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FACULTY OF MANAGEMENT,
ECONOMICS AND SOCIAL SCI-
ENCES

UNIVERSITY OF COLOGNE

PROGRAMME MANAGEMENT
UNIT



MODULE CATALOGUE

HEALTH ECONOMICS

MASTER OF SCIENCE

IN ACCORDANCE WITH THE EXAMINATION REGULATIONS FOR THE SINGLE MAJOR
MASTER PROGRAMME IN HEALTH ECONOMICS

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List of abbreviations

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

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1 Health Economics

1.1 Content and objectives of the programme

The Master in Health Economics programme – run jointly by Cologne University’s Faculty of Management, Economics and Social Sciences and Faculty of Medicine – equips students for a career in public or private health care institutions. Health economics specialists work in microeconomic management, administration, associations and health care governance institutions. The aim is for students to develop an interdisciplinary understanding of the field, based on the stakeholder groups relevant to health care (managers, policymakers, physicians, etc.). The programme therefore consists of three levels, as follows:

1. Corporate level (business administration perspective)
2. System level (economic and sociopolitical perspective)
3. Patient level (medical perspective).

Working on this basis, the students learn how to use economic tools to support (e.g. by obtaining and processing information or by means of impact studies), shape (e.g. by devising and presenting alternatives) or implement (e.g. by means of project management) decision-making processes. Graduates from this master programme have the necessary competence to reflect on questions and problems, guided by theory, and to strategically develop and implement well-founded, individual and collective approaches. They thus have the skill set required to take on high-level posts in any health care institution. Other employment opportunities offered by this interdisciplinary programme include academic teaching and research on health economics and health policy.

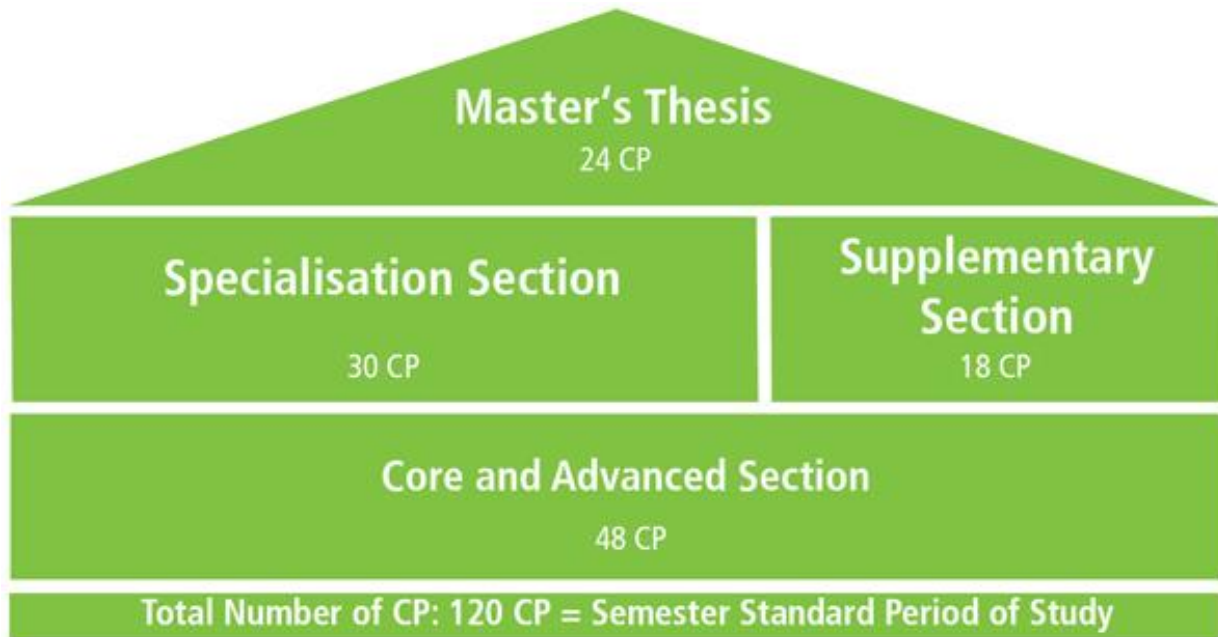
1.2 Requirements

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

1.3 Programme structure

The Master in Health Economics programme carries 120 ECTS credits and the standard period of study is four terms. It is comprised of the following four categories:

The core and advanced section (48 ECTS credits) consists of modules on business administration, economics and methods. All of the modules in this section are compulsory. The specialisation section (30 ECTS credits) is made up of additional modules on health economics and medicine, plus seminars. Whilst the seminars are compulsory elective modules, students are free to choose their options from among the other modules. The supplementary section (18 ECTS credits) is comprised of further modules in the areas of medicine, economics/sociology and business administration. These are all elective modules. The fourth section is the master thesis, worth 24 ECTS credits.



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

1.4 Study Abroad Option

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

Successful STAP applicants benefit from direct contact and organisational support at the partner university and are exempt from paying tuition fees there. The range of universities available depends on the master course on which the student is enrolled – the possible op-

tions 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 course. The STAP main selection round takes place once a year with application deadline 1 December 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)



* Deadline for handing in final bachelor degrees and/or TOEFLS/IELTS results (if taken until 15 December): 15 January. ** 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**.

1.5 Sample study plan

M.Sc. Health Economics				
Se m.	EC/ CC	Module	Section	ECT S
1	CC	Core module Patient Safety and Risk Management	Core section	6
1	CC	Core module Comparison of Health Care Systems	Core section	6
1	CC	Core module Ethics of the Health Care System	Core section	6
1	CC	Core module Imperfect Information in Health Care Markets	Core section	6
1	CC	Core module Trans- and International Perspectives	Core section	6
				30
2	CC	Core module Health Care Management	Core section	6
2	CC	Core module Health Economic Aspects of Chronic Care	Core section	6
2	CC	Core module Methodology of Clinical Trials	Core section	6
2	EC	Specialisation module I	Specialisation section	6
2	EC	Specialisation module II	Specialisation section	6
				30
3	EC	Specialisation module III	Specialisation section	6
3	EC	Specialisation module IV	Specialisation section	6
3	EC	Specialisation module V	Specialisation section	6
3	EC	Supplementary module I	Supplementary section	6
3	EC	Supplementary module II	Supplementary section	6
				30
4	EC	Supplementary module III	Supplementary section	6
4	CC	Master's thesis Health Economics	Master's thesis	24
				30

2 Support for students

2.1 Calculation of the overall mark

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

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

- a) Mark for core and advanced section: 48 of 120 ECTS credits
- b) Mark for specialisation section: 13 of 120 ECTS credits
- c) Mark for supplementary section: 18 of 120 ECTS credits
- d) Mark for master's thesis: 24 of 120 ECTS credits

2.2 Rules for failed attempts

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

In addition, a further two resit attempts can be granted to students at any point of the programme. If they wish to take additional resits, they must apply to do so in writing to the WiSo Examination Office within three months of their examination result being announced. If a student's application is approved, the additional examination attempt must take place within twelve months. Students who have accumulated at least 90 credit points shall 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. However, students may only apply for additional attempts beyond the initial three attempts if none of the first three examination attempts were failed due to cheating or to an offence. We recommend all students who fail the initial three at-

tempts to seek advice from WiSo Student Services before embarking upon an additional 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.

2.3 Subject-specific advice and examination advice

The WiSo Faculty has established a **Double Master's Programme in Health Economics and Management** in cooperation with Maastricht University. Students admitted to the double degree track are spending one year at Maastricht University and receive the master’s degrees of both universities after successful completion. The **International Relations Center (ZIB WiSo)** serves as point of information and advice concerning the application process and the study plan.

WiSo Student Services (WiSo-Studienberatungszentrum) provides general advice on studies, including the possibilities available and the requirements, for all programmes offered by the WiSo Faculty. It offers subject-specific recommendations concerning students’ study plan for their first term on the respective programme plus information on the structures of the various programmes. WiSo Student Services 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 Mitarbeiterinnen und Mitarbeiter”) involved in the teaching on the programme. The designated times are announced by means of notices in the institutes and on the departments’/institutes’ websites.

Legally binding information concerning examinations and examination procedures is provided by the **WiSo Faculty Examination Offices**. These offices also issue transcripts of records in German and English, ranking certificates and letters of assignment to the appropriate term of the programme. All the necessary information, contact details and opening hours can be found on the website.

2.4 Other sources of information and advice

The campus management system used by the University of Cologne **KLIPS 2.0** can also be used as the WiSo Faculty's online course catalogue and to (un)subscribe for lectures and examinations. Students who have questions concerning KLIPS should contact the **KLIPS Support**. Important dates and deadlines are published at the **KLIPS information website**.

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

The Faculty's **Credit Transfer Centre** (**Zentrum für die Anrechnung auswärtiger Leistungen**) is responsible for recognising credits accumulated in other institutions. This applies both to credits students have gained at other higher education institutions in Germany or abroad prior to studying at the WiSo Faculty, and to (advance) transfer of credits that students plan to accumulate abroad or have already accumulated abroad as part of a WiSo Faculty programme. This system 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 programs.

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.

3 Curriculum and module descriptions

3.1 Core and advanced section

In accordance with section 29(1), No. 1 of the Examination Regulations, the examination candidate must obtain 48 ECTS credits in the core and advanced section.

Group	Module	ECTS	CC/ EC	Required ECTS
Core- and advanced section Health Economics	Core module Health Care Management	6	CC	48
	Core module Patient Safety and Risk Management	6	CC	
	Core module Comparison of Health Care Systems	6	CC	
	Core module Health Economic Aspects of Chronic Care	6	CC	
	Core module Methodology of Clinical Trials	6	CC	
	Core module Ethics of the Health Care System	6	CC	
	Core module Imperfect Information in Health Care Markets	6	CC	
Core module Trans- and international Perspective	6	CC		

3.2 Specialisation section

In accordance with section 29(1), No. 2 of the Examination Regulations, the examination candidate must obtain 30 ECTS credits in the specialisation section.

Group	Module	ECTS	CC/ EC	Required ECTS
Seminars	Specialisation module Seminar I (Methods): Management in Health Care Systems	6	EC	6-12
	Specialisation module Seminar II (Theory): Management in Health Care Systems	6	EC	
	Specialisation module I Seminar Medical Decision-Making	6	EC	
Health Economics	Specialisation module Health Economics	6	EC	6-18
	Specialisation module Selected Issues in Health Care Manage-	6	EC	
	Specialisation module Selected Issues Management in Medicine	6	EC	
	Specialisation Module Clinical Research in the Application	6	EC	
	Studies Abroad in Health Care Management I (Master)	6	EC	
Studies Abroad in Health Care Management II (Master)	6	EC		
Medizin	Specialisation module Psychosomatics and Psychotherapy	6	EC	Max. 18
	Specialisation module Naturopathy and Homeopathy	6	EC	
	Specialisation module Clinical Environmental Medicine	6	EC	
	Specialisation module Prevention and Health Promotion	6	EC	
	Specialisation module Medical Sociology	6	EC	
	Specialisation module Fields of Competence	6	EC	

3.3 Supplementary section

In accordance with section 29(1), No. 3 of the Examination Regulations, the examination candidate must obtain 18 ECTS credits in a sub-group of the supplementary section.

Group	Module	ECTS	CC/EC	Required ECTS
Medizin	Supplementary module Occupational Medicine, Social Medicine	6	EC	Max. 12
	Supplementary module Legal Medicine	6	EC	
VWL / Soziologie	Supplementary module Health and Macroeconomics	6	EC	Min. 6
	Supplementary module Sociology of Health	6	EC	
BWL I	Specialisation module I Business Ethics	6	EC	Max. 6
	Specialisation module Strategic Development	6	EC	
	Specialisation module I Strategic Human Resource Management	6	EC	
	Specialisation module Value-based Controlling	6	EC	
BWL II	Specialisation module Supply Chain Strategy	6	EC	Max. 12
	Specialisation module Financial Institutions Management	12	EC	
	Specialisation module Marketing III	6	EC	
	Studies Abroad in Management I (Master)	6	EC	
	Studies Abroad in Management II (Master)	6	EC	
	Specialisation module Operative and Strategic Controlling	6	EC	

3.4 Master's thesis

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

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

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

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

3.5 Module description

3.5.1 Core and advanced section: Health Economics

Core module: Health Care Management					
Module code	Workload	ECTS credits	Module Language	Module availability	Duration
1282BHCMa0	180	6	English	Every second term – spring term	1 term
1	Courses Health Care Management		Contact hours 60h	Self-Studies 120h	Course Language English
2	Learning objectives Students... ...understand strategic decisions in health care. ...structure decisions in preparation for the decision-making process. ...shape specific management processes using selected methods and tools. ...assess business performance based on benchmarks and use their findings to derive recommendations for action. ...analyse in-company and external factors as the basis for their own independent strategy development.				
3	Module content <ul style="list-style-type: none"> • Strategic controlling methods in health care institutions • Use of theoretical decision-making models to solve conflicting goals • Organisational comparison methods • Development of project plans and identification of critical factors • Discussion of selected empirical studies 				
4	Teaching and learning methods Lectures Exercises				
5	Module entry requirements No recommendations				
6	Mode of end-of-module examination Written test: WT (90)				
7	Prerequisites for awarding of credit points A pass in the written test.				
8	Other programmes that use the module <ul style="list-style-type: none"> - Master Health Economics core section - Master Economic Education Supplementary section 				
9	Module manager Univ.-Prof. Dr. Ludwig Kuntz				
10	Miscellaneous				

MODULE CATALOGUE – HEALTH ECONOMICS - MASTER OF SCIENCE

Core module: Patient Safety and Risk Management					
Module Code 1282BPsRm0	Workload 180	ECTS credits 6	Module Language German	Module availability Every second term – fall term	Duration 1 term
1	Courses Patientensicherheit und Risikomanagement		Contact hours 30h	Self-Studies 150 h	Course Language German
2	<p>Learning objectives</p> <p>Students...</p> <ul style="list-style-type: none"> ...acquire knowledge about the concept of patient safety as a special application of quality management, error and injury analysis and implementation of prevention measures. ...gain an insight into how health policy has influenced the safety issue. ...discuss the dimensions of errors and injuries in health care. ...employ the nomenclature as part of a modern error management strategy. ...estimate the significance and severity of groups of different adverse events, errors and injuries. ...employ the technique of process analysis in the event of an injury. ...interpret the application and significance of the measurement methods in risk management, including the use of a CIRS. ...describe the concept of organisational learning based on a culture of safety. ...identify key prevention strategies. ...explore how to inform patients before treatment and the applicable liability legislation. ...are introduced to the scientific foundation for the public disclosure concept. 				
3	<p>Module content</p> <ul style="list-style-type: none"> • Nomenclature • Concept of error occurrence, including the human factor concept • Process analysis, specifically as it is applied to injuries • Epidemiology of errors, adverse events and injuries • CIRS • Errors and organisational development • Introduction to liability law • Public disclosure and competition 				
4	<p>Teaching and learning methods</p> <p>Lectures</p>				
5	<p>Module entry requirements</p> <p>No recommendations</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>A pass in the written test.</p>				
8	<p>Other programmes that use the module</p> <ul style="list-style-type: none"> - Master Health Economics core section - Master Economic Education Supplementary section 				
9	<p>Module manager</p> <p>Univ.-Prof. Dr. med. Matthias Schrappe</p>				
10	<p>Miscellaneous</p> <p>Students on the course are expected to prepare actively for and participate actively in each class. They will be advised of compulsory reading on a term-by-term basis.</p>				

MODULE CATALOGUE – HEALTH ECONOMICS - MASTER OF SCIENCE

Core module: Comparison of Health Care Systems					
Module Code	Workload	ECTS credits	Module Language	Module availability	Duration
1282BCHCS0	180	6	English	Every second term – fall term	1 term
1	Courses International Comparison of Health Care Systems		Contact hours 30 h	Self-Studies 150 h	Course Language English
2	Learning objectives Students... ...independently structure complex health care systems from different country-specific contexts, guided by theory. ...identify and discuss advantages and problems of different health care systems. ...examine various reform options and weigh up advantages and disadvantages. ...formulate research questions and put forward their own arguments.				
3	Module content The “Comparison of Health Care Systems” module sets out to compare health care systems on the basis of theories and typologies. The aim is for students to familiarise themselves with and be able to assess the whole gamut of health policy arrangements and identify examples of best practice. Policy change and diffusion issues are also covered. The module takes an interdisciplinary approach, comprising various perspectives (including comparative welfare state research as well as social policy concepts that include economic factors).				
4	Teaching and learning methods Lectures				
5	Module entry requirements No recommendations				
6	Mode of end-of-module examination Written test: WT (60)				
7	Prerequisites for awarding of credit points A pass in the written test.				
8	Other programmes that use the module - Master Health Economics core section - Master Economic Education Supplementary section				
9	Module manager Univ.-Prof. Dr. Frank Schulz-Nieswandt				
10	Miscellaneous				

MODULE CATALOGUE – HEALTH ECONOMICS - MASTER OF SCIENCE

Core module: Health Economic Aspects of Chronic Care					
Module Code	Workload	ECTS credits	Module Language	Module availability	Duration
1282BMHC00	180	6	English	Every second term – spring term	1 term
1	Courses Management of Chronic Diseases		Contact hours 30 h	Self-Studies 150 h	Course Language English
2	<p>Learning objectives</p> <p>Students...</p> <ul style="list-style-type: none"> ...understand how to analyse, prepare and implement care structures for diseases that are significant in terms of health economics; models and forms of care for managing chronic diseases. ...identify fundamental aspects of care management for chronic diseases. ...assess community-based care models and analyse the extent to which they can be applied to the reality of care in Germany. ...analyse current health and care policy structures and the factors influencing them and use their findings to drive management goals and structural changes. ...analyse care structures used internationally for chronic diseases and apply them to the current care situation in Germany. ...evaluate the long-term economic consequences of chronic diseases. 				
3	<p>Module content</p> <ul style="list-style-type: none"> • Fundamentals of chronic disease medicine • Special features of chronic diseases from the perspective of service providers, patients and payers • Care structures and management models for chronic diseases • Methods for benchmarking care processes and outcomes • New forms of care • Methods of self-technology assessment Evaluation 				
4	<p>Teaching and learning methods</p> <p>Lectures</p>				
5	<p>Module entry requirements</p> <p>Recommendation: Basic knowledge of evidence-based medicine and health economics</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>A pass in the written test.</p>				
8	<p>Other programmes that use the module</p> <ul style="list-style-type: none"> - Master Health Economics core section - Master Economic Education Supplementary section 				
9	<p>Module manager</p> <p>Univ.-Prof. Dr. med. Stephanie Stock</p>				
10	<p>Miscellaneous</p> <p>Further details related to the course will be announced in the lecture.</p>				

MODULE CATALOGUE – HEALTH ECONOMICS - MASTER OF SCIENCE

Core module: Methodology of Clinical Trials					
Module code	Workload	ECTS credits	Module Language	Module availability	Duration
1282BMekS0	180	6	German	Every second term – spring term	1 term
1	Courses Methodik Klinischer Studien (Biostatistik)		Contact hours 30 h	Self-Studies 150 h	Course Language German
2	Learning objectives Students... ...describe issues in clinical studies. ...describe types of clinical studies. ...understand the summary results of clinical studies. ...assess the conclusions drawn in clinical studies. ...explain the basics of evidence-based medicine. ...outline the methodology used in their own empirical studies.				
3	Module content • Clinical study questions and types • Statistical planning, implementation and interpretation of clinical studies • Special methods such as crossover/phase I/II studies • Assessment of clinical studies				
4	Teaching and learning methods Lectures				
5	Module entry requirements No recommendations				
6	Mode of end-of-module examination Written test: WT (60)				
7	Prerequisites for awarding of credit points A pass in the written test.				
8	Other programmes that use the module - Master Health Economics core section - Master Economic Education Supplementary section				
9	Module manager Prof. Dr. rer. medic.Martin Hellmich				
10	Miscellaneous Compulsory reading: Schumacher, Schulgen: Methodik klinischer Studien				

MODULE CATALOGUE – HEALTH ECONOMICS - MASTER OF SCIENCE

Core module: Ethics of the Health Care System					
Module Code	Workload	ECTS credits	Module Language	Module availability	Duration
1282BEdGw0	180	6	German	Every second term – fall term	1 term
1	Courses Ethik des Gesundheitswesens		Contact hours 30 h	Self-Studies 150 h	Course Language German
2	Learning objectives Students... ...assess structures and possible courses of action in terms of their ethical implications. ...define different types of equity and the theoretical prerequisites for them. ...use that information to analyse health care structures. ...identify equity issues in specific areas of medicine. ...compare the ethical implications of different forms of health care. ...discuss questions concerning resource allocation in health care.				
3	Module content <ul style="list-style-type: none"> • Theory of equity, equitable distribution • Principle of solidarity • Health care reforms in other countries and their ethical implications • Euthanasia, organ transplants, high-performance medicine and similar sample fields of medicine 				
4	Teaching and learning methods Lectures				
5	Module entry requirements No recommendations				
6	Mode of end-of-module examination Written test: WT (60)				
7	Prerequisites for awarding of credit points A pass in the written test.				
8	Other programmes that use the module <ul style="list-style-type: none"> - Master Health Economics core section - Master Economic Education Supplementary section 				
9	Module manager Univ.-Prof. Dr. med. Christiane Wopen				
10	Miscellaneous Student presentations and discussions. Compulsory reading will be announced each term.				

MODULE CATALOGUE – HEALTH ECONOMICS - MASTER OF SCIENCE

Core module: Imperfect Information in Health Care Markets					
Module Code	Workload	ECTS credits	Module Language	Module availability	Duration
1282BlpGm0	180	6	English	Every second term – fall term	1 term
1	Courses Informationsprobleme in Gesundheitsmärkten		Contact hours 60 h	Self-Studies 120 h	Course Language English
2	Learning objectives Students... ...study economics methods used for theoretical analysis of health care markets. ...acquire the necessary competences to be able to assess health policy measures independently.				
3	Module content <ul style="list-style-type: none"> • Relevant players on these markets, their goals and factors influencing decisions • Relationships between the players and implications in terms of health care market design • Analysis of existing health care systems in Europe and the rest of the world 				
4	Teaching and learning methods Lectures Exercises				
5	Module entry requirements No recommendations				
6	Mode of end-of-module examination Written test: WT (60)				
7	Prerequisites for awarding of credit points A pass in the written test.				
8	Other programmes that use the module - Master Health Economics core section - Master Economic Education Supplementary section				
9	Module manager N.N..				
10	Miscellaneous				

MODULE CATALOGUE – HEALTH ECONOMICS - MASTER OF SCIENCE

Core module: Trans- and international Perspective					
Module Code	Workload	ECTS credits	Module Language	Module availability	Duration
1282BTInP0	180	6	English	Every second term – fall term	1 term
1	Courses European Social Policy		Contact hours 30h	Self-Studies 150 h	Course Language English
2	Learning objectives Students... ...apply and deepen their knowledge of basic principles of social policy in various areas of learning related to Europe. ...analyse complex multi-level systems using theory-led and multidisciplinary problem analyses. ...independently identify areas of study and formulate research questions. ...outline and assess the information in familiar and new contexts and formulate alternative solutions.				
3	Module content The “Trans- and international perspective of social policy” module focuses on the influence of the European multi-level system on social policy interventions. The course is mainly concerned with analysis of the European law underlying social policy, covering both spill-over effects of internal market integration and the EU Charter of Fundamental Rights. Specific governance instruments (such as the Open Method of Coordination) are presented as part of a European social model and examined within the context of national reform agendas. Policy change and diffusion issues are also covered. The module takes an interdisciplinary approach, comprising various perspectives (including integration theory and comparative welfare state research as well as social policy concepts that include economic factors).				
4	Teaching and learning methods Lectures				
5	Module entry requirements No recommendations				
6	Mode of end-of-module examination Written test: WT (60)				
7	Prerequisites for awarding of credit points A pass in the written test.				
8	Other programmes that use the module - Master Health Economics core section - Master Economic Education Supplementary section				
9	Module manager Univ.-Prof. Dr. Frank Schulz-Nieswandt				
10	Miscellaneous				

3.5.2 Specialisation section Health Economics

Specialisation module: Seminar I (Methods): Management in Health Care Systems					
Module Code	Workload	ECTS credits	Module Language	Module availability	Duration
1282SMSM01	180	6	English	Every second term – fall term	1 term
1	Courses Seminar I (Methods): Management in Health Care Systems		Contact hours 20 h	Self-Studies 160 h	Course Language English
2	Learning objectives Students... ...understand statistical research methods in the context of health care. ...analyse international scientific research questions in the field of health from the management perspective. ...discuss an international research article, focusing on the method. ...apply the examined method in their own example. ...discuss the statistical method. ...assess international research articles in terms of relevance and statistical quality. ...design a presentation of their conclusions.				
3	Module content Use of different formal methods based on a research publication Literature search on methodology and context Independent production of a term paper and presentation of the findings Discussion of the strengths, weaknesses and implications of the article				
4	Teaching and learning methods Seminar				
5	Module entry requirements No recommendations				
6	Mode of end-of-module examination Combined examination: PRES, WT (30)				
7	Prerequisites for awarding of credit points A pass in the combined examination				
8	Other programmes that use the module - Master Health Economics specialisation section				
9	Module manager Univ.-Prof. Dr. Ludwig Kuntz				
10	Miscellaneous All participants will receive all core papers for the seminars. Each student reads a paper and prepares a presentation relating to it, which they deliver in class. The written test will cover the main topics covered in the presentations.				

MODULE CATALOGUE – HEALTH ECONOMICS - MASTER OF SCIENCE

Specialisation module: Seminar II (Theory): Management in Health Care Systems					
Module Code	Workload	ECTS credits	Module Language	Module availability	Duration
1282SMSM02	180	6	English	Every second term – spring term	1 - term
1	Courses Seminar II (Theory): Management in Health Care Systems		Contact hours 20 h	Self-Studies 160 h	Course Language English
2	Learning objectives Students... ...understand international research- articles in the context of health care. ...analyse international scientific research questions in the field of health from the management perspective. ...discuss a research article, focusing on the international nature of the question. ...outline further articles covering relating topics. ...discuss specific management-related questions. ...assess research articles in terms of relevance and quality. ...compare the international research question with a national one, including examples. ...design a presentation of their conclusions.				
3	Module content Analysis of the theoretical background and context of a research publication Independent literature research Independent production of a term paper and presentation of the findings Discussion of the strengths, weaknesses and implications of the article				
4	Teaching and learning methods Seminar				
5	Module entry requirements No recommendations				
6	Mode of end-of-module examination Combined examination: PRES, WT (30)				
7	Prerequisites for awarding of credit points A pass in the combined examination				
8	Other programmes that use the module - Master Health Economics specialisation section				
9	Module manager Univ.-Prof. Dr. Ludwig Kuntz				
10	Miscellaneous All participants will receive all core papers for the seminars. Each student reads a paper and prepares a presentation relating to it, which they deliver in class. The written test will cover the main topics covered in the presentations.				

MODULE CATALOGUE – HEALTH ECONOMICS - MASTER OF SCIENCE

Specialisation module: Seminar Medical Decision-Making					
Module Code	Workload	ECTS credits	Module Language	Module availability	Duration
1282SMSE00	180	6	German	Every term	1 - term
1	Courses a) Systematische Aufbereitung von Informationen im Gesundheitswesen b) Strategisches Management - Computerbasiertes Planspiel Krankenhausmanagement		Contact hours 20 h	Self-Studies 160 h	Course Language German
2	Learning objectives Students... ...are familiar with the approaches and procedures used in decision-making in patient care with regard to evidence, appropriateness and practicability of medical interventions. ...are familiar with the theory and practice of clinical decision-making and shared decision-making). ...are familiar with the criteria for reliable medical information for physicians/health care professions and for patients and where such information can be found. ...research in small teams examples of decision-making guidance given to patients in preparation for their consultation with the physician, and present and discuss their findings in the seminar. ...engage in academic discourse.				
3	Module content • Information on decision-making and knowledge management in medicine • Identification of evidence and research in reliable databases that play a significant role in decision-making (guidelines, pathways, drug information services, information aimed at patients) • Selection/production of reliable health care information for patients • Simulation of physician/patient consultations				
4	Teaching and learning methods Seminar				
5	Module entry requirements Recommended: Basic knowledge of the German health care system				
6	Mode of end-of-module examination Combined examination: PRES, TP				
7	Prerequisites for awarding of credit points A pass in the combined examination				
8	Other programmes that use the module - Master Health Economics specialisation section				
9	Module manager PD. Dr. med. Nicole Skoetz				
10	Miscellaneous Compulsory reading will be announced each term.				

MODULE CATALOGUE – HEALTH ECONOMICS - MASTER OF SCIENCE

Specialisation module: Health Economics					
Module Code	Workload	ECTS credits	Module Language	Module availability	Duration
1282SMHE00	180	6	English	Every second term – spring term	1 - term
1	Courses Critical Appraisal of Health Economic Studies		Contact hours 30 h	Self-Studies 150 h	Course Language English
2	Learning objectives Students... ...apply to individual types of study the basic knowledge they have gained in health economics evaluation. ...explain cost/benefit analysis methods and apply them to example cases. ...learn how methodical approaches for assessing cost/benefit analyses are used in practice. ...analyse and assess health economics studies, based on defined criteria, and justify their decision. ...engage in academic discourse.				
3	Module content <ul style="list-style-type: none"> • Cost analysis • Benefit analysis • Non-comparative studies • Comparative studies • Critical appraisal of studies and models • Distributions • Sensitivity analyses • Uncertainty in cost/benefit analysis in general 				
4	Teaching and learning methods Seminar				
5	Module entry requirements Recommended: Students must have attended the lectures on health economics evaluation. Evidence-based medicine is recommended. It is advisable to have attended Statistics and Decision theory				
6	Mode of end-of-module examination Combined examination: PRES, PO				
7	Prerequisites for awarding of credit points A pass in the written test.				
8	Other programmes that use the module - Master Health Economics specialisation section				
9	Module manager Univ.-Prof. Dr. med. Stephanie Stock Volkswirtin Marion Danner				
10	Miscellaneous Compulsory reading will be announced each term.				

MODULE CATALOGUE – HEALTH ECONOMICS - MASTER OF SCIENCE

Specialisation module: Selected Issues in Health Care Management					
Module Code	Workload	ECTS credits	Module Language	Module availability	Duration
1282SMH00	180	6	English	Every second term – spring term	1 - term
1	Courses Selected Issues Health Care Management		Contact hours 30 h	Self-Studies 150 h	Course Language English
2	Learning objectives Students... ...explore health care practitioners' perspectives. ...analyse current trends. ...assess and discuss problems and challenges in health care from the perspective of health care practitioners. ...devise corporate strategies based on a structured procedure. ...discuss relevant, current issues and identify implications. ...coordinate specific team tasks. ...design a presentation of their conclusions. ...engage in academic discourse.				
3	Module content Analysis of real-life problems from a business administration perspective Transfer of theoretical knowledge and application of quantitative methods Independent development of solutions as part of a case study Presentation of solutions Discussion of strengths and weakness of the solutions				
4	Teaching and learning methods Seminar				
5	Module entry requirements No recommendations				
6	Mode of end-of-module examination Combined examination: PRES, TP				
7	Prerequisites for awarding of credit points A pass in the combined examination				
8	Other programmes that use the module - Master Health Economics specialisation section				
9	Module manager Univ.-Prof. Dr. Ludwig Kuntz				
10	Miscellaneous This course is not held regularly and is mainly managed by visiting lecturers. Information about whether and when it is taking place can be found on the website of the Department of Business Administration and Health Care Management (http://www.mig.uni-koeln.de/)				

MODULE CATALOGUE – HEALTH ECONOMICS - MASTER OF SCIENCE

Specialisation module: Selected Issues Management in Medicine					
Module Code	Workload	ECTS credits	Module Language	Module availability	Duration
1282SMM00	180	6	German and English	Every second term – fall term	1 - term
1	Courses Selected Issues Management in Medicine		Contact hours 20 h	Self-Studies 160 h	Course Language German and English
2	Learning objectives Students... ...learn how to apply in practice the theoretical principles of evidence-based medicine. ...learn how to apply knowledge of medical methods to defined health care situations. ...learn how to formulate scientific research questions in groups. ...learn how to present findings. ...simulate possible responses and scenarios.				
3	Module content • Process of analysing the benefits of medical interventions • Literature research and academic writing				
4	Teaching and learning methods Seminar				
5	Module entry requirements Recommended: Basic knowledge of the German health care system				
6	Mode of end-of-module examination Oral examination: OE (30)				
7	Prerequisites for awarding of credit points A pass in the oral examination				
8	Other programmes that use the module - Master Health Economics specialisation section				
9	Module manager Univ.-Prof. Dr. med. Stephanie Stock				
10	Miscellaneous				

MODULE CATALOGUE – HEALTH ECONOMICS - MASTER OF SCIENCE

Specialisation module: Klin Clinical Research in the Application					
Module Code	Workload	ECTS credits	Module Language	Module availability	Duration
1282SMKF00	180	6	English	Every second term – fall term	1 - term
1	Courses Medizinische Studien		Contact hours 30 h	Self-Studies 150 h	Course Language English
2	Learning objectives Students... ...learn how a study protocol is structured. ...evaluate the method design of clinical studies. ...extract relevant data from clinical studies. ...identify different types of bias. ...conduct the performance assessment process. ...conduct the benefit analysis procedure in Germany (in accordance with the “AMNOG Act” (Act on the Reform of the Market for Medical Products)). ...integrate ethical aspects into clinical study work.				
3	Module content <ul style="list-style-type: none"> • Key aspects when writing study protocols • Clinical studies on medical products • Significance and validation of surrogate markers • Ethical aspects in clinical studies • Regulatory aspects applicable to clinical studies • Special study designs 				
4	Teaching and learning methods Lectures				
5	Module entry requirements Recommended: Knowledge of evidence-based medicine				
6	Mode of end-of-module examination Written Test: WT (60)				
7	Prerequisites for awarding of credit points A pass in the written test				
8	Other programmes that use the module - Master Health Economics specialisation section				
9	Module manager PD Dr. med. Stefan Sauerland				
10	Miscellaneous These lectures are based on various examples of medical studies. Students will be advised in class of any required reading for the lectures.				

MODULE CATALOGUE – HEALTH ECONOMICS - MASTER OF SCIENCE

Studies Abroad in in Health Care Management I (Master)					
Module code	Workload	ECTS credits	Module Language	Module availability	Duration
1014SAHC03	180	6		Every term	1 term
1	Courses		Contact hours	Self-Study	Course Language
2	<p>Learning objectives</p> <p>Students...</p> <p>...describe approaches to Health Care Management, business administration, economics and social sciences from an international perspective.</p> <p>...explain international issues in the areas of health care management, business administration, economics and social science.</p> <p>...discuss and compare different theories and approaches in health care management, business administration, economics and social science.</p> <p>...develop new intellectual perspectives with regard to their own education.</p> <p>...are better equipped to deal with the dynamic, global dimensions of their professional future in an effective manner.</p>				
3	<p>Module content</p> <p>Depends on chosen course.</p>				
4	<p>Teaching and learning methods</p>				
5	<p>Module entry requirements</p> <p>No recommendations</p>				
6	<p>Mode of end-of-module examination</p> <p>TR</p> <p>Depends on chosen course.</p>				
7	<p>Prerequisites for awarding of ECTS credits</p> <p>Depends on chosen course.</p>				
8	<p>Other programmes that use the module</p> <ul style="list-style-type: none"> -Master International Management core and advanced section -Master Health Economics specialisation section 				
9	<p>Module manager</p> <p>CEMS Programme Manager</p>				
10	<p>Miscellaneous</p> <p>Language: Can be offered in English or in any language possible at the host university.</p> <p>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.anrechnungwiso.uni-koeln.de/)</p> <p>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>				

MODULE CATALOGUE – HEALTH ECONOMICS - MASTER OF SCIENCE

Studies Abroad in in Health Care Management II (Master)					
Module code	Workload	ECTS credits	Module Language	Module availability	Duration
1014SAHC04	180	6	See curriculum overview	Every term	1 term
1	Courses		Contact hours	Self-Study	Course Language
2	<p>Learning objectives</p> <p>Students...</p> <p>...describe approaches to health Care Management, business administration, economics and social sciences from an international perspective.</p> <p>...explain international issues in the areas of health care management, business administration, economics and social science.</p> <p>...discuss and compare different theories and approaches in health care management, business administration, economics and social science.</p> <p>...develop new intellectual perspectives with regard to their own education.</p> <p>...are better equipped to deal with the dynamic, global dimensions of their professional future in an effective manner.</p>				
3	<p>Module content</p> <p>Depends on chosen course.</p>				
4	<p>Teaching and learning methods</p>				
5	<p>Module entry requirements</p> <p>No recommendations</p>				
6	<p>Mode of end-of-module examination</p> <p>TR</p> <p>Depends on chosen course.</p>				
7	<p>Prerequisites for awarding of ECTS credits</p> <p>Depends on chosen course.</p>				
8	<p>Other programmes that use the module</p> <p>-Master International Management core and advanced section</p> <p>-Master Health Economics specialisation section</p>				
9	<p>Module manager</p> <p>CEMS Programme Manager</p>				
10	<p>Miscellaneous</p> <p>Language: Can be offered in English or in any language possible at the host university.</p> <p>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/)</p> <p>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>				

MODULE CATALOGUE – HEALTH ECONOMICS - MASTER OF SCIENCE

Specialisation module: Psychosomatics and Psychotherapy					
Module Code	Workload	ECTS credits	Module Language	Module availability	Duration
1282SMPP00	180	6	German	Every term	1 - term
1	Courses Psychosomatik und Psychotherapie (Hauptvorlesung)		Contact hours 15 h	Self-Studies 165 h	Course Language German
2	Learning objectives Students... ...learn the basics of psychosomatic illnesses and are introduced to specific symptom sets. ...identify care structures, forms of treatment and training paths in psychosomatic medicine. ...apply the general principles of neurotic and psychosomatic disorders. ...identify biopsychosocial factors in the pathogenesis of the disorders listed below and basic features of their treatment. ...explain the epidemiology and relevance of the illnesses in terms of health economics.				
3	Module content <ul style="list-style-type: none"> • Psychosomatics and psychotherapy • Psychogenic eating disorders • Depression; anxiety disorders • Somatisation disorders • Dissociative disorders • Post-traumatic stress disorder 				
4	Teaching and learning methods Lectures				
5	Module entry requirements No recommendations				
6	Mode of end-of-module examination Written test: WT (60)				
7	Prerequisites for awarding of credit points A pass in the written test.				
8	Other programmes that use the module - Master Health Economics specialisation section				
9	Module manager Univ.-Prof. Dr. med. Christian Albus				
10	Miscellaneous Lecture notes on uk-online; students will be advised of additional reading at the beginning of term.				

MODULE CATALOGUE – HEALTH ECONOMICS - MASTER OF SCIENCE

Specialisation module: Naturopathy and Homeopathy					
Module Code	Workload	ECTS credits	Module Language	Module availability	Duration
1282SMNH00	180	6	German	Every term	1 - term
1	Courses Grundlagen, Grenzen und Möglichkeiten der Naturheilkunde und Homöopathie		Contact hours 15 h	Self- Studies 165 h	Course Language German
2	Learning objectives Students... ...analyse studies on natural healing and apply the methods of evidence-based medicine to them. ...are introduced to the basics of natural healing and complementary medicine. ...understand the types and principles of rehabilitation medicine. ...identify the roles played by natural healing, physical medicine and rehabilitation in health care.				
3	Module content <ul style="list-style-type: none"> • Evidence-based natural healing methods: prophylaxis and therapy options recommended by patients and service providers • Basic principles, options and limits of evidence-based natural healing • Basic principles, options and limits of evidence-based complementary medicine • Principles of physical medicine • Types of rehabilitation • Basic principles of rehabilitation 				
4	Teaching and learning methods Lectures				
5	Module entry requirements No recommendations				
6	Mode of end-of-module examination Written test: WT (60)				
7	Prerequisites for awarding of credit points A pass in the written test.				
8	Other programmes that use the module - Master Health Economics specialisation section				
9	Module manager Univ.-Prof. Dr. med. Josef Beuth				
10	Miscellaneous The compulsory reading list will be published before the start of term				

MODULE CATALOGUE – HEALTH ECONOMICS - MASTER OF SCIENCE

Specialisation module: Clinical Environmental Medicine					
Module Code	Workload	ECTS credits	Module Language	Module availability	Duration
1282SMKU00	180	6	German	Every term	1 - term
1	Courses Klinische Umweltmedizin		Contact hours 30 h	Self- Studies 150 h	Course Language German
2	Learning objectives Students... ...discuss aspects of the relationship between humans and their environment that influence health and illness. ...analyse biomonitoring analyses. ...identify links between environmental and occupational factors, e.g. shift work and impacts on health. ...examine epidemiological studies in environmental medicine. ...determine harmful potential of substances that are hazardous to health.				
3	Module content <ul style="list-style-type: none"> • Basic principles of environmental medicine of relevance to public health • The role of clinical environmental medicine in prevention • Links between environmental factors, illnesses and disorders • Determination of harmful potential and monitoring of substances hazardous to health • Epidemiological studies in environmental medicine 				
4	Teaching and learning methods Lectures				
5	Module entry requirements No recommendations				
6	Mode of end-of-module examination Written test: WT (60)				
7	Prerequisites for awarding of credit points A pass in the written test.				
8	Other programmes that use the module - Master Health Economics specialisation section				
9	Module manager Univ.-Prof. Dr. med. Thomas Erren				
10	Miscellaneous The compulsory reading list will be published before the start of term				

MODULE CATALOGUE – HEALTH ECONOMICS - MASTER OF SCIENCE

Specialisation module: Prevention and Health Promotion					
Module Code	Workload	ECTS credits	Module Language	Module availability	Duration
1282SMPG00	180	6	German	Every term	1 - term
1	Courses Prävention und Gesundheitsförderung		Contact hours 30 h	Self-Studies 150 h	Course Language German
2	Learning objectives Students... ...employ the basic terminology and concepts of prevention. ...assess screening measures. ...identify measures to achieve behavioural change. ...can distinguish between prevention activities focusing on the individual's environment and health promotion activities in various settings (workplace and hospital).				
3	Module content I. Fundamentals Prevention in doctors' surgeries and in hospitals: basic terminology and concepts II. Secondary prevention - Screening Screening: breast cancer, cancer of the colon, childhood cancer III. Primary prevention through behavioural change How do I change patients' health and prevention habits? Prevention of smoking, obesity and high blood pressure IV. Primary prevention through prevention activities focusing on the individual's environment Prevention activities focusing on the individual's environment and health promotion activities in hospitals). Patient safety in hospitals and doctors' surgeries/practices				
4	Teaching and learning methods Lectures				
5	Module entry requirements No recommendations				
6	Mode of end-of-module examination Written test: WT (60)				
7	Prerequisites for awarding of credit points A pass in the written test.				
8	Other programmes that use the module - Master Health Economics specialisation section				
9	Module manager Jun.-Prof. PD Dr. Nicole Ernstmann				
10	Miscellaneous The compulsory reading list will be published before the start of term				

MODULE CATALOGUE – HEALTH ECONOMICS - MASTER OF SCIENCE

Specialisation module: Medical Sociology					
Module Code	Workload	ECTS credits	Module Language	Module availability	Duration
1282SMMS00	180	6	German	Every second term – spring term	1 - term
1	Courses Medizinische Soziologie		Contact hours 30 h	Self-Studies 150 h	Course Language German
2	Learning objectives Students... ...are familiar with the basic principles of sociology as applied in core areas of medicine.				
3	Module content <ul style="list-style-type: none"> • Descriptive and social epidemiology • Micro and macro-models of pathogenesis • Physician-patient interaction • Prevention and health promotion • Rehabilitation • Health care system: needs, demand and influencing patient's behaviour in the health care system; • The physician's profession and the health care system • Empirical social research methods 				
4	Teaching and learning methods Lectures				
5	Module entry requirements No recommendations				
6	Mode of end-of-module examination Written test: WT (60)				
7	Prerequisites for awarding of credit points A pass in the written test.				
8	Contribution to overall mark - Master Health Economics specialisation section				
9	Module manager Jun.-Prof. PD Dr. Nicole Ernstmann				
10	Miscellaneous The aim is to give students an overview of how sociological content is used in medicine. The compulsory reading list will be published before the start of term				

MODULE CATALOGUE – HEALTH ECONOMICS - MASTER OF SCIENCE

Specialisation module: Fields of Competence					
Module code	Workload	ECTS credits	Module Language	Module availability	Duration
1282SMKo00	180	6	German	Every term	1 - term
1	Courses Kompetenzfelder		Contact hours 30 h	Self-Studies 150 h	Course Language German
2	Learning objectives Students... ...analyse selected clinical case studies ...describe the aetiology and pathogenesis of, therapy for and complications in selected illnesses ...analyse and assess cost/benefit analyses and cost of illness studies on the selected illnesses ...assess measures to prevent the selected illnesses ...examine and assess medical, health policy and health economics factors in chronic diseases				
3	Module content <ul style="list-style-type: none"> • Metabolic syndrome • Colorectal carcinoma • Diabetes mellitus • Hypertension • Coughs and colds • Heart failure 				
4	Teaching and learning methods Lectures				
5	Module entry requirements No recommendations				
6	Mode of end-of-module examination Written test: WT (60)				
7	Prerequisites for awarding of credit points A pass in the written test.				
8	Contribution to overall mark - Master Health Economics specialisation section				
9	Module manager Univ.-Prof. Dr. med. Stephanie Stock				
10	Miscellaneous The lectures are also attended by medical students in the preclinical stage of their studies. The seminars accompanying the lectures are only for students of health economics and are intended to provide a review and deeper examination of the lecture content.				

3.5.3 Supplementary section Health Economics

Supplementary module: Occupational Medicine, Social Medicine					
Module Code	Workload	ECTS credits	Module Language	Module availability	Duration
1282EMAS00	180	6	German	Every term	1 - term
1	Courses Arbeitsmedizin, Sozialmedizin		Contact hours 30 h	Self-Studies 150 h	Course Language German
2	Learning objectives Students... ...assess work-related causes of health hazards and identify preventive measures based on their findings. ...analyse measures for maintaining and restoring individual fitness to work and employability. ...assess workplace health promotion projects.				
3	Module content <ul style="list-style-type: none"> • The scientific basis for human factors engineering • Detection of causes and identification of preventive measures for work-related health hazards, diseases and accidents • Measures to ensure individual fitness to work and employability are maintained and restored • Workplace health promotion and prevention 				
4	Teaching and learning methods Lectures				
5	Module entry requirements No recommendations				
6	Mode of end-of-module examination Written test: WT (60)				
7	Prerequisites for awarding of credit points A pass in the written test.				
8	Contribution to overall mark - Master Health Economics supplementary section				
9	Module manager Univ.-Prof. Dr. med. Thomas Erren				
10	Miscellaneous The reading list will be announced in the first lecture.				

MODULE CATALOGUE – HEALTH ECONOMICS - MASTER OF SCIENCE

Supplementary module: Legal Medicine					
Module Code	Workload	ECTS credits	Module Language	Module availability	Duration
1282EMRe00	180	6	German	Every term	1 - term
1	Courses Rechtsmedizinische Grundlagen einschließlich Ärztlicher Berufskunde		Contact hours 30 h	Self-Studies 150 h	Course Language German
2	<p>Learning objectives</p> <p>Students...</p> <p>...are familiar with the basic principles of the physician's profession and medical self-governance structures: professional code of conduct [Berufsordnung], medical licensing regulations [Approbationsordnung], medical associations [Kammern], professional jurisdiction [Berufsgerichtsbarkeit], expert commission[Gutachterkommission].</p> <p>...can assess whether the procedure for informing a patient and gaining his/her consent prior to an intervention has been conducted correctly and in its entirety.</p> <p>...are familiar with the special duties incumbent upon physicians with regard to confidentiality, provision of information and notification of the authorities;medical documention and handling of patient data .</p> <p>...are familiar with various types of expert reports and how they differ in terms of form and content.</p>				
3	<p>Module content</p> <ul style="list-style-type: none"> • The physician's profession and professional code of conduct , professional jurisdiction • Expert commission of the chambers of physicians • Pre-intervention information for the patient and patient consent • Duty of confidentiality, right to information, obligation to notify the authorities • Documentation duty, right of access to medical records • Treatment errors and breach of duty of care in criminal and civil procedures • Physicians in criminal procedures • Euthanasia, suicide, living wills • Treatment attempts and clinical experiments, ethics committees • Dealing with the press, written interviews and statements as a physician • Writing expert reports 				
4	<p>Teaching and learning methods</p> <p>Lectures</p>				
5	<p>Module entry requirements</p> <p>No recommendations</p>				
6	<p>Mode of end-of-module examination</p> <p>Oral examination: OE (30)</p>				
7	<p>Prerequisites for awarding of credit points</p> <p>A pass in the oral examination.</p>				
8	<p>Contribution to overall mark</p> <p>- Master Health Economics supplementary section</p>				
9	<p>Module manager</p> <p>Prof. Dr. Markus Rothschild</p>				
10	<p>Miscellaneous</p> <p>The compulsory reading list will be published at the start of term</p>				

MODULE CATALOGUE – HEALTH ECONOMICS - MASTER OF SCIENCE

Supplementary module: Health and Macroeconomics					
Module Code	Workload	ECTS credits	Module Language	Module availability	Duration
1302EMHM00	180	6	English	Every second term – fall term	1 - term
1	Courses Demographics in Health and Macroeconomics		Contact hours 30 h	Self-Studies 150 h	Course Language English
2	Learning objectives Students... ...are familiar with the relevant mechanisms in health economics/macroeconomics. ... gain insights into macroeconomic factors in health care. ... build on their presentation and writing skills.				
3	Module content • Long-term financing problems and solutions in health care • Current issues in macroeconomics/health economics				
4	Teaching and learning methods Seminar				
5	Module entry requirements Recommended: Core module Imperfect Information in Health Care Markets				
6	Mode of end-of-module examination Combined examination: PRES, TP				
7	Prerequisites for awarding of credit points A pass in the combined examination				
8	Contribution to overall mark -Master Health Economics supplementary section				
9	Module manager CMR Center for Macroeconomic Research N.N.				
10	Miscellaneous				

MODULE CATALOGUE – HEALTH ECONOMICS - MASTER OF SCIENCE

Supplementary module: Sociology of Health					
Module Code	Workload	ECTS credits	Module Language	Module availability	Duration
1320EMSH00	180	6	English	Every second term – fall term	1 - term
1	Courses Sociology of Health		Contact hours 30 h	Self-Studies 150 h	Course Language English
2	<p>Learning objectives</p> <p>Students...</p> <p>...discuss various aspects of health inequalities from a sociological perspective. They identify and theoretically differentiate the social mechanisms that cause health inequalities and explore them using empirical findings. This approach is intended to interpret and explain in sociological terms individual behaviour and social dynamics in relation to health. Students also develop practical solutions.</p> <p>...engage in academic discourse.</p>				
3	<p>Module content</p> <ul style="list-style-type: none"> • Measurement of health in social surveys • SES and health • Role of neighbourhood context and health • Gender differences and health • Work and health • Family and health • Healthy migrant effect • Social networks and health • Religion and health • Health problems in an ageing society • HIV/AIDS • Mortality • Demographic change and health care expenditure 				
4	<p>Teaching and learning methods</p> <p>Seminar</p>				
5	<p>Module entry requirements</p> <p>No recommendations</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>A pass in the combined examination.</p>				
8	<p>Contribution to overall mark</p> <p>- Master Health Economics supplementary section</p>				
9	<p>Module manager</p> <p>Univ.-Prof. Dr. Karsten Hank</p>				
10	<p>Miscellaneous</p> <p>Compulsory reading will be announced each term.</p>				

MODULE CATALOGUE – HEALTH ECONOMICS - MASTER OF SCIENCE

Specialisation module: Business Ethics					
Module code 1253SBuEt0	Workload 180	ECTS credits 6	Module Language English	Module availability Every second term – fall term	Duration 1 term
1	Courses Business Ethics and Continental Philosophy		Contact hours 60 h	Self-Study 120 h	Course Language English
2	Learning objectives Students... ...identify and distinguish between ethically relevant issues based on philosophical approaches. ...discuss normative arguments and use this as a basis upon which to evaluate case studies from the world of business. ...identify their responsibility as players in companies and other areas of business. ...develop and explain the rationale behind effective strategies for enhancing ethical conduct in companies. ...accumulate a sound knowledge of philosophical perspectives and ethical debates on business conduct.				
3	Module content <ul style="list-style-type: none"> • Ethical approaches and how they are applied in business • Reflection on current business ethics debates (e.g. concerning globalisation, sustainability, corporate responsibility, pay systems) • Independent presentation of approaches developed • Discussion of case studies from a normative and practical perspective 				
4	Teaching and learning methods Lectures Exercises				
5	Module entry requirements No recommendations				
6	Mode of end-of-module examination Written test: WT (60)				
7	Prerequisites for awarding of ECTS credits A pass in the written test.				
8	Other programmes that use the module -Master Business Administration specialisation section (Corporate Development) -Master Business Administration supplementary section (Accounting, Marketing, Media Management, Supply Chain Management) -Master International Management supplementary section -Master Economics supplementary section -Master Information Systems supplementary section -Master Health Economics supplementary section -Master Economic Education supplementary section -Master Regional Studies China -Master Geography -Master (Economic) Mathematics (Minor Economics)				
9	Module manager Univ.-Prof. Dr. Bernd Irlenbusch				
10	Miscellaneous This course provides students with a sound knowledge of philosophical perspectives and ethical debates on business conduct.				

MODULE CATALOGUE – HEALTH ECONOMICS - MASTER OF SCIENCE

Specialisation module: Strategic Development					
Module code	Workload	ECTS credits	Module Language	Module availability	Duration
1253SSIDE0	180	6	English	Every second term – fall term	1 term
1	Courses Strategic Development		Contact hours 60 h	Self-Study 120 h	Course Language English
2	Learning objectives Students... ...recognise different perspectives and drivers of corporate development. ...identify and contrast different strategy options regarding organisational growth and downsizing. ...can distinguish between different tools and activities for supporting innovation in businesses. ...apply the tools and approaches they have learned about to real-life case studies.				
3	Module content <ul style="list-style-type: none"> • Corporate development models • Growth strategies • Mergers and acquisitions (M&A) • Downsizing • Disruptive innovation • Innovation strategies 				
4	Teaching and learning methods Lectures Exercises				
5	Module entry requirements No recommendations				
6	Mode of end-of-module examination Combined examination: WT (60), PRES				
7	Prerequisites for awarding of ECTS credits A pass in the combined examination.				
8	Other programmes that use the module <ul style="list-style-type: none"> -Master Business Administration specialisation section (Corporate Development) -Master Business Administration supplementary section (Accounting, Marketing, Media Management, Supply Chain Management) -Master Economics supplementary section -Master Information Systems supplementary section -Master Health Economics supplementary section -Master Economic Education supplementary section -Master Regional Studies China -Master Geography -Master (Economic) Mathematics (Minor Economics) 				
9	Module manager Univ.-Prof. Dr. Mark Ebers				
10	Miscellaneous The course gives students an overview of the determinants of organisational development. The module aims to teach students analytical skills for understanding corporate development phenomena and to give them the opportunity to practise using them.				

MODULE CATALOGUE – HEALTH ECONOMICS - MASTER OF SCIENCE

Specialisation module: Strategic Human Resource Management					
Module code	Workload	ECTS credits	Module Language	Module availability	Duration
1253SSHRM0	180	6	English	Every second term – fall term	1 term
1	Courses Strategic Human Resource Management		Contact hours 60 h	Self-Study 120 h	Course Language English
2	Learning objectives Students... ...acquire an understanding of the value contributed by HR work and analyse potential drivers. ...develop standards by which to assess different HR strategies. ...discuss instruments for talent and performance management and develop recommendations for applying them. ...evaluate the interests of different stakeholders based on corporate case studies and can explain the reasons behind them. ...design and evaluate employee surveys. ...analyse HR management indicator systems. ...determine the contribution corporate culture makes to an organisation's performance.				
3	Module content <ul style="list-style-type: none"> • Corporate strategy – an economic perspective • Human capital and value creation • Talent management and careers • Performance management • HR development • Corporate culture • Measurement of value contributed and evidence-based HR management 				
4	Teaching and learning methods Lectures Exercises				
5	Module entry requirements No recommendations				
6	Mode of end-of-module examination Written test: WT (60)				
7	Prerequisites for awarding of ECTS credits A pass in the written test.				
8	Other programmes that use the module <ul style="list-style-type: none"> -Master Business Administration specialisation section (Corporate Development) -Master Business Administration supplementary section (Accounting, Marketing, Media Management, Supply Chain Management) -Master International Management supplementary section -Master Economics Supplementary section -Master Information Systems supplementary section -Master Health Economics supplementary section -Master Economic Education supplementary section -Master Regional Studies China -Master Geography -Master (Economic) Mathematics (Minor Economics) 				
9	Module manager Univ.-Prof. Dr. Dirk Sliwka				
10	Miscellaneous The module teaches students how HR management creates economic value and helps imple-				

	ment corporate strategies.
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MODULE CATALOGUE – HEALTH ECONOMICS - MASTER OF SCIENCE

Specialisation Module Value-Based Controlling					
Module code	Workload	ECTS credits	Module Language	Module availability	Duration
1016SVbCo0	180	6	English	Spring Term	1 Term
1	Courses Value-Based Controlling		Contact hours 60 h	Self-Study 120 h	Course Language English
2	Learning objectives Students... ...identify the disadvantages of traditional financial indicators. ...assess capital market characteristics and their implications in terms of valuation. ...apply investment calculuses to business valuations. ...distinguish between valuation techniques, especially with regard to the underlying assumptions. ...devise estimates for forecasting cash flow and profit and determining cost of capital. ...examine published financial statement data. ...determine business value based on multiplier, DCF and EVA methods.				
3	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 • Implementation of a value-based strategy • The Ohlson model 				
4	Teaching and learning methods Lectures Exercises				
5	Module entry requirements Recommended: 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 ECTS credits A Pass in the written test.				
8	Other programmes that use the module <ul style="list-style-type: none"> -Master Business Administration Specialisation section (Accounting) -Master Business Administration Supplementary section (all) -Master International Management Supplementary section -Master Economics Supplementary section -Master Information Systems Supplementary section -Master Economic Education Supplementary section -Master Regional Studies China -Master Geography - Master (Economic) Mathematics (Minor Business Administration) 				
9	Module manager Univ.-Prof. Dr. Carsten Homburg				
10	Miscellaneous Relevant reading will be announced at the beginning of each term. The students deepen the knowledge and techniques learned in class through applied exercises.				

MODULE CATALOGUE – HEALTH ECONOMICS - MASTER OF SCIENCE

Specialisation module: Supply Chain Strategy					
Module code	Workload	ECTS credits	Module Language	Module availability	Duration
1271SMSC06	180	6	English	Every second term – fall term	1 term
1	Courses Supply Chain Strategy (Fall term)		Contact hours 60 h	Self-Studies 120 h	Course Language English
2	Learning objectives Students... ...expand their knowledge of key concepts used in implementing supply chain strategies. ...analyse and assess strategic decisions and design aspects in supply chains. ...identify and apply product-development methodsdiscuss the implementability of optimisation methods in the area of production processes and other areas. ...implement production processes in a team, test and assess the solutions they have devised. ...assess long-term effects of strategic decisions under uncertainty.				
3	Module content <ul style="list-style-type: none"> • Strategy development • Product development • Process design • Simulation • Applications 				
4	Teaching and learning methods Lectures Exercises				
5	Module entry requirements No recommendations				
6	Mode of end-of-module examination Written test: PO				
7	Prerequisites for awarding of credit points A pass in the combined examination.				
8	Other programmes that use the module <ul style="list-style-type: none"> -Master Business Administration specialisation section (Marketing, Supply Chain Management) -Master Business Administration supplementary section (Accounting, Supply Chain Management, Marketing, Media Management) -Master Economics supplementary section -Master Information Systems supplementary section -Master Health Economics supplementary section -Master Economic Education supplementary section -Master Regional Studies China -Master Geography -Master (Economic) Mathematics (Minor Business Administration and Economics) 				
9	Module manager Univ.-Prof. Dr. Fabian J. Sting				
10	Miscellaneous				

MODULE CATALOGUE – HEALTH ECONOMICS - MASTER OF SCIENCE

Specialisation module Financial Institutions Management					
Module code	Workload	ECTS credits	Module Language	Module availability	Duration
1259SFIMa0	360	12	English	Every second term – fall term	1 term
1	Courses a) Insurance Economics b) Risk Management		Contact hours a) 60 h b) 60 h	Self-Studies a) 120 h b) 120 h	Course Language a) English b) English
2	Learning objectives Students... ...analyse various risk measures in terms of effective risk/return management. ...apply risk measures to decision-making problems in bank operations. ...assess regulatory standards intended to limit risk. ...are familiar with the methods for measuring market and default risks. ...assess instruments for controlling market and default risks. ...analyse insurance supply and demand. ...can explain information symmetry and asymmetry. ...assess the institutional parameters for insurance markets. ...calculate premiums and reserves in life and indemnity insurance.				
3	Module content 1. Risk Management <ul style="list-style-type: none"> • Risk control on perfect and imperfect financial markets • Risk and risk measures • Management of liquidity risk • Management of interest rate risk • Management of default risk 2. Insurance Economics <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 				
4	Teaching and learning methods Lectures Exercises				
5	Module entry requirements No recommendations				
6	Mode of end-of-module examination Written test: WT (120)				
7	Prerequisites for awarding of credit points A pass in the written test. Both courses must be attended; the examination refers to topics of both courses.				
8	Other programmes that use the module -Master Business Administration specialisation section (Finance) -Master Business Administration supplementary section (Accounting, Corporate Development, Finance, Marketing, Supply Chain Management) -Master International Management supplementary section -Master Economics supplementary section -Master Information Systems supplementary section -Master Health Economics supplementary section -Master Economic Education supplementary section				

MODULE CATALOGUE – HEALTH ECONOMICS - MASTER OF SCIENCE

	-Master Regional Studies China -Master Geography -Master (Economic) Mathematics (Minor Business Administration and Economics)
9	Module manager Univ.-Prof. Dr. Thomas Hartmann-Wendels Univ.-Prof. Dr. Heinrich R. Schradin
10	Miscellaneous

MODULE CATALOGUE – HEALTH ECONOMICS - MASTER OF SCIENCE

Specialisation module: Marketing III					
Module code	Workload	ECTS credits	Module Language	Module availability	Duration
1266SMark3	180	6	English	Every second term – spring term	1 term
1	Courses Service and Media Marketing		Contact hours 60 h	Self-Study 120 h	Course Language English
2	Learning objectives Students... ...acquire a wide range of skills with which to manage specific products or services. ...identify, interpret and discuss theories, strategies and methods related to the management of various products/services. ...analyse and assess the planning and implementation of the marketing mix based on examples of specific products/services. ...compare the challenges involved in managing specific products/services and identify and evaluate current trends and best practice. ...demonstrate the skills they have learned for managing specific products/services.				
3	Module content The module includes conceptual and applied elements, including case studies, discussions and guest speakers from the world of marketing. Students are required to do their own reading independently in addition to attending lectures and participating in exercises.				
4	Teaching and learning methods Lectures Exercises				
5	Module entry requirements Recommended: Basic knowledge of multivariate methods.				
6	Mode of end-of-module examination Written test: WT (60)				
7	Prerequisites for awarding of ECTS credits A pass in the written test.				
8	Other programmes that use the module - Master Business Administration specialisation section (Marketing) -Master Business Administration supplementary section (Accounting, Corporate Development, Media Management, Supply Chain Management) -Master International Management supplementary section -Master Economics supplementary section -Master Health Economics supplementary section -Master Economic Education supplementary section -Master Regional Studies China -Master Geography - Master (Economic) Mathematics (Minor Economics)				
9	Module manager Univ.-Prof. Dr. Marc Fischer				
10	Miscellaneous				

MODULE CATALOGUE – HEALTH ECONOMICS - MASTER OF SCIENCE

Studies Abroad in Management I (Master)					
Module Code	Workload	ECTS credits	Module Language	Module availability	Duration
1014SAMM01	180	6	See curriculum overview	Every term	1 - term
1	Courses		Contact hours	Self-Studies	Course Language
2	<p>Learning objectives</p> <p>Students...</p> <p>...describe approaches to health economics, business administration, economics and social sciences from an international perspective.</p> <p>...explain international issues in the areas of health economics, business administration, economics and social science.</p> <p>...discuss and compare different theories and approaches in health economics, business administration, economics and social science.</p> <p>...develop new intellectual perspectives with regard to their own education.</p> <p>...are better equipped to deal with the dynamic, global dimensions of their professional future in an effective manner.</p>				
3	<p>Module content</p> <p>Depends on chosen course.</p>				
4	<p>Teaching and learning methods</p>				
5	<p>Module entry requirements</p> <p>Recommended: Depends on chosen course.</p>				
6	<p>Mode of end-of-module examination</p> <p>TR</p> <p>Depends on chosen course.</p>				
7	<p>Prerequisites for awarding of credit points</p> <p>Depends on chosen course.</p>				
8	<p>Other programmes that use the module</p> <p>- Master Health Economics supplementary section</p>				
9	<p>Module manager</p> <p>Alle Areas (Jr.-Prof) ZIB</p>				
10	<p>Miscellaneous</p> <p>Language: Can be offered in English or in any language possible at the host university.</p> <p>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/)</p> <p>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>				

MODULE CATALOGUE – HEALTH ECONOMICS - MASTER OF SCIENCE

Studies Abroad in Management II (Master)					
Module Code	Workload	ECTS credits	Module Language	Module availability	Duration
1014SAMM02	180	6	See curriculum overview	Every term	1 - term
1	Courses		Contact hours	Self-Studies	Course Language
2	<p>Learning objectives</p> <p>Students...</p> <p>...describe approaches to health economics, business administration, economics and social sciences from an international perspective.</p> <p>...explain international issues in the areas of health economics, business administration, economics and social science.</p> <p>...discuss and compare different theories and approaches in health economics, business administration, economics and social science.</p> <p>...develop new intellectual perspectives with regard to their own education.</p> <p>...are better equipped to deal with the dynamic, global dimensions of their professional future in an effective manner.</p>				
3	<p>Module content</p> <p>Depends on chosen course.</p>				
4	<p>Teaching and learning methods</p>				
5	<p>Module entry requirements</p> <p>Recommended: Depends on chosen course.</p>				
6	<p>Mode of end-of-module examination</p> <p>TR</p> <p>Depends on chosen course.</p>				
7	<p>Prerequisites for awarding of credit points</p> <p>Depends on chosen course.</p>				
8	<p>Other programmes that use the module</p> <p>- Master Health Economics supplementary section</p>				
9	<p>Module manager</p> <p>Alle Areas (Jr.-Prof) ZIB</p>				
10	<p>Miscellaneous</p> <p>Language: Can be offered in English or in any language possible at the host university.</p> <p>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/)</p> <p>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>				

MODULE CATALOGUE – HEALTH ECONOMICS - MASTER OF SCIENCE

Specialisation Module Operative and Strategic Controlling					
Module code	Workload	ECTS credits	Module Language	Module availability	Duration
1016SOSCo0	360	12	English	Fall Term	1 Term
1	Courses a) Operative Controlling b) Strategic Controlling		Contact hours a) 60 h b) 60 h	Self-Studies a) 120 h b) 120 h	Course Language a) English b) English
2	<p>Learning objectives</p> <p>Students...</p> <ul style="list-style-type: none"> ...identify the main controlling strategies. ...learn about different types of interdependency and assess analytical and heuristic methods with which to coordinate said interdependencies. ...deepen their knowledge of different “conventional” cost accounting techniques (including actual and standard costing, full-cost accounting and variable costing). ...learn methods for conducting cost variance analyses. ...understand the Peinreich-Lücke theorem and the relationship between investment appraisal and cost accounting. ...use linear programming for production planning and dynamic programming for measuring inter-temporal interdependencies. ...examine the benefit of additional information under uncertainty using the concept of “information value”. ...analyse the principal-agency theory and use controlling instruments to help solve any incentive problems that arise. ...learn the main controlling strategies for solving coordination problems. ...compare the pros and cons of proactive cost management and early cost budgeting. ...examine the more recent instruments of cost management (including lifecycle, target and activity-based costing). ...discuss the basics of benchmarking. ...conduct case studies using the skills they have acquired. 				
3	<p>Module content</p> <p>Operative controlling:</p> <ul style="list-style-type: none"> • Fundamentals of controlling • Theory, strategies and methods to support controlling activities • Controlling instruments <p>Strategic controlling:</p> <ul style="list-style-type: none"> • Introduction to strategic controlling • Conventional cost management instruments • More recent cost management instruments • Benchmarking 				
4	<p>Teaching and learning methods</p> <p>Lectures Exercises</p>				
5	<p>Module entry requirements</p> <p>Recommended: Basic knowledge of internal and external accounting, investment, financing and decision theory.</p>				
6	<p>Mode of end-of-module examination</p> <p>Written test: WT (120)</p>				
7	<p>Prerequisites for awarding of credit points</p> <p>Passing the written test. Both courses must be attended; the examination refers to topics of both courses.</p>				
8	<p>Other programmes that use the module</p>				

MODULE CATALOGUE – HEALTH ECONOMICS - MASTER OF SCIENCE

	<ul style="list-style-type: none"> -Master Business Administration specialisation section (Accounting) -Master Business Administration supplementary section (all) -Master International Management supplementary section -Master Economics supplementary section -Master Information Systems supplementary section -Master Economic Education supplementary section -Master Regional Studies China -Master Geography -Master (Economic) Mathematics (Minor Business Administration)
9	<p>Module manager Univ.-Prof. Dr. Carsten Homburg</p>
10	<p>Miscellaneous Relevant reading will be announced at the beginning of each term. The students deepen the knowledge and techniques learned in class through applied exercises.</p>

3.5.4 Master's thesis

Master's thesis in the degree programme Health Economics					
Module Code	Workload	Leistungspunkte	Module Language	Module availability	Duration
1282MaGe00	720	24	German or English	Every term	1 term
1	Courses		Contact hours	Self-Studies	Course Language German or English
2	<p>Learning objectives</p> <p>Students...</p> <ul style="list-style-type: none"> ...are familiar with current debate on the theory and methods of their subject area and make use of it through their own independent research work. ...identify questions and issues that meet academic requirements. ...work on these questions independently, using the main primary and secondary literature. ...formulate theoretical and methodical (qualitative and/or quantitative) approaches to academic 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. 				
3	<p>Module content</p> <p>The topic of the master's thesis on the Health Economics programme must come from the core and advanced area or the specialisation area</p>				
4	<p>Teaching and learning methods</p> <p>Master's thesis</p>				
5	<p>Module entry requirements</p> <p>60 ECTS credits obtained</p>				
6	<p>Mode of end-of-module examination</p> <p>Written test</p>				
7	<p>Prerequisites for awarding of credit points</p> <p>A pass in the written test.</p>				
8	<p>Other programmes that use the module</p> <p>Master Health Economics Thesis</p>				
9	<p>Contribution to overall mark</p>				
10	<p>Module manager</p> <p>Univ.-Prof. Dr. Ludwig Kuntz</p>				
11	<p>Miscellaneous</p> <p>The master's thesis may be written in German or English.</p>				