Reinforcement Learning 				
	e) <ul style="list-style-type: none"> • Media Mass Customization • Electronic Commerce • Social Media & Social Network Analysis 				

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	<ul style="list-style-type: none"> • Openness, • Management of Information Spheres and IT-Platforms • Decision Support Systems • Artificial Intelligence
3	<p>Learning Objectives</p> <p>Students...</p> <p>... prepare independently a research design for a question.</p> <p>... solve team-internal conflicts and target divergences independently.</p> <p>... use techniques of scientific work and good scientific practice.</p>
4	<p>Teaching and Learning Methods</p> <p>seminar</p>
5	<p>Module Entry Requirements</p> <p>none</p>
6	<p>Mode of End-Of-Module Examination</p> <p>Combined examination: PRES, TP</p>
7	<p>Prerequisites for Awarding of Credit Points</p> <p>Passing the module examination</p>
8	<p>Other Programmes that Use the Module</p> <p>Master of Science International Management: Supplementary Section International Management</p> <p>Master of Science Information Systems: Specialisation Section Information Systems</p>
9	<p>Module Manager</p> <p>Univ.-Prof. Dr. Detlef Schoder</p>
10	<p>Miscellaneous</p> <p>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 approaches taken when attempting to answer the question or solve the task on the literature and the students' own work.</p>

3.6.3 Supplementary Section

SpM Controlling I					
Module Code 1016MSCON1	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Operative Controlling (1. Term)		Contact Hours 45h	Self-Studies 135h	Course Language English
2	Module Content <ul style="list-style-type: none"> • Fundamentals of controlling • Theory, strategies and methods to support controlling activities • Controlling instruments 				
3	Learning Objectives Students... ... 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-) specialists. ... develop work processes for real problems and challenges.				
4	Teaching and Learning Methods lecture practice				
5	Module Entry Requirements Recommendation: Basic knowledge of internal and external accounting, investment, financing and decision theory				
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 - 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: Wahlpflichtfach Management & Social Sciences Master of Science Economics:				

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	<p>Supplementary Section Management & Social Sciences</p> <p>Master of Science Gesundheitsökonomie: Supplementary Section Health Economics</p> <p>Master of Science Mathematik: Economics Sciences</p> <p>Master of Science Wirtschaftsmathematik: Economics Sciences</p> <p>Master of Science International Management: Supplementary Section International Management</p> <p>Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs: Ergänzungsbereich Wirtschaftspädagogik</p> <p>Master of Science Business Analytics & Econometrics: Supplementary Section Business Analytics & Econometrics</p> <p>Master of Arts Regionalstudien China - Betriebswirtschaftslehre: Ergänzungsbereich Business Administration</p> <p>Master of Science Business Administration - Accounting and Taxation: Specialisation Section Accounting and Taxation</p>
9	<p>Module Manager Univ.-Prof. Dr. Carsten Homburg</p>
10	<p>Miscellaneous This course ends in the middle of the semester (1. term). The exam is offered at the end of the course.</p>

SpM Controlling II					
Module Code 1016MSCON2	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Strategic Controlling (2. Term)		Contact Hours 45h	Self-Studies 135h	Course Language English
2	Module Content <ul style="list-style-type: none"> • Introduction to strategic controlling • Conventional cost management instruments • More recent cost management instruments • Benchmarking 				
3	Learning Objectives Students... ... 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-) specialists. ... develop work processes for real problems and challenges.				
4	Teaching and Learning Methods lecture practice				
5	Module Entry Requirements Recommendation: Basic knowledge of internal and external accounting, investment, financing and decision theory				
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 - 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 Economics: Supplementary Section Management & Social Sciences Master of Science Gesundheitsökonomie: Supplementary Section Health Economics Master of Science Mathematik:				

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	<p>Economics Sciences Master of Science Wirtschaftsmathematik: Economics Sciences Master of Science International Management: Supplementary Section International Management Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs: Ergänzungsbereich Wirtschaftspädagogik Master of Science Business Analytics & Econometrics: Supplementary Section Business Analytics & Econometrics Master of Science Business Administration - Accounting and Taxation: Specialisation Section Accounting and Taxation</p>
9	<p>Module Manager Univ.-Prof. Dr. Carsten Homburg</p>
10	<p>Miscellaneous This course starts in the middle of the semester (2. term). The exam is offered at the end of the course.</p>

SpM Accounting I					
Module Code 1016MSACC1	Workload 180h	ECTS Credits 6	Module Language German	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Sustainability Reporting		Contact Hours 45h	Self-Studies 135h	Course Language German
2	Module Content <ul style="list-style-type: none"> • 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	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 Learning Methods lecture practice				
5	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 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: Wahlpflichtfach Management & Social Sciences				

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

SpM Taxation I					
Module Code 1016MSTAX1	Workload 180h	ECTS Credits 6	Module Language German	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Taxation of Companies I		Contact Hours 45h	Self-Studies 135h	Course Language German
2	Module Content <ul style="list-style-type: none"> • 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	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 Learning Methods lecture practice				
5	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 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: Wahlpflichtfach Management & Social Sciences Master of Science Economics: Supplementary Section Management & Social Sciences Master of Science Mathematik:				

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	<p>Economics Sciences Master of Science Wirtschaftsmathematik: Economics Sciences Master of Science International Management: Supplementary Section International Management Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs: Ergänzungsbereich Wirtschaftspädagogik Master of Arts Regionalstudien China - Betriebswirtschaftslehre: Ergänzungsbereich Business Administration Master of Science Business Administration - Accounting and Taxation: Specialisation Section Accounting and Taxation</p>
9	<p>Module Manager Univ.-Prof. Dr. Michael Overesch</p>
10	<p>Miscellaneous</p>

SpM Advanced Accounting					
Module Code 1016MSAAC1	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - summer term	Duration 1 Term
1	Courses Value-based Controlling		Contact Hours 45h	Self-Studies 135h	Course Language English
2	Module Content <ul style="list-style-type: none"> • 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 • The Ohlson model 				
3	Learning Objectives Students... ... 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-) specialists. ... act responsibly considering ecological, social and ethical criteria. ... critically evaluate current social developments and develop alternative solutions.				
4	Teaching and Learning Methods lecture practice				
5	Module Entry Requirements Recommendation: Basic knowledge of internal and external accounting, investment and financing				
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 - Marketing: Supplementary Section Marketing Master of Science Business Administration - Finance: Supplementary Section Finance Master of Science Information Systems: Supplementary Section Information Systems				

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	<p>Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development</p> <p>Master of Science Informatik: Anwendungsfeld</p> <p>Master of Science Gesundheitsökonomie: Supplementary Section Health Economics</p> <p>Master of Science Mathematik: Economics Sciences</p> <p>Master of Science Wirtschaftsmathematik: Economics Sciences</p> <p>Master of Science International Management: Supplementary Section International Management</p> <p>Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs: Ergänzungsbereich Wirtschaftspädagogik</p> <p>Master of Science Business Analytics & Econometrics: Supplementary Section Business Analytics & Econometrics</p> <p>Master of Science Business Administration - Accounting and Taxation: Specialisation Section Accounting and Taxation</p>
9	<p>Module Manager Univ.-Prof. Dr. Carsten Homburg</p>
10	<p>Miscellaneous</p>

SpM Accounting & Taxation Seminar					
Module Code 1016MSATS1	Workload 180h	ECTS Credits 6	Module Language German and English	Module Availability every 2nd term - summer term	Duration 1 Term
1	Courses a) Seminar Business Taxation b) Seminar Financial Accounting c) Seminar Managerial Accounting		Contact Hours a) 30h b) 30h c) 30h	Self-Studies a) 150h b) 150h c) 150h	Course Language a) German b) German c) English
2	Module Content Current topics in the field of managerial accounting or financial accounting or taxation				
3	Learning Objectives Students... ... collect and analyse data / information for selected scientific questions using quantitative / qualitative methods. ... collect, systematize and synthesize independently literature on selected scientific questions. ... write an academic paper on a selected topic and achieve thereby their own scientific contribution. ... justify and defend (independently developed) positions or problem solutions. ... discuss scientific topics in a professional manner and appropriate to the situation with specialists. ... 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. ... 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 of one course. A course is to be attended; the 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 - 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 Mathematik:				

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	<p>Economics Sciences Master of Science Wirtschaftsmathematik: Economics Sciences Master of Science International Management: Supplementary Section International Management Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs: Ergänzungsbereich Wirtschaftspädagogik Master of Science Business Administration - Accounting and Taxation: Specialisation Section Accounting and Taxation</p>
9	<p>Module Manager Area Accounting and Taxation</p>
10	<p>Miscellaneous</p>

SpM Selected Issues in Accounting & Taxation I					
Module Code 1016MSSIS1	Workload 180h	ECTS Credits 6	Module Language German and English	Module Availability every 2nd term - summer term	Duration 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) Selected Issues in Auditing f) Accounting for capital market transactions		Contact Hours a) 30h b) 30h c) 30h d) 30h e) 30h f) 30h	Self-Studies a) 60h b) 60h c) 60h d) 60h e) 60h 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	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 Learning Methods lecture				
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: Two lectures must be taken. The exam covers the content of two lectures.				
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 Mathematik: Economics Sciences				

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	<p>Master of Science Wirtschaftsmathematik: Economics Sciences</p> <p>Master of Science International Management: Supplementary Section International Management</p> <p>Master of Science Business Administration - Accounting and Taxation: Supplementary Section Accounting and Taxation</p> <p>Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs: Ergänzungsbereich Wirtschaftspädagogik</p> <p>Master of Science Business Administration - Accounting and Taxation: Specialisation Section Accounting and Taxation</p>
9	<p>Module Manager Area Accounting and Taxation</p>
10	<p>Miscellaneous</p>

SpM Business Ethics					
Module Code 1253MSBET1	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Managing Business Ethics in Markets and Organisations		Contact Hours 60h	Self-Studies 120h	Course Language English
2	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	Learning Objectives Students... ... 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 potentials. ... act responsibly considering ecological, social and ethical criteria. ... critically evaluate current social developments and develop alternative solutions.				
4	Teaching and Learning Methods lecture practice				
5	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 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 - Accounting and Taxation: Supplementary Section Accounting and Taxation Master of Science Informatik: Anwendungsfeld Master of Science Geographie:				

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	<p>Wahlpflichtfach Management & Social Sciences</p> <p>Master of Science Economics: Supplementary Section Management & Social Sciences</p> <p>Master of Science Sociology: Social Research: Supplementary Section Sociology and Social Research</p> <p>Master of Science Sociology: Social and Economic Psychology: Supplementary Section Sociology: Social and Economic Psychology</p> <p>Master of Science Economic Research: Supplementary Section Economic Research</p> <p>Master of Science Gesundheitsökonomie: Supplementary Section Health Economics</p> <p>Master of Arts Medienwissenschaft: Ergänzungsbereich Medienmanagement und Medienökonomie</p> <p>Master of Science Mathematik: Economics Sciences</p> <p>Master of Science Wirtschaftsmathematik: Economics Sciences</p> <p>Master of Science International Management: Supplementary Section International Management</p> <p>Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs: Ergänzungsbereich Wirtschaftspädagogik</p> <p>Master of Arts Regionalstudien China - Betriebswirtschaftslehre: Ergänzungsbereich Business Administration</p> <p>Master of Science Business Administration - Corporate Development: Specialisation Section Corporate Development</p>
9	<p>Module Manager Univ.-Prof. Dr. Bernd Irlenbusch</p>
10	<p>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.</p>

SpM Strategic Development					
Module Code 1253MSSDP1	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Mergers and Acquisitions		Contact Hours 60h	Self-Studies 120h	Course Language English
2	Module Content Key issues of corporate development				
3	Learning Objectives Students... ... understand advanced, specialised theories / methods in the area of corporate development. ... analyse current questions and challenges in the area of corporate development. ... assess and discuss findings and research results of specialised 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-) specialists. ... act responsibly considering ecological, social and ethical criteria.				
4	Teaching and Learning Methods lecture practice				
5	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 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 - Accounting and Taxation: Supplementary Section Accounting and Taxation Master of Science Informatik: Anwendungsfeld Master of Science Geographie: Wahlpflichtfach Management & Social Sciences Master of Science Economics: Supplementary Section Management & Social Sciences Master of Science Sociology: Social Research: Supplementary Section Sociology and Social Research Master of Science Sociology: Social and Economic Psychology:				

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	<p>Supplementary Section Sociology: Social and Economic Psychology</p> <p>Master of Arts Medienwissenschaft: Ergänzungsbereich Medienmanagement und Medienökonomie</p> <p>Master of Science Mathematik: Economics Sciences</p> <p>Master of Science Wirtschaftsmathematik: Economics Sciences</p> <p>Master of Science International Management: Supplementary Section International Management</p> <p>Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs: Ergänzungsbereich Wirtschaftspädagogik</p> <p>Master of Arts Regionalstudien China - Betriebswirtschaftslehre: Ergänzungsbereich Business Administration</p> <p>Master of Science Business Administration - Corporate Development: Specialisation Section Corporate Development</p>
9	Module Manager N.N.
10	Miscellaneous

SpM Strategic Human Resource Management					
Module Code 1253MSSHR1	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Strategic Human Resource Management		Contact Hours 60h	Self-Studies 120h	Course Language English
2	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 Learning Methods lecture practice				
5	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 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 - Accounting and Taxation: Supplementary Section Accounting and Taxation Master of Science Informatik: Anwendungsfeld Master of Science Geographie: Wahlpflichtfach Management & Social Sciences Master of Science Economics: Supplementary Section Management & Social Sciences Master of Science Sociology: Social Research: Supplementary Section Sociology and Social Research				

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	<p>Master of Science Sociology: Social and Economic Psychology: Supplementary Section Sociology: Social and Economic Psychology</p> <p>Master of Science Economic Research: Supplementary Section Economic Research</p> <p>Master of Science Gesundheitsökonomie: Supplementary Section Health Economics</p> <p>Master of Arts Medienwissenschaft: Ergänzungsbereich Medienmanagement und Medienökonomie</p> <p>Master of Science Mathematik: Economics Sciences</p> <p>Master of Science Wirtschaftsmathematik: Economics Sciences</p> <p>Master of Science International Management: Supplementary Section International Management</p> <p>Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs: Ergänzungsbereich Wirtschaftspädagogik</p> <p>Master of Arts Regionalstudien China - Betriebswirtschaftslehre: Ergänzungsbereich Business Administration</p> <p>Master of Science Business Administration - Corporate Development: Specialisation Section Corporate Development</p>
9	<p>Module Manager Univ.-Prof. Dr. Dirk Sliwka</p>
10	<p>Miscellaneous</p>

SpM Strategic Management					
Module Code 1253MSSMG1	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Strategic Management (1. Term)		Contact Hours 60h	Self-Studies 120h	Course Language English
2	Module Content <ul style="list-style-type: none"> • 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	Learning Objectives Students... <ul style="list-style-type: none"> ... 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. ... 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: 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 - 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 - Accounting and Taxation: Supplementary Section Accounting and Taxation				

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	<p>Master of Science Informatik: Anwendungsfeld</p> <p>Master of Science Geographie: Wahlpflichtfach Management & Social Sciences</p> <p>Master of Science Economics: Supplementary Section Management & Social Sciences</p> <p>Master of Science Sociology: Social Research: Supplementary Section Sociology and Social Research</p> <p>Master of Science Sociology: Social and Economic Psychology: Supplementary Section Sociology: Social and Economic Psychology</p> <p>Master of Science Economic Research: Supplementary Section Economic Research</p> <p>Master of Science Gesundheitsökonomie: Supplementary Section Health Economics</p> <p>Master of Arts Medienwissenschaft: Ergänzungsbereich Medienmanagement und Medienökonomie</p> <p>Master of Science Mathematik: Economics Sciences</p> <p>Master of Science Wirtschaftsmathematik: Economics Sciences</p> <p>Master of Science International Management: Supplementary Section International Management</p> <p>Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs: Ergänzungsbereich Wirtschaftspädagogik</p> <p>Master of Arts Regionalstudien China - Betriebswirtschaftslehre: Ergänzungsbereich Business Administration</p> <p>Master of Science Business Administration - Corporate Development: Specialisation Section Corporate Development</p>
9	<p>Module Manager Univ.-Prof. Dr. Matthias Heinz</p>
10	<p>Miscellaneous</p>

SpM Elective Corporate Development I					
Module Code 1253MSSIC1	Workload 180h	ECTS Credits 6	Module Language German and English	Module Availability every 2nd term - summer term	Duration 1 Term
1	Courses Elective Corporate Development I		Contact Hours 60h	Self-Studies 120h	Course Language German and English
2	Module Content Varying topics of corporate development				
3	Learning Objectives Students... ... understand advanced, specialized theories / methods in the area of corporate development. ... 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. ... discuss scientific topics in a professional manner and appropriate to the situation with (non-) specialists. ... 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	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 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 - Accounting and Taxation: Supplementary Section Accounting and Taxation Master of Science Informatik: Anwendungsfeld Master of Science Mathematik: Economics Sciences Master of Science Wirtschaftsmathematik: Economics Sciences				

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	<p>Master of Science International Management: Supplementary Section International Management</p> <p>Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs: Ergänzungsbereich Wirtschaftspädagogik</p> <p>Master of Science Business Administration - Corporate Development: Specialisation Section Corporate Development</p>
9	<p>Module Manager Area Corporate Development</p>
10	<p>Miscellaneous</p>

SpM Elective Corporate Development II					
Module Code 1253MSSIC2	Workload 180h	ECTS Credits 6	Module Language German and English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses a) Sustainability & Strategy b) Elective Corporate Development II		Contact Hours a) 30h b) 30h	Self-Studies a) 150h b) 150h	Course Language a) English b) German and English
2	Module Content Varying topics of corporate development				
3	Learning Objectives Students... ... understand advanced, specialized theories / methods in the area of corporate development. ... analyse current questions and challenges in the area of corporate development. ... 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. ... discuss scientific topics in a professional manner and appropriate to the situation with (non-) specialists. ... critically evaluate current social developments and develop alternative solutions. ... develop work processes for real problems and challenges.				
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 of one course. A course is to be attended; the 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 - 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 - Accounting and Taxation: Supplementary Section Accounting and Taxation Master of Science Informatik: Anwendungsfeld Master of Science Mathematik: Economics Sciences Master of Science Wirtschaftsmathematik: Economics Sciences				

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	<p>Master of Science International Management: Supplementary Section International Management</p> <p>Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs: Ergänzungsbereich Wirtschaftspädagogik</p> <p>Master of Science Business Administration - Corporate Development: Specialisation Section Corporate Development</p>
9	<p>Module Manager Area Corporate Development</p>
10	<p>Miscellaneous</p>

SpM Elective Corporate Development III					
Module Code 1253MSSIC3	Workload 180h	ECTS Credits 6	Module Language German and English	Module Availability irregular	Duration 1 Term
1	Courses The Psychology of Entrepreneurship		Contact Hours 30h	Self-Studies 240h	Course Language English
2	<p>Module Content</p> <p>The 21st century is full of challenges that require innovative solutions: We are in the midst of climate change, our work and private life is becoming increasingly digital and the demographic change in many countries is changing the nature of the workforce in many organizations, to name just a few. Entrepreneurship has been shown to be one of the most fruitful ways to increase innovation levels and economic and societal development worldwide and may therefore be an important means to tackle the grand challenges of our time.</p> <p>But what does it actually mean to think and act in entrepreneurial ways? Are entrepreneurs born with a certain set of qualities and skills, or is entrepreneurship something anyone can learn? What determines whether we become entrepreneurs or not, and what are the psychological consequences of becoming an entrepreneur? Is entrepreneurial thinking reserved for entrepreneurs, or could we all benefit (or even suffer) from adopting an entrepreneurial mindset?</p> <p>This interactive course will answer these and further questions on the psychology of entrepreneurship. Based on well-established theories and the most recent scientific evidence, we will cover different aspects of the entrepreneurial mindset. You will also get a chance to develop your own entrepreneurial mindset and to design interventions that foster entrepreneurial thinking and action in others.</p>				
3	<p>Learning Objectives</p> <p>Students...</p> <ul style="list-style-type: none"> ... understand advanced, specialized theories / methods in the area of corporate development. ... analyse current questions and challenges in the area of corporate development. ... 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-) specialists. ... critically evaluate current social developments and develop alternative solutions. ... develop work processes for real problems and challenges. 				
4	<p>Teaching and Learning Methods</p> <ul style="list-style-type: none"> lecture practice 				
5	<p>Module Entry Requirements</p> <p>none</p>				
6	<p>Mode of End-Of-Module Examination</p> <p>Written test: WT (60)</p>				
7	<p>Prerequisites for Awarding of Credit Points</p> <p>Passing the module examination</p>				
8	<p>Other Programmes that Use the Module</p> <p>Master of Science Business Administration - Supply Chain Management: Supplementary Section Supply Chain Management</p> <p>Master of Science Business Administration - Marketing: Supplementary Section Marketing</p>				

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	<p>Master of Science Business Administration - Finance: Supplementary Section Finance</p> <p>Master of Science Information Systems: Supplementary Section Information Systems</p> <p>Master of Science Business Administration - Accounting and Taxation: Supplementary Section Accounting and Taxation</p> <p>Master of Science Informatik: Anwendungsfeld</p> <p>Master of Science Mathematik: Economics Sciences</p> <p>Master of Science Wirtschaftsmathematik: Economics Sciences</p> <p>Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs: Ergänzungsbereich Wirtschaftspädagogik</p> <p>Master of Science Business Administration - Corporate Development: Specialisation Section Corporate Development</p>
9	<p>Module Manager Area Corporate Development</p>
10	<p>Miscellaneous</p>

SpM Finance I					
Module Code 1259MSFIN1	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Capital Market Theory		Contact Hours 60h	Self-Studies 120h	Course Language English
2	Module Content <ul style="list-style-type: none"> • Investment decisions given uncertainty • Portfolio theory • Asset pricing models • Analysis and valuation of forwards, futures, and options 				
3	Learning Objectives Students... ... understand advanced, specialized theories / methods in the area of capital market theory. ... analyse current questions and challenges in the area of capital market theory. ... assess and discuss findings and research results of specialized theories / methods. ... discuss scientific topics in a professional manner and appropriate to the situation.				
4	Teaching and Learning Methods lecture practice				
5	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 Business Administration - Marketing: Supplementary Section Marketing Master of Science Information Systems: Supplementary Section Information Systems 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 Science Informatik: Anwendungsfeld Master of Science Geographie: Wahlpflichtfach Management & Social Sciences Master of Science Economics: Supplementary Section Management & Social Sciences Master of Science Mathematik: Economics Sciences Master of Science Wirtschaftsmathematik:				

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	<p>Economics Sciences Master of Science International Management: Supplementary Section International Management Master of Science Business Administration - Finance: Specialisation Section Finance Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs: Ergänzungsbereich Wirtschaftspädagogik Master of Arts Regionalstudien China - Betriebswirtschaftslehre: Ergänzungsbereich Business Administration</p>
9	<p>Module Manager Univ.-Prof. Dr. Alexander Kempf Dr. Alexander Pütz</p>
10	<p>Miscellaneous</p>

SpM Finance II					
Module Code 1259MSFIN2	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Corporate Finance Theory		Contact Hours 60h	Self-Studies 120h	Course Language English
2	Module Content <ul style="list-style-type: none"> • Financial Planning • Cost of Capital • Firm Valuation • Corporate Restructuring 				
3	Learning Objectives Students... ... understand advanced, specialized theories / methods in the area of corporate finance. ... analyse current questions and challenges in the area of corporate finance. ... assess and discuss findings and research results of specialized theories / methods. ... discuss scientific topics in a professional manner and appropriate to the situation with (non-) specialists.				
4	Teaching and Learning Methods lecture practice				
5	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 Business Administration - Marketing: Supplementary Section Marketing Master of Science Information Systems: Supplementary Section Information Systems 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 Science Informatik: Anwendungsfeld Master of Science Geographie: Wahlpflichtfach Management & Social Sciences Master of Science Economics: Supplementary Section Management & Social Sciences Master of Science Mathematik: Economics Sciences				

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	<p>Master of Science Wirtschaftsmathematik: Economics Sciences</p> <p>Master of Science International Management: Supplementary Section International Management</p> <p>Master of Science Business Administration - Finance: Specialisation Section Finance</p> <p>Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs: Ergänzungsbereich Wirtschaftspädagogik</p> <p>Master of Arts Regionalstudien China - Betriebswirtschaftslehre: Ergänzungsbereich Business Administration</p>
9	<p>Module Manager Univ.-Prof. Dr. Dieter Hess</p>
10	<p>Miscellaneous</p>

SpM Finance III					
Module Code 1259MSFIN3	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Insurance Economics		Contact Hours 60h	Self-Studies 120h	Course Language English
2	Module Content <ul style="list-style-type: none"> • Insurance demand theory • Production theory in insurance • Market balance in regard to information symmetry and asymmetry • Basics of sector-specific tariff calculation and reserve creation • Claim settlement • Introduction to solvency standards 				
3	Learning Objectives Students... ... understand advanced, specialized theories / methods in the area of finance or insurance. ... analyse current questions and challenges in the area of finance or insurance. ... 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 Learning Methods lecture practice				
5	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 Business Administration - Marketing: Supplementary Section Marketing Master of Science Information Systems: Supplementary Section Information Systems 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 Science Informatik: Anwendungsfeld Master of Science Geographie: Wahlpflichtfach Management & Social Sciences Master of Science Economics: Supplementary Section Management & Social Sciences				

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	<p>Master of Science Gesundheitsökonomie: Supplementary Section Health Economics</p> <p>Master of Science Mathematik: Economics Sciences</p> <p>Master of Science Wirtschaftsmathematik: Economics Sciences</p> <p>Master of Science International Management: Supplementary Section International Management</p> <p>Master of Science Business Administration - Finance: Specialisation Section Finance</p> <p>Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs: Ergänzungsbereich Wirtschaftspädagogik</p> <p>Master of Arts Regionalstudien China - Betriebswirtschaftslehre: Ergänzungsbereich Business Administration</p>
9	<p>Module Manager Univ.-Prof. Dr. Heinrich R. Schradin</p>
10	<p>Miscellaneous</p>

SpM Finance Advanced IV					
Module Code 1259MSFIA4	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses a) Value-Based Management in Insurance - Theory and Practice b) Banking c) Advanced Sustainable Finance		Contact Hours a) 60h b) 60h c) 60h	Self-Studies a) 120h b) 120h c) 120h	Course Language a) English b) German c) English
2	Module Content a) Value-Based Management in Insurance - Theory and Practice <ul style="list-style-type: none"> • 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 b) Banking <ul style="list-style-type: none"> • Introduction to Banking • Theoretical Explanations of Banks • Measurement of Liquidity Risks • Measurement and Management of Credit and Market Risk • Measurement and Management of Operational Risk • Capital Requirements • Bank Management and Bank Controlling c) Advanced Sustainable Finance <ul style="list-style-type: none"> • Introduction to Sustainable Finance • Introduction to R • Data transfer, preparation and analysis • Introduction and application of empirical methods in Sustainable Finance • Performance analyses • Event studies • Matching methods • Quasi-experimental approaches 				
3	Learning Objectives Students... ... understand advanced, specialized theories / methods in the area of Value-Based Management in Insurance. ... analyse current questions and challenges in the area of Value-Based Management in Insurance. ... assess and discuss findings and research results of specialized theories / methods. ... justify and defend (independently developed) positions or problem solutions.				
4	Teaching and Learning Methods lecture practice				
5	Module Entry Requirements none				

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6	<p>Mode of End-Of-Module Examination Written test: WT (60)</p>
7	<p>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.</p>
8	<p>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 Information Systems: Supplementary Section Information Systems 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 Science Informatik: Anwendungsfeld Master of Science Mathematik: Economics Sciences Master of Science Wirtschaftsmathematik: Economics Sciences Master of Science International Management: Supplementary Section International Management Master of Science Business Administration - Finance: Specialisation Section Finance Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs: Ergänzungsbereich Wirtschaftspädagogik</p>
9	<p>Module Manager Area Finance</p>
10	<p>Miscellaneous</p>

SpM Brand Management					
Module Code 1266MSBMG1	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - summer term	Duration 1 Term
1	Courses Brand Management		Contact Hours 45h	Self-Studies 135h	Course Language English
2	Module Content The module covers key questions and challenges of building and managing brands. It consists of both conceptual and applied elements, including presentations by students, case studies, discussions and guest speakers from industry. Students are expected to engage in their own reading of the literature in addition to attending lectures and participating in exercises. Furthermore, they are expected to organise their learning processes independently.				
3	Learning Objectives Students... ... understand advanced, specialized marketing theories, concepts, and methods in the domain of brand management. ... assess and discuss findings and research results of specialized marketing theories, concepts, and methods in the domain of brand management. ... act responsibly considering ecological, social and ethical criteria.				
4	Teaching and Learning Methods lecture practice				
5	Module Entry Requirements Recommendation: Basic knowledge of marketing and multivariate methods (e.g., regression analysis, analysis of variance)				
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 - Accounting and Taxation: Supplementary Section Accounting and Taxation Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development Master of Science Informatik: Anwendungsfeld Master of Science Business Administration - Marketing: Specialisation Section Marketing Master of Science Geographie:				

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	<p>Wahlpflichtfach Management & Social Sciences Master of Science Economics: Supplementary Section Management & Social Sciences Master of Science Sociology: Social Research: Supplementary Section Sociology and Social Research Master of Science Sociology: Social and Economic Psychology: Supplementary Section Sociology: Social and Economic Psychology Master of Arts Medienwissenschaft: Ergänzungsbereich Medienmanagement und Medienökonomie 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: Ergänzungsbereich Wirtschaftspädagogik Master of Arts Regionalstudien China - Betriebswirtschaftslehre: Ergänzungsbereich Business Administration</p>
9	<p>Module Manager Univ.-Prof. Dr. ' Franziska Völckner</p>
10	<p>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.</p>

SpM Customer Management					
Module Code 1266MSCMG1	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Customer Management		Contact Hours 45h	Self-Studies 135h	Course Language English
2	Module Content The module covers key questions and challenges of customer management (CRM). It consists of both conceptual and applied elements, including presentations by students, case studies, discussions and guest speakers from industry. Students are expected to engage in their own reading of the literature in addition to attending lectures and participating in exercises. Furthermore, they are expected to organize their learning processes independently.				
3	Learning Objectives Students... ... understand advanced, specialized marketing theories, concepts, and methods in the domain of customer management. ... analyse current questions and challenges in the area of customer management. ... assess and discuss findings and research results of specialized theories / methods. ... act responsibly considering ecological, social and ethical criteria.				
4	Teaching and Learning Methods lecture practice				
5	Module Entry Requirements Recommendation: Basic knowledge in marketing				
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 - Accounting and Taxation: Supplementary Section Accounting and Taxation Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development Master of Science Informatik: Anwendungsfeld Master of Science Business Administration - Marketing: Specialisation Section Marketing Master of Science Geographie: Wahlpflichtfach Management & Social Sciences Master of Science Economics:				

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	<p>Supplementary Section Management & Social Sciences</p> <p>Master of Science Sociology: Social Research: Supplementary Section Sociology and Social Research</p> <p>Master of Science Sociology: Social and Economic Psychology: Supplementary Section Sociology: Social and Economic Psychology</p> <p>Master of Arts Medienwissenschaft: Ergänzungsbereich Medienmanagement und Medienökonomie</p> <p>Master of Science Mathematik: Economics Sciences</p> <p>Master of Science Wirtschaftsmathematik: Economics Sciences</p> <p>Master of Science International Management: Supplementary Section International Management</p> <p>Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs: Ergänzungsbereich Wirtschaftspädagogik</p> <p>Master of Arts Regionalstudien China - Betriebswirtschaftslehre: Ergänzungsbereich Business Administration</p>
9	<p>Module Manager Univ.-Prof. Dr. Werner Reinartz</p>
10	<p>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.</p>

SpM Marketing Performance Management					
Module Code 1266MSMPF1	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Marketing Performance Management		Contact Hours 45h	Self-Studies 135h	Course Language English
2	Module Content The module deals with central questions of marketing performance management and includes conceptual and applied elements, including presentations by guest speakers and discussions from the world of marketing. Students are required to organise their own learning and working processes independently and self-responsibly in addition to attending lectures and participating in exercises. In addition, it is expected that students read the related literature.				
3	Learning Objectives Students... ... analyse current questions and challenges that arise when quantifying and evaluating marketing activities in financial terms. ... assess and discuss findings and research results of specialised marketing theories, concepts, and methods in the domain of marketing performance management. ... act responsibly considering ecological, social and ethical criteria.				
4	Teaching and Learning Methods lecture practice				
5	Module Entry Requirements Recommendation: basic knowledge of marketing and multivariate methods				
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 - Accounting and Taxation: Supplementary Section Accounting and Taxation Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development Master of Science Informatik: Anwendungsfeld Master of Science Business Administration - Marketing: Specialisation Section Marketing Master of Science Geographie: Wahlpflichtfach Management & Social Sciences Master of Science Economics:				

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	<p>Supplementary Section Management & Social Sciences</p> <p>Master of Science Sociology: Social Research: Supplementary Section Sociology and Social Research</p> <p>Master of Science Sociology: Social and Economic Psychology: Supplementary Section Sociology: Social and Economic Psychology</p> <p>Master of Arts Medienwissenschaft: Ergänzungsbereich Medienmanagement und Medienökonomie</p> <p>Master of Science Mathematik: Economics Sciences</p> <p>Master of Science Wirtschaftsmathematik: Economics Sciences</p> <p>Master of Science International Management: Supplementary Section International Management</p> <p>Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs: Ergänzungsbereich Wirtschaftspädagogik</p> <p>Master of Science Business Analytics & Econometrics: Supplementary Section Business Analytics & Econometrics</p> <p>Master of Arts Regionalstudien China - Betriebswirtschaftslehre: Ergänzungsbereich Business Administration</p>
9	<p>Module Manager Univ.-Prof. Dr. Marc Fischer</p>
10	<p>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.</p>

SpM Digital Strategy and Marketing					
Module Code 1266MSDSM1	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - summer term	Duration 1 Term
1	Courses Digital Strategy and Marketing		Contact Hours 45h	Self-Studies 135h	Course Language English
2	Module Content The emergence of the internet, mobile devices, the ability to automate tasks and the abundance of 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 apply the concepts they learn.				
3	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 Learning Methods lecture practice				
5	Module Entry Requirements Recommendation: basic knowledge of marketing and economics				
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 - Accounting and Taxation: Supplementary Section Accounting and Taxation Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development				

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	<p>Master of Science Informatik: Anwendungsfeld</p> <p>Master of Science Business Administration - Marketing: Specialisation Section Marketing</p> <p>Master of Science Geographie: Wahlpflichtfach Management & Social Sciences</p> <p>Master of Science Economics: Supplementary Section Management & Social Sciences</p> <p>Master of Science Sociology: Social Research: Supplementary Section Sociology and Social Research</p> <p>Master of Science Sociology: Social and Economic Psychology: Supplementary Section Sociology: Social and Economic Psychology</p> <p>Master of Arts Medienwissenschaft: Ergänzungsbereich Medienmanagement und Medienökonomie</p> <p>Master of Science Mathematik: Economics Sciences</p> <p>Master of Science Wirtschaftsmathematik: Economics Sciences</p> <p>Master of Science International Management: Supplementary Section International Management</p> <p>Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs: Ergänzungsbereich Wirtschaftspädagogik</p> <p>Master of Arts Regionalstudien China - Betriebswirtschaftslehre: Ergänzungsbereich Business Administration</p>
9	<p>Module Manager Univ.-Prof. Dr. Hernán Bruno</p>
10	<p>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.</p>

CM Supply Chain Analytics I					
Module Code 1271MBSCA1	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Predictive Analytics		Contact Hours 45h	Self-Studies 135h	Course Language English
2	Module Content <ul style="list-style-type: none"> • Introduction Data Analysis/Data Science • Introduction Programming with Python • Methods of Demand Forecasting 				
3	Learning Objectives Students... ... understand advanced, specialized theories / methods in the area of data science. ... 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. ... develop work processes for real problems and challenges. ... use techniques of scientific work and good scientific practice.				
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: Core 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 - Accounting and Taxation: Supplementary Section Accounting and Taxation Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development Master of Science Informatik: Anwendungsfeld Master of Science Geographie:				

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	<p>Wahlpflichtfach Management & Social Sciences</p> <p>Master of Science Economics: Supplementary Section Management & Social Sciences</p> <p>Master of Science Mathematik: Economics Sciences</p> <p>Master of Science Wirtschaftsmathematik: Economics Sciences</p> <p>Master of Science International Management: Supplementary Section International Management</p> <p>Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs: Ergänzungsbereich Wirtschaftspädagogik</p> <p>Master of Arts Regionalstudien China - Betriebswirtschaftslehre: Ergänzungsbereich Business Administration</p>
9	<p>Module Manager</p> <p>Prof. Dr. Nicolas Fugger</p> <p>Area Supply Chain Management</p>
10	<p>Miscellaneous</p>

CM Supply Chain Analytics II					
Module Code 1271MBSCA2	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Prescriptive Analytics		Contact Hours 45h	Self-Studies 135h	Course Language English
2	Module Content <ul style="list-style-type: none"> • Introduction Analytical Modelling • Introduction Optimisation • Solving Optimisation Case Studies in Python 				
3	Learning Objectives Students... ... understand advanced, specialized theories / methods in the area of data science / optimisation. ... 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. ... develop work processes for real problems and challenges. ... use techniques of scientific work and good scientific practice.				
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: Core 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 - Accounting and Taxation: Supplementary Section Accounting and Taxation Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development Master of Science Informatik: Anwendungsfeld Master of Science Geographie:				

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	<p>Wahlpflichtfach Management & Social Sciences Master of Science Economics: Supplementary Section Management & Social Sciences Master of Science Mathematik: Economics Sciences Master of Science Wirtschaftsmathematik: Economics Sciences Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs: Ergänzungsbereich Wirtschaftspädagogik Master of Arts Regionalstudien China - Betriebswirtschaftslehre: Ergänzungsbereich Business Administration</p>
9	<p>Module Manager Prof. Dr. Andreas Fügner Area Supply Chain Management</p>
10	<p>Miscellaneous</p>

SpM Supply Chain Operations					
Module Code 1271MSSOP1	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - summer term	Duration 1 Term
1	Courses Supply Chain Operations		Contact Hours 45h	Self-Studies 135h	Course Language English
2	Module Content <ul style="list-style-type: none"> • Inventory Management • Contract Design • Capacity and Revenue Management • Supply Chain Management 				
3	Learning Objectives Students... <ul style="list-style-type: none"> ... 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-) specialists. ... present scientific results in a way that is appropriate for the target audience. ... act responsibly considering ecological, social and ethical criteria. ... use techniques of scientific work and good scientific practice. 				
4	Teaching and Learning Methods lecture practice				
5	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	Other Programmes that Use the Module <ul style="list-style-type: none"> Master of Science Business Administration - Supply Chain Management: Specialisation 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 - Accounting and Taxation: Supplementary Section Accounting and Taxation Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development Master of Science Informatik: Anwendungsfeld 				

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	<p>Master of Science Geographie: Wahlpflichtfach Management & Social Sciences</p> <p>Master of Science Economics: Supplementary Section Management & Social Sciences</p> <p>Master of Science Mathematik: Economics Sciences</p> <p>Master of Science Wirtschaftsmathematik: Economics Sciences</p> <p>Master of Science International Management: Supplementary Section International Management</p> <p>Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs: Ergänzungsbereich Wirtschaftspädagogik</p> <p>Master of Arts Regionalstudien China - Betriebswirtschaftslehre: Ergänzungsbereich Business Administration</p>
9	<p>Module Manager Area Supply Chain Management Univ.-Prof. Dr. Ulrich W. Thonemann</p>
10	<p>Miscellaneous</p>

SpM Supply Chain Strategy					
Module Code 1271MSSSY1	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Supply Chain Strategy		Contact Hours 45h	Self-Studies 135h	Course Language English
2	Module Content <ul style="list-style-type: none"> • Strategy Formation • Product development • Process Design • Process Simulation • Applications 				
3	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 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: Specialisation 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 - Accounting and Taxation: Supplementary Section Accounting and Taxation Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development Master of Science Informatik: Anwendungsfeld				

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	<p>Master of Science Geographie: Wahlpflichtfach Management & Social Sciences</p> <p>Master of Science Economics: Supplementary Section Management & Social Sciences</p> <p>Master of Science Mathematik: Economics Sciences</p> <p>Master of Science Wirtschaftsmathematik: Economics Sciences</p> <p>Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs: Ergänzungsbereich Wirtschaftspädagogik</p> <p>Master of Arts Regionalstudien China - Betriebswirtschaftslehre: Ergänzungsbereich Business Administration</p>
9	<p>Module Manager Univ.-Prof. Dr. Fabian Sting Area Supply Chain Management</p>
10	<p>Miscellaneous</p>

SpM Supply Chain Planning					
Module Code 1271MSSPL1	Workload 180h	ECTS Credits 6	Module Language German and English	Module Availability every 2nd term - summer term	Duration 1 Term
1	Courses a) Project Management b) Production Management		Contact Hours a) 45h b) 45h	Self-Studies a) 135h b) 135h	Course Language a) English b) German
2	Module Content Selected topics in Supply Chain Management: a) Project Management: <ul style="list-style-type: none"> • Project Definition and Scoping • Project Risk Analysis and Risk Management • Resource Allocation and Budgeting • Project Scheduling • Project Monitoring • Project Portfolio Management • Managing Human Behaviour in Projects b) Production Management: <ul style="list-style-type: none"> • Supply Chain Design • Demand Planning • Program Planning • Lotsizing and Scheduling • Inventory Management 				
3	Learning Objectives Students... ... understand advanced, specialized theories / methods in Supply Chain Planning. ... analyse current questions and challenges in Supply Chain Planning. ... 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 Learning Methods lecture practice				
5	Module Entry Requirements Recommendation: The CM Supply Chain Analytics I and II should have been completed.				
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.				

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8	<p>Other Programmes that Use the Module</p> <p>Master of Science Business Administration - Supply Chain Management: Specialisation Section Supply Chain Management</p> <p>Master of Science Business Administration - Marketing: Supplementary Section Marketing</p> <p>Master of Science Business Administration - Finance: Supplementary Section Finance</p> <p>Master of Science Information Systems: Supplementary Section Information Systems</p> <p>Master of Science Business Administration - Accounting and Taxation: Supplementary Section Accounting and Taxation</p> <p>Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development</p> <p>Master of Science Informatik: Anwendungsfeld</p> <p>Master of Science Economics: Supplementary Section Management & Social Sciences</p> <p>Master of Science Mathematik: Economics Sciences</p> <p>Master of Science Wirtschaftsmathematik: Economics Sciences</p> <p>Master of Science International Management: Supplementary Section International Management</p> <p>Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs: Ergänzungsbereich Wirtschaftspädagogik</p>
9	<p>Module Manager</p> <p>Area Supply Chain Management</p>
10	<p>Miscellaneous</p>

SpM Selected Issues in Behavioural Supply Chain Management					
Module Code 1271MSIBS1	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - summer term	Duration 1 Term
1	Courses Behavioural Supply Chain Management		Contact Hours 45h	Self-Studies 135h	Course Language English
2	Module Content <ul style="list-style-type: none"> • Behavioural Decision Making • Behavioural Management • Decision Heuristics 				
3	Learning Objectives Students... <ul style="list-style-type: none"> ... 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. 				
4	Teaching and Learning Methods lecture practice				
5	Module Entry Requirements Recommendation: The basic modules Supply Chain Analytics I and II 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	Other Programmes that Use the Module <ul style="list-style-type: none"> Master of Science Business Administration - Supply Chain Management: Specialisation 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 - Accounting and Taxation: Supplementary Section Accounting and Taxation Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development Master of Science Informatik: Anwendungsfeld 				

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	<p>Master of Science Economics: Supplementary Section Management & Social Sciences</p> <p>Master of Science Mathematik: Economics Sciences</p> <p>Master of Science Wirtschaftsmathematik: Economics Sciences</p> <p>Master of Science International Management: Supplementary Section International Management</p> <p>Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs: Ergänzungsbereich Wirtschaftspädagogik</p>
9	<p>Module Manager Prof. Dr. Nicolas Fugger Area Supply Chain Management</p>
10	<p>Miscellaneous</p>

SpM Empirical Methods and Data Analysis I					
Module Code 1314MSEMD1	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses a) Statistical Inference b) Topics in Econometrics and Statistics I		Contact Hours a) 45h b) 45h	Self-Studies a) 135h b) 135h	Course Language a) English b) English
2	Module Content <ul style="list-style-type: none"> • 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	Other Programmes that Use the Module Master of Science Business Administration - Marketing: Core Section Marketing Master of Science Economics: Specialisation Section Economics Supplementary Section Economics Master of Science Economic Research: Supplementary Section Economic Research Master of Science Mathematik: Economics Master of Science Wirtschaftsmathematik: Economics Master of Science Informatik: Anwendungsfeld Master of Science International Management: Supplementary Section International Management Master of Science Business Analytics & Econometrics: Specialisation Section Business Analytics & Econometrics Supplementary Section Business Analytics & Econometrics Master of Science Business Administration - Supply Chain Management: Supplementary Section Supply Chain Management				

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	<p>Master of Science Business Administration - Marketing: Supplementary Section Marketing</p> <p>Master of Science Business Administration - Finance: Supplementary Section Finance</p> <p>Master of Science Information Systems: Supplementary Section Information Systems</p> <p>Master of Science Business Administration - Accounting and Taxation: Supplementary Section Accounting and Taxation</p> <p>Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development</p>
9	<p>Module Manager Univ.-Prof. Dr. Dominik Wied</p>
10	<p>Miscellaneous</p>

SpM Empirical Methods and Data Analysis II					
Module Code 1314MSEMD2	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses a) Microeconometrics b) Machine Learning for Economists c) Topics in Econometrics and Statistics II		Contact Hours a) 45h b) 45h c) 45h	Self-Studies a) 135h b) 135h c) 135h	Course Language a) English b) English c) English
2	Module Content <ul style="list-style-type: none"> • Limited dependent variables • Evaluation of treatment effects • Duration analysis • Panel data and factor models 				
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. ... discuss scientific topics in a professional manner and appropriate to the situation with (non-) specialists. ... use techniques of scientific work and good scientific practice.				
4	Teaching and Learning Methods lecture				
5	Module Entry Requirements Recommendation: CM Econometrics or CM Applied Econometrics (Business Administration) or CM Advanced Econometrics				
6	Mode of End-Of-Module Examination Written test: WT (60)				
7	Prerequisites for Awarding of Credit Points Passing the examination. One course is to be attended; the examination relates to the content of one course.				
8	Other Programmes that Use the Module Master of Science Economics: Specialisation Section Economics Supplementary Section Economics Master of Science Economic Research: Specialisation Section Economic Research Master of Science Mathematik: Economics Master of Science Wirtschaftsmathematik: Economics Master of Science Informatik: Anwendungsfeld Master of Science International Management: Supplementary Section International Management				

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	<p>Master of Science Business Analytics & Econometrics: Specialisation Section Business Analytics & Econometrics Supplementary Section Business Analytics & Econometrics</p> <p>Master of Science Business Administration - Supply Chain Management: Supplementary Section Supply Chain Management</p> <p>Master of Science Business Administration - Marketing: Supplementary Section Marketing</p> <p>Master of Science Business Administration - Finance: Supplementary Section Finance</p> <p>Master of Science Information Systems: Supplementary Section Information Systems</p> <p>Master of Science Business Administration - Accounting and Taxation: Supplementary Section Accounting and Taxation</p> <p>Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development</p>
9	<p>Module Manager Univ.-Prof. Dr. Jörg Breitung</p>
10	<p>Miscellaneous</p>

SpM Empirical Methods and Data Analysis III					
Module Code 1314MSEMD3	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - summer term	Duration 1 Term
1	Courses a) Time Series Econometrics b) Stochastic Models and Processes c) Topics in Econometrics and Statistics III		Contact Hours a) 45h b) 45h c) 45h	Self-Studies a) 135h b) 135h c) 135h	Course Language a) English b) English c) English
2	Module Content a) Time Series Econometrics: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • Deepening topics in statistical inference • bootstrap • nonparametric density estimation • nonparametric tests (e.g. for independence) • Brownian motions • Poisson processes • Markov processes 				
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.				
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	Other Programmes that Use the Module Master of Science Business Administration - Marketing: <ul style="list-style-type: none"> Core Section Marketing Master of Science Economics: <ul style="list-style-type: none"> Specialisation Section Economics 				

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	<p>Supplementary Section Economics</p> <p>Master of Science Economic Research: Specialisation Section Economic Research Supplementary Section Economic Research</p> <p>Master of Science Mathematik: Economics</p> <p>Master of Science Wirtschaftsmathematik: Economics</p> <p>Master of Science Informatik: Anwendungsfeld</p> <p>Master of Science International Management: Supplementary Section International Management</p> <p>Master of Science Business Analytics & Econometrics: Supplementary Section Business Analytics & Econometrics</p> <p>Master of Science Business Administration - Supply Chain Management: Supplementary Section Supply Chain Management</p> <p>Master of Science Business Administration - Marketing: Supplementary Section Marketing</p> <p>Master of Science Business Administration - Finance: Supplementary Section Finance</p> <p>Master of Science Information Systems: Supplementary Section Information Systems</p> <p>Master of Science Business Administration - Accounting and Taxation: Supplementary Section Accounting and Taxation</p> <p>Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development</p>
9	<p>Module Manager Univ.-Prof. Dr. Dominik Wied</p>
10	<p>Miscellaneous</p>

SpM Empirical Methods and Data Analysis IV					
Module Code 1314MSEMD4	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses a) Statistical Analysis of Financial Data b) Topics in Econometrics and Statistics IV		Contact Hours a) 45h b) 45h	Self-Studies a) 135h b) 135h	Course Language a) English b) English
2	Module Content <ul style="list-style-type: none"> • 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: Specialisation Section Economics Supplementary Section Economics Master of Science Economic Research: Supplementary Section Economic Research Master of Science Mathematik: Economics Master of Science Wirtschaftsmathematik: Economics Master of Science Informatik: Anwendungsfeld Master of Science International Management:				

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	<p>Supplementary Section International Management</p> <p>Master of Science Business Administration - Finance: Core Section Finance</p> <p>Master of Science Business Analytics & Econometrics: Specialisation Section Business Analytics & Econometrics Supplementary Section Business Analytics & Econometrics</p> <p>Master of Science Business Administration - Accounting and Taxation: Core Section Accounting and Taxation</p> <p>Master of Science Business Administration - Supply Chain Management: Supplementary Section Supply Chain Management</p> <p>Master of Science Business Administration - Marketing: Supplementary Section Marketing</p> <p>Master of Science Business Administration - Finance: Supplementary Section Finance</p> <p>Master of Science Information Systems: Supplementary Section Information Systems</p> <p>Master of Science Business Administration - Accounting and Taxation: Supplementary Section Accounting and Taxation</p> <p>Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development</p>
9	<p>Module Manager Univ.-Prof. Dr. Roman Liesenfeld</p>
10	<p>Miscellaneous</p>

SpM Empirical Methods and Data Analysis V					
Module Code 1314MSEMD5	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - summer term	Duration 1 Term
1	Courses a) Multivariate Statistics b) Panel Data Analysis c) Bayesian Econometrics d) Topics in Econometrics and Statistics V		Contact Hours a) 45h b) 45h c) 45h d) 45h	Self-Studies a) 135h b) 135h c) 135h d) 135h	Course Language a) English b) English c) English d) English
2	<p>Module Content</p> <p>a) Multivariate Statistics:</p> <ul style="list-style-type: none"> • Analysis of Variance • Eigenvalues • Principal Component Analysis • Factor Analysis • Discriminant Analysis • Cluster Analysis • Multivariate Testing • Correlation Analysis <p>b) Panel Data Analysis:</p> <ul style="list-style-type: none"> • Static Panel Data Model • Dynamic Panel Data Model • Extensions • Factor Analysis <p>c) Bayesian Econometrics:</p> <ul style="list-style-type: none"> • Basic Principles of Bayesian Econometrics • Bayesian Estimators and Numerical Integration • Importance Sampling and Markov-Chain-Monte-Carlo • Gaussian Linear Regression Model with Conjugate Priors • Gaussian Linear Regression Model with Non-Conjugate Priors • Linear Regression Model with General Error Covariance Matrix • Time Series Models • Models for discrete dependent variables • Students will practice the use of the methods using econometric software to analyse economic data <p>d) Topics in Econometrics and Statistics 5:</p> <ul style="list-style-type: none"> • Recent statistical and econometric methods • Applications in business administration, management studies and economics and social sciences 				
3	<p>Learning Objectives</p> <p>Students...</p> <ul style="list-style-type: none"> ... understand advanced, specialized methods in Statistics and Econometrics. ... analyse current questions and challenges in Statistics and Econometrics. ... analyse data material for selected scientific questions using statistical and econometric methods. ... justify and defend (independently developed) positions or problem solutions. ... discuss scientific topics in a professional manner and appropriate to the situation with specialists. ... use techniques of scientific work and good scientific practice. 				

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4	<p>Teaching and Learning Methods lecture practice</p>
5	<p>Module Entry Requirements Recommendation: CM Econometrics or CM Applied Econometrics (Business Administration) or CM Advanced Econometrics</p>
6	<p>Mode of End-Of-Module Examination Oral examination: OE</p>
7	<p>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.</p>
8	<p>Other Programmes that Use the Module Master of Science Economics: Specialisation Section Economics Supplementary Section Economics Master of Science Economic Research: Supplementary Section Economic Research Master of Science Mathematik: Economics Master of Science Wirtschaftsmathematik: Economics Master of Science Informatik: Anwendungsfeld Master of Science International Management: Supplementary Section International Management Master of Science Business Administration - Finance: Core Section Finance Master of Science Business Analytics & Econometrics: Supplementary Section Business Analytics & Econometrics Master of Science Business Administration - Accounting and Taxation: Core Section Accounting and Taxation 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 - Accounting and Taxation: Supplementary Section Accounting and Taxation Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development</p>
9	<p>Module Manager Dr. Bastian Gribisch</p>
10	<p>Miscellaneous</p>

SpM Market Design and Behaviour I					
Module Code 1289MSMDB1	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Information and Strategy		Contact Hours 45h	Self-Studies 135h	Course Language English
2	Module Content This module introduces students to the economics of information. It deals with strategic decisions in light of asymmetric information and also with the design of information systems. Possible topics include strategic communication, persuasion, reputation or social learning.				
3	Learning Objectives Students... ... understand advanced, specialized theories / methods in the area of information economics. ... assess and discuss findings and research results of specialized theories / methods. ... discuss scientific topics in a professional manner and appropriate to the situation with (non-) specialists. ... present scientific results in a way that is appropriate for the target audience.				
4	Teaching and Learning Methods lecture practice				
5	Module Entry Requirements Recommendation: CM Microeconomics or CM Microeconomics (Business Administration)				
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 Arts Regionalstudien Lateinamerika - Volkswirtschaftslehre: Ergänzungsbereich Economics Master of Arts Regionalstudien China - Volkswirtschaftslehre: Ergänzungsbereich Volkswirtschaftslehre Master of Arts Regionalstudien Ost- und Mitteleuropa - Volkswirtschaftslehre: Ergänzungsbereich Volkswirtschaftslehre Master of Science Geographie: Wahlpflichtfach Management & Social Sciences Master of Science Economics: Specialisation Section Economics Supplementary Section Economics Master of Science Sociology: Social Research: Supplementary Section Sociology and Social Research Master of Science Sociology: Social and Economic Psychology: Supplementary Section Sociology: Social and Economic Psychology Master of Science Economic Research: Supplementary Section Economic Research Master of Science Mathematik: Economics				

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	<p>Master of Science Wirtschaftsmathematik: Economics</p> <p>Master of Science Informatik: Anwendungsfeld</p> <p>Master of Science International Management: Supplementary Section International Management</p> <p>Master of Arts Politikwissenschaft: Supplementary Section Political Science</p> <p>Master of Science Business Administration - Supply Chain Management: Supplementary Section Supply Chain Management</p> <p>Master of Science Business Administration - Marketing: Supplementary Section Marketing</p> <p>Master of Science Business Administration - Finance: Supplementary Section Finance</p> <p>Master of Science Information Systems: Supplementary Section Information Systems</p> <p>Master of Science Business Administration - Accounting and Taxation: Supplementary Section Accounting and Taxation</p> <p>Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development</p>
9	<p>Module Manager Univ.-Prof. Dr. Christoph Schottmüller</p>
10	<p>Miscellaneous</p>

SpM Market Design and Behaviour II						
Module Code 1289MSMDB2		Workload 180h	ECTS Credits 6	Module Language English	Module Availability irregular	Duration 1 Term
1	Courses Economic Engineering			Contact Hours 45h	Self-Studies 135h	Course Language English
2	Module Content <ul style="list-style-type: none"> • Evaluation of the roles of theory and laboratory/field experiments in the development of markets and incentive systems • Analysis of relevant behavioural phenomena and institutional details of particular importance for specific designs • Discussion of practical applications of economic engineering in matching markets, auctions and other markets 					
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 Learning Methods lecture practice					
5	Module Entry Requirements Recommendation: basic knowledge of game theory and experimental economics					
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 Arts Regionalstudien Lateinamerika - Volkswirtschaftslehre: Ergänzungsbereich Economics Master of Arts Regionalstudien China - Volkswirtschaftslehre: Ergänzungsbereich Volkswirtschaftslehre Master of Arts Regionalstudien Ost- und Mitteleuropa - Volkswirtschaftslehre: Ergänzungsbereich Volkswirtschaftslehre Master of Science Geographie: Wahlpflichtfach Management & Social Sciences Master of Science Economics: Specialisation Section Economics Supplementary Section Economics Master of Science Sociology: Social Research: Supplementary Section Sociology and Social Research Master of Science Sociology: Social and Economic Psychology: Supplementary Section Sociology: Social and Economic Psychology Master of Science Mathematik: Economics Master of Science Wirtschaftsmathematik: Economics					

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	<p>Master of Science Informatik: Anwendungsfeld</p> <p>Master of Science International Management: Supplementary Section International Management</p> <p>Master of Arts Politikwissenschaft: Supplementary Section Political Science</p> <p>Master of Science Business Administration - Supply Chain Management: Supplementary Section Supply Chain Management</p> <p>Master of Science Business Administration - Marketing: Supplementary Section Marketing</p> <p>Master of Science Business Administration - Finance: Supplementary Section Finance</p> <p>Master of Science Information Systems: Supplementary Section Information Systems</p> <p>Master of Science Business Administration - Accounting and Taxation: Supplementary Section Accounting and Taxation</p> <p>Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development</p>
9	<p>Module Manager Univ.-Prof. Dr. Axel Ockenfels</p>
10	<p>Miscellaneous</p>

SpM Market Design and Behaviour V					
Module Code 1289MSMDB5	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - summer term	Duration 1 Term
1	Courses Corporate Taxation		Contact Hours 45h	Self-Studies 135h	Course Language English
2	Module Content <ul style="list-style-type: none"> • Tax competition between jurisdictions • Digitisation and Tax Policy • Reform options for corporate taxation • Cash flow based taxation, border adjustments and trade policy • Carbon pricing and border adjustments • Corporate taxation and corporate finance 				
3	Learning Objectives Students... ... understand the implications of the digital transformation of the economy for tax policy. ... can analyse reform options for corporate taxation. ... develop a conceptual framework to think through the interdependencies of corporate taxation, trade policy and environmental policy. ... learn to communicate about policy relevant research to an academic audience. ... learn to communicate about policy relevant research to non-academic audience. ... engage in a discourse about reform options for policy design. ... analyse public policy taking account of ethical, ecological and social concerns. ... assess current tax policy debates and proposed solutions. ... use the techniques of empirical and theoretical research in applied public finance.				
4	Teaching and Learning Methods lecture practice				
5	Module Entry Requirements Recommendation: CM Microeconomics or CM Microeconomics (Business Administration)				
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 Arts Regionalstudien Lateinamerika - Volkswirtschaftslehre: Ergänzungsbereich Economics Master of Arts Regionalstudien China - Volkswirtschaftslehre: Ergänzungsbereich Volkswirtschaftslehre Master of Arts Regionalstudien Ost- und Mitteleuropa - Volkswirtschaftslehre: Ergänzungsbereich Volkswirtschaftslehre Master of Science Geographie: Wahlpflichtfach Management & Social Sciences Master of Science Economics: Specialisation Section Economics				

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	<p>Supplementary Section Economics</p> <p>Master of Science Economic Research: Supplementary Section Economic Research</p> <p>Master of Science Mathematik: Economics</p> <p>Master of Science Wirtschaftsmathematik: Economics</p> <p>Master of Science Informatik: Anwendungsfeld</p> <p>Master of Science International Management: Supplementary Section International Management</p> <p>Master of Science Business Administration - Supply Chain Management: Supplementary Section Supply Chain Management</p> <p>Master of Science Business Administration - Marketing: Supplementary Section Marketing</p> <p>Master of Science Business Administration - Finance: Supplementary Section Finance</p> <p>Master of Science Information Systems: Supplementary Section Information Systems</p> <p>Master of Science Business Administration - Accounting and Taxation: Supplementary Section Accounting and Taxation</p> <p>Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development</p>
9	<p>Module Manager Univ.-Prof. Dr. Felix Bierbrauer</p>
10	<p>Miscellaneous</p>

SpM Markets and Economic Policy I					
Module Code 1302MSMEP1	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - summer term	Duration 1 Term
1	Courses Growth, Inequality and Structural Change		Contact Hours 45h	Self-Studies 135h	Course Language English
2	Module Content <ul style="list-style-type: none"> • 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	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 Learning Methods lecture practice				
5	Module Entry Requirements Recommendation: CM Macroeconomics or CM Advanced Macroeconomics I				
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 Arts Regionalstudien Lateinamerika - Volkswirtschaftslehre: Ergänzungsbereich Economics Master of Arts Regionalstudien China - Volkswirtschaftslehre: Ergänzungsbereich Volkswirtschaftslehre Master of Arts Regionalstudien Ost- und Mitteleuropa - Volkswirtschaftslehre: Ergänzungsbereich Volkswirtschaftslehre Master of Science Geographie: Wahlpflichtfach Management & Social Sciences Master of Science Economics: Specialisation Section Economics Supplementary Section Economics Master of Science Economic Research: Supplementary Section Economic Research Master of Science Mathematik: Economics Master of Science Wirtschaftsmathematik:				

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	<p>Economics</p> <p>Master of Science Informatik: Anwendungsfeld</p> <p>Master of Science International Management: Supplementary Section International Management</p> <p>Master of Science Business Administration - Supply Chain Management: Supplementary Section Supply Chain Management</p> <p>Master of Science Business Administration - Marketing: Supplementary Section Marketing</p> <p>Master of Science Business Administration - Finance: Supplementary Section Finance</p> <p>Master of Science Information Systems: Supplementary Section Information Systems</p> <p>Master of Science Business Administration - Accounting and Taxation: Supplementary Section Accounting and Taxation</p> <p>Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development</p>
9	<p>Module Manager Univ.-Prof. Dr. Peter Funk</p>
10	<p>Miscellaneous</p>

SpM Markets and Economic Policy II					
Module Code 1302MSMEP2	Workload 180h	ECTS Credits 6	Module Language English	Module Availability irregular	Duration 1 Term
1	Courses Money and Financial Markets		Contact Hours 45h	Self-Studies 135h	Course Language English
2	Module Content <ul style="list-style-type: none"> • Empirical Evidence on monetary policy effects • Transaction frictions and money demand • Financial intermediation, banks, and liquidity • Monetary policy and banking • Financial contracts • Financial acceleration • Unconventional monetary policy and interbank markets 				
3	Learning Objectives Students... ... understand advanced, specialized theories / methods in the area of monetary theory, policy and financial markets. ... analyse current questions and challenges in the area of monetary theory, policy and financial markets. ... 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 Learning Methods lecture practice				
5	Module Entry Requirements Recommendation: CM Macroeconomics or CM Advanced Macroeconomics				
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 Arts Regionalstudien Lateinamerika - Volkswirtschaftslehre: Ergänzungsbereich Economics Master of Arts Regionalstudien China - Volkswirtschaftslehre: Ergänzungsbereich Volkswirtschaftslehre Master of Arts Regionalstudien Ost- und Mitteleuropa - Volkswirtschaftslehre: Ergänzungsbereich Volkswirtschaftslehre Master of Science Geographie: Wahlpflichtfach Management & Social Sciences Master of Science Economics: Specialisation Section Economics Supplementary Section Economics Master of Science Sociology: Social Research: Supplementary Section Sociology and Social Research Master of Science Sociology: Social and Economic Psychology: Supplementary Section Sociology: Social and Economic Psychology				

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	<p>Master of Science Economic Research: Supplementary Section Economic Research</p> <p>Master of Science Mathematik: Economics</p> <p>Master of Science Wirtschaftsmathematik: Economics</p> <p>Master of Science Informatik: Anwendungsfeld</p> <p>Master of Science International Management: Supplementary Section International Management</p> <p>Master of Science Business Administration - Finance: Core Section Finance</p> <p>Master of Arts Politikwissenschaft: Supplementary Section Political Science</p> <p>Master of Science Business Administration - Supply Chain Management: Supplementary Section Supply Chain Management</p> <p>Master of Science Business Administration - Marketing: Supplementary Section Marketing</p> <p>Master of Science Business Administration - Finance: Supplementary Section Finance</p> <p>Master of Science Information Systems: Supplementary Section Information Systems</p> <p>Master of Science Business Administration - Accounting and Taxation: Supplementary Section Accounting and Taxation</p> <p>Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development</p>
9	<p>Module Manager Univ.-Prof. Dr. Andreas Schabert</p>
10	<p>Miscellaneous</p>

SpM Markets and Economic Policy III					
Module Code 1302MSMEP3	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Development Economics		Contact Hours 45h	Self-Studies 135h	Course Language English
2	Module Content <ul style="list-style-type: none"> • 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	Learning Objectives Students... <ul style="list-style-type: none"> ... 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 potentials. 				
4	Teaching and Learning Methods lecture practice				
5	Module Entry Requirements Recommendation: CM Econometrics or CM Applied Econometrics (Business Administration)				
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 <ul style="list-style-type: none"> Master of Arts Regionalstudien Lateinamerika - Volkswirtschaftslehre: <ul style="list-style-type: none"> Ergänzungsbereich Economics Master of Arts Regionalstudien China - Volkswirtschaftslehre: <ul style="list-style-type: none"> Ergänzungsbereich Volkswirtschaftslehre Master of Arts Regionalstudien Ost- und Mitteleuropa - Volkswirtschaftslehre: <ul style="list-style-type: none"> Ergänzungsbereich Volkswirtschaftslehre Master of Science Geographie: <ul style="list-style-type: none"> Wahlpflichtfach Management & Social Sciences Master of Science Economics: <ul style="list-style-type: none"> Specialisation Section Economics Supplementary Section Economics Master of Science Sociology: Social Research: <ul style="list-style-type: none"> Supplementary Section Sociology and Social Research Master of Science Sociology: Social and Economic Psychology: <ul style="list-style-type: none"> Supplementary Section Sociology: Social and Economic Psychology Master of Science Economic Research: <ul style="list-style-type: none"> Supplementary Section Economic Research 				

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	<p>Master of Science Mathematik: Economics</p> <p>Master of Science Wirtschaftsmathematik: Economics</p> <p>Master of Science Informatik: Anwendungsfeld</p> <p>Master of Science International Management: Supplementary Section International Management</p> <p>Master of Arts Politikwissenschaft: Supplementary Section Political Science</p> <p>Master of Science Business Administration - Supply Chain Management: Supplementary Section Supply Chain Management</p> <p>Master of Science Business Administration - Marketing: Supplementary Section Marketing</p> <p>Master of Science Business Administration - Finance: Supplementary Section Finance</p> <p>Master of Science Information Systems: Supplementary Section Information Systems</p> <p>Master of Science Business Administration - Accounting and Taxation: Supplementary Section Accounting and Taxation</p> <p>Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development</p>
9	<p>Module Manager Univ.-Prof. Dr. Erik Hornung</p>
10	<p>Miscellaneous</p>

SpM Markets and Economic Policy IV					
Module Code 1302MSMEP4	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - summer term	Duration 1 Term
1	Courses Macroeconomics of the Labour Market		Contact Hours 45h	Self-Studies 135h	Course Language English
2	Module Content <ul style="list-style-type: none"> • 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	Learning Objectives Students... ... 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-) specialists. ... critically evaluate current social developments and develop alternative solutions.				
4	Teaching and Learning Methods lecture practice				
5	Module Entry Requirements Recommendation: CM Macroeconomics or CM Advanced Macroeconomics; CM Microeconomics or 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	Other Programmes that Use the Module Master of Arts Regionalstudien Lateinamerika - Volkswirtschaftslehre: Ergänzungsbereich Economics Master of Arts Regionalstudien China - Volkswirtschaftslehre: Ergänzungsbereich Volkswirtschaftslehre Master of Arts Regionalstudien Ost- und Mitteleuropa - Volkswirtschaftslehre: Ergänzungsbereich Volkswirtschaftslehre Master of Science Geographie: Wahlpflichtfach Management & Social Sciences Master of Science Economics: Specialisation Section Economics Supplementary Section Economics Master of Science Sociology: Social Research: Supplementary Section Sociology and Social Research				

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	<p>Master of Science Sociology: Social and Economic Psychology: Supplementary Section Sociology: Social and Economic Psychology</p> <p>Master of Science Economic Research: Supplementary Section Economic Research</p> <p>Master of Science Mathematik: Economics</p> <p>Master of Science Wirtschaftsmathematik: Economics</p> <p>Master of Science Informatik: Anwendungsfeld</p> <p>Master of Science International Management: Supplementary Section International Management</p> <p>Master of Arts Politikwissenschaft: Supplementary Section Political Science</p> <p>Master of Science Business Administration - Supply Chain Management: Supplementary Section Supply Chain Management</p> <p>Master of Science Business Administration - Marketing: Supplementary Section Marketing</p> <p>Master of Science Business Administration - Finance: Supplementary Section Finance</p> <p>Master of Science Information Systems: Supplementary Section Information Systems</p> <p>Master of Science Business Administration - Accounting and Taxation: Supplementary Section Accounting and Taxation</p> <p>Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development</p>
9	<p>Module Manager Univ.-Prof. Michael Krause, Ph.D.</p>
10	<p>Miscellaneous</p>

SuM Energy and Climate Change I					
Module Code 1289MEECC1	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Energy Markets and Regulation		Contact Hours 45h	Self-Studies 135h	Course Language English
2	Module Content <ul style="list-style-type: none"> • 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 Economics: Supplementary Section Economics Master of Science Sociology: Social Research: Supplementary Section Sociology and Social Research Master of Science Sociology: Social and Economic Psychology: Supplementary Section Sociology: Social and Economic Psychology Master of Science Economic Research: Supplementary Section Economic Research Master of Science International Management: Supplementary Section International Management Master of Arts Politikwissenschaft: Supplementary Section Political Science 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:				

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	<p>Supplementary Section Finance</p> <p>Master of Science Information Systems: Supplementary Section Information Systems</p> <p>Master of Science Business Administration - Accounting and Taxation: Supplementary Section Accounting and Taxation</p> <p>Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development</p>
9	<p>Module Manager</p> <p>Univ.-Prof. Dr. Marc Oliver Bettzüge</p>
10	<p>Miscellaneous</p>

SuM Energy and Climate Change II					
Module Code 1289MEECC2	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - summer term	Duration 1 Term
1	Courses Growth, Energy, Climate Change		Contact Hours 60h	Self-Studies 120h	Course Language English
2	Module Content This module sheds light on the interrelation between energy use, economic growth, and environmental impacts like climate change. It starts with an introduction on natural science foundations, especially the laws of thermodynamics and their relevance for economics. On this basis, the course covers resource economics, capital theory, the role of energy in production and economic growth, and selected issues in climate policy.				
3	Learning Objectives Students... ... understand advanced, specialized theories / methods in the area of energy economics. ... analyse current questions and challenges in the area of energy economics. ... communicate continuously and purposefully in diverse teams. ... act responsibly considering ecological, social and ethical criteria.				
4	Teaching and Learning Methods lecture practice				
5	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 Economics: Supplementary Section Economics Master of Science Sociology: Social Research: Supplementary Section Sociology and Social Research Master of Science Sociology: Social and Economic Psychology: Supplementary Section Sociology: Social and Economic Psychology Master of Science Economic Research: Supplementary Section Economic Research Master of Science International Management: Supplementary Section International Management International Master of Environmental Sciences: Environmental Economics Master of Arts Politikwissenschaft: Supplementary Section Political Science Master of Science Business Administration - Supply Chain Management: Supplementary Section Supply Chain Management Master of Science Business Administration - Marketing:				

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	<p>Supplementary Section Marketing</p> <p>Master of Science Business Administration - Finance: Supplementary Section Finance</p> <p>Master of Science Information Systems: Supplementary Section Information Systems</p> <p>Master of Science Business Administration - Accounting and Taxation: Supplementary Section Accounting and Taxation</p> <p>Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development</p>
9	<p>Module Manager PD Dr. Dietmar Lindenberger</p>
10	<p>Miscellaneous</p>

SuM Energy and Climate Change III						
Module Code 1289MEECC3		Workload 180h	ECTS Credits 6	Module Language English	Module Availability irregular	Duration 1 Term
1	Courses Quantitative Methods in Energy Economics			Contact Hours 30h	Self-Studies 150h	Course Language English
2	Module Content <ul style="list-style-type: none"> • Numerical approaches to energy market modelling • Optimisation problems in energy economics • Empirical methods in energy economics 					
3	Learning Objectives Students... ... learn how to apply quantitative methods for analysing problems in energy economics. ... collect and analyse data material for selected scientific questions using quantitative / qualitative methods. ... write an academic paper on a selected topic and achieve thereby their own scientific contribution. ... present scientific results in a way that is appropriate for the target audience. ... use techniques of scientific work and good scientific practice.					
4	Teaching and Learning Methods seminar					
5	Module Entry Requirements Recommendation: SuM Energy and Climate Change I					
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 Economics: Supplementary Section Economics Master of Science Sociology: Social Research: Supplementary Section Sociology and Social Research Master of Science Sociology: Social and Economic Psychology: Supplementary Section Sociology: Social and Economic Psychology Master of Science Economic Research: Supplementary Section Economic Research Master of Science International Management: Supplementary Section International Management Master of Arts Politikwissenschaft: Supplementary Section Political Science 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 - Accounting and Taxation:					

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	Supplementary Section Accounting and Taxation Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development
9	Module Manager Univ.-Prof. Dr. Marc Oliver Bettzüge
10	Miscellaneous

SuM Energy and Climate Change IV					
Module Code 1289MEECC4	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - summer term	Duration 1 Term
1	Courses Model UNFCCC - Climate Change Strategy		Contact Hours 45h	Self-Studies 135h	Course Language English
2	Module Content <ul style="list-style-type: none"> • 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 Economics: Supplementary Section Economics Master of Science Sociology: Social Research: Supplementary Section Sociology and Social Research Master of Science Sociology: Social and Economic Psychology: Supplementary Section Sociology: Social and Economic Psychology Master of Science Economic Research: Supplementary Section Economic Research Master of Science International Management: Supplementary Section International Management Master of Arts Politikwissenschaft: Supplementary Section Political Science Master of Science Business Administration - Supply Chain Management: Supplementary Section Supply Chain Management Master of Science Business Administration - Marketing: Supplementary Section Marketing				

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	<p>Master of Science Business Administration - Finance: Supplementary Section Finance</p> <p>Master of Science Information Systems: Supplementary Section Information Systems</p> <p>Master of Science Business Administration - Accounting and Taxation: Supplementary Section Accounting and Taxation</p> <p>Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development</p>
9	<p>Module Manager Univ.-Prof. Dr. Marc Oliver Bettzüge</p>
10	<p>Miscellaneous</p>

CM Macroeconomics						
Module Code 1302MBMAC1		Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Macroeconomics			Contact Hours 60h	Self-Studies 120h	Course Language English
2	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 sustainable, whether they coincide with outcomes that are optimal from society's perspective, and whether economic policy can help achieve socially desirable outcomes. The course also introduces methods 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 Learning Methods lecture practice					
5	Module Entry Requirements Recommendation: Microeconomics, Macroeconomics and Bachelor Level Mathematics					
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 Arts Regionalstudien Lateinamerika - Volkswirtschaftslehre: Ergänzungsbereich Economics Master of Arts Regionalstudien China - Volkswirtschaftslehre: Ergänzungsbereich Volkswirtschaftslehre Master of Arts Regionalstudien Ost- und Mitteleuropa - Volkswirtschaftslehre: Ergänzungsbereich Volkswirtschaftslehre Master of Science Geographie: Wahlpflichtfach Management & Social Sciences Master of Science Economics: Core Section Economics Master of Science Sociology: Social Research: Supplementary Section Sociology and Social Research Master of Science Sociology: Social and Economic Psychology: Supplementary Section Sociology: Social and Economic Psychology Master of Science Mathematik:					

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	<p>Economics Master of Science Wirtschaftsmathematik: Economics Master of Science Informatik: Anwendungsfeld Master of Science International Management: Supplementary Section International Management Master of Arts Politikwissenschaft: Supplementary Section Political Science 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 - Accounting and Taxation: Supplementary Section Accounting and Taxation Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development</p>
9	<p>Module Manager Univ.-Prof. Michael Krause, Ph.D.</p>
10	<p>Miscellaneous</p>

CM Selected Methods in Economics					
Module Code 1289MBEXE1	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - summer term	Duration 1 Term
1	Courses Experimental Methods		Contact Hours 60h	Self-Studies 120h	Course Language English
2	Module Content <ul style="list-style-type: none"> • Experimental Methods in economics • Experimental designs • Analysing experimental data 				
3	Learning Objectives Students... <ul style="list-style-type: none"> ... 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	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 <ul style="list-style-type: none"> Master of Science Business Administration - Marketing: <ul style="list-style-type: none"> Core Section Marketing Master of Science Sociology: Social Research: <ul style="list-style-type: none"> Supplementary Section Sociology and Social Research Master of Science Sociology: Social and Economic Psychology: <ul style="list-style-type: none"> Supplementary Section Sociology: Social and Economic Psychology Master of Science International Management: <ul style="list-style-type: none"> Supplementary Section International Management Master of Arts Politikwissenschaft: <ul style="list-style-type: none"> Supplementary Section Political Science Master of Science Business Administration - Corporate Development: <ul style="list-style-type: none"> Core Section Corporate Development Master of Science Business Administration - Supply Chain Management: <ul style="list-style-type: none"> Supplementary Section Supply Chain Management Master of Science Business Administration - Marketing: <ul style="list-style-type: none"> Supplementary Section Marketing 				

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	<p>Master of Science Business Administration - Finance: Supplementary Section Finance</p> <p>Master of Science Information Systems: Supplementary Section Information Systems</p> <p>Master of Science Business Administration - Accounting and Taxation: Supplementary Section Accounting and Taxation</p> <p>Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development</p>
9	<p>Module Manager Prof. Christopher Roth</p>
10	<p>Miscellaneous</p>

SpM Media Economics					
Module Code 1289MSMEC1	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Media Economics		Contact Hours 60h	Self-Studies 120h	Course Language English
2	Module Content <ul style="list-style-type: none"> • Characteristics of media markets • Cost and revenue structures on media markets • Digital transformation of media markets • Political economy of media markets 				
3	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 Learning Methods lecture practice				
5	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 Sociology: Social Research: Supplementary Section Sociology and Social Research Master of Science Sociology: Social and Economic Psychology: Supplementary Section Sociology: Social and Economic Psychology Master of Arts Medienwissenschaft: Ergänzungsbereich Medienmanagement und Medienökonomie 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: Ergänzungsbereich Wirtschaftspädagogik Master of Arts Politikwissenschaft: Supplementary Section Political Science Master of Science Business Administration - Supply Chain Management: Supplementary Section Supply Chain Management Master of Science Business Administration - Marketing: Supplementary Section Marketing				

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	Master of Science Business Administration - Accounting and Taxation: Supplementary Section Accounting and Taxation Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development
9	Module Manager Univ.-Prof. Dr. Johannes Münster
10	Miscellaneous

CM Applied Econometrics (Business Administration)					
Module Code 1289MBAEC1	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Applied Econometrics (Master Business Administration)		Contact Hours 60h	Self-Studies 120h	Course Language English
2	Module Content <ul style="list-style-type: none"> • Statistical Foundations and Testing • Experiments and RCTs • Regression (OLS, dummy variables, omitted variable bias, nonlinear models, binary dependent variables) • Instrumental Variables • Regression Discontinuity • Panel data (Fixed effects, differences-in-differences) 				
3	Learning Objectives Students... ... understand advanced, specialized theories / methods in the area of labour markets. ... 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. ... discuss scientific topics in a professional manner and appropriate to the situation with (non-) specialists. ... develop work processes for real problems and challenges. ... use techniques of scientific work and good scientific practice.				
4	Teaching and Learning Methods lecture practice				
5	Module Entry Requirements Recommendation: Knowledge of basic econometrics and statistics, basic knowledge of R				
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 - Marketing: Core Section Marketing Master of Science Sociology: Social Research: Supplementary Section Sociology and Social Research Master of Science Sociology: Social and Economic Psychology: Supplementary Section Sociology: Social and Economic Psychology Master of Science International Management: Supplementary Section International Management Master of Science Business Administration - Finance: Core Section Finance Master of Arts Politikwissenschaft:				

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	<p>Supplementary Section Political Science</p> <p>Master of Science Business Administration - Accounting and Taxation: Core Section Accounting and Taxation</p> <p>Master of Science Business Administration - Corporate Development: Core Section Corporate Development</p> <p>Master of Science Business Administration - Supply Chain Management: Supplementary Section Supply Chain Management</p> <p>Master of Science Business Administration - Marketing: Supplementary Section Marketing</p> <p>Master of Science Business Administration - Finance: Supplementary Section Finance</p> <p>Master of Science Information Systems: Supplementary Section Information Systems</p> <p>Master of Science Business Administration - Accounting and Taxation: Supplementary Section Accounting and Taxation</p> <p>Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development</p>
9	<p>Module Manager Univ.-Prof. Dr. Pia Pinger</p>
10	<p>Miscellaneous</p>

CM Microeconomics (Business Administration)					
Module Code	Workload	ECTS Credits	Module Language	Module Availability	Duration
1289MBMBA1	180h	6	English	every 2nd term - winter term	1 Term
1	Courses Microeconomics: Game Theory		Contact Hours 60h	Self-Studies 120h	Course Language English
2	Module Content <ul style="list-style-type: none"> • 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 Learning Methods lecture 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 - Marketing: Core Section Marketing Master of Science Geographie: Wahlpflichtfach Management & Social Sciences Master of Science Sociology: Social Research: Supplementary Section Sociology and Social Research Master of Science Sociology: Social and Economic Psychology: Supplementary Section Sociology: Social and Economic Psychology Master of Science International Management: Supplementary Section International Management Master of Arts Politikwissenschaft: Supplementary Section Political Science				

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	<p>Master of Science Business Administration - Accounting and Taxation: Core Section Accounting and Taxation</p> <p>Master of Science Business Administration - Corporate Development: Core Section Corporate Development</p> <p>Master of Science Business Administration - Supply Chain Management: Supplementary Section Supply Chain Management</p> <p>Master of Science Business Administration - Marketing: Supplementary Section Marketing</p> <p>Master of Science Business Administration - Finance: Supplementary Section Finance</p> <p>Master of Science Information Systems: Supplementary Section Information Systems</p> <p>Master of Science Business Administration - Accounting and Taxation: Supplementary Section Accounting and Taxation</p> <p>Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development</p>
9	<p>Module Manager Univ.-Prof. Dr. Bettina Rockenbach</p>
10	<p>Miscellaneous</p>

CM Mathematics					
Module Code 1314MBMAT1	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Mathematics for Economists		Contact Hours 60h	Self-Studies 120h	Course Language English
2	Module Content <ul style="list-style-type: none"> • Systems of linear equations, fundamentals of linear algebra, determinants, eigenvalues and eigenvectors • Optimisation of functions of several variables • Difference and differential equations • Systems of difference and differential equations 				
3	Learning Objectives Students... ... understand advanced, specialized theories / methods. ... analyse current questions and challenges. ... communicate continuously and purposefully in diverse teams. ... evaluate their own action processes in self- and external reflection and identify development potentials.				
4	Teaching and Learning Methods lecture practice				
5	Module Entry Requirements Recommendation: Knowledge of mathematics for economists on bachelor level				
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 Economics: Core Section Economics Master of Science Sociology: Social Research: Supplementary Section Sociology and Social Research Master of Science Sociology: Social and Economic Psychology: Supplementary Section Sociology: Social and Economic Psychology Master of Science International Management: Supplementary Section International Management Master of Arts Politikwissenschaft: Supplementary Section Political Science 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:				

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	Supplementary Section Information Systems Master of Science Business Administration - Accounting and Taxation: Supplementary Section Accounting and Taxation Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development
9	Module Manager Prof. Dr. Rainer Dyckerhoff
10	Miscellaneous

SuM Media and Technology Management - Enterprises, Markets, and Strategies					
Module Code 1284MEEMS1	Workload 180h	ECTS Credits 6	Module Language German and English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Media and Technology Management: Enterprises, Markets, and Strategies		Contact Hours 30h	Self-Studies 150h	Course Language German and English
2	Module Content <ul style="list-style-type: none"> • 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	Learning Objectives Students... ... understand advanced, specialized theories / methods in the area of Media and Technology Management. ... analyse current questions and challenges in the area of Media and Technology Management. ... assess and discuss findings and research results of specialized theories / methods.				
4	Teaching and Learning Methods lecture Colloquium				
5	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 Economics: Supplementary Section Management & Social Sciences Master of Science Sociology: Social Research: Supplementary Section Sociology and Social Research Master of Science Sociology: Social and Economic Psychology: Supplementary Section Sociology: Social and Economic Psychology Master of Arts Medienwissenschaft: Ergänzungsbereich Medienmanagement und Medienökonomie Master of Science Business Administration - Finance: Supplementary Section Finance Master of Science Information Systems: Supplementary Section Information Systems				

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	Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs: Ergänzungsbereich Wirtschaftspädagogik
9	Module Manager Univ.-Prof. Dr. Claudia Loebbecke, M.B.A.
10	Miscellaneous

SuM Media and Technology Management - Selected Issues I					
Module Code 1284MEMTM1	Workload 180h	ECTS Credits 6	Module Language German and English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Selected Media and Technology Issues		Contact Hours 30h	Self-Studies 150h	Course Language German and English
2	Module Content Varying topics				
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 seminar Colloquium				
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 Economics: Supplementary Section Management & Social Sciences Master of Science Sociology: Social Research: Supplementary Section Sociology and Social Research Master of Science Sociology: Social and Economic Psychology: Supplementary Section Sociology: Social and Economic Psychology Master of Arts Medienwissenschaft: Ergänzungsbereich Medienmanagement und Medienökonomie 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: Ergänzungsbereich Wirtschaftspädagogik				
9	Module Manager Univ.-Prof. Dr.' Claudia Loebbecke, M.B.A.				
10	Miscellaneous				

SuM Media and Technology Management - Selected Issues II					
Module Code 1284MEMTM2	Workload 180h	ECTS Credits 6	Module Language German and English	Module Availability irregular	Duration 1 Term
1	Courses Selected Media and Technology Issues		Contact Hours 30h	Self-Studies 150h	Course Language German and English
2	Module Content Varying topics				
3	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 Learning Methods seminar Colloquium				
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 Economics: Supplementary Section Management & Social Sciences Master of Science Sociology: Social Research: Supplementary Section Sociology and Social Research Master of Science Sociology: Social and Economic Psychology: Supplementary Section Sociology: Social and Economic Psychology Master of Arts Medienwissenschaft: Ergänzungsbereich Medienmanagement und Medienökonomie 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: Ergänzungsbereich Wirtschaftspädagogik				
9	Module Manager Univ.-Prof. Dr. Claudia Loebbecke, M.B.A.				
10	Miscellaneous				

SpM Media Economics					
Module Code 1289MSMEC1	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Media Economics		Contact Hours 60h	Self-Studies 120h	Course Language English
2	Module Content <ul style="list-style-type: none"> • Characteristics of media markets • Cost and revenue structures on media markets • Digital transformation of media markets • Political economy of media markets 				
3	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 Learning Methods lecture practice				
5	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 Sociology: Social Research: Supplementary Section Sociology and Social Research Master of Science Sociology: Social and Economic Psychology: Supplementary Section Sociology: Social and Economic Psychology Master of Arts Medienwissenschaft: Ergänzungsbereich Medienmanagement und Medienökonomie 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: Ergänzungsbereich Wirtschaftspädagogik Master of Arts Politikwissenschaft: Supplementary Section Political Science Master of Science Business Administration - Supply Chain Management: Supplementary Section Supply Chain Management Master of Science Business Administration - Marketing: Supplementary Section Marketing				

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	Master of Science Business Administration - Accounting and Taxation: Supplementary Section Accounting and Taxation Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development
9	Module Manager Univ.-Prof. Dr. Johannes Münster
10	Miscellaneous

SuM Media and Technology Management - Research and Publications					
Module Code 1284MEMRP1	Workload 180h	ECTS Credits 6	Module Language English	Module Availability irregular	Duration 1 Term
1	Courses Media and Technology Management: Research and Publications		Contact Hours 30h	Self-Studies 150h	Course Language English
2	Module Content 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-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 Economics: Supplementary Section Management & Social Sciences Master of Science Sociology: Social Research: Supplementary Section Sociology and Social Research Master of Science Sociology: Social and Economic Psychology: Supplementary Section Sociology: Social and Economic Psychology Master of Arts Medienwissenschaft: Ergänzungsbereich Medienmanagement und Medienökonomie 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: Ergänzungsbereich Wirtschaftspädagogik				
9	Module Manager Univ.-Prof. Dr.' Claudia Loebbecke, M.B.A.				

10	Miscellaneous See www.mtm.uni-koeln.de
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SpM Seminar Media Economics					
Module Code 1289MSSMC1	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Seminar Media Economics		Contact Hours 30h	Self-Studies 150h	Course Language English
2	Module Content Topics in media economics				
3	Learning Objectives Students... ... analyse current questions and challenges. ... assess and discuss findings and research results of specialized theories / methods. ... collect, systematize and synthesize independently literature on selected scientific questions. ... discuss scientific topics in a professional manner and appropriate to the situation with (non-) specialists. ... critically evaluate current social developments and develop alternative solutions.				
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 Arts Medienwissenschaft: Ergänzungsbereich Medienmanagement und Medienökonomie 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: Ergänzungsbereich Wirtschaftspädagogik Master of Arts Politikwissenschaft: Supplementary Section Political Science				
9	Module Manager Univ.-Prof. Dr. Johannes Münster				
10	Miscellaneous				

CM Comparative Political Institutions					
Module Code 1335MBCP1	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Comparative Political Institutions		Contact Hours 30h	Self-Studies 150h	Course Language English
2	Module Content <ul style="list-style-type: none"> • Institutionalism and neoinstitutionalism • Veto player and veto point theory • Theory of structure-induced equilibria • Problem areas: aggregation of individual preferences, coordination of individual decisions, collective action, delegation relationships and risk of "agency loss" • Time consistency and commitments • Endogeneity of institutions and institutional reform • Empirical findings of conventional international comparative studies 				
3	Learning Objectives Students... ... understand advanced, specialised theories / methods. ... assess and discuss findings and research results of specialised 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 Learning Methods lecture				
5	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 Geographie: Wahlpflichtfach Management & Social Sciences Master of Science Economics: Supplementary Section Management & Social Sciences Master of Science Sociology: Social Research: Supplementary Section Sociology and Social Research Master of Science Sociology: Social and Economic Psychology: Supplementary Section Sociology: Social and Economic Psychology Master of Arts Regionalstudien Lateinamerika - Sozialwissenschaften: Ergänzung Sozialwissenschaften Master of Arts Regionalstudien Ost- und Mitteleuropa - Sozialwissenschaften: Ergänzungsbereich Sozialwissenschaften Master of Science Economic Research: Supplementary Section Economic Research Master of Science International Management:				

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	<p>Supplementary Section International Management</p> <p>Master of Science Business Administration - Finance: Supplementary Section Finance</p> <p>Master of Science Information Systems: Supplementary Section Information Systems</p> <p>Master of Arts Regionalstudien China - Sozialwissenschaften: Ergänzungsbereich Sozialwissenschaften</p> <p>Master of Arts Politikwissenschaft: Core Section Political Science</p>
9	<p>Module Manager Univ.-Prof. Dr. André Kaiser</p>
10	<p>Miscellaneous</p>

CM Comparative Political Economy					
Module Code 1335MBCPE1	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - summer term	Duration 1 Term
1	Courses Comparative Political Economy		Contact Hours 30h	Self-Studies 150h	Course Language English
2	Module Content <ul style="list-style-type: none"> • Approaches used in political economy and comparative research into government activity • International comparison of the political economy of markets • International comparison of political and institutional change in various areas • Specific research methods in comparative political economy 				
3	Learning Objectives Students... ... understand advanced, specialised theories / methods. ... assess and discuss findings and research results of specialised 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 Learning Methods lecture				
5	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 Geographie: Wahlpflichtfach Management & Social Sciences Master of Science Economics: Supplementary Section Management & Social Sciences Master of Science Sociology: Social Research: Supplementary Section Sociology and Social Research Master of Science Sociology: Social and Economic Psychology: Supplementary Section Sociology: Social and Economic Psychology Master of Arts Regionalstudien Lateinamerika - Sozialwissenschaften: Ergänzung Sozialwissenschaften Master of Arts Regionalstudien Ost- und Mitteleuropa - Sozialwissenschaften: Ergänzungsbereich Sozialwissenschaften Master of Science Economic Research: Supplementary Section Economic Research Master of Science International Management: Supplementary Section International Management Master of Science Business Administration - Finance: Supplementary Section Finance				

INFORMATION SYSTEMS - MASTER OF SCIENCE

valid for students of the ER 2021 (enrolment from winter semester 2021/22)

	<p>Master of Science Information Systems: Supplementary Section Information Systems</p> <p>Master of Arts Regionalstudien China - Sozialwissenschaften: Ergänzungsbereich Sozialwissenschaften</p> <p>Master of Arts Politikwissenschaft: Core Section Political Science</p>
9	<p>Module Manager Univ.-Prof. Dr.' Christine Trampusch</p>
10	<p>Miscellaneous</p>

CM Democratic Theory and Practice					
Module Code 1335MBDTP1	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Democratic Theory and Practice		Contact Hours 30h	Self-Studies 150h	Course Language English
2	Module Content <ul style="list-style-type: none"> • Survey of classical and contemporary democratic theory • Conceptualizing, justifying and critiquing the democratic ideal • Assessing real-world challenges to the democratic ideal, e.g. inequality, multiculturalism, globalization • Evaluating and comparing the performance of democracies and non-democracies 				
3	Learning Objectives Students... ... understand advanced, specialized theories / methods. ... 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 Learning Methods lecture				
5	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 Economics: Supplementary Section Management & Social Sciences Master of Science Sociology: Social Research: Supplementary Section Sociology and Social Research Master of Science Sociology: Social and Economic Psychology: Supplementary Section Sociology: Social and Economic Psychology Master of Arts Regionalstudien Lateinamerika - Sozialwissenschaften: Ergänzung Sozialwissenschaften Master of Arts Regionalstudien Ost- und Mitteleuropa - Sozialwissenschaften: Ergänzungsbereich Sozialwissenschaften Master of Science Economic Research: Supplementary Section Economic Research 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				

INFORMATION SYSTEMS - MASTER OF SCIENCE

valid for students of the ER 2021 (enrolment from winter semester 2021/22)

	<p>Master of Arts Regionalstudien China - Sozialwissenschaften: Ergänzungsbereich Sozialwissenschaften</p> <p>Master of Arts Politikwissenschaft: Core Section Political Science</p> <p>Master of Science Geographie: Wahlpflichtfach Management & Social Sciences</p>
9	<p>Module Manager Jun.-Prof.' Chitrlekha Basu, Ph.D</p>
10	<p>Miscellaneous</p>

CM International Relations					
Module Code 1335MBIRE1	Workload 180h	ECTS Credits 6	Module Language German and English	Module Availability every 2nd term - summer term	Duration 1 Term
1	Courses International Relations		Contact Hours 30h	Self-Studies 150h	Course Language German and English
2	Module Content <ul style="list-style-type: none"> • International Politics • Foreign Policy • Transnational Politics • Peace and conflict studies • Security Policy • Information and Communication • Multi-level analysis 				
3	Learning Objectives Students... ... understand advanced, specialised theories / methods. ... assess and discuss findings and research results of specialised 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 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 Geographie: Wahlpflichtfach Management & Social Sciences Master of Science Economics: Supplementary Section Management & Social Sciences Master of Science Sociology: Social Research: Supplementary Section Sociology and Social Research Master of Science Sociology: Social and Economic Psychology: Supplementary Section Sociology: Social and Economic Psychology Master of Arts Regionalstudien Lateinamerika - Sozialwissenschaften: Ergänzung Sozialwissenschaften Master of Arts Regionalstudien Ost- und Mitteleuropa - Sozialwissenschaften: Ergänzungsbereich Sozialwissenschaften Master of Science Economic Research: Supplementary Section Economic Research Master of Science International Management:				

INFORMATION SYSTEMS - MASTER OF SCIENCE

valid for students of the ER 2021 (enrolment from winter semester 2021/22)

	<p>Supplementary Section International Management</p> <p>Master of Science Business Administration - Finance: Supplementary Section Finance</p> <p>Master of Science Information Systems: Supplementary Section Information Systems</p> <p>Master of Arts Regionalstudien China - Sozialwissenschaften: Ergänzungsbereich Sozialwissenschaften</p> <p>Master of Arts Politikwissenschaft: Core Section Political Science</p>
9	<p>Module Manager Univ.-Prof. Dr. Thomas Jäger</p>
10	<p>Miscellaneous</p>

CM European Politics					
Module Code 1335MBCED1	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses European Politics		Contact Hours 30h	Self-Studies 150h	Course Language English
2	Module Content <ul style="list-style-type: none"> • Analytical models of European politics • Functioning of democracy in European nation states and in the European Union • Parties and Party Competition in Europe • Comparative Analysis of Political Institutions in Europe • Current Developments in Research on European Politics 				
3	Learning Objectives Students... ... understand advanced, specialized theories / methods. ... 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 Learning Methods lecture				
5	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 Geographie: Wahlpflichtfach Management & Social Sciences Master of Science Economics: Supplementary Section Management & Social Sciences Master of Science Sociology: Social Research: Supplementary Section Sociology and Social Research Master of Science Sociology: Social and Economic Psychology: Supplementary Section Sociology: Social and Economic Psychology Master of Science Economic Research: Supplementary Section Economic Research 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 Arts Regionalstudien China - Sozialwissenschaften: Ergänzungsbereich Sozialwissenschaften				

INFORMATION SYSTEMS - MASTER OF SCIENCE

valid for students of the ER 2021 (enrolment from winter semester 2021/22)

	Master of Arts Politikwissenschaft: Core Section Political Science
9	Module Manager Univ.-Prof. Dr. Sven-Oliver Proksch
10	Miscellaneous

SpM Special Topics Political Science I					
Module Code 1335MSPIR1	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Seminar Political Institutions and Representation		Contact Hours 30h	Self-Studies 150h	Course Language English
2	Module Content <ul style="list-style-type: none"> • Classic and modern approaches in comparative political science and the analysis of political institutions • Institutionalism • Democratic regimes • Classic and modern approaches in political theory and democratic theory • Representation in political systems • Elections and the electorate 				
3	Learning Objectives Students... ... analyse current questions and challenges. ... collect, systematize and synthesize independently literature on selected scientific questions. ... solve team-internal conflicts and target divergences independently. ... discuss scientific topics in a professional manner and appropriate to the situation with (non-) specialists. ... evaluate their own action processes in self- and external reflection and identify development potentials.				
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 Geographie: Wahlpflichtfach Management & Social Sciences Master of Science Economics: Supplementary Section Management & Social Sciences Master of Science Sociology: Social Research: Supplementary Section Sociology and Social Research Master of Science Sociology: Social and Economic Psychology: Supplementary Section Sociology: Social and Economic Psychology Master of Arts Regionalstudien Lateinamerika - Sozialwissenschaften: Ergänzung Sozialwissenschaften Master of Arts Regionalstudien Ost- und Mitteleuropa - Sozialwissenschaften: Ergänzungsbereich Sozialwissenschaften Master of Science International Management: Supplementary Section International Management				

INFORMATION SYSTEMS - MASTER OF SCIENCE

valid for students of the ER 2021 (enrolment from winter semester 2021/22)

	<p>Master of Science Business Administration - Finance: Supplementary Section Finance</p> <p>Master of Science Information Systems: Supplementary Section Information Systems</p> <p>Master of Arts Regionalstudien China - Sozialwissenschaften: Ergänzungsbereich Sozialwissenschaften</p> <p>Master of Arts Politikwissenschaft: Specialisation Section Political Science</p>
9	<p>Module Manager Fachbereich Politikwissenschaft</p>
10	<p>Miscellaneous</p>

SpM Special Topics Political Science II					
Module Code 1335MSIRP1	Workload 180h	ECTS Credits 6	Module Language German and English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Seminar Comparative Political Economy and International Relations		Contact Hours 30h	Self-Studies 150h	Course Language German and English
2	Module Content <ul style="list-style-type: none"> • Comparative political economy, comparative analysis of public policy • Varieties of Capitalism and classic and modern studies of capitalism • Detailed knowledge of the political economies of certain countries • Classic and modern studies in International Relations • International and foreign policy, transnational politics • Peace and conflict studies, international regulatory policy, security policy 				
3	Learning Objectives Students... ... analyse current questions and challenges. ... collect, systematize and synthesize independently literature on selected scientific questions. ... solve team-internal conflicts and target divergences independently. ... discuss scientific topics in a professional manner and appropriate to the situation with (non-) specialists. ... evaluate their own action processes in self- and external reflection and identify development potentials.				
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 Geographie: Wahlpflichtfach Management & Social Sciences Master of Science Economics: Supplementary Section Management & Social Sciences Master of Science Sociology: Social Research: Supplementary Section Sociology and Social Research Master of Science Sociology: Social and Economic Psychology: Supplementary Section Sociology: Social and Economic Psychology Master of Arts Regionalstudien Lateinamerika - Sozialwissenschaften: Ergänzung Sozialwissenschaften Master of Arts Regionalstudien Ost- und Mitteleuropa - Sozialwissenschaften: Ergänzungsbereich Sozialwissenschaften Master of Science Business Administration - Finance: Supplementary Section Finance Master of Science Information Systems:				

INFORMATION SYSTEMS - MASTER OF SCIENCE

valid for students of the ER 2021 (enrolment from winter semester 2021/22)

	Supplementary Section Information Systems Master of Arts Regionalstudien China - Sozialwissenschaften: Ergänzungsbereich Sozialwissenschaften Master of Arts Politikwissenschaft: Specialisation Section Political Science
9	Module Manager Fachbereich Politikwissenschaft
10	Miscellaneous

CM Sociology I: Analysis of Cross-Sectional Data					
Module Code 1320MBSOC1	Workload 360h	ECTS Credits 12	Module Language English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Quantitative Methods for the Social Sciences		Contact Hours 60h	Self-Studies 300h	Course Language English
2	Module Content <ul style="list-style-type: none"> • Thinking in causal models and modelling multivariate relationships • Linear and non-linear regression models for cross-sectional data • Multilevel models for nested cross-sectional data • Learn how to use statistical software packages 				
3	Learning Objectives Students... ... understand advanced, specialized methods of cross-sectional data analysis. ... assess and discuss findings and research results of specialized methods. ... prepare and analyse data material for selected scientific questions using quantitative methods. ... use techniques of scientific work and good scientific practice.				
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 Geographie: Wahlpflichtfach Management & Social Sciences Master of Science Sociology: Social Research: Core Section Sociology: Social Research Master of Science Sociology: Social and Economic Psychology: Core Section Sociology: Social and Economic Psychology Master of Arts Regionalstudien Lateinamerika - Sozialwissenschaften: Ergänzung Sozialwissenschaften Master of Arts Regionalstudien Ost- und Mitteleuropa - Sozialwissenschaften: Ergänzungsbereich Sozialwissenschaften Master of Science Business Administration - Finance: Supplementary Section Finance Master of Science Information Systems: Supplementary Section Information Systems Master of Arts Regionalstudien China - Sozialwissenschaften: Ergänzungsbereich Sozialwissenschaften Master of Arts Politikwissenschaft: Supplementary Section Political Science				

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9	Module Manager Univ.-Prof. Dr. Thomas Leopold
10	Miscellaneous A written test (120) is part of the portfolio

CM Sociology II: Sociological Theory					
Module Code 1320MBSOC2	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Sociological Theory		Contact Hours 30h	Self-Studies 150h	Course Language English
2	Module Content <ul style="list-style-type: none"> • Diversity of sociological theories • How sociological theories can guide and be tested in social research • Social mechanisms and scope conditions • Microfoundations (e.g., theories of action, practice, values, attitudes, and cognition) • Meso-level theories (e.g., social networks, strategic interaction) • Macrosociological theories (e.g., modernisation, institutionalism, social differentiation) 				
3	Learning Objectives Students... ... understand advanced, specialised theories in sociology. ... analyse current questions and challenges of theory development in sociology. ... assess and discuss findings and research results of specialised theories. ... justify and defend (independently developed) positions or problem solutions. ... critically evaluate current social developments and develop alternative solutions.				
4	Teaching and Learning Methods lecture				
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 Geographie: Wahlpflichtfach Management & Social Sciences Master of Science Economics: Supplementary Section Management & Social Sciences Master of Science Sociology: Social Research: Core Section Sociology: Social Research Master of Science Sociology: Social and Economic Psychology: Core Section Sociology: Social and Economic Psychology Master of Arts Regionalstudien Lateinamerika - Sozialwissenschaften: Ergänzung Sozialwissenschaften Master of Arts Regionalstudien Ost- und Mitteleuropa - Sozialwissenschaften: Ergänzungsbereich Sozialwissenschaften Master of Science Business Administration - Finance: Supplementary Section Finance Master of Science Information Systems: Supplementary Section Information Systems Master of Arts Regionalstudien China - Sozialwissenschaften:				

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valid for students of the ER 2021 (enrolment from winter semester 2021/22)

	Ergänzungsbereich Sozialwissenschaften Master of Arts Politikwissenschaft: Supplementary Section Political Science
9	Module Manager Univ.-Prof. Dr. Clemens Kroneberg
10	Miscellaneous A written test (60) is part of the portfolio

CM Sociology III: Contemporary Societies: Social Structure and Social Change					
Module Code 1320MBSOC3	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Contemporary Societies: Social Structure and Social Change		Contact Hours 30h	Self-Studies 150h	Course Language English
2	Module Content <ul style="list-style-type: none"> • Socio-economic and socio-demographic inequalities in contemporary societies • Mechanisms driving changes in socio-economic and socio-demographic inequalities in contemporary societies • Consequences of social, economic, and demographic change in contemporary societies • Solutions for challenges resulting from social, economic, and demographic change in contemporary societies 				
3	Learning Objectives Students... <ul style="list-style-type: none"> ... understand advanced, specialized theories / methods of socio-economic/socio-demographic inequalities. ... analyse current questions and challenges of socio-economic/socio-demographic inequalities. ... 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 Learning Methods lecture				
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 <ul style="list-style-type: none"> Master of Science Geographie: <ul style="list-style-type: none"> Wahlpflichtfach Management & Social Sciences Master of Science Economics: <ul style="list-style-type: none"> Supplementary Section Management & Social Sciences Master of Science Sociology: Social Research: <ul style="list-style-type: none"> Core Section Sociology: Social Research Master of Science Sociology: Social and Economic Psychology: <ul style="list-style-type: none"> Core Section Sociology: Social and Economic Psychology Master of Arts Regionalstudien Lateinamerika - Sozialwissenschaften: <ul style="list-style-type: none"> Ergänzung Sozialwissenschaften Master of Arts Regionalstudien Ost- und Mitteleuropa - Sozialwissenschaften: <ul style="list-style-type: none"> Ergänzungsbereich Sozialwissenschaften Master of Science Business Administration - Finance: <ul style="list-style-type: none"> Supplementary Section Finance Master of Science Information Systems: <ul style="list-style-type: none"> Supplementary Section Information Systems 				

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	Master of Arts Regionalstudien China - Sozialwissenschaften: Ergänzungsbereich Sozialwissenschaften Master of Arts Politikwissenschaft: Supplementary Section Political Science
9	Module Manager Univ.-Prof. Dr. Karsten Hank
10	Miscellaneous A written test (60) is part of the portfolio

SpM Selected Issues in Accounting & Taxation I					
Module Code 1016MSSIS1	Workload 180h	ECTS Credits 6	Module Language German and English	Module Availability every 2nd term - summer term	Duration 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 Hours a) 30h b) 30h c) 30h d) 30h e) 30h f) 30h	Self-Studies a) 60h b) 60h c) 60h d) 60h e) 60h 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	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 Learning Methods lecture				
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: Two lectures must be taken. The exam covers the content of two lectures.				
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 Mathematik: Economics Sciences				

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	<p>Master of Science Wirtschaftsmathematik: Economics Sciences</p> <p>Master of Science International Management: Supplementary Section International Management</p> <p>Master of Science Business Administration - Accounting and Taxation: Supplementary Section Accounting and Taxation</p> <p>Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs: Ergänzungsbereich Wirtschaftspädagogik</p> <p>Master of Science Business Administration - Accounting and Taxation: Specialisation Section Accounting and Taxation</p>
9	<p>Module Manager Area Accounting and Taxation</p>
10	<p>Miscellaneous</p>

SpM Selected Issues in Accounting & Taxation II					
Module Code 1016MSSIS2	Workload 180h	ECTS Credits 6	Module Language German and English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses a) International Tax Planning b) Taxation of Corporate Groups c) Selected Issues in Business Valuation d) Consolidated Balance Sheets e) Selected Issues in Controlling II		Contact Hours a) 30h b) 30h c) 30h d) 30h e) 30h	Self-Studies a) 60h b) 60h c) 60h d) 60h e) 60h	Course Language a) English b) German c) German d) German e) English
2	Module Content Selected Issues in managerial accounting, financial accounting, auditing, business valuation or business taxation				
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 specialists. ... develop work processes for real problems and challenges.				
4	Teaching and Learning Methods lecture				
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: 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 Manager Area Accounting and Taxation				
10	Miscellaneous				

CM Basic Course Tax Law					
Module Code 1015MBGKS1	Workload 180h	ECTS Credits 6	Module Language German	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Basic Course Tax Law		Contact Hours 60h	Self-Studies 120h	Course Language German
2	Module Content <ul style="list-style-type: none"> • Basic law • Income Tax Act • Constitutional issues with case solutions 				
3	Learning Objectives Students... ... acquire legal methodological competence in the field of tax law. ... receive content-related skills for understanding tax law. ... learn how to solve new cases by applying the technical and methodological skills acquired.				
4	Teaching and Learning Methods lecture practice				
5	Module Entry Requirements None				
6	Mode of End-Of-Module Examination Written test: WT (120)				
7	Prerequisites for Awarding of Credit Points Passing the module examination				
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				
9	Module Manager Univ.-Prof. Dr. Johanna Hey				
10	Miscellaneous				

CM European Tax Law					
Module Code 1015MBESR1	Workload 180h	ECTS Credits 6	Module Language German	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses European Tax Law		Contact Hours 30h	Self-Studies 150h	Course Language German
2	Module Content <ul style="list-style-type: none"> • European tax law • Guidelines • Case law of the European court of justice • Basic freedoms • Tax competition 				
3	Learning Objectives Students... ... deal with the growing importance of European law for tax practice, taking into account the dogmatic foundations. ... discuss the influence of European law on indirect taxation law. ... discuss tax harmonisation in the European area. ... discuss the case law of the European Court of Justice on the application of the fundamental freedoms and the prohibition of state aid and their influence on the taxation of natural persons and companies. ... discuss tax competition in Europe and measures to curb it.				
4	Teaching and Learning Methods lecture				
5	Module Entry Requirements Basic knowledge of income tax law, corporate tax law and international tax law.				
6	Mode of End-Of-Module Examination Written test: WT (120)				
7	Prerequisites for Awarding of Credit Points Passing the module examination				
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				
9	Module Manager Univ.-Prof. Dr.' Johanna Hey				
10	Miscellaneous				

CM Specialisation in Company Law					
Module Code 1015MBVIG1	Workload 180h	ECTS Credits 6	Module Language German	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Specialisation in Company Law		Contact Hours 30h	Self-Studies 150h	Course Language German
2	Module Content <ul style="list-style-type: none"> • Partnership law • Law of corporations, in particular the law of the GmbH and AG • Formation, organisation and termination of a capital company, depending on its legal form • Liability and capital structure system of the law on corporations 				
3	Learning Objectives Students... ... acquire legal methodological competence in the field of corporate law. ... receive substantive skills for understanding corporate law. ... learn how to solve new cases by applying the technical and methodological skills acquired.				
4	Teaching and Learning Methods lecture				
5	Module Entry Requirements None				
6	Mode of End-Of-Module Examination Written test: WT (120)				
7	Prerequisites for Awarding of Credit Points Passing the module examination				
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				
9	Module Manager Univ.-Prof. Dr. Barbara Grunewald				
10	Miscellaneous				

CM Income Tax Law					
Module Code 1015MBEKR1	Workload 180h	ECTS Credits 6	Module Language German	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Income Tax Law		Contact Hours 60h	Self-Studies 120h	Course Language German
2	Module Content <ul style="list-style-type: none"> • Income Tax Act • Income tax law issues • Case solutions 				
3	Learning Objectives Students... <ul style="list-style-type: none"> ... assess the history and systematics of income tax law. ... discuss personal income tax liability and the income tax assessment basis. ... master the determination of income, the delimitation of income types and personal deductions. ... deal with international and European legal aspects of income tax. ... present procedural aspects. 				
4	Teaching and Learning Methods lecture practice				
5	Module Entry Requirements None				
6	Mode of End-Of-Module Examination Written test: WT (120)				
7	Prerequisites for Awarding of Credit Points Passing the module examination				
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				
9	Module Manager Univ.-Prof. Dr. Johanna Hey				
10	Miscellaneous				

CM Indirect Taxation Law					
Module Code 1015MBRIS1	Workload 180h	ECTS Credits 6	Module Language German	Module Availability every 2nd term - summer term	Duration 1 Term
1	Courses Indirect Taxation Law		Contact Hours 60h	Self-Studies 120h	Course Language German
2	Module Content • Indirect taxes				
3	Learning Objectives Students... ... acquire legal methodological competence in the field of tax law. ... receive content-related skills for understanding tax law. ... learn how to solve new cases by applying the technical and methodological skills acquired.				
4	Teaching and Learning Methods lecture practice				
5	Module Entry Requirements None				
6	Mode of End-Of-Module Examination Written test: WT (120)				
7	Prerequisites for Awarding of Credit Points Passing the module examination				
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 Manager Univ.-Prof. Dr. Johanna Hey				
10	Miscellaneous				

CM Corporate Tax Law						
Module Code 1015MBUSR1		Workload 180h	ECTS Credits 6	Module Language German	Module Availability every 2nd term - summer term	Duration 1 Term
1	Courses Corporate Tax Law			Contact Hours 30h	Self-Studies 150h	Course Language German
2	Module Content <ul style="list-style-type: none"> • Income Tax Act • Corporation Tax Act • Trade Tax Act 					
3	Learning Objectives Students... ... acquire legal methodological competence in the field of tax law. ... receive content-related skills for understanding tax law. ... learn how to solve new cases by applying the technical and methodological skills acquired.					
4	Teaching and Learning Methods lecture					
5	Module Entry Requirements None					
6	Mode of End-Of-Module Examination Written test: WT (120)					
7	Prerequisites for Awarding of Credit Points Passing the module examination					
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					
9	Module Manager Univ.-Prof. Dr. Johanna Hey					
10	Miscellaneous					

CM International Tax Law						
Module Code 1015MBISR1		Workload 180h	ECTS Credits 6	Module Language German	Module Availability every 2nd term - summer term	Duration 1 Term
1	Courses International Tax Law			Contact Hours 30h	Self-Studies 150h	Course Language German
2	Module Content <ul style="list-style-type: none"> • Foreign Tax Act • Double Taxation Convention 					
3	Learning Objectives Students... ... acquire legal methodological competence in the field of international tax law. ... receive content-related skills for understanding international tax law. ... learn how to solve new cases by applying the technical and methodological skills acquired.					
4	Teaching and Learning Methods lecture					
5	Module Entry Requirements none					
6	Mode of End-Of-Module Examination Written test: WT (120)					
7	Prerequisites for Awarding of Credit Points Passing the module examination					
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 Manager Univ.-Prof. Dr. Johanna Hey					
10	Miscellaneous Language: german					

CM Selected Issues of Tax Law					
Module Code 1015MBAFS1	Workload 180h	ECTS Credits 6	Module Language German	Module Availability every 2nd term - summer term	Duration 1 Term
1	Courses Selected Issues of Tax Law		Contact Hours 30h	Self-Studies 150h	Course Language German
2	Module Content Selected Issues of Tax Law				
3	Learning Objectives Students... ... deepen their knowledge in special areas of tax law. ... acquire competence in the areas of group tax law and reorganisation tax law. ... deal with the special tax features of the taxation of groups of companies in the subject Group Tax Law. ... deal with the various transformation processes in the subject Reorganisation Tax Law. ... receive an overview of the tax treatment of mergers, splits, contributions, conversions, accruals, share swaps and international conversions.				
4	Teaching and Learning Methods lecture				
5	Module Entry Requirements Recommendation: basic knowledge of income tax law and corporate tax law				
6	Mode of End-Of-Module Examination Written test: WT (120)				
7	Prerequisites for Awarding of Credit Points Passing the module examination				
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				
9	Module Manager Univ.-Prof. Dr. Johanna Hey				
10	Miscellaneous				

SuM Introduction to Economic Psychology					
Module Code 1320MEIEP1	Workload 360h	ECTS Credits 12	Module Language English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Introduction to Economic Psychology		Contact Hours 60h	Self-Studies 300h	Course Language English
2	Module Content <ul style="list-style-type: none"> • Basic concepts in economic psychology • Economic psychology and its application in consumer markets, labour markets, and financial markets • Economic psychology and its application in macroeconomic contexts • Current developments in applied economic psychology 				
3	Learning Objectives Students... ... understand advanced, specialized theories / methods economic psychology. ... collect, systematize and synthesize independently literature on selected scientific questions. ... justify and defend (independently developed) positions or problem solutions. ... 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: 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 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 Economics: Supplementary Section Management & Social Sciences Master of Science International Management: Supplementary Section International Management Master of Arts Politikwissenschaft: Supplementary Section Political Science				
9	Module Manager Univ.-Prof. Dr. Erik Hölzl				

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10	Miscellaneous
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SuM Advanced Economic Psychology I					
Module Code 1320MEAEP1	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Consumer Behaviour		Contact Hours 30h	Self-Studies 150h	Course Language English
2	Module Content <ul style="list-style-type: none"> • Basic concepts in consumer behaviour • Situational influences on consumer behaviour • Interindividual differences in consumer behaviour • Current developments in consumer research 				
3	Learning Objectives Students... <ul style="list-style-type: none"> ... analyse current questions and challenges in consumer behaviour. ... assess and discuss findings and research results of specialized theories / methods. ... collect, systematize and synthesize independently literature on selected scientific questions. ... write an academic paper on a selected topic and achieve thereby their own scientific contribution. ... justify and defend (independently developed) positions or problem solutions. ... act responsibly considering ecological, social and ethical criteria. ... use techniques of scientific work and good scientific practice. 				
4	Teaching and Learning Methods seminar				
5	Module Entry Requirements Recommendation: Introduction to Economic Psychology				
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 <ul style="list-style-type: none"> 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 				
9	Module Manager Univ.-Prof. Dr. Erik Hölzl				
10	Miscellaneous				

SuM Advanced Economic Psychology II					
Module Code 1320MEAEP2	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Organisational Behaviour		Contact Hours 30h	Self-Studies 150h	Course Language English
2	Module Content <ul style="list-style-type: none"> • Basic concepts in organisational behaviour • Situational influences on organisational behaviour • Interindividual differences in organisational behaviour • Current developments in organisation research 				
3	Learning Objectives Students... <ul style="list-style-type: none"> ... analyse current questions and challenges in organisational behaviour. ... assess and discuss findings and research results of specialized theories / methods. ... collect, systematize and synthesize independently literature on selected scientific questions. ... write an academic paper on a selected topic and achieve thereby their own scientific contribution. ... justify and defend (independently developed) positions or problem solutions. ... act responsibly considering ecological, social and ethical criteria. ... use techniques of scientific work and good scientific practice. 				
4	Teaching and Learning Methods seminar				
5	Module Entry Requirements Recommendation: Introduction to Economic Psychology				
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 <ul style="list-style-type: none"> 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 				
9	Module Manager Univ.-Prof. Dr. Erik Hölzl				
10	Miscellaneous				

CM Data Analytics I					
Module Code 1314MBSTC1	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Statistics for Data Analytics		Contact Hours 45h	Self-Studies 135h	Course Language English
2	Module Content <ul style="list-style-type: none"> • Probability theory: Probability distributions, (conditional) density functions • Linear (multiple) regression, conditional expectation function • Assumptions, model selection, hypotheses test • Maximum Likelihood • Time Series 				
3	Learning Objectives Students... ... understand advanced, specialized theories / methods in the field of statistics. ... analyse current questions and challenges in the field of statistics. ... assess and discuss findings and research results of specialized theories / methods. ... act responsibly considering ecological, social and ethical criteria. ... 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 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 Analytics & Econometrics: Core Section Business Analytics & Econometrics Master of Science Economics: Supplementary Section Management & Social Sciences Master of Arts Politikwissenschaft: Supplementary Section Political Science Master of Science Sociology: Social Research: Supplementary Section Sociology and Social Research Master of Science Sociology: Social and Economic Psychology: Supplementary Section Sociology: Social and Economic Psychology Master of Science International Management: Supplementary Section International Management Master of Science Economic Research: Supplementary Section Economic Research Master of Science Business Administration - Supply Chain Management: Supplementary Section Supply Chain Management Master of Science Business Administration - Marketing:				

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	<p>Supplementary Section Marketing</p> <p>Master of Science Business Administration - Finance: Supplementary Section Finance</p> <p>Master of Science Information Systems: Supplementary Section Information Systems</p> <p>Master of Science Business Administration - Accounting and Taxation: Supplementary Section Accounting and Taxation</p> <p>Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development</p>
9	<p>Module Manager Univ.-Prof. Dr. Markus Weinmann</p>
10	<p>Miscellaneous Literature: Wooldridge, "Introductory Econometrics" (chapter 1-9)</p>

CM Data Analytics II					
Module Code 1277MBPDA1	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Programming for Data Analytics		Contact Hours 30h	Self-Studies 150h	Course Language English
2	Module Content <ul style="list-style-type: none"> • Introduction to the statistical software R, including statistical modelling in R • Use of R for data analysis and presentation • Introduction to programming in R and the design of user-defined statistical diagrams 				
3	Learning Objectives Students... <ul style="list-style-type: none"> ... understand advanced, specialized theories / methods in the field of programming and data analytics. ... analyse current questions and challenges in the field of programming and data analytics. ... assess and discuss findings and research results of specialized theories / methods. ... act responsibly considering ecological, social and ethical criteria. ... develop work processes for real problems and challenges. 				
4	Teaching and Learning Methods lecture				
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 <p>Master of Science Business Analytics & Econometrics: Core Section Business Analytics & Econometrics</p> <p>Master of Science Economics: Supplementary Section Management & Social Sciences</p> <p>Master of Arts Politikwissenschaft: Supplementary Section Political Science</p> <p>Master of Science Sociology: Social Research: Supplementary Section Sociology and Social Research</p> <p>Master of Science Sociology: Social and Economic Psychology: Supplementary Section Sociology: Social and Economic Psychology</p> <p>Master of Science International Management: Supplementary Section International Management</p> <p>Master of Science Economic Research: Supplementary Section Economic Research</p> <p>Master of Science Business Administration - Supply Chain Management: Supplementary Section Supply Chain Management</p> <p>Master of Science Business Administration - Marketing: Supplementary Section Marketing</p> <p>Master of Science Business Administration - Finance:</p>				

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	<p>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 Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development</p>
9	<p>Module Manager Univ.-Prof. Dr. Markus Weinmann</p>
10	<p>Miscellaneous Literature: Wickham, "R for Data Science"</p>

CM Data Analytics III					
Module Code 1277MBMLA1	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Machine Learning and Artificial Intelligence		Contact Hours 60h	Self-Studies 120h	Course Language English
2	Module Content <ul style="list-style-type: none"> • Basics of the methods of Machine Learning and Artificial Intelligence (AI) • Basics of both supervised and unsupervised methods (e.g. decision trees, random forests, boosting, support vector machines, neural networks, deep and opponent learning, ensemble learning, principal component analysis, factor analysis and diverse learning or multidimensional scaling) • Translation of business problems into machine learning use cases; feasibility and impact • Responsible implementation of machine learning projects in compliance with ethical standards 				
3	Learning Objectives Students... ... understand advanced, specialized theories / methods in the field of machine learning and AI. ... analyse current questions and challenges in the field of machine learning and AI. ... assess and discuss findings and research results of specialized theories / methods. ... act responsibly considering ecological, social and ethical criteria. ... 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 Analytics & Econometrics: Core Section Business Analytics & Econometrics Master of Science Economics: Supplementary Section Management & Social Sciences Master of Arts Politikwissenschaft: Supplementary Section Political Science Master of Science Sociology: Social Research: Supplementary Section Sociology and Social Research Master of Science Sociology: Social and Economic Psychology: Supplementary Section Sociology: Social and Economic Psychology Master of Science International Management: Supplementary Section International Management Master of Science Economic Research: Supplementary Section Economic Research Master of Science Business Administration - Supply Chain Management:				

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	<p>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 - Accounting and Taxation: Supplementary Section Accounting and Taxation Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development</p>
9	<p>Module Manager Univ.-Prof. Dr. Markus Weinmann</p>
10	<p>Miscellaneous Literature: James, Witten, Hastie, Tibshirani, "Intorduction to statistical learning"</p>

CM Data Analytics IV					
Module Code 1314MBAST1	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Advanced Statistics for Data Analysis		Contact Hours 45h	Self-Studies 135h	Course Language English
2	Module Content <ul style="list-style-type: none"> • Potential Outcomes and Treatment Effects • Randomized Experiments • Matching Estimators • Regression Discontinuity • Instrumental Variables • Difference-in-Differences Estimation 				
3	Learning Objectives Students... ... understand advanced, specialized theories / methods in the field of advanced statistics. ... analyse current questions and challenges in the field of advanced statistics. ... assess and discuss findings and research results of specialized theories / methods. ... act responsibly considering ecological, social and ethical criteria. ... 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 Analytics & Econometrics: Core Section Business Analytics & Econometrics Master of Science Economics: Supplementary Section Management & Social Sciences Master of Arts Politikwissenschaft: Supplementary Section Political Science Master of Science Sociology: Social Research: Supplementary Section Sociology and Social Research Master of Science Sociology: Social and Economic Psychology: Supplementary Section Sociology: Social and Economic Psychology Master of Science International Management: Supplementary Section International Management Master of Science Economic Research: Supplementary Section Economic Research Master of Science Business Administration - Supply Chain Management: Supplementary Section Supply Chain Management				

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	<p>Master of Science Business Administration - Marketing: Supplementary Section Marketing</p> <p>Master of Science Business Administration - Finance: Supplementary Section Finance</p> <p>Master of Science Information Systems: Supplementary Section Information Systems</p> <p>Master of Science Business Administration - Accounting and Taxation: Supplementary Section Accounting and Taxation</p> <p>Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development</p>
9	<p>Module Manager Univ.-Prof. Dr. Markus Weinmann</p>
10	<p>Miscellaneous Literature: Angrist and Pischke, "Mostly Harmless Econometrics"</p>

CM Data Analytics V					
Module Code 1277MBDMA1	Workload 180h	ECTS Credits 6	Module Language English	Module Availability every 2nd term - winter term	Duration 1 Term
1	Courses Data Management and Data Visualization		Contact Hours 45h	Self-Studies 135h	Course Language English
2	Module Content <ul style="list-style-type: none"> • Fundamentals of data storage, data cleansing and retrieval; data use and data quality for data analysis • Fundamentals of metadata; methods of data integration; data models and software architectures for the integration of different data types • Data management methods and practices (e.g. relational databases, SQL, NoSQL databases, data manipulation, access to data sources, Web APIs, scraping/crawling and parsing of text data) • Basics of data visualization (e.g. cognition, design principles for diagrams and graphics, visualization of different data types) • Methods and techniques of data visualization (e.g. tableau, R, dashboards, digital presentations) 				
3	Learning Objectives Students... ... understand advanced, specialized theories / methods in the field of programming and data analytics. ... analyse current questions and challenges in the field of programming and data analytics. ... assess and discuss findings and research results of specialized theories / methods. ... act responsibly considering ecological, social and ethical criteria. ... 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: WT (90)				
7	Prerequisites for Awarding of Credit Points Passing the module examination.				
8	Other Programmes that Use the Module Master of Science Business Analytics & Econometrics: Core Section Business Analytics & Econometrics Master of Science Economics: Supplementary Section Management & Social Sciences Master of Arts Politikwissenschaft: Supplementary Section Political Science Master of Science Sociology: Social Research: Supplementary Section Sociology and Social Research Master of Science Sociology: Social and Economic Psychology: Supplementary Section Sociology: Social and Economic Psychology Master of Science International Management: Supplementary Section International Management				

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	<p>Master of Science Economic Research: Supplementary Section Economic Research</p> <p>Master of Science Business Administration - Supply Chain Management: Supplementary Section Supply Chain Management</p> <p>Master of Science Business Administration - Marketing: Supplementary Section Marketing</p> <p>Master of Science Business Administration - Finance: Supplementary Section Finance</p> <p>Master of Science Information Systems: Supplementary Section Information Systems</p> <p>Master of Science Business Administration - Accounting and Taxation: Supplementary Section Accounting and Taxation</p> <p>Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development</p>
9	<p>Module Manager Univ.-Prof. Dr. Markus Weinmann</p>
10	<p>Miscellaneous</p>

Studies Abroad I					
Module Code 1014MESAb1	Workload 180h	ECTS Credits 6	Module Language selected language	Module Availability every term	Duration 1 Term
1	Courses		Contact Hours	Self-Studies	Course Language
2	Module Content depends on course selection				
3	Learning Objectives Students... ... acquire knowledge and skills depending on their choice of course.				
4	Teaching and Learning Methods depending on course choice				
5	Module Entry Requirements depends on course selection				
6	Mode of End-Of-Module Examination TR - depending on course selection				
7	Prerequisites for Awarding of Credit Points depends on course selection				
8	<p>Other Programmes that Use the Module</p> <p>Master of Science Economics: Supplementary Section Management & Social Sciences</p> <p>Master of Science Sociology: Social Research: Supplementary Section Sociology and Social Research</p> <p>Master of Science Sociology: Social and Economic Psychology: Supplementary Section Sociology: Social and Economic Psychology</p> <p>Master of Science Economic Research: Supplementary Section Economic Research</p> <p>Master of Science International Management: Supplementary Section International Management</p> <p>Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs: Ergänzungsbereich Wirtschaftspädagogik</p> <p>Master of Arts Politikwissenschaft: Supplementary Section Political Science</p> <p>Master of Science Business Analytics & Econometrics: Supplementary Section Business Analytics & Econometrics</p> <p>Master of Science Business Administration - Supply Chain Management: Supplementary Section Supply Chain Management</p> <p>Master of Science Business Administration - Marketing: Supplementary Section Marketing</p> <p>Master of Science Business Administration - Finance: Supplementary Section Finance</p> <p>Master of Science Information Systems: Supplementary Section Information Systems</p> <p>Master of Science Business Administration - Accounting and Taxation: Supplementary Section Accounting and Taxation</p> <p>Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development</p>				

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 Abroad II					
Module Code 1014MESAb2	Workload 180h	ECTS Credits 6	Module Language selected language	Module Availability every term	Duration 1 Term
1	Courses		Contact Hours	Self-Studies	Course Language
2	Module Content depends on course selection				
3	Learning Objectives Students... ... acquire knowledge and skills depending on their choice of course.				
4	Teaching and Learning Methods depending on course choice				
5	Module Entry Requirements depends on course selection				
6	Mode of End-Of-Module Examination TR - depending on course selection				
7	Prerequisites for Awarding of Credit Points depends on course selection				
8	<p>Other Programmes that Use the Module</p> <p>Master of Science Business Administration - Supply Chain Management: Supplementary Section Supply Chain Management</p> <p>Master of Science Business Administration - Marketing: Supplementary Section Marketing</p> <p>Master of Science Business Administration - Finance: Supplementary Section Finance</p> <p>Master of Science Information Systems: Supplementary Section Information Systems</p> <p>Master of Science Business Administration - Accounting and Taxation: Supplementary Section Accounting and Taxation</p> <p>Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development</p> <p>Master of Science Economics: Supplementary Section Management & Social Sciences</p> <p>Master of Science Sociology: Social Research: Supplementary Section Sociology and Social Research</p> <p>Master of Science Sociology: Social and Economic Psychology: Supplementary Section Sociology: Social and Economic Psychology</p> <p>Master of Science Economic Research: Supplementary Section Economic Research</p> <p>Master of Science International Management: Supplementary Section International Management</p> <p>Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs: Ergänzungsbereich Wirtschaftspädagogik</p> <p>Master of Arts Politikwissenschaft: Supplementary Section Political Science</p> <p>Master of Science Business Analytics & Econometrics: Supplementary Section Business Analytics & Econometrics</p>				

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9	Module Manager
10	<p>Miscellaneous</p> <p>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.</p>

Studies Abroad III					
Module Code 1014MESAb3	Workload 180h	ECTS Credits 6	Module Language selected language	Module Availability every term	Duration 1 Term
1	Courses		Contact Hours	Self-Studies	Course Language
2	Module Content depends on course selection				
3	Learning Objectives Students... ... acquire knowledge and skills depending on their choice of course.				
4	Teaching and Learning Methods depending on course choice				
5	Module Entry Requirements depends on course selection				
6	Mode of End-Of-Module Examination TR - depending on course selection				
7	Prerequisites for Awarding of Credit Points depends on course selection				
8	<p>Other Programmes that Use the Module</p> <p>Master of Science Business Administration - Supply Chain Management: Supplementary Section Supply Chain Management</p> <p>Master of Science Business Administration - Marketing: Supplementary Section Marketing</p> <p>Master of Science Business Administration - Finance: Supplementary Section Finance</p> <p>Master of Science Information Systems: Supplementary Section Information Systems</p> <p>Master of Science Business Administration - Accounting and Taxation: Supplementary Section Accounting and Taxation</p> <p>Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development</p> <p>Master of Science Sociology: Social Research: Supplementary Section Sociology and Social Research</p> <p>Master of Science Sociology: Social and Economic Psychology: Supplementary Section Sociology: Social and Economic Psychology</p> <p>Master of Science Economic Research: Supplementary Section Economic Research</p> <p>Master of Science International Management: Supplementary Section International Management</p> <p>Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs: Ergänzungsbereich Wirtschaftspädagogik</p> <p>Master of Arts Politikwissenschaft: Supplementary Section Political Science</p>				
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.
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Studies Abroad IV					
Module Code 1014MESAb4	Workload 180h	ECTS Credits 6	Module Language selected language	Module Availability every term	Duration 1 Term
1	Courses		Contact Hours	Self-Studies	Course Language
2	Module Content depends on course selection				
3	Learning Objectives Students... ... acquire knowledge and skills depending on their choice of course.				
4	Teaching and Learning Methods depending on course choice				
5	Module Entry Requirements depends on course selection				
6	Mode of End-Of-Module Examination TR - depending on course selection				
7	Prerequisites for Awarding of Credit Points depends on course selection				
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 - Accounting and Taxation: Supplementary Section Accounting and Taxation Master of Science Business Administration - Corporate Development: Supplementary Section Corporate Development Master of Science Sociology: Social Research: Supplementary Section Sociology and Social Research Master of Science Sociology: Social and Economic Psychology: Supplementary Section Sociology: Social and Economic Psychology Master of Science International Management: Supplementary Section International Management Master of Education Wirtschaftspädagogik/Lehramt an Berufskollegs: Ergänzungsbereich Wirtschaftspädagogik Master of Arts Politikwissenschaft: Supplementary Section Political Science				
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				

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	<p>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.anrechnungswiso.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.</p>
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3.6.4 Master Thesis

Master Thesis Information Systems					
Module Code 1277MMISY1	Workload 900h	ECTS Credits 30	Module Language German and English	Module Availability every term	Duration 1 Term
1	Courses		Contact Hours	Self-Studies	Course Language
2	Module Content The topic of the master's thesis must have a clear reference to information systems.				
3	Learning Objectives Students... ... 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. i ... 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 research. ... draw up a research plan and implement it independently. ... organise and design an academic research process. ... independently collect relevant data and evaluate them in a methodically competent manner. ... engage in advanced discussion of theoretical and methodical Problems, with teaching staff, other students and individuals with an interest in the subject. ... assess research findings and develop scientifically and socially relevant conclusions from them.				
4	Teaching and Learning Methods Master's Thesis				
5	Module Entry Requirements 60 ECTS credits obtained				
6	Mode of End-Of-Module Examination Written test 6 months				
7	Prerequisites for Awarding of Credit Points Passing the module examination				
8	Other Programmes that Use the Module Master of Science Information Systems: Master Thesis in Information Systems				
9	Module Manager Managing Director Cologne Institute for Information Systems				
10	Miscellaneous The master's thesis may be written in German or English.				