



Friedrich-Alexander-Universität
School of Business,
Economics and Society

Master's degree program

Economics

Module handbook—
summer semester 2025

dmse.wiso.fau.de

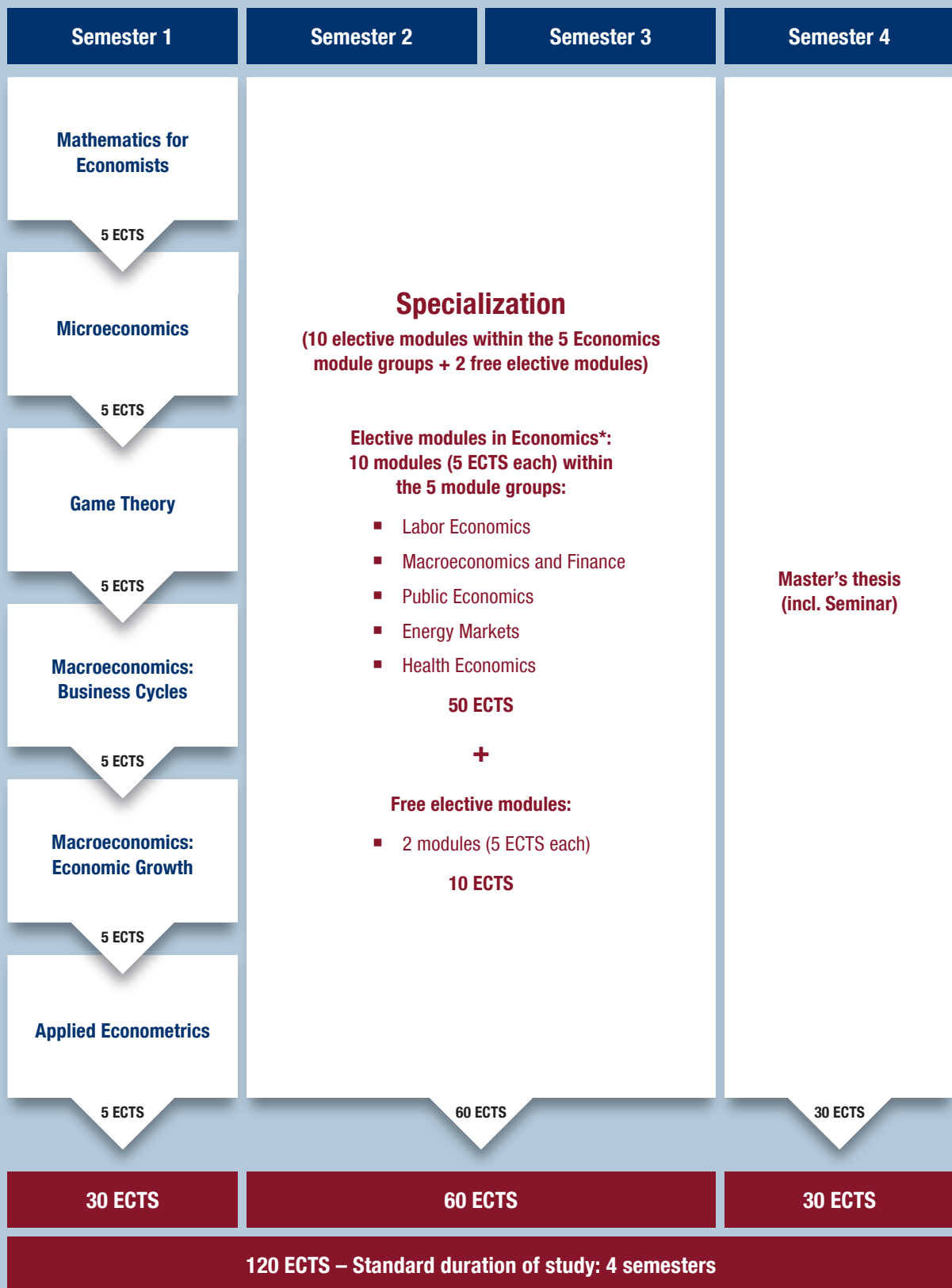
Advanced
knowledge



Master of Science in Economics

MASTER ECONOMICS (MSE)

Study progress



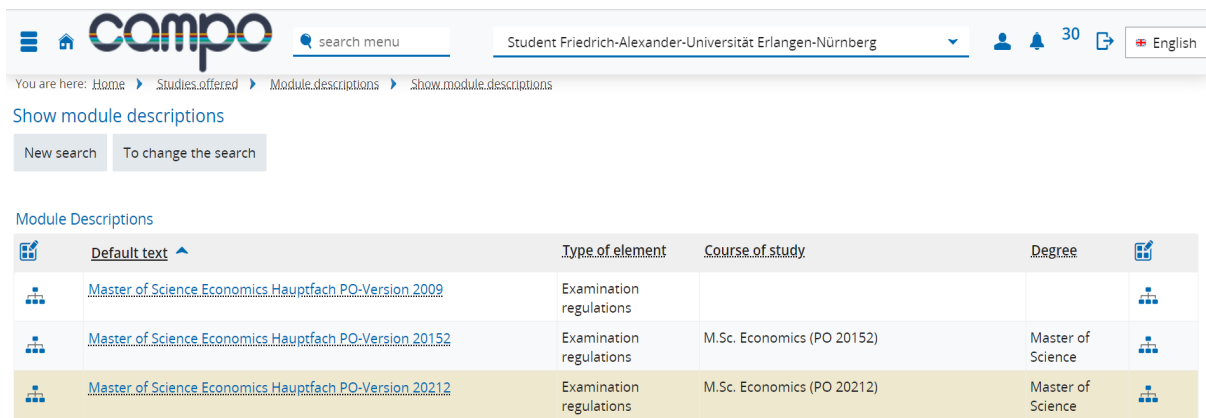
* For information on current elective modules, refer to the module handbook.

Updated 31 August, 2021. All information is without guarantee of correctness and completeness and may be subject to change without notice. The current study plan is part of the examination regulations. For further information, visit www.wiso.fau.de/pruefungsordnung.

Compulsory modules

Elective modules

Instructions for creating course schedule



The screenshot shows the Campo website interface. At the top, there is a navigation bar with the Campo logo, a search menu, and the university name: Student Friedrich-Alexander-Universität Erlangen-Nürnberg. Below the navigation bar, there is a breadcrumb trail: Home > Studies.offered > Module.descriptions > Show.module.descriptions. The main content area is titled "Show module descriptions" and contains a search bar with "New search" and "To change the search" buttons. Below the search bar, there is a section titled "Module Descriptions" which contains a table with the following data:

Default text	Type.of.element	Course.of.study	Degree
Master of Science Economics Hauptfach PO-Version 2009	Examination regulations		
Master of Science Economics Hauptfach PO-Version 20152	Examination regulations	M.Sc. Economics (PO 20152)	Master of Science
Master of Science Economics Hauptfach PO-Version 20212	Examination regulations	M.Sc. Economics (PO 20212)	Master of Science

Students can find the module description in Campo. You can either search for a particular module or you can search Master of Science Economics and in the folder Hauptfach PO-Version 20212 you can see all modules related to the MSE program.

Guidance on how to create your final course schedule can be found on Campo:
https://www.doc.zuv.fau.de//L2/Anleitungen/Studierende/English/Academic_progress_and_schedule.pdf

Notes on the type and scope of examination performances

The form of examination conducted at the School of Business, Economics and Society is defined in §17 Prüfungsarten der Master-Rahmenprüfungsordnung (MPO). Furthermore, the extent of examinations is regulated by §§18 until 24 in the MPO. The examination regulation can be accessed via the following link:

<http://www.zuv.fau.de/universitaet/organisation/recht/studiensatzungen/rw.shtml#>

Unless the individual module description states otherwise, the following formats of examination along with their scope is valid at the department:

Formats of examination (German translation)	Scope Master
1. Written examination (Klausur)	60/90/120 Minutes
2. Written assignment (Hausarbeit/Seminararbeit)	Ca. 15 Pages
3. Oral examination (Mündliche Prüfung)	Ca. 20 Minutes
4. Presentation (Referat/Präsentation)	Ca. 20/25 Minutes
5. Performance Assessment	Ca. 10 Minutes and/or 10 Pages
6. Case study (Fallstudie)	Ca. 25 Minutes and/or 10 Pages

Specialisations

Students can choose to study **specialisations**, in which a minimum of 15 ECTS are to be completed. If a module is allocated to more than one specialisation students may decide themselves which specialisation it is to be allocated to. To avoid confusion, please note that *specialisations* and *module groups* are different concepts!

The five available specialisations and their respective modules are the following:

Labor Economics
Macroeconomics and Finance
Public Economics
Energy Markets
Health Economics

	Term	Language	Module group*
Miscellaneous (Modules that do not belong to any specific specialisation)			
Economic internship (56441)**	W/S		<i>Public</i>
Exchange module 1 (55691)	W/S		<i>Public</i>
Exchange module 2 (55692)	W/S		<i>Public</i>

***Module groups** (Modulgruppen) as defined in the examination regulations and study plan: Labor (Labor Economics), Public (Public Economics), Macro (Macroeconomics and Finance), Energy (Energy Markets), and Health (Health Economics).

****Economic internship**

Students can gain up to 5 ECTS credits from an internship in economics during their studies. The credits can be allocated to one of the listed specialisations or to miscellaneous, depending on the content of the internship. For more information on module 56441, please see the module description.

Language classes

Students can take up to 10 ECTS from language classes. These ECTS would be part of the elective area. The first course can be from any language level (A1-C1), except for German classes where students cannot get credited for courses lower than B1. The second language course has to be on level at least B2.

Free Elective Modules

Students choose two modules (5 ECTS credits each) from all the modules approved for this programme by the programme coordinators. Students can choose courses from the module handbook in the specialisation or the miscellaneous section. Further language courses, exchange modules and the economic internship module can be selected. Modules not offered by the Faculty may be taken if they have been approved in advance. Modules must be selected on the basis that the student will acquire more advanced knowledge and skills in economics at the Master's level than at the Bachelor's level.

Module description

for the degree programme

Master of Science Economics

(Version of examination regulation: 20212)

for the summer term 2025

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1	Module name 1997	Modul Masterarbeit (M.Sc. Economics 20212) Master's thesis module	30 ECTS
2	Courses / lectures	Seminar: MA: Seminar zur Masterarbeit (2 SWS)	-
3	Lecturers	Prof. Dr. Matthias Wrede	

4	Module coordinator	
5	Contents	<p>EN: Students write their master's thesis. In the seminar students present and discuss their master's thesis.</p> <p>DE: Die Studierenden erstellen Ihre Masterarbeit. Im Rahmen des Seminars präsentieren und diskutieren die Studierenden ihre Masterarbeiten.</p>
6	Learning objectives and skills	<p>EN: Master's thesis: In the master's thesis students show that they are able to work on a topic or an economic issue within a prescribed period independently and with scientific methods. They can prepare the findings concisely and interpret them competently. Masters thesis seminar: Students discuss their own and other contributions to economic research. The seminar should assist students in the preparation of the masters thesis and give them important support to the independent solution and presentation of issues.</p> <p>DE: Masterarbeit: In der Masterarbeit zeigen Studierende, dass sie in der Lage sind innerhalb einer vorgegebenen Frist ein Thema bzw. eine ökonomische Fragestellung selbständig und mit wissenschaftlichen Methoden zu bearbeiten sowie die Erkenntnisse prägnant aufzubereiten und kompetent zu interpretieren. Seminar zur Masterarbeit: Studierende diskutieren eigene und andere Beiträge zur volkswirtschaftlichen Forschung. Das Seminar soll die Studierenden bei der Anfertigung der Masterarbeit unterstützen und ihnen wichtige Hilfen zur selbständigen Lösung und Darstellung von Problemen geben.</p>
7	Prerequisites	<p>EN: Courses from the 1. 3. semesters DE: Besuch der Veranstaltungen des 1. - 3. Semesters</p>
8	Integration in curriculum	semester: 4
9	Module compatibility	Pflichtmodul Master of Science Economics 20212
10	Method of examination	<p>Presentation Written (6 Monate)</p>
11	Grading procedure	<p>Presentation (pass/fail) Written (100%)</p>
12	Module frequency	Only in summer semester
13	Resit examinations	The exams of this moduls can only be resit once.
14	Workload in clock hours	Contact hours: 30 h

		Independent study: 120 h
15	Module duration	1 semester
16	Teaching and examination language	german or english
17	Bibliography	EN: Changing current research literature DE: Wechselnde aktuelle Forschungsliteratur

Compulsory modules

1	Module name 52890	Applied econometrics	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Harald Tauchmann
5	Contents	The linear Regression model based on a firm theoretical basis and using rigorous notation; endogeneity and instrumental variables estimation; the generalized regression model and heteroscedasticity, the basics of maximum likelihood estimation; using STATA® for applied econometric work
6	Learning objectives and skills	The students deepen their knowledge of linear and non-linear estimation techniques as well as their knowledge of hypotheses testing; students learn how to apply their methodical knowledge to empirical work using the software STATA® and how to interpret estimation results.
7	Prerequisites	Basic knowledge of statistics and econometrics as covered by the optional preparatory course (levelling course).
8	Integration in curriculum	semester: 1
9	Module compatibility	Pflichtbereich Master of Science Economics 20212
10	Method of examination	Written examination (90 minutes) Written exam partly single-choice
11	Grading procedure	Written examination (100%) Limited grade improvement through voluntary homework assignment possible
12	Module frequency	Only in winter semester
13	Workload in clock hours	Contact hours: 60 h Independent study: 90 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Greene, W. H. (2012): Econometric Analysis, Pearson, 7th ed.

1	Module name 53191	Microeconomics	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Johannes Rincke
5	Contents	Theory of the Consumer, Theory of the Firm, Partial Equilibrium, General Equilibrium, Anomalies
6	Learning objectives and skills	Students are made familiar with the fundamental concepts of microeconomics on an advanced level, including advanced formal mathematical methods. The lecture covers topics in the theory of the consumer, the theory of the firm, partial equilibrium, general equilibrium, and anomalies in behavior in relation to the standard model. In the Exercises course, students learn how to apply these concepts to selected economic problems in various settings. The module is of fundamental importance for Master students who want to advance to studying applied problems in all field of applied micro, including labor economics, public economics, and industrial organization.
7	Prerequisites	Basic training in formal microeconomic techniques
8	Integration in curriculum	semester: 1
9	Module compatibility	Pflichtbereich Master of Science Economics 20212
10	Method of examination	Written assignment (20 minutes) Written examination (90 minutes)
11	Grading procedure	Written assignment (20%) Written examination (80%)
12	Module frequency	Only in winter semester
13	Workload in clock hours	Contact hours: 60 h Independent study: 90 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Jehle, Geoffrey A. und Reny, Philip J. (2001), Advanced Microeconomic Theory, 2nd ed., Addison-Wesley

1	Module name 53201	Game theory	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Markus Nagler	
5	Contents	Game Theory analyzes the behavior of rational agents in decision-making situations in which several agents are involved. Unlike Decision Theory, Game Theory studies situations in which the utilities of the individual agents are not only dependent on their own decisions, but also on those of other agents. The course seeks to apply the basic game theoretical concepts (e.g., Nash equilibrium, subgame perfect equilibrium) to more complicated economic interactions. In addition, it introduces advanced concepts, such as the analysis of games with incomplete information, auction theory and elements of mechanism design.	
6	Learning objectives and skills	Students acquire a more formal understanding of game theoretical concepts and learn to differentiate between different types of games and their appropriate solution concepts. They learn the applications of these concepts to advanced economic problems. Students should be able to formally approach real-world multi-person decision problems and give economic predictions based on the equilibrium concepts studied in the course.	
7	Prerequisites	Basic knowledge of game theory and its core applications	
8	Integration in curriculum	semester: 1	
9	Module compatibility	Pflichtbereich Master of Science Economics 20212	
10	Method of examination	Written examination (90 minutes) Written assignment	
11	Grading procedure	Written examination (80%) Written assignment (20%)	
12	Module frequency	Only in winter semester	
13	Workload in clock hours	Contact hours: 60 h Independent study: 90 h	
14	Module duration	1 semester	
15	Teaching and examination language	english	
16	Bibliography	Main Textbook: Fudenberg, D. and Tirole, J. (1991), Game Theory, Cambridge, MIT Press. Krishna, V. (2002), Auction Theory, Academic Press. Further (helpful) reading: Osborne, M. and Rubenstein, A. (1994), A Course in Game Theory, Cambridge, MIT Press. Spiegler, R. (2011), Bounded Rationality and Industrial Organization, Oxford University Press.	

1	Module name 53212	Macroeconomics: Business cycles	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Christian Merkl	
5	Contents	<ul style="list-style-type: none"> • Stylized facts of the business cycle • Business cycle theories • Business cycle and the labor market • Monetary theory and policy 	
6	Learning objectives and skills	<p>Students</p> <ul style="list-style-type: none"> • learn about modern dynamic business cycle theory • learn about dynamic labor market theory (search and matching) • apply standard techniques (e.g., intertemporal optimization, loglinearization or simple simulations) • learn about modern monetary theory • compare the implications of monetary theory with modern policy making 	
7	Prerequisites	Advanced Mathematics, Macroeconomics (Bachelor)	
8	Integration in curriculum	semester: 1	
9	Module compatibility	Pflichtbereich Master of Science Economics 20212	
10	Method of examination	Written examination (60 minutes)	
11	Grading procedure	<p>Written examination (100%)</p> <p>Students can improve their grade through two assignments during the winter term: one programming assignment with Matlab (about 30 lines of code) and one analytical problem (about four written pages). This requires the written exam to be graded not worse than 4.0; the maximum improvement is 0.3 grades.</p>	
12	Module frequency	Only in winter semester	
13	Workload in clock hours	<p>Contact hours: 60 h</p> <p>Independent study: 90 h</p>	
14	Module duration	1 semester	
15	Teaching and examination language	english	
16	Bibliography	Gali, J., Monetary Policy, Inflation, and the Business Cycle: An Introduction to the New Keynesian Framework and its Applications, 2015, second edition.	

1	Module name 53221	Macroeconomics: Economic growth	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Thiess Büttner William Dean
5	Contents	The lecture is concerned with the development of the economy over time, in particular with economic growth. In a first step, the lecture considers how dynamic issues are dealt with in the context of traditional macroeconomics. We then go on and develop a dynamic model in which households, firms, and the government form expectations about future conditions and take account of future implications of current decisions. This model is varied to see implications of uncertainty and overlapping generations. Equipped with the necessary understanding of how to model economic development, we discuss the sources and limits of long-term economic growth.
6	Learning objectives and skills	<p>Students</p> <ul style="list-style-type: none"> • learn how to derive a standard macroeconomic model from a set of optimal decisions of agents and their (intertemporal) constraints • learn how to use the model for basic predictions about effects of changes in endowments and starting conditions on short- and long-term equilibria • learn to modify the basic model to take account of uncertainty, infinite time and overlapping generations and understand the difficulties that are associated with some of these extensions • learn to apply techniques of intertemporal optimization • get acquainted with basic characteristics of economic growth • learn conditions under which the macroeconomic model is consistent with continuous economic growth • learn about the limits and determinants of economic growth
7	Prerequisites	None
8	Integration in curriculum	semester: 1
9	Module compatibility	Pflichtbereich Master of Science Economics 20212
10	Method of examination	Written examination (90 minutes)
11	Grading procedure	Written examination (100%)
12	Module frequency	Only in winter semester
13	Workload in clock hours	Contact hours: 45 h Independent study: 90 h
14	Module duration	1 semester
15	Teaching and examination language	english

1	Module name 53231	Mathematics for economists	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Ricardo Correa da Silva
5	Contents	The main focus of this lecture is on vector spaces, eigenvalues, quadratic forms, analysis of n variables including Taylor derivatives, finite difference and differential equation as well as optimization.
6	Learning objectives and skills	The aim of this module is to practice common mathematical techniques, which are required for advanced courses in Economics.
7	Prerequisites	Basic knowledge as known from school and typical math courses given within Bachelor programs on Economics, see for instance Sydsætter, Knut und Hammond, Peter (2008), Essential Mathematics for Economics Analysis, Prentice Hall, or the Bachelor chapters in Mosler, Karl, Rainer Dyckerhoff und Christoph Scheicher (2009), Mathematische Methoden für Ökonomen, Springer-Verlag (in German).
8	Integration in curriculum	semester: 1
9	Module compatibility	Pflichtbereich Master of Science Economics 20212
10	Method of examination	Written examination (90 minutes)
11	Grading procedure	Written examination (100%)
12	Module frequency	Only in winter semester
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Sydsætter, Knut und Hammond, Peter (2008), Further Mathematics for Economics Analysis, Prentice Hall; Mosler, Karl; Dyckerhoff, Rainer und Scheicher, Christoph (2009), Mathematische Methoden für Ökonomen, Springer Verlag (in German).

Specialization: Labor economics

1	Module name 57176	Semiparametric methods in econometrics and applications	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Bernd Fitzenberger Julia Holleitner	
5	Contents	This course presents nonparametric and semiparametric regression techniques which are part of the tool set of modern microeconomic methods and applications. The course covers saturated OLS regression, kernel density estimation, nonparametric regression, partially linear models, semiparametric selection models, inverse probability weighting, penalized regression models as well as parametric and nonparametric quantile regression as basic tools. These methods are used for cross-section data and longitudinal data. Students will familiarize themselves with applying the methods based on selected applications in economic research papers.	
6	Learning objectives and skills	<p>Students</p> <ul style="list-style-type: none"> • learn how to think of regression as modelling conditional expectations and features of conditional distribution • learn that there is a bias and variance trade-off between choosing a flexible regression specification and obtaining precise estimates in light of the curse-of-dimensionality • learn that flexible regression methods require the choice of tuning parameters and how to use statistical approaches to choose the tuning parameters • learn how semiparametric methods are applied in real world econometric studies 	
7	Prerequisites	Master-level introductory econometrics module („Applied Econometrics“ or “Ökonometrie”) (mandatory) and a further course (recommended) in microeconometrics such as "Panel and Evaluation Methods" or "Microeconometrics and Machine Learning".	
8	Integration in curriculum	semester: 3	
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Labour Economics Master of Science Economics 20212	
10	Method of examination	Written examination (90 minutes)	
11	Grading procedure	Written examination (100%)	
12	Module frequency	Only in winter semester	
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h	
14	Module duration	1 semester	
15	Teaching and examination language	english	

16	Bibliography	Pagan, A. and A. Ullah (1999): Nonparametric Econometrics, Cambridge University Press. Wooldridge, J. M. (2010): Econometric Analysis of Cross Section and Panel Data. 2nd edition, Cambridge, MA: MIT Press.
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1	Module name 52391	Seminar economics of human capital Seminar: Economics of human capital	5 ECTS
2	Courses / lectures	Seminar: Economics of Human Capital (3 SWS)	5 ECTS
3	Lecturers	Prof. Dr. Johannes Rincke Prof. Dr. Markus Nagler Bianca Haustein	

4	Module coordinator	Prof. Dr. Markus Nagler Prof. Dr. Johannes Rincke
5	Contents	Topics in the Economics of Human Capital
6	Learning objectives and skills	<p>Students</p> <ul style="list-style-type: none"> • study selected parts of the academic literature on the economics of human capital and learn how to deal with this literature • learn how to identify relevant contributions in large bodies of economic literature • learn about up-to-date methods (theory and empirics) in the economics of human capital • learn how to read economic papers and to evaluate and assess contributions, both in terms of theory and empirical methods • learn how to delineate conclusions from the academic literature in terms of policy implications and recommendations • learn how to structure and write academic theses in economics • expand their skills in terms of presentation techniques and participation in academic discussion
7	Prerequisites	All techniques and methods that are part of the curriculum in the first semester of the study program MSE
8	Integration in curriculum	semester: 2
9	Module compatibility	Specialisation: Labour Economics Master of Science Economics 20212
10	Method of examination	Seminar achievement Seminar paper 50%, presentation 30%, discussion 20%
11	Grading procedure	Seminar achievement (100%) Seminar paper 50%, presentation 30%, discussion 20%
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Will be provided

1	Module name 52900	Labor and personnel economics	5 ECTS
2	Courses / lectures	Vorlesung: Labor and Personnel Economics (2 SWS) Übung: Übung Labor and Personnel Economics (1 SWS)	3 ECTS 2 ECTS
3	Lecturers	Prof. Dr. Claus Schnabel Vinzenz Pyka	

4	Module coordinator	Prof. Dr. Claus Schnabel	
5	Contents	<ul style="list-style-type: none"> • Labor supply • Human capital • Labor demand • Search and matching • Mobility and migration • Wages • Employment relationships and work incentives • Unemployment 	
6	Learning objectives and skills	<p>The course imparts the major methods and insights of the analysis of labor markets and employment relationships. Students</p> <ul style="list-style-type: none"> • learn the major determinants of labor supply and demand- • understand the importance of human capital and work incentives- • analyze the functioning of labor markets and the main reasons for unemployment- • critically reflect labor market theories- are able to interpret and scrutinize empirical studies- • evaluate labor market policy and firms compensation policy. 	
7	Prerequisites	Basic knowledge of microeconomics and empirical research methods/ econometrics	
8	Integration in curriculum	semester: 2	
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Labour Economics Master of Science Economics 20212	
10	Method of examination	Written examination (90 minutes)	
11	Grading procedure	Written examination (100%)	
12	Module frequency	Only in summer semester	
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h	
14	Module duration	1 semester	
15	Teaching and examination language	english	
16	Bibliography	Cahuc, P./Carcillo, S./Zylberberg, A.: Labor Economics, 2nd ed., Cambridge, Mass. 2014	

1	Module name 52910	Labor market policy	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Gesine Stephan	
5	Contents	The module analyzes main topics in labor market policy, with a focus on evaluation studies of labor market institutions and active and passive labor market programs	
6	Learning objectives and skills	<p>Students</p> <ul style="list-style-type: none"> • acquire specialized knowledge on policy debates, theoretical backgrounds, evaluation techniques, and empirical evidence for core labor market policies. • assess theoretical approaches, applied methods, and empirical results of recent research papers. • clearly present and scrutinize complex facts and results. • discuss presentations of fellow students and provide constructive feedback. 	
7	Prerequisites	Solid knowledge in microeconomics and econometrics	
8	Integration in curriculum	semester: 3	
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Labour Economics Master of Science Economics 20212	
10	Method of examination	Discussion contribution Seminar paper Presentation	
11	Grading procedure	Discussion contribution (pass/fail) Seminar paper (100%) Presentation (pass/fail)	
12	Module frequency	Only in winter semester	
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h	
14	Module duration	1 semester	
15	Teaching and examination language	english	
16	Bibliography	Boeri, T., van Ours. J. (2013). The Economics of Imperfect Labor Markets, 2nd edition. Princeton: Princeton University Press. Varying recent literature	

1	Module name 53055	Panel and evaluation methods	5 ECTS
2	Courses / lectures	Tutorium: Panel- and Evaluation Methods-Tutorium (0 SWS)	-
3	Lecturers		

4	Module coordinator	Prof. Dr. Regina Therese Riphahn
5	Contents	Endogeneity in the linear regression model; instrumental variables estimation; static and dynamic panel data models; matching; difference-in-differences estimation; regression discontinuity design; quantile regression; practical application of methods using statistics software STATA
6	Learning objectives and skills	Based on the introductory econometrics module "Ökonometrie" students acquire specialized knowledge in panel und evaluation methods and apply it using the statistics software STATA. Students evaluate to what degree empirical patterns can be interpreted as causal and decide to what extent problems of endogeneity can be solved via panel data or exogeneous variation. Students can produce own empirical analyses.
7	Prerequisites	Basic knowledge in statistics and econometrics
8	Integration in curriculum	semester: 3;1
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Health Economics Master of Science Economics 20212 Specialisation: Labour Economics Master of Science Economics 20212 Specialisation: Macroeconomics and Finance Master of Science Economics 20212 Specialisation: Public Economics Master of Science Economics 20212
10	Method of examination	Written examination (60 minutes)
11	Grading procedure	Written examination (100%) 100 % written exam (a voluntarily submitted homework can account for 20 % of the final grade if it improves the grade. In the homework an empirical analysis is performed based on Stata. The final grade can be improved by up to 0.7 points. However, the exam must be passed. The homework only counts towards final grades in the semester in which they are produced, i.e. only in the winter semester.)
12	Module frequency	Only in winter semester
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Wooldridge, J.M., 2010, Econometric Analysis of Cross Section and Panel Data, 2.ed., MIT Press. Greene, William H., 2020, Econometric Analysis, 8. ed., Pearson, New Jersey

Cameron, C.A. and P.K. Trivedi, 2005, *Microeconometrics. Methods and Applications*, Cambridge University Press

Angrist, J. and J.-S. Pischke, 2009, *Mostly Harmless Econometrics*, Princeton University Press, Princeton, and Oxford.

Verbeek, M., 2017, *A Guide to Modern Econometrics*, 5. ed., Wiley.

1	Module name 53071	Personnel economics	5 ECTS
2	Courses / lectures	Vorlesung: Personnel Economics (2 SWS) Compulsory attendance is required for discussion and feedback processes.	5 ECTS
3	Lecturers	Prof. Dr. Regina Therese Riphahn	

4	Module coordinator	Prof. Dr. Regina Therese Riphahn
5	Contents	The module addresses key topics of modern personnel economics research, such as hiring, contract design, motivation, training, teamwork, and group incentives.
6	Learning objectives and skills	Students acquire specialized knowledge of personnel economics theories and research questions. By preparing short thesis papers and a seminar paper, students learn to evaluate and critically discuss methodological choices and substantive conclusions drawn in recent empirical research papers. Students assess theoretical approaches, applied empirical methods and results of recent research papers. Students present and scrutinize complex facts and results. They discuss the theoretical background, empirical method, and empirical evidence on personnel economics research contributions, discuss presentations of fellow students and provide constructive feedback. Compulsory attendance is required for discussion and feedback processes.
7	Prerequisites	Basic knowledge of microeconomics and econometrics
8	Integration in curriculum	semester: 2;4
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Labour Economics Master of Science Economics 20212
10	Method of examination	Seminar paper Written Seminar paper, thesis papers
11	Grading procedure	Seminar paper (60%) Written (40%) <ul style="list-style-type: none"> • Seminar paper (group work) (60 %) • Thesis papers (40 %)
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	<ul style="list-style-type: none"> • Garibaldi, Pietro (2006), Personnel Economics in Imperfect Labour Markets, Oxford Univ. Press. • Neilson, William S. (2007), Personnel Economics, Pearson Educ. Inc.

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| | <ul style="list-style-type: none">• Lazear, Edward P. (1998), Personnel Economics, MIT Press.• Selected research papers |
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1	Module name 53107	Microeconometrics and machine learning Microeconometrics and Machine Learning	5 ECTS
2	Courses / lectures	Vorlesung: Microeconometrics and machine learning (2 SWS) Übung: Microeconometrics and machine learning - Übung (2 SWS)	2,5 ECTS 2,5 ECTS
3	Lecturers	Dr. Selina Gangl	

4	Module coordinator	Prof. Dr. Regina Therese Riphahn	
5	Contents	Maximum Likelihood estimation, binary dependent variables, multinomial and ordered dependent variables, Tobit models, selection models, duration models, count data models, applications of machine learning in economics. Practical application of empirical methods using Stata.	
6	Learning objectives and skills	Based on introductory econometrics modules students acquire specialized knowledge regarding maximum likelihood estimation and microeconomic problems, and methods of machine learning. Students learn how to apply these methods using the statistics software STATA. They discuss and evaluate the appropriateness of specific methods in the framework of practical applications and have the opportunity to voluntarily prepare written empirical homework.	
7	Prerequisites	Basic knowledge in statistics and econometrics	
8	Integration in curriculum	semester: 2;4	
9	Module compatibility	Specialisation: Labour Economics Master of Science Economics 2012 Specialisation: Macroeconomics and Finance Master of Science Economics 2012	
10	Method of examination	Written examination (60 minutes)	
11	Grading procedure	Written examination (100%) The grade is based 100 % on a written exam. However, a voluntarily submitted homework can account for 20 % of the final grade if it improves the grade. The homework can be prepared in groups of up to two students. In the homework an empirical analysis is performed based on Stata. The final grade can be improved by up to 0.7 points. However, the exam must be passed. The homework only counts towards final grades in the semester in which they are produced, i.e. only in the summer semester.	
12	Module frequency	Only in summer semester	
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h	
14	Module duration	1 semester	
15	Teaching and examination language	english	
16	Bibliography	Cameron, C. und P. K. Trivedi, 2005, Microeconometrics. Methods and Applications, Cambridge Univ. Press.	

Greene, William H., 2020, Econometric Analysis, 8.ed., Pearson

Hastie, T., R. Tibsharani, und J., 2009, The Elements of Statistical Learning: Data Mining, Inference and Prediction, Springer.

Wooldridge, J.M., 2010, Econometric Analysis of Cross Section and Panel Data, 2.ed., MIT Press.

1	Module name 54611	Public economics	5 ECTS
2	Courses / lectures	Vorlesung: Public Economics (2 SWS) Übung: Public Economics (E) (2 SWS)	5 ECTS -
3	Lecturers	Prof. Dr. Thiess Büttner William Dean	

4	Module coordinator	Prof. Dr. Thiess Büttner
5	Contents	The lecture provides an introduction in public economics at the intermediate level. The course first derives the basic theoretical foundations for an optimal design of public policy. In the second step, the course discusses specific aspects of public policy, such as taxation and redistribution, social security, tax evasion, debt finance, interjurisdictional competition and fiscal federalism, all with reference to relevant literature. It supplements theory by exploring practical problems.
6	Learning objectives and skills	Students learn how to characterize efficient public policies using microeconomic decision models. They can use this framework to study public policy in a rigorous and consistent general equilibrium context. Students get acquainted with important empirical methods to evaluate public policies quantitatively. Moreover, they acquire knowledge about options, methods and limits to implement efficient public policy
7	Prerequisites	Basic microeconomics
8	Integration in curriculum	semester: 2
9	Module compatibility	Specialisation: Health Economics Master of Science Economics 20212 Specialisation: Labour Economics Master of Science Economics 20212 Specialisation: Macroeconomics and Finance Master of Science Economics 20212 Specialisation: Public Economics Master of Science Economics 20212
10	Method of examination	Written examination (90 minutes)
11	Grading procedure	Written examination (100%)
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 60 h Independent study: 90 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Hindriks, J., and Myles, G., (2006), Intermediate Public Economics, MIT Press, Cambridge Atkinson, A.B., Stiglitz, J. E., (1980), Lectures on Public Economics . MacGraw-Hill, New York Detailed slides and a list of references are provided at the beginning of the course.

1	Module name 55960	Spatial economics	5 ECTS
2	Courses / lectures	Vorlesung: MA V Spatial Economics (2 SWS) Übung: MA Üb Spatial Economics (2 SWS)	2,5 ECTS 2,5 ECTS
3	Lecturers	Prof. Dr. Matthias Wrede Ramona Müller	

4	Module coordinator	Prof. Dr. Matthias Wrede
5	Contents	Urban Economics, Trade, Mobility, and Agglomeration, Spatial Concentration, Regional Policy
6	Learning objectives and skills	<p>After successful completion of this course,</p> <ul style="list-style-type: none"> • Students are able to describe and to internationally compare the regional patterns of major economic activities in terms of stylized facts. • Students are able to present, interpret, and discuss selected theories in regional and urban economics. • Students are able to apply and assess selected empirical methods in spatial economics. • Students are able to assess empirical tests of selected hypotheses from theories in regional and urban economics to evaluate and critically examine their informative value. • Students are able to discuss and evaluate regional political implications of selected economic theories in regional and urban economics. • Students will assess, evaluate and discuss selected recent research papers in English.
7	Prerequisites	Microeconomics and Econometrics I recommended
8	Integration in curriculum	semester: 2
9	Module compatibility	Miscellaneous Master of Science Economics 2012 Specialisation: Labour Economics Master of Science Economics 2012 Specialisation: Public Economics Master of Science Economics 2012
10	Method of examination	Written examination (60 minutes) Presentation
11	Grading procedure	Written examination (80%) Presentation (20%)
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 60 h Independent study: 90 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Will be announced in the course.

1	Module name 57130	International trade and labor	5 ECTS
2	Courses / lectures	Vorlesung: Ma-Vorl: International Trade & Labor (2 SWS) Übung: Übung zur Ma-Vorl International Trade and Labor (2 SWS) (Vorlesung mit Übung)	5 ECTS -
3	Lecturers	Prof. Dr. Christoph Moser Dr. Stefan Suttner	

4	Module coordinator	Prof. Dr. Christoph Moser
5	Contents	This module deals with the consequences of globalization for the domestic labor market and discusses the winners and losers of trade liberalization. The module focuses on the impact of international economic integration on domestic wages, jobs and inequality, in particular in Germany and the United States.
6	Learning objectives and skills	Students are made familiar with the main relevant concepts of international trade and acquire specialized knowledge of the labor market effects of trade liberalization. Students learn about key theoretical predictions, their empirical evidence and the empirical strategies to assess their relevance. The module focuses on topics at the intersection between international trade and labor.
7	Prerequisites	Recommended prerequisites: Basic knowledge of microeconomics (e.g., Varian, Hal (2014), Intermediate Microeconomics: A Modern Approach, 9th international edition) and econometrics (e.g., Wooldridge, Jeffrey (2013), Introductory Econometrics: A Modern Approach, 5th international edition).
8	Integration in curriculum	semester: 2
9	Module compatibility	Specialisation: Labour Economics Master of Science Economics 20212 Specialisation: Macroeconomics and Finance Master of Science Economics 20212 Master Economics: Specialization in Macroeconomics and Finance Master IBS: elective course (Wahlbereich): English-speaking countries; Europe Master Arbeitsmarkt und Personal: Wahlbereich Master Sozialökonomik: freier Vertiefungsbereich

10	Method of examination	Written examination (60 minutes)
11	Grading procedure	Written examination (100%)
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 60 h Independent study: 90 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Krugman, P., M. Obstfeld and M. Melitz (2017/18), International Trade: Theory and Policy OR International Economics: Theory and Policy, 11th global edition. Further course materials will be announced in the course.

1	Module name 57131	Labor markets in the knowledge economy Labor Markets in the Knowledge Economy	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers. Due to conflicting teaching requirements, this course will not be offered in the Winter Term 2024/25	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Markus Nagler
5	Contents	The course analyzes topics in labor economics and their connection to technological change and the knowledge economy. We will mostly discuss topics in labor economics such as labor supply and migration which are seen through a technology and knowledge economy perspective. The course is mainly based on empirical research papers: labor economics is a front-runner in the use of econometrics and data. Due to conflicting teaching requirements, this course will not be offered in the Winter Term 2024/25.
6	Learning objectives and skills	Students know the key issues at the intersection of labor and innovation economics. They are able to assess current research in the area and are able to relate its results to fundamental policy questions. Students are acquainted with important empirical approaches in labor economics.
7	Prerequisites	Recommended: Basic microeconomics, basic econometrics
8	Integration in curriculum	semester: 3
9	Module compatibility	Specialisation: Labour Economics Master of Science Economics 20212 Due to conflicting teaching requirements, this course will not be offered in the Winter Term 2024/25
10	Method of examination	Written examination (90 minutes)
11	Grading procedure	Written examination (100%)
12	Module frequency	Only in winter semester Due to conflicting teaching requirements, this course will not be offered in the Winter Term 2024/25.
13	Workload in clock hours	Contact hours: 60 h Independent study: 90 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Angrist, Joshua and Jörn-Steffen Pischke (2008). Mostly Harmless Econometrics, Princeton University Press.

Autor, David H. Why are there still so many jobs? The history and future of workplace automation. *The Journal of Economic Perspectives* 29.3 (2015): 3-30.

1	Module name 54327	Seminar on Labour and Education Economics Seminar on labor and education economics	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers. It is mandatory to participate in the seminar on the presentation days.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Markus Nagler Prof. Dr. Michael Oberfichtner
5	Contents	During the seminar, participants will discuss a broad range of current topics in labor economics and economics of education. The seminar has two consecutive parts. In the first part, students write a thesis (15 pages) under the guidance of their advisor. In an introductory session, students learn about the principles of scientific work and the scope of analysis that is expected. The thesis elaborates on the literature (see the list of topics for the main article(s) to be covered). Students are expected to search for additional literature and then work independently on their topic. Advisors provide close guidance during this process.
6	Learning objectives and skills	Students <ul style="list-style-type: none"> • study selected parts of the academic literature in labour and education economics and learn how to deal with this literature • learn how to identify relevant contributions in large bodies of economic literature • learn about up-to-date methods (theory and empirics) in labour and education economics • learn how to read economic papers and to evaluate and assess contributions, both in terms of theory and empirical methods • learn how to delineate conclusions from the academic literature in terms of policy implications and recommendations • learn how to structure and write academic theses in economics • expand their skills in terms of presentation techniques and participation in academic discussion
7	Prerequisites	All techniques and methods that are part of the curriculum in the first two semester of the study program MSE
8	Integration in curriculum	semester: 3
9	Module compatibility	Specialisation: Labour Economics Master of Science Economics 20212
10	Method of examination	Presentation Seminar paper Discussion contribution
11	Grading procedure	Presentation (30%) Seminar paper (50%) Discussion contribution (20%)

12	Module frequency	Only in winter semester
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Will be provided

1	Module name 56441	Economic internship	5 ECTS
2	Courses / lectures	Seminar: Seminar zum Praktikumsmodul im DMSE Master (2 SWS)	-
3	Lecturers	Prof. Dr. Thies Büttner Annalisa Tassi	

4	Module coordinator	Prof. Dr. Thies Büttner Prof. Dr. Christian Merkl Prof. Dr. Claus Schnabel Prof. Dr. Harald Tauchmann Prof. Dr. Karl Gregor Zöttl
5	Contents	Economic internship with research institutes, international organizations, research departments of firms in relation to the Master specialisation (Public, Labor, Macro & Finance, Health, or Energy)
6	Learning objectives and skills	Students obtain the chance to familiarize themselves with labor market opportunities for economists and learn how to apply economic concepts and methods in practice. Students also expand their command of important soft skills, including presentation techniques and communication skills. The participants exchange their practical experiences and insights and develop a critical reflection on economic practice and job market opportunities.
7	Prerequisites	Students should have completed all courses of the first semester. Please note that internships started or completed before the start of the Masters programme will not be considered.
8	Integration in curriculum	semester: 2;3
9	Module compatibility	Miscellaneous Master of Science Economics 2012 Specialisation: Energy Markets Master of Science Economics 2012 Specialisation: Health Economics Master of Science Economics 2012 Specialisation: Labour Economics Master of Science Economics 2012 Specialisation: Macroeconomics and Finance Master of Science Economics 2012 Specialisation: Public Economics Master of Science Economics 2012
10	Method of examination	Course achievement The exact requirements for recognition are set out in a prior written agreement with the professor in charge of the relevant specialisation. Typically, a six-week full-time internship is required, along with a report and a presentation.
11	Grading procedure	Course achievement (pass/fail)
12	Module frequency	Every semester
13	Workload in clock hours	Contact hours: 300 h Independent study: 0 h
14	Module duration	1 semester
15	Teaching and examination language	german or english

16	Bibliography	Please note: Interested students must apply directly to the external institution of interest. In principle, internships can be taken into account as long as they are sufficiently related to economic research and fit into one of the areas. An upfront written agreement with the respective lecturer is required. In this case, students should contact the professor in charge of the relevant specialisation before the start of the internship.
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1	Module name 57477	Urbane Arbeits- und Wohnungsmärkte Urban Labor and Housing Markets	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Dr. Andreas Mense	
5	Contents	Empirical evidence on urban labor markets and their interaction with the local housing market; empirical evidence on housing policies and their effects on the labor market, labor supply, residential location choices, and individual labor market biographies.	
6	Learning objectives and skills	<p>At the end of this course:</p> <ul style="list-style-type: none"> • Students understand and apply the main economic concepts used to study urban labor and housing markets • Students are able to understand, assess, and discuss selected recent empirical research papers on the topic • Students understand specific features of urban labor markets, and how they interact with the local housing market • Students are able to discuss pros and cons of important housing policies, and in particular their interactions with the labor market, based on the empirical evidence 	
7	Prerequisites	None	
8	Integration in curriculum	semester: 3	
9	Module compatibility	Specialisation: Labour Economics Master of Science Economics 20212 Specialisation: Public Economics Master of Science Economics 20212	
10	Method of examination	Presentation or Presentation/written examination	
11	Grading procedure	Presentation or Presentation/written examination (100%)	
12	Module frequency	Only in winter semester	
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h	
14	Module duration	1 semester	
15	Teaching and examination language	english	
16	Bibliography	<p>Chetty, R., Hendren, N., Katz, L. (2016). The Effects of Exposure to Better Neighborhoods on Children: New Evidence from the Moving to Opportunity Experiment. <i>American Economic Review</i>, 106(4): 855–902.</p> <p>Dauth, W., Findeisen, S., Moretti, E., Suedekum, J. (2022). Matching in Cities. <i>Journal of the European Economic Association</i> 20(4), 1478-1521.</p>	

De la Roca, J., Puga, D. (2017). Learning by Working in Big Cities. *The Review of Economic Studies* 84(1), 106–142.

Jacob, B., Ludwig, J. (2012). The Effects of Housing Assistance on Labor Supply: Evidence from a Voucher Lottery. *American Economic Review* 102(1), 272-304.

Metcalf, G. (2018). Sand Castles Before the Tide? Affordable Housing in Expensive Cities. *The Journal of Economic Perspectives*, 32(1), 59-80.

Pollakowski, H. O., Weinberg, D.H., Andersson, F., Haltiwanger, J.C., Palloni, G., Kutzbach, M.J. (2022). Childhood Housing and Adult Outcomes: A Between-Siblings Analysis of Housing Vouchers and Public Housing. *American Economic Journal: Economic Policy*, 14(3): 235-72.

1	Module name 53060	Institutionen und Organisationen des Arbeitsmarktes Labor market institutions and organizations	5 ECTS
2	Courses / lectures	Vorlesung: Institutionen und Organisationen des Arbeitsmarktes (2 SWS) Übung: Übung Institutionen und Organisationen des Arbeitsmarktes (2 SWS)	3 ECTS 2 ECTS
3	Lecturers	Prof. Dr. Claus Schnabel Jan Weikl	

4	Module coordinator	Prof. Dr. Claus Schnabel	
5	Contents	<ul style="list-style-type: none"> • Gewerkschaften und Arbeitgeberverbände • Tarifautonomie • Mindestlöhne • Betriebsräte und Mitbestimmung • Arbeitsrechtliche Schwellenwerte • Kündigungsschutz • Arbeitslosenversicherung • Bundesagentur für Arbeit 	
6	Learning objectives and skills	<p>Das Modul analysiert verschiedene Institutionen und Organisationen des Arbeitsmarktes und ihre Arbeitsmarktwirkungen, vorwiegend aus wirtschaftswissenschaftlicher Perspektive. Die Studierenden erschließen die ökonomische Bedeutung arbeitsrechtlicher und sozialpolitischer Regelungen und beurteilen die Rolle und Wirkung der Tarifparteien, der Betriebsräte und der Bundesagentur für Arbeit. Sie werden in die Lage versetzt, die vorgestellten Theorien kritisch zu reflektieren, empirische Arbeitsmarktstudien zu interpretieren und zu hinterfragen, wirtschaftspolitische Maßnahmen zu bewerten sowie eigene Handlungsempfehlungen zu entwickeln. Sie erstellen gemeinsam mit anderen Präsentationen und geben Kommiliton*innen wertschätzendes Feedback zu deren Präsentationen.</p>	
7	Prerequisites	Keine	
8	Integration in curriculum	semester: 2;4	
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Labour Economics Master of Science Economics 20212	
10	Method of examination	Presentation Oral (20 minutes)	
11	Grading procedure	Presentation (pass/fail) Oral (100%)	
12	Module frequency	Only in summer semester	
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h	
14	Module duration	1 semester	
15	Teaching and examination language	german	

16	Bibliography	Boeri ,T./van Ours, J.: The Economics of Imperfect Labor Markets, 3. Aufl., Princeton 2021; Wagner, T./Jahn, E.: Neue Arbeitsmarkttheorien, 2. Aufl. 2004 (v.a. Teil III); Aktuelle Forschungsliteratur
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1	Module name 53084	Ökonomie der Sozialpolitik Economics of social policy	5 ECTS
2	Courses / lectures	Seminar: MA S Ökonomie der Sozialpolitik (3 SWS)	5 ECTS
3	Lecturers	Prof. Dr. Matthias Wrede	

4	Module coordinator	Prof. Dr. Matthias Wrede	
5	Contents	Ausgewählte ökonomische Analysen der Sozialpolitik unter Einschluss ethischer und ökonomischer Grundlagen sowie institutioneller Aspekte	
6	Learning objectives and skills	<ul style="list-style-type: none"> • Studierende kennen ausgewählte Bereiche der Sozialpolitik und können diese beschreiben und international vergleichen. • Studierende können ethische und ökonomische Grundlagen staatlicher Eingriffe in ausgewählten Bereichen sozialer Sicherung darstellen, interpretieren und diskutieren. • Studierende können Wirkungen sozialpolitisch relevanter Größen theoretisch und empirisch verstehen, bewerten und hinterfragen. • Studierende können sozialpolitische Maßnahmen unter Effizienz- und Gerechtigkeitsgesichtspunkten bewerten und hinterfragen. • Studierende geben Ihren Kommilitonen im Rahmen ihrer Präsentationen strukturiertes Feedback. • Studierende fördern die Fachkenntnisse der anderen Studierenden durch themenspezifische Diskussionsbeiträge. • Studierende erfassen, bewerten und diskutieren ausgewählte aktuelle, meist englischsprachige Forschungsarbeiten in Ihrer Seminararbeit. 	
7	Prerequisites	Mikroökonomische und ökonometrische Kenntnisse	
8	Integration in curriculum	semester: 2	
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Health Economics Master of Science Economics 20212 Specialisation: Labour Economics Master of Science Economics 20212 Specialisation: Public Economics Master of Science Economics 20212	
10	Method of examination	Written or oral Term paper (15 pages), presentation (20 minutes)	
11	Grading procedure	Written or oral (100%) Term paper 70%, presentation 30%	
12	Module frequency	Only in summer semester	
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h	
14	Module duration	1 semester	
15	Teaching and examination language	german	
16	Bibliography	Die Literatur wird während des Kurses bekannt gegeben.	

1	Module name 57494	Technological Change and the Labour Market	5 ECTS
2	Courses / lectures	Seminar: Technological Change and the Labour Market (2 SWS)	5 ECTS
3	Lecturers	Prof. Dr. Melanie Arntz	

4	Module coordinator	Prof. Dr. Melanie Arntz	
5	Contents	<p>This seminar examines the intersection of technological change and the labour market, exploring how advances in technology impact employment, wages, inequality, and the nature of work. The course draws on theoretical frameworks and empirical evidence from top peer-reviewed journals to provide a comprehensive understanding of these dynamics.</p> <p>In the first part of the seminar, we will jointly work on developing a basic understanding of how technological change affects labour markets by focussing on theoretical foundations, shedding some light on technological change in a historical perspective and trying to understand the core characteristics of technological change since the 1970s including what has been termed computerization, digitalisation, and artificial intelligence. For this purpose, we will discuss three core papers in each of three meetings (May 22nd, 4-6:30 p.m.; June 13th, 8:30 – 11 a.m.; July 11th, 8:30-11 a.m.). Each of these papers is prepared by a small group of ~3 students who present the paper to the others. Based on the three papers, we will jointly work on key take aways from each of these classes.</p> <p>Starting from this common ground, each seminar participant will prepare a seminar paper of 10-12 pages on a research questions that digs deeper into specific sub-topics. These seminar papers will be presented to and discussed by all course participants. The presentations will take place on July 25th and 26th.</p> <p>The first meeting for allocating seminar topics and an overview of the course is currently scheduled for April 24th, 5-6:30 p.m..</p>	
6	Learning objectives and skills	<p>The objective of this seminar is to</p> <ul style="list-style-type: none"> • understand the mechanisms through which technological change influences the labour market. • analyze empirical studies and critically evaluate their methodologies and findings. • discuss the implications of technological change for labour market policies and institutions. • develop skills to synthesize research findings and present coherent arguments in written and oral forms. 	

		<ul style="list-style-type: none"> learn how to discuss presentations of fellow students and provide constructive feedback
7	Prerequisites	Solid knowledge in micro- and macroeconomics, labour economics and econometrics
8	Integration in curriculum	semester: 2;4
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Labour Economics Master of Science Economics 20212
10	Method of examination	Seminar achievement Three reading responses (short paper presentations in small groups) throughout the semester, active course participation, seminar paper including presentation.
11	Grading procedure	Seminar achievement (100%) The final grade is based on the seminar paper (60%), its presentation (20%) and an overall performance assessment for the participation in the classroom including the reading responses/presentations (20%), each of which need to be passed in order to pass the course.
12	Module frequency	Only in summer semester Annually in the summer term
13	Workload in clock hours	Contact hours: 30h Independent study: 120h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	To be announced in the first meeting.

Specialization: Macroeconomics and finance

1	Module name 54440	Issues in international political economy	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers. (Vorlesung mit Übung)	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Christoph Moser	
5	Contents	This course deals with international trade policy. The focus will be on the political and economic determinants and consequences of trade liberalization as well as trade policies that increase trade barriers. The course will provide important insights into the global governance of international trade flows, the World Trade Organization and the role of the United States, China and the European Union.	
6	Learning objectives and skills	Students gain an understanding of the importance and evolution of the international trading system and how it affects multinational corporations (MNCs). Students learn about different trade policy tools, their economic consequences and their political constraints, in particular in the United States, China and the European Union. Students learn to critically assess trade-related news in the media.	
7	Prerequisites	Recommended prerequisites: <ul style="list-style-type: none"> • Basic knowledge of microeconomics (e.g., Varian, Hal (2014), Intermediate Microeconomics: A Modern Approach, 9th international edition). 	
8	Integration in curriculum	semester: 3	
9	Module compatibility	Specialisation: Macroeconomics and Finance Master of Science Economics 20212 Specialisation: Public Economics Master of Science Economics 20212 Module compatibility: <ul style="list-style-type: none"> • Master IBS: core course (Pflichtbereich) • Master IBS: mandatory elective for the area English-speaking countries. Students who select English-speaking countries as an area study cannot take this module as a core course module, but must take it as part of their area studies. • Master Wirtschaftspädagogik, Studienrichtung II: elective course (Wahlbereich im Zweitfach Sozialkunde), core course (Pflichtbereich im Zweitfach Englisch) • Erweiterungsprüfung Berufliche Schulen/Studienfach • Wirtschaftspädagogik • Master Sozialökonomik: elective course (Wahlbereich) • Master Arbeitsmarkt und Personal: elective course (Wahlbereich) • Master Economics: Specialization in Macroeconomics and Finance, and Public economics 	
10	Method of examination	Written examination (60 minutes)	

		Written examination 60 min. (Klausur 60 Min.)
11	Grading procedure	Written examination (100%)
12	Module frequency	Only in winter semester
13	Workload in clock hours	Contact hours: 60 h Independent study: 90 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	<ul style="list-style-type: none"> • Krugman, P., M. Obstfeld and M. Melitz (2017/18), International Trade: Theory and Policy OR International Economics: Theory and Policy, 11th global edition • Further, course materials will be announced in the course.

1	Module name 54452	Issues in international trade	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers. Es besteht Anwesenheitspflicht.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Christoph Moser
5	Contents	This course will focus on major developments in the international trading system, on the multilateral, regional and bilateral level. Special emphasis will be given to developments in the WTO, the rule-making process and the completion of new multilateral commitments. In addition, the pursuit of regional and bilateral trade agreements will be monitored and its effects on businesses and trade flows will be examined. Finally, a thorough analysis of the trade policies pursued by developed and developing countries will be offered.
6	Learning objectives and skills	Students gain a deeper understanding of the contemporary developments of trade policies on the multilateral, regional and country level and how it affects business and market opportunities. Special emphasis will be on the United States and the European Union.
7	Prerequisites	Recommended prerequisites: Basic knowledge of the concepts of international economics and international political economy.
8	Integration in curriculum	semester: 3
9	Module compatibility	Miscellaneous Master of Science Economics 2012 Specialisation: Macroeconomics and Finance Master of Science Economics 2012 Master IBS: elective course (Wahlbereich): English-speaking countries Master Economics: Specialization in Macroeconomics and Finance
10	Method of examination	Written or oral <i>Es handelt sich um eine einheitliche Prüfung, bei der die einzelnen Teilleistungen untrennbar miteinander verbunden sind. Für das Bestehen des Moduls müssen nach § 19 Abs. 1 Satz 4 MPOWIWI in der jeweils geltenden Fassung alle Teilleistungen in demselben Semester bestanden werden. Wegen des untrennbaren Bezugs der Teilleistungen aufeinander ist</i>

		<i>abweichend von § 25 Abs.1 Satz 2 MPOWIWI eine Wiederholung nur einer der nicht bestandenen Teilleistungen nicht möglich. Das Nichtbestehen einer der Teilleistungen erfordert die Wiederholung der gesamten Prüfung.</i>
11	Grading procedure	Written or oral (100%) 30% presentation, 70% seminar paper (30% Präsentation, 70% Seminararbeit)
12	Module frequency	Only in winter semester
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	

1	Module name 57502	Monetary Economics and Numerical Methods Monetary economics and numerical methods	5 ECTS
2	Courses / lectures	Seminar: Monetary Economics and Numerical Methods (2 SWS)	5 ECTS
3	Lecturers	Prof. Dr. Christian Merkl Timo Sauerbier	

4	Module coordinator	Prof. Dr. Christian Merkl	
5	Contents	Monetary Economics and Numerical Methods	
6	Learning objectives and skills	<p>Students</p> <ul style="list-style-type: none"> • repeat the New Keynesian Model (NKM) from “Macroeconomics: Business Cycles.” • learn how to extend the NKM model (e.g. by financial frictions). • apply different solution techniques. • learn how central banks use these models for developing their monetary policy strategy and how to react to macroeconomic crises. 	
7	Prerequisites	“Macroeconomics: Business Cycles”	
8	Integration in curriculum	semester: 2;4	
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Macroeconomics and Finance Master of Science Economics 20212	
10	Method of examination	Seminar paper	
11	Grading procedure	Seminar paper (100%) Students can improve their grade through one assignment during the summer term: one programming assignment with Matlab/ Dynare. This requires the seminar work to be graded not worse than 4.0; the maximum improvement is 0.3 grades.	
12	Module frequency	Irregular	
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h	
14	Module duration	1 semester	
15	Teaching and examination language	english	
16	Bibliography	References will be provided during the course.	

1	Module name 52291	International finance	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Christian Merkl	
5	Contents	This course covers a wide range of topics (e.g., exchange rates and exchange rate regimes, national accounts and capital flows, international financial system, international banking and central banking). Basic economic concepts will be provided as a background. Statistics and empirical results will be shown to understand the validity of these concepts. Recent real life examples/case studies will be used to analyze the implications for policy makers, international organisations and business.	
6	Learning objectives and skills	<p>Students</p> <ul style="list-style-type: none"> • understand and apply basic concepts of exchange rate determination and their validity. • learn about driving forces of capital flows. • analyze how international (central) banking and the international financial system work. • apply their knowledge in a presentation (either in case study style or in a small quantitative project). 	
7	Prerequisites	Macroeconomics (Bachelor)	
8	Integration in curriculum	semester: 3	
9	Module compatibility	Specialisation: Macroeconomics and Finance Master of Science Economics 20212	
10	Method of examination	Presentation Written examination (60 minutes)	
11	Grading procedure	<p>Presentation (20%) Written examination (80%)</p> <p>These two partial examinations are one uniform examination in which the individual partial examinations are inseparable. For the existence of the module, according to § 19 (1) sentences 2 and 4 of the MPOWiWi, as amended, all partial examinations must be passed in the same semester. Notwithstanding § 25 (1) sentences 2 and 3 of the MPOWiWi, it is not possible to repeat only one of the failed partial examinations because of the inseparable relation of the partial examinations to each other. Failure to receive one of the partial services requires the repetition of the entire examination</p>	
12	Module frequency	Only in winter semester	
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h	
14	Module duration	1 semester	

15	Teaching and examination language	english
16	Bibliography	Presentation slides and relevant literature will be provided

1	Module name 52392	Macroeconomic stabilization in severe economic crises	5 ECTS
2	Courses / lectures	No courses / lectures available for this module!	
3	Lecturers	No lecturers available since there are no courses / lectures for this module!	

4	Module coordinator	Prof. Dr. Christian Merkl
5	Contents	<ul style="list-style-type: none"> • Macroeconomic Stabilization under Severe Economic Crisis
6	Learning objectives and skills	<p>Students</p> <ul style="list-style-type: none"> • use a microeconomic or macroeconomic dataset. • solve and simulate dynamic macroeconomic models • apply advanced econometric techniques to answer economic questions. • write a seminar work that describes key empirical and/or simulated results.
7	Prerequisites	Macroeconomics: Business Cycles and Applied Econometrics
8	Integration in curriculum	semester: 2
9	Module compatibility	Specialisation: Macroeconomics and Finance Master of Science Economics 20212
10	Method of examination	Written as in seminar paper (15 pages) and presentation (20 minutes)
11	Grading procedure	Written (100%) as in seminar achievement (100%)
12	Module frequency	Irregular Will be offered in summer 2025
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Will be announced

1	Module name 52560	Banking supervision: Bank rating, stress testing, financial stability	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Christian Merkl	
5	Contents	This course covers a wide range of topics in banking supervision (e.g., bank rating models and risk assessment in banking supervision; different concepts of stress testing credit, market, and liquidity risk; development and analysis of bank stability indicators; bank resolution; financial stability and macroprudential oversight in the EU). Basic analytical concepts will be provided as a background; the last EBA/SSM Stress Test will be used to analyze the implications of such an exercise for banks, policy makers, and international organizations. A case study based on the econometrics software Stata will be used to develop empirical bank rating and stress testing tools.	
6	Learning objectives and skills	<p>Students</p> <ul style="list-style-type: none"> • learn about banking structure, regulation, bank bailouts, and corporate governance in banking. • understand and apply different concepts of bank rating and stress testing; develop tools using the econometrics software Stata. • analyze competition and efficiency in banking markets and understand the concept of financial stability. 	
7	Prerequisites	Macroeconomics (Bachelor)	
8	Integration in curriculum	semester: 1;3	
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Macroeconomics and Finance Master of Science Economics 20212	
10	Method of examination	Written examination (60 minutes)	
11	Grading procedure	Written examination (100%) The grade can be improved up to 0.7 units with a voluntary project work.	
12	Module frequency	Only in winter semester	
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h	
14	Module duration	1 semester	
15	Teaching and examination language	english	
16	Bibliography	Presentation slides and relevant literature will be provided.	

1	Module name 53055	Panel and evaluation methods	5 ECTS
2	Courses / lectures	Tutorium: Panel- and Evaluation Methods-Tutorium (0 SWS)	-
3	Lecturers		

4	Module coordinator	Prof. Dr. Regina Therese Riphahn
5	Contents	Endogeneity in the linear regression model; instrumental variables estimation; static and dynamic panel data models; matching; difference-in-differences estimation; regression discontinuity design; quantile regression; practical application of methods using statistics software STATA
6	Learning objectives and skills	Based on the introductory econometrics module "Ökonometrie" students acquire specialized knowledge in panel und evaluation methods and apply it using the statistics software STATA. Students evaluate to what degree empirical patterns can be interpreted as causal and decide to what extent problems of endogeneity can be solved via panel data or exogeneous variation. Students can produce own empirical analyses.
7	Prerequisites	Basic knowledge in statistics and econometrics
8	Integration in curriculum	semester: 3;1
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Health Economics Master of Science Economics 20212 Specialisation: Labour Economics Master of Science Economics 20212 Specialisation: Macroeconomics and Finance Master of Science Economics 20212 Specialisation: Public Economics Master of Science Economics 20212
10	Method of examination	Written examination (60 minutes)
11	Grading procedure	Written examination (100%) 100 % written exam (a voluntarily submitted homework can account for 20 % of the final grade if it improves the grade. In the homework an empirical analysis is performed based on Stata. The final grade can be improved by up to 0.7 points. However, the exam must be passed. The homework only counts towards final grades in the semester in which they are produced, i.e. only in the winter semester.)
12	Module frequency	Only in winter semester
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Wooldridge, J.M., 2010, Econometric Analysis of Cross Section and Panel Data, 2.ed., MIT Press. Greene, William H., 2020, Econometric Analysis, 8. ed., Pearson, New Jersey

Cameron, C.A. and P.K. Trivedi, 2005, *Microeconometrics. Methods and Applications*, Cambridge University Press

Angrist, J. and J.-S. Pischke, 2009, *Mostly Harmless Econometrics*, Princeton University Press, Princeton, and Oxford.

Verbeek, M., 2017, *A Guide to Modern Econometrics*, 5. ed., Wiley.

1	Module name 53107	Microeconometrics and machine learning Microeconometrics and Machine Learning	5 ECTS
2	Courses / lectures	Vorlesung: Microeconometrics and machine learning (2 SWS) Übung: Microeconometrics and machine learning - Übung (2 SWS)	2,5 ECTS 2,5 ECTS
3	Lecturers	Dr. Selina Gangl	

4	Module coordinator	Prof. Dr. Regina Therese Riphahn
5	Contents	Maximum Likelihood estimation, binary dependent variables, multinomial and ordered dependent variables, Tobit models, selection models, duration models, count data models, applications of machine learning in economics. Practical application of empirical methods using Stata.
6	Learning objectives and skills	Based on introductory econometrics modules students acquire specialized knowledge regarding maximum likelihood estimation and microeconomic problems, and methods of machine learning. Students learn how to apply these methods using the statistics software STATA. They discuss and evaluate the appropriateness of specific methods in the framework of practical applications and have the opportunity to voluntarily prepare written empirical homework.
7	Prerequisites	Basic knowledge in statistics and econometrics
8	Integration in curriculum	semester: 2;4
9	Module compatibility	Specialisation: Labour Economics Master of Science Economics 2012 Specialisation: Macroeconomics and Finance Master of Science Economics 2012
10	Method of examination	Written examination (60 minutes)
11	Grading procedure	Written examination (100%) The grade is based 100 % on a written exam. However, a voluntarily submitted homework can account for 20 % of the final grade if it improves the grade. The homework can be prepared in groups of up to two students. In the homework an empirical analysis is performed based on Stata. The final grade can be improved by up to 0.7 points. However, the exam must be passed. The homework only counts towards final grades in the semester in which they are produced, i.e. only in the summer semester.
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Cameron, C. und P. K. Trivedi, 2005, Microeconometrics. Methods and Applications, Cambridge Univ. Press.

Greene, William H., 2020, Econometric Analysis, 8.ed., Pearson

Hastie, T., R. Tibsharani, und J., 2009, The Elements of Statistical Learning: Data Mining, Inference and Prediction, Springer.

Wooldridge, J.M., 2010, Econometric Analysis of Cross Section and Panel Data, 2.ed., MIT Press.

1	Module name 53115	Topics in gender and family economics	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Sena Coskun Dalgic
5	Contents	Topics in gender and family Economics
6	Learning objectives and skills	<p>Students</p> <ul style="list-style-type: none"> • become familiar with the fundamentals, cutting-edge theories and empirical evidence in gender and family economics • develop critical view when approaching to the literature • use a micro and/or macro dataset • develop new models or alter the existing models to answer different questions • write a seminar work and present it
7	Prerequisites	None
8	Integration in curriculum	semester: 2
9	Module compatibility	Specialisation: Macroeconomics and Finance Master of Science Economics 20212
10	Method of examination	Written Presentation
11	Grading procedure	Written (50%) Presentation (50%)
12	Module frequency	Only in winter semester
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	M. Doepke and M. Tertilt. Families in Macroeconomics. Handbook of Macroeconomics, Volume 2. 2016. Martin Browning, Pierre-André Chiappori, and Yoram Weiss. The Economics of the Family. Cambridge University Press, 2014. Article list will be provided in the beginning of the semester.

1	Module name 53313	Multivariate Time Series Analysis Multivariate time series analysis	5 ECTS
2	Courses / lectures	Übung: Multivariate Time Series Analysis (2 SWS) Vorlesung: Multivariate Time Series Analysis Exercise Session (2 SWS)	2,5 ECTS 2,5 ECTS
3	Lecturers	Dr. Maximilian Böck	

4	Module coordinator	Prof. Dr. Jonas Dovern	
5	Contents	<ul style="list-style-type: none"> • Brief repetition of concepts of univariate time series analysis; • Vector autoregressive (VAR) processes: basics, estimation, lag order selection, specification testing, forecasting; • Structural VAR models: various methods for identifying macroeconomic shocks; • Multivariate GARCH models. 	
6	Learning objectives and skills	Ability to independently analyze multivariate stationary time series using vector autoregressive processes; ability to explain the problems of identifying structural macroeconomic shocks and ability to estimate and interpret SVAR models; ability to explain and estimate basic multivariate GARCH models; skills for using existing functions in R for time series analysis and for developing proprietary functions for analyzing multivariate time series in R.	
7	Prerequisites	Proficiency in univariate time series analysis and basic concepts of econometrics	
8	Integration in curriculum	semester: 2;4	
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Macroeconomics and Finance Master of Science Economics 20212	
10	Method of examination	Written examination (60 minutes)	
11	Grading procedure	Written examination (100%) Students can improve their grade by doing a replication study during the semester.	
12	Module frequency	Only in summer semester	
13	Workload in clock hours	Contact hours: 60 h Independent study: 90 h	
14	Module duration	1 semester	
15	Teaching and examination language	english	
16	Bibliography	Lütkepohl, H. (2005), New Introduction to Multiple Time Series Analysis, Springer. Kilian, L. and H. Lütkepohl (2017), Structural Vector Autoregressive Analysis (Themes in Modern Econometrics), Cambridge University Press, Cambridge.	

Tsay, R.S. (2005), Analysis of Financial Time Series, 2nd edition, Wiley.
(alternatively 3rd edition from 2010).

Verbeek, M. (2008), A Guide to Modern Econometrics,, 3rd edition,
Wiley.

1	Module name 53344	Labor markets: A macroeconomic perspective	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Christian Merkl	
5	Contents	<ul style="list-style-type: none"> • Stylized macroeconomic facts of the labor market • The labor market and business cycle dynamics • The importance of wage rigidities 	
6	Learning objectives and skills	Students learn <ul style="list-style-type: none"> • to analyze macroeconomic stylized facts of the labor market • to critically evaluate the ability of dynamic labor market models (e.g., search and matching) to replicate business cycle facts • to evaluate macroeconomic (policy) implications. 	
7	Prerequisites	Macroeconomics: Business Cycles, Econometrics	
8	Integration in curriculum	semester: 3	
9	Module compatibility	Specialisation: Macroeconomics and Finance Master of Science Economics 20212	
10	Method of examination	Presentation Seminar paper	
11	Grading procedure	Presentation (10%) Seminar paper (90%)	
12	Module frequency	Only in winter semester	
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h	
14	Module duration	1 semester	
15	Teaching and examination language	english	
16	Bibliography	Pissarides, C. Equilibrium Unemployment. 2000, MIT Press, Cambridge. Chapters 1 & 9. Recent research articles	

1	Module name 53770	Finanz- und Bankmanagement Financial and bank management	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Hendrik Scholz	
5	Contents	<ul style="list-style-type: none"> • Klassische Ansätze zum Management von Marktzinsrisiken • Darstellung und Bewertung moderner Finanzinstrumente und Finanzprodukte (z.B. Optionen, Futures, Forwards und Swaps) • "Value at Risk" zur Messung finanzieller Risiken • Aufbau und Funktion von Finanzsystemen • Steuerungssysteme für Finanzunternehmen 	
6	Learning objectives and skills	<p>Die Studierenden</p> <ul style="list-style-type: none"> • ermitteln Zinsrisiken von Anleiheportfolios und beurteilen Instrumente zur Reduktion von Zinsrisiken und deren Einsatz aus Kundensicht. • können diverse Fixed-Income Produkte wie Kupon-Anleihen, Floating Rates Notes und Zinsswaps bewerten und deren Chancen-Risiko-Profile beurteilen. • bestimmen die Kennzahl "Value at Risk" für Portfolios und unter Anwendung verschiedene Konzepte der Volatilitätsschätzung. • können den generellen Aufbau und die Funktion des Banken- und Finanzsystems erläutern • beurteilen auf Basis der Marktzinsmethode die Geschäftspolitik einer Bank. 	
7	Prerequisites	Keine	
8	Integration in curriculum	semester: 1	
9	Module compatibility	Miscellaneous Master of Science Economics 2012 Specialisation: Macroeconomics and Finance Master of Science Economics 2012	
10	Method of examination	Written examination (60 minutes)	
11	Grading procedure	Written examination (100%)	
12	Module frequency	Only in winter semester	
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h	
14	Module duration	1 semester	
15	Teaching and examination language	german	
16	Bibliography	Hartmann-Wendels, T. / Pfingsten, A. / Weber, M.: Bankbetriebslehre, Berlin u.a.	

Weitergehende, forschungsbezogene Literatur wird im Rahmen der Veranstaltung bekannt gegeben.

1	Module name 54611	Public economics	5 ECTS
2	Courses / lectures	Vorlesung: Public Economics (2 SWS) Übung: Public Economics (E) (2 SWS)	5 ECTS -
3	Lecturers	Prof. Dr. Thiess Büttner William Dean	

4	Module coordinator	Prof. Dr. Thiess Büttner
5	Contents	The lecture provides an introduction in public economics at the intermediate level. The course first derives the basic theoretical foundations for an optimal design of public policy. In the second step, the course discusses specific aspects of public policy, such as taxation and redistribution, social security, tax evasion, debt finance, interjurisdictional competition and fiscal federalism, all with reference to relevant literature. It supplements theory by exploring practical problems.
6	Learning objectives and skills	Students learn how to characterize efficient public policies using microeconomic decision models. They can use this framework to study public policy in a rigorous and consistent general equilibrium context. Students get acquainted with important empirical methods to evaluate public policies quantitatively. Moreover, they acquire knowledge about options, methods and limits to implement efficient public policy
7	Prerequisites	Basic microeconomics
8	Integration in curriculum	semester: 2
9	Module compatibility	Specialisation: Health Economics Master of Science Economics 20212 Specialisation: Labour Economics Master of Science Economics 20212 Specialisation: Macroeconomics and Finance Master of Science Economics 20212 Specialisation: Public Economics Master of Science Economics 20212
10	Method of examination	Written examination (90 minutes)
11	Grading procedure	Written examination (100%)
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 60 h Independent study: 90 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Hindriks, J., and Myles, G., (2006), Intermediate Public Economics, MIT Press, Cambridge Atkinson, A.B., Stiglitz, J. E., (1980), Lectures on Public Economics . MacGraw-Hill, New York Detailed slides and a list of references are provided at the beginning of the course.

1	Module name 56270	Financial engineering and structured finance	5 ECTS
2	Courses / lectures	Vorlesung: Financial Engineering und Structured Finance (VL) (2 SWS) Übung: Financial Engineering und Structured Finance (ÜB) (1 SWS)	5 ECTS -
3	Lecturers	Prof. Dr. Hendrik Scholz Nicolas Webersinke Anja Stiller	

4	Module coordinator	Prof. Dr. Hendrik Scholz	
5	Contents	<ul style="list-style-type: none"> • Darstellung und Bewertung von Aktien-, Zinssatz- & Bondoptionen • Strukturierter Produkte im Fixed Income und Equity Bereich • Kapitalstruktur und Optionspreistheorie • Darstellung und Bewertung von Kreditderivaten 	
6	Learning objectives and skills	<p>Die Studierenden</p> <ul style="list-style-type: none"> • erarbeiten sich ein tiefgehendes Wissen über Aktien-, Zinssatz- und Bondoptionen, können deren Einsatzmöglichkeiten beurteilen und ihren Wert bestimmen. • wenden zentrale Kenntnisse der Optionspreistheorie an, um Bestandteile komplexer, strukturierter Fixed Income- und Equity-Produkte zu analysieren, diese zu bewerten und deren Wertbeitrag für Kunden einer Bank zu evaluieren. • können unter Berücksichtigung von Kundenpräferenzen eigenständig innovative Finanzprodukte entwickeln. • sind in der Lage die Positionen Eigen- und Fremdkapital von Unternehmen auf Basis der Optionspreistheorie zu bewerten. • können Instrumente zum Kreditrisikotransfer erläutern und deren Einsatzmöglichkeiten kritisch hinterfragen. 	
7	Prerequisites	keine	
8	Integration in curriculum	semester: 2	
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Macroeconomics and Finance Master of Science Economics 20212	
10	Method of examination	Written examination (60 minutes)	
11	Grading procedure	Written examination (100%)	
12	Module frequency	Only in summer semester	
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h	
14	Module duration	1 semester	
15	Teaching and examination language	german	
16	Bibliography	Hull, John C.: Options, futures and other derivatives	

Weitergehende, forschungsbezogene Literatur wird im Rahmen der
Veranstaltung bekannt gegeben

1	Module name 56470	Versicherungs- und Risikotheorie Risk and insurance theory	5 ECTS
2	Courses / lectures	Übung: Übung Versicherungs- und Risikotheorie (1 SWS)	2,5 ECTS
3	Lecturers	Prof. Dr. Nadine Gatzert	

4	Module coordinator	Prof. Dr. Nadine Gatzert	
5	Contents	Einführend: Entscheidung bei Sicherheit, Unsicherheit, Risiko; Risikomessung, Risikowahrnehmung, Risikobeeinflussung (Vorgehen und Methoden); Risikobewertung am Beispiel der Versicherungsnachfrage (individuell und aus Unternehmenssicht); Risikobewertung am Beispiel des Versicherungsangebots (Risikotheorie, Schadenprozessmodellierung, Optionspreis-Modell); Problematik der Informationsasymmetrien (Adverse Selektion, Moral Hazard); Enterprise Risk Management (Bedeutung und Rahmenwerke, Risikostrategie, Risikoidentifikation und -bewertung, Governance, Risikokultur); Emerging Risks.	
6	Learning objectives and skills	<p>Die Studierenden</p> <ul style="list-style-type: none"> haben vertiefte Kenntnisse über die zentralen Konzepte der Risikobewertung sowie der Versicherungs- und Risikotheorie, können diese beurteilen und hinterfragen; können ihre theoretischen Kenntnisse auf konkrete Fragestellungen anwenden; erlernen den Umgang mit und die Bewertung von Risiken in Unternehmen; können die theoretischen Kenntnisse zur Risikomessung im Rahmen einer Monte-Carlo-Simulation in Excel umsetzen; lernen interaktiv im Rahmen von Workshops in Gruppen aktuelle Fragestellungen im Kontext der Versicherungs- und Risikotheorie zu strukturieren, zu erarbeiten und zu präsentieren; entwickeln und vertiefen dabei ihre Kompetenzen in der Teamarbeit. 	
7	Prerequisites	Keine	
8	Integration in curriculum	semester: 1;3	
9	Module compatibility	Specialisation: Macroeconomics and Finance Master of Science Economics 20212	
10	Method of examination	<p>Written examination (60 minutes)</p> <p><i>Im Wintersemester besteht vorlesungsbegleitend die Möglichkeit einer freiwilligen Notenverbesserung, wobei eine Verbesserung um bis zu 0,3 Notenstufen erfolgen kann. Dazu können Studierende auf StudOn vier je ca. 10-minütige Online-Kurztests (Quizze) zur Aufbereitung des Vorlesungsstoffs bearbeiten. Die Notenverbesserung erfolgt, wenn die Quizze erfolgreich bearbeitet wurden sowie die Klausur mit der Note 4,0 oder besser bestanden wurde. Etwaige Quizergebnisse aus dem</i></p>	

		<i>Wintersemester werden für eine Nachholprüfung im Sommersemester übernommen.</i>
11	Grading procedure	Written examination (100%)
12	Module frequency	Only in winter semester
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h
14	Module duration	1 semester
15	Teaching and examination language	german
16	Bibliography	Die vorbereitende und weitergehende, forschungsbezogene Literatur wird im Rahmen der Veranstaltung bekannt gegeben.

1	Module name 56530	Asset liability management (Versicherungen) Asset liability management (insurance)	5 ECTS
2	Courses / lectures	Vorlesung: Vorlesung "Asset Liability Management (Versicherungen)" (2 SWS) Übung: Übung Asset Liability Management (Versicherungen) (1 SWS)	2,5 ECTS 2,5 ECTS
3	Lecturers	Prof. Dr. Nadine Gatzert	

4	Module coordinator	Prof. Dr. Nadine Gatzert
5	Contents	<ul style="list-style-type: none"> • Einführung: Rahmenbedingungen im Finanzdienstleistungssektor; strategische Zielgrößen von Versicherungsunternehmen (Konzepte und Messung von Kennzahlen) • Asset Management: grundsätzliche Überlegungen; Risikostreuung in Theorie und Praxis; rechtliche Rahmenbedingungen; Chancen und Risiken von Investitionen in Infrastruktur und erneuerbare Energien unter Solvency II; strategische Aspekte der Kapitalanlagepolitik; Performancemessung; Berücksichtigung von Nachhaltigkeitsaspekten in der Kapitalanlage • Liability Management: Ausgleich im Kollektiv; Chain Ladder Verfahren; Rückversicherungsformen; Alternativer Risikotransfer (u.a. Insurance Linked Securities, Cat Bonds) • Asset Liability Management für Versicherungen: Immunisierungsansätze (Cashflow und Duration Matching); Optimierungsstrategien; Szenarioanalysen und Dynamische Finanzanalyse; wissenschaftliche Forschungsarbeiten im Kontext des ALM • Cyber-Risiken im Kontext des ALM, Versicherbarkeit und Management von Cyber-Risiken • Umsetzung von Szenarioanalysen mit Monte-Carlo Simulation im Rahmen einer Excel-basierten ALM Case Study
6	Learning objectives and skills	<p>Die Studierenden</p> <ul style="list-style-type: none"> • erlernen die grundlegenden und vertiefenden Konzepte des Asset Liability Managements eines Versicherungsunternehmens; • können Modellannahmen hinterfragen; • können die theoretischen Konzepte auf konkrete Fragestellungen anwenden; • können Monte-Carlo Simulation in Excel einsetzen, dabei ihre theoretischen Kenntnisse anwenden und eigenständig im Rahmen einer ALM-Simulationsstudie mit Szenarioanalysen umsetzen; • lernen interaktiv im Rahmen von Workshops in Gruppen aktuelle Fragestellungen im Kontext des ALMs zu strukturieren, zu erarbeiten und zu präsentieren; • entwickeln und vertiefen dabei ihre Kompetenzen in der Teamarbeit.

7	Prerequisites	Keine
8	Integration in curriculum	semester: 2
9	Module compatibility	Specialisation: Macroeconomics and Finance Master of Science Economics 20212
10	Method of examination	Written examination (60 minutes) <i>Im Sommersemester besteht vorlesungsbegleitend die Möglichkeit einer freiwilligen Notenverbesserung, wobei eine Verbesserung um bis zu 0,3 Notenstufen erfolgen kann. Dazu können Studierende auf StudOn vier je ca. 10-minütige Online-Kurztests (Quizze) zur Aufbereitung des Vorlesungsstoffs bearbeiten. Die Notenverbesserung erfolgt, wenn die Quizze erfolgreich bearbeitet wurden sowie die Klausur mit der Note 4,0 oder besser bestanden wurde. Etwaige Quizzergebnisse aus dem Sommersemester werden für eine Nachholprüfung im Wintersemester übernommen.</i>
11	Grading procedure	Written examination (100%)
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h
14	Module duration	1 semester
15	Teaching and examination language	german
16	Bibliography	Die vorbereitende Literatur und auch die weitergehende, forschungsbezogene Literatur wird im Rahmen der Veranstaltung bekannt gegeben.

1	Module name 56540	Lebensversicherung Life insurance	5 ECTS
2	Courses / lectures	Vorlesung: Vorlesung "Lebensversicherung" (2 SWS) Übung: Übung Lebensversicherung (1 SWS)	2,5 ECTS 2,5 ECTS
3	Lecturers	Prof. Dr. Nadine Gatzert	

4	Module coordinator	Prof. Dr. Nadine Gatzert
5	Contents	<ul style="list-style-type: none"> • Einführung in den Lebensversicherungsmarkt • Darstellung von klassischen und innovativen Lebensversicherungsprodukten (und den darin enthaltenen impliziten Optionen) • Versicherungsmathematische Aspekte: Bestimmung von Prämien und Deckungsrückstellungen auf Basis der typischen aktuariellen Rechnungsgrundlagen (Zins, Sterbetafeln) • Analyse und Bewertung von Fondsprodukten mit Garantien • Absicherung von Garantien in Fondsprodukten mit Kapitalanlagestrategien (u.a. Constant Proportion Portfolio Insurance)
6	Learning objectives and skills	<p>Die Studierenden können</p> <ul style="list-style-type: none"> • aktuelle Entwicklungen im Lebensversicherungsmarkt beurteilen und hinterfragen diese; • Prämien und Deckungsrückstellungen von klassischen Lebensversicherungsverträgen berechnen und kennen die zentralen Einflussgrößen; • klassische und fondsgebundene Lebensversicherungsprodukte mit verschiedenen Garantien bewerten und verschiedene Methoden der Bewertung vergleichen und Modellannahmen kritisch hinterfragen; • einschätzen, wie verschiedene Arten von Finanzgarantien abgesichert werden müssen und können hierfür auch Kapitalanlagestrategien anwenden; • ihre theoretischen Kenntnisse im Rahmen einer Monte-Carlo-Simulation in Excel umsetzen und auf praktische Fragestellungen anwenden.
7	Prerequisites	Keine.
8	Integration in curriculum	semester: 2
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Macroeconomics and Finance Master of Science Economics 20212
10	Method of examination	<p>Written examination (60 minutes)</p> <p><i>Im Sommersemester besteht vorlesungsbegleitend die Möglichkeit einer freiwilligen Notenverbesserung, wobei eine Verbesserung um bis zu 0,3 Notenstufen erfolgen kann. Dazu können Studierende auf StudOn vier je ca. 10-minütige Online-Kurztests (Quizze) zur Aufbereitung des Vorlesungsstoffs bearbeiten. Die Notenverbesserung erfolgt, wenn die Quizze</i></p>

		<i>erfolgreich bearbeitet wurden sowie die Klausur mit der Note 4,0 oder besser bestanden wurde. Etwaige Quizergebnisse aus dem Sommersemester werden für eine Nachholprüfung im Wintersemester übernommen.</i>
11	Grading procedure	Written examination (100%)
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h
14	Module duration	1 semester
15	Teaching and examination language	german
16	Bibliography	Die vorbereitende Literatur und auch die weitergehende, forschungsbezogene Literatur werden im Rahmen der Veranstaltung bekannt gegeben.

1	Module name 57130	International trade and labor	5 ECTS
2	Courses / lectures	Vorlesung: Ma-Vorl: International Trade & Labor (2 SWS) Übung: Übung zur Ma-Vorl International Trade and Labor (2 SWS) (Vorlesung mit Übung)	5 ECTS -
3	Lecturers	Prof. Dr. Christoph Moser Dr. Stefan Suttner	

4	Module coordinator	Prof. Dr. Christoph Moser
5	Contents	This module deals with the consequences of globalization for the domestic labor market and discusses the winners and losers of trade liberalization. The module focuses on the impact of international economic integration on domestic wages, jobs and inequality, in particular in Germany and the United States.
6	Learning objectives and skills	Students are made familiar with the main relevant concepts of international trade and acquire specialized knowledge of the labor market effects of trade liberalization. Students learn about key theoretical predictions, their empirical evidence and the empirical strategies to assess their relevance. The module focuses on topics at the intersection between international trade and labor.
7	Prerequisites	Recommended prerequisites: Basic knowledge of microeconomics (e.g., Varian, Hal (2014), Intermediate Microeconomics: A Modern Approach, 9th international edition) and econometrics (e.g., Wooldridge, Jeffrey (2013), Introductory Econometrics: A Modern Approach, 5th international edition).
8	Integration in curriculum	semester: 2
9	Module compatibility	Specialisation: Labour Economics Master of Science Economics 20212 Specialisation: Macroeconomics and Finance Master of Science Economics 20212 Master Economics: Specialization in Macroeconomics and Finance Master IBS: elective course (Wahlbereich): English-speaking countries; Europe Master Arbeitsmarkt und Personal: Wahlbereich Master Sozialökonomik: freier Vertiefungsbereich

10	Method of examination	Written examination (60 minutes)
11	Grading procedure	Written examination (100%)
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 60 h Independent study: 90 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Krugman, P., M. Obstfeld and M. Melitz (2017/18), International Trade: Theory and Policy OR International Economics: Theory and Policy, 11th global edition. Further course materials will be announced in the course.

1	Module name 57340	Bayesian econometrics	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Jonas Dovern	
5	Contents	Basics of Bayesian statistics; Bayesian estimation of linear regression models with various priors; Bayesian estimation of models for limited dependent variables; Bayesian VAR models; forecasting with Bayesian models; basics of Bayesian estimation of macroeconomic DSGE models; posterior simulation techniques (Monte Carlo integration, importance sampling, Gibbs sampler, Metropolis-Hastings algorithm); implementation of methods in R	
6	Learning objectives and skills	<p>Students are able to ...</p> <ul style="list-style-type: none"> • explain the differences between Bayesian and frequentist econometrics; • derive posterior parameter distributions for different priors for a range of empirical models; • investigate how sensitive results are with respect to prior choices; • can explain how the covered estimation algorithms work; • interpret results of Bayesian analyses in academic research papers; • implement Bayesian estimations of the covered models/ estimators in R 	
7	Prerequisites	Recommended: basic knowledge in statistics; Applied Econometrics and Mathematics for Economists	
8	Integration in curriculum	semester: 3;1	
9	Module compatibility	Specialisation: Macroeconomics and Finance Master of Science Economics 2012	
10	Method of examination	Written examination (60 minutes)	
11	Grading procedure	Written examination (100%)	
12	Module frequency	Only in winter semester Students can only register for the examination in the winter term. In the summer term, we only offer resits for students who failed the examination in the winter term.	
13	Workload in clock hours	Contact hours: 60 h Independent study: 90 h	
14	Module duration	1 semester	
15	Teaching and examination language	english	
16	Bibliography	Koop, G. (2003), Bayesian Econometrics, Wiley, West Sussex.	

Del Negro, M. and F. Schorfheide (2011), Bayesian Macroeconomics, in: Geweke, J., G. Koop, and H. van Dijk (eds.), The Oxford Handbook of Bayesian Econometrics, p.293389, Oxford University Press, Oxford.

Kilian, L. and H. Lütkepohl (2017), Structural Vector Autoregressive Analysis, Cambridge University Press, Cambridge.

1	Module name 57400	European topics in economics	5 ECTS
2	Courses / lectures	No courses / lectures available for this module!	
3	Lecturers	No lecturers available since there are no courses / lectures for this module!	

4	Module coordinator	Prof. Dr. Christian Merkl
5	Contents	<ul style="list-style-type: none"> • European topics in economics
6	Learning objectives and skills	<p>Students</p> <ul style="list-style-type: none"> • use a microeconomic or macroeconomic dataset. • apply advanced econometric techniques to answer economic questions related to the European Union. • write a seminar work that describes key empirical results. • present their results in Brussels.
7	Prerequisites	Macroeconomics: Business Cycles and Applied Econometrics
8	Integration in curriculum	semester: 2
9	Module compatibility	Specialisation: Macroeconomics and Finance Master of Science Economics 20212
10	Method of examination	Seminar achievement
11	Grading procedure	Seminar achievement (100%)
12	Module frequency	Irregular
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	

1	Module name 56441	Economic internship	5 ECTS
2	Courses / lectures	Seminar: Seminar zum Praktikumsmodul im DMSE Master (2 SWS)	-
3	Lecturers	Prof. Dr. Thies Büttner Annalisa Tassi	

4	Module coordinator	Prof. Dr. Thies Büttner Prof. Dr. Christian Merkl Prof. Dr. Claus Schnabel Prof. Dr. Harald Tauchmann Prof. Dr. Karl Gregor Zöttl
5	Contents	Economic internship with research institutes, international organizations, research departments of firms in relation to the Master specialisation (Public, Labor, Macro & Finance, Health, or Energy)
6	Learning objectives and skills	Students obtain the chance to familiarize themselves with labor market opportunities for economists and learn how to apply economic concepts and methods in practice. Students also expand their command of important soft skills, including presentation techniques and communication skills. The participants exchange their practical experiences and insights and develop a critical reflection on economic practice and job market opportunities.
7	Prerequisites	Students should have completed all courses of the first semester. Please note that internships started or completed before the start of the Masters programme will not be considered.
8	Integration in curriculum	semester: 2;3
9	Module compatibility	Miscellaneous Master of Science Economics 2012 Specialisation: Energy Markets Master of Science Economics 2012 Specialisation: Health Economics Master of Science Economics 2012 Specialisation: Labour Economics Master of Science Economics 2012 Specialisation: Macroeconomics and Finance Master of Science Economics 2012 Specialisation: Public Economics Master of Science Economics 2012
10	Method of examination	Course achievement The exact requirements for recognition are set out in a prior written agreement with the professor in charge of the relevant specialisation. Typically, a six-week full-time internship is required, along with a report and a presentation.
11	Grading procedure	Course achievement (pass/fail)
12	Module frequency	Every semester
13	Workload in clock hours	Contact hours: 300 h Independent study: 0 h
14	Module duration	1 semester
15	Teaching and examination language	german or english

16	Bibliography	Please note: Interested students must apply directly to the external institution of interest. In principle, internships can be taken into account as long as they are sufficiently related to economic research and fit into one of the areas. An upfront written agreement with the respective lecturer is required. In this case, students should contact the professor in charge of the relevant specialisation before the start of the internship.
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1	Module name 57462	Seminar: Web Scraping for Business and Economics	5 ECTS
2	Courses / lectures	Seminar: Seminar: Web Scraping for Business and Economics (2 SWS) Attendance is compulsory	5 ECTS
3	Lecturers	Prof. Dr. Jonas Dovern	

4	Module coordinator	Prof. Dr. Jonas Dovern
5	Contents	This hands-on seminar offers an opportunity to learn how to scrape data from websites. During the first half of the semester, students will teach each other the necessary tools and skills by means of seminar presentations. During the second half of the semester, students implement a web scraper for a project of their choice for scraping data that allows them to analyze web data in the context of a chosen research question (possible examples: product price comparisons, analysis of text from speeches of monetary policy makers, features of job vacancies).
6	Learning objectives and skills	Students will learn how to use the web scraping to collect data from websites. In particular, they will be able to ... - navigate html code and select the required information - web scrape the information using the software R - process and analyze the collected data - document their work flow and their results
7	Prerequisites	Recommended: „Applied Econometrics“ or “Ökonometrie”
8	Integration in curriculum	semester: 2;4
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Macroeconomics and Finance Master of Science Economics 20212
10	Method of examination	Seminar paper and presentation
11	Grading procedure	Seminar paper and presentation (100%) Seminar paper (60%) and presentation (40%).
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Students have to search for relevant literature (we might give hints).

Specialization: Public economics

1	Module name 54440	Issues in international political economy	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers. (Vorlesung mit Übung)	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Christoph Moser
5	Contents	This course deals with international trade policy. The focus will be on the political and economic determinants and consequences of trade liberalization as well as trade policies that increase trade barriers. The course will provide important insights into the global governance of international trade flows, the World Trade Organization and the role of the United States, China and the European Union.
6	Learning objectives and skills	Students gain an understanding of the importance and evolution of the international trading system and how it affects multinational corporations (MNCs). Students learn about different trade policy tools, their economic consequences and their political constraints, in particular in the United States, China and the European Union. Students learn to critically assess trade-related news in the media.
7	Prerequisites	Recommended prerequisites: <ul style="list-style-type: none"> • Basic knowledge of microeconomics (e.g., Varian, Hal (2014), Intermediate Microeconomics: A Modern Approach, 9th international edition).
8	Integration in curriculum	semester: 3
9	Module compatibility	Specialisation: Macroeconomics and Finance Master of Science Economics 20212 Specialisation: Public Economics Master of Science Economics 20212 Module compatibility: <ul style="list-style-type: none"> • Master IBS: core course (Pflichtbereich) • Master IBS: mandatory elective for the area English-speaking countries. Students who select English-speaking countries as an area study cannot take this module as a core course module, but must take it as part of their area studies. • Master Wirtschaftspädagogik, Studienrichtung II: elective course (Wahlbereich im Zweitfach Sozialkunde), core course (Pflichtbereich im Zweitfach Englisch) • Erweiterungsprüfung Berufliche Schulen/Studienfach • Wirtschaftspädagogik • Master Sozialökonomik: elective course (Wahlbereich) • Master Arbeitsmarkt und Personal: elective course (Wahlbereich) • Master Economics: Specialization in Macroeconomics and Finance, and Public economics
10	Method of examination	Written examination (60 minutes)

		Written examination 60 min. (Klausur 60 Min.)
11	Grading procedure	Written examination (100%)
12	Module frequency	Only in winter semester
13	Workload in clock hours	Contact hours: 60 h Independent study: 90 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	<ul style="list-style-type: none"> • Krugman, P., M. Obstfeld and M. Melitz (2017/18), International Trade: Theory and Policy OR International Economics: Theory and Policy, 11th global edition • Further, course materials will be announced in the course.

1	Module name 56911	Issues in political economy	5 ECTS
2	Courses / lectures	Seminar: Ma-Sem: Issues in Political Economy (2 SWS) Es besteht Anwesenheitspflicht.	5 ECTS
3	Lecturers	Prof. Dr. Christoph Moser	

4	Module coordinator	Prof. Dr. Christoph Moser	
5	Contents	This course deals with current topics in political economy and how politics and economics interact in various fields in the United States and the European Union. The course provides an introduction into the political systems and discusses the interactions between profit-maximizing firms and US and European non-market agents like the government, regulatory institutions and the public. The topics covered include but are not limited to the impact of political connections, corruption, lobbying and the revolving door on the United States of America and the European Union.	
6	Learning objectives and skills	Students gain a deeper understanding of how institutions, power and economic outcomes interact with each other. There will be a focus on the different actors such as governments, NGOs and private sector representatives. Students will also learn about empirical methods used in these fields. A special emphasis will be placed on the United States, the European Union and the transatlantic area.	
7	Prerequisites	Recommended prerequisites: Basic knowledge of economics, politics and econometrics.	
8	Integration in curriculum	semester: 2	
9	Module compatibility	Specialisation: Public Economics Master of Science Economics 20212 Master IBS: elective course (Wahlbereich): English-speaking countries; Europe Master Economics: Specialization in Public Economics	
10	Method of examination	Written or oral <i>Es handelt sich um eine einheitliche Prüfung, bei der die einzelnen Teilleistungen untrennbar miteinander verbunden sind. Für das Bestehen des Moduls müssen nach § 19 Abs. 1 Satz 4 MPOWIWI in der jeweils geltenden Fassung alle Teilleistungen in demselben Semester bestanden werden. Wegen des untrennbaren Bezugs der Teilleistungen aufeinander ist abweichend von § 25 Abs.1 Satz 2 MPOWIWI eine Wiederholung nur einer der nicht bestandenen Teilleistungen nicht möglich. Das Nichtbestehen einer der Teilleistungen erfordert die Wiederholung der gesamten Prüfung.</i>	

11	Grading procedure	Written or oral (100%) 30% presentation, 70% seminar paper (30% Präsentation, 70% Seminararbeit)
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	

1	Module name 53296	Economics of innovation	5 ECTS
2	Courses / lectures	Vorlesung mit Übung: Economics of Innovation (Lecture and Tutorial) (4 SWS) Students are required to be present on the day when presentations will be held.	5 ECTS
3	Lecturers	Prof. Dr. Markus Nagler	

4	Module coordinator	Prof. Dr. Markus Nagler	
5	Contents	The lecture provides an introduction to economic issues of innovation and new ideas. The course first sets out general problems in the economics of innovation such as the public goods nature of ideas and the importance of innovation for economic prosperity. In the second part, the course discusses labor and personnel issues in innovation policy, for example the design of incentives for innovation. In the third part, the course analyses issues in intellectual property rights and public economics topics such as public funding of research or the role of universities.	
6	Learning objectives and skills	Students know the key issues in the economics of innovation and the impacts of potential public policies to promote innovation. They are able to assess current research in the economics of innovation and are able to relate its results to fundamental policy questions in the area. Students are acquainted with important empirical approaches in the area.	
7	Prerequisites	Basic microeconomics, basic econometrics	
8	Integration in curriculum	semester: 2	
9	Module compatibility	Specialisation: Public Economics Master of Science Economics 20212	
10	Method of examination	Written or oral Students will have to present one paper (potentially in groups) that picks up a topic from the lecture. In addition, students have to produce a referee report on a paper related to the topics of the lecture. I will provide a list of possible papers for both assignments in the first weeks of lectures.	
11	Grading procedure	Written or oral (100%) Both assignments will be marked independently, with the final grade reflecting a weighted average of both single grades. Discussionpaper (50%) and Presentation (50%).	
12	Module frequency	Only in summer semester	
13	Workload in clock hours	Contact hours: 60 h Independent study: 90 h	
14	Module duration	1 semester	
15	Teaching and examination language	english	

16	Bibliography	<ul style="list-style-type: none">• Bryan, Kevin and Heidi Williams (2021): Markets for innovation: Market failures and public policies, Handbook of Industrial Organization 5(1):281-388, Chapter 13• Bloom, Nicholas, John Van Reenen and Heidi Williams (2019): A Toolkit of Policies to Promote Innovation, Journal of Economic Perspectives 33(3): 163-184• Scotchmer, Suzanne. Innovation and incentives. MIT press, 2004.• Stephan, Paula. How economics shapes science. Harvard University Press, 2012.
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1	Module name 52945	Seminar Experimental Economics Seminar: Experimental economics	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Johannes Rincke
5	Contents	Topics in Experimental Economics
6	Learning objectives and skills	<p>Students</p> <ul style="list-style-type: none"> • study selected parts of the academic literature on experimental economics and learn how to deal with this literature • learn how to identify relevant contributions in large bodies of economic literature • learn about up-to-date methods in experimental economics • learn how to read economic papers and to evaluate and assess contributions, including methodological innovations • learn how to delineate conclusions from the academic literature in terms of policy implications • learn how to structure and write academic theses in economics • expand their skills in terms of presentation techniques and participation in academic debates
7	Prerequisites	All techniques and methods that are part of the curriculum in the first semester of the study program MSE
8	Integration in curriculum	semester: 3
9	Module compatibility	Specialisation: Public Economics Master of Science Economics 20212
10	Method of examination	Presentation Seminar paper Discussion contribution
11	Grading procedure	Presentation (30%) Seminar paper (50%) Discussion contribution (20%)
12	Module frequency	Only in winter semester
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Will be provided

1	Module name 52950	Seminar: Public economics 1	5 ECTS
2	Courses / lectures	Masterseminar: Seminar Public Economics 1 (3 SWS)	5 ECTS
3	Lecturers	Prof. Dr. Thiess Büttner Prof. Dr. Matthias Wrede Prof. Dr. Sarah Necker	

4	Module coordinator	Prof. Dr. Thiess Büttner Prof. Dr. Sarah Necker Prof. Dr. Matthias Wrede
5	Contents	Topics in Public Economics
6	Learning objectives and skills	<p>Students</p> <ul style="list-style-type: none"> • study selected parts of the academic literature in public economics (mostly from scientific journals) and learn how to deal with this literature • learn how to identify relevant contributions in large bodies of economic literature • learn about current approaches and methods in public economics • learn how to read economic papers and to evaluate and assess contributions, regarding both theory and empiry • learn how to draw conclusions from the academic literature in terms of policy implications and critically analyse these findings • learn how to structure and write an academic thesis in economics • expand their skillset in presenting research and presentation techniques and actively participate in academic discussion
7	Prerequisites	All techniques and methods that are part of the curriculum in the first semester
8	Integration in curriculum	semester: 2
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Public Economics Master of Science Economics 20212
10	Method of examination	<p>Written or oral Seminar paper (15 pages), presentation, class participation (incl. discussion of other participants' presentations).</p> <p>Attendance of the presentations is mandatory.</p> <p>Exam registration and deregistration take place before the regular exam registration and deregistration period.</p> <p><i>This is a complete examination which means that the partial achievements cannot be separated. Pursuant to Section 19 (1) (4) MPOWIWI, all partial achievements must be completed in the same semester to pass the module. As the partial achievements</i></p>

		<i>are connected, repeating only one partial achievement is not permitted in deviation to Section 25 (1)(2) MPOWIWI. Failing one partial achievement requires the entire examination to be repeated.</i>
11	Grading procedure	Written or oral (100%) Seminar paper (50%), presentation (30%), discussion (20%)
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Will be provided together with the topic announcements.

1	Module name 52960	Seminar: Public economics 2	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Thiess Büttner Prof. Dr. Sarah Necker Prof. Dr. Matthias Wrede
5	Contents	Topics in Public Economics
6	Learning objectives and skills	<p>Students</p> <ul style="list-style-type: none"> • study selected parts of the academic literature in public economics (mostly from scientific journals) and learn how to deal with this literature • learn how to identify relevant contributions in large bodies of economic literature • learn about current approaches and methods in public economics • learn how to read economic papers and to evaluate and assess contributions, regarding both theory and empiry • learn how to draw conclusions from the academic literature in terms of policy implications and critically analyse these findings • learn how to structure and write an academic thesis in economics • expand their skillset in presenting research and presentation techniques and actively participate in academic discussion
7	Prerequisites	All techniques and methods that are part of the curriculum in the first semester
8	Integration in curriculum	semester: 3
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Public Economics Master of Science Economics 20212
10	Method of examination	<p>Written or oral Seminar paper (15 pages), presentation, class participation (incl. discussion of other participants' presentations)</p> <p>Attendance of the presentations is mandatory.</p> <p>Exam registration and deregistration take place before the regular exam registration and deregistration period.</p> <p><i>This is a complete examination which means that the partial achievements cannot be separated. Pursuant to Section 19 (1) (4) MPOWIWI, all partial achievements must be completed in the same semester to pass the module. As the partial achievements</i></p>

		<i>are connected, repeating only one partial achievement is not permitted in deviation to Section 25 (1)(2) MPOWIWI. Failing one partial achievement requires the entire examination to be repeated.</i>
11	Grading procedure	Written or oral (100%) Seminar paper (50%), presentation (30%), discussion (20%)
12	Module frequency	Only in winter semester
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Will be provided together with the topic announcements.

1	Module name 53055	Panel and evaluation methods	5 ECTS
2	Courses / lectures	Tutorium: Panel- and Evaluation Methods-Tutorium (0 SWS)	-
3	Lecturers		

4	Module coordinator	Prof. Dr. Regina Therese Riphahn
5	Contents	Endogeneity in the linear regression model; instrumental variables estimation; static and dynamic panel data models; matching; difference-in-differences estimation; regression discontinuity design; quantile regression; practical application of methods using statistics software STATA
6	Learning objectives and skills	Based on the introductory econometrics module "Ökonometrie" students acquire specialized knowledge in panel und evaluation methods and apply it using the statistics software STATA. Students evaluate to what degree empirical patterns can be interpreted as causal and decide to what extent problems of endogeneity can be solved via panel data or exogeneous variation. Students can produce own empirical analyses.
7	Prerequisites	Basic knowledge in statistics and econometrics
8	Integration in curriculum	semester: 3;1
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Health Economics Master of Science Economics 20212 Specialisation: Labour Economics Master of Science Economics 20212 Specialisation: Macroeconomics and Finance Master of Science Economics 20212 Specialisation: Public Economics Master of Science Economics 20212
10	Method of examination	Written examination (60 minutes)
11	Grading procedure	Written examination (100%) 100 % written exam (a voluntarily submitted homework can account for 20 % of the final grade if it improves the grade. In the homework an empirical analysis is performed based on Stata. The final grade can be improved by up to 0.7 points. However, the exam must be passed. The homework only counts towards final grades in the semester in which they are produced, i.e. only in the winter semester.)
12	Module frequency	Only in winter semester
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Wooldridge, J.M., 2010, Econometric Analysis of Cross Section and Panel Data, 2.ed., MIT Press. Greene, William H., 2020, Econometric Analysis, 8. ed., Pearson, New Jersey

Cameron, C.A. and P.K. Trivedi, 2005, *Microeconometrics. Methods and Applications*, Cambridge University Press

Angrist, J. and J.-S. Pischke, 2009, *Mostly Harmless Econometrics*, Princeton University Press, Princeton, and Oxford.

Verbeek, M., 2017, *A Guide to Modern Econometrics*, 5. ed., Wiley.

1	Module name 54611	Public economics	5 ECTS
2	Courses / lectures	Vorlesung: Public Economics (2 SWS) Übung: Public Economics (E) (2 SWS)	5 ECTS -
3	Lecturers	Prof. Dr. Thiess Büttner William Dean	

4	Module coordinator	Prof. Dr. Thiess Büttner
5	Contents	The lecture provides an introduction in public economics at the intermediate level. The course first derives the basic theoretical foundations for an optimal design of public policy. In the second step, the course discusses specific aspects of public policy, such as taxation and redistribution, social security, tax evasion, debt finance, interjurisdictional competition and fiscal federalism, all with reference to relevant literature. It supplements theory by exploring practical problems.
6	Learning objectives and skills	Students learn how to characterize efficient public policies using microeconomic decision models. They can use this framework to study public policy in a rigorous and consistent general equilibrium context. Students get acquainted with important empirical methods to evaluate public policies quantitatively. Moreover, they acquire knowledge about options, methods and limits to implement efficient public policy
7	Prerequisites	Basic microeconomics
8	Integration in curriculum	semester: 2
9	Module compatibility	Specialisation: Health Economics Master of Science Economics 20212 Specialisation: Labour Economics Master of Science Economics 20212 Specialisation: Macroeconomics and Finance Master of Science Economics 20212 Specialisation: Public Economics Master of Science Economics 20212
10	Method of examination	Written examination (90 minutes)
11	Grading procedure	Written examination (100%)
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 60 h Independent study: 90 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Hindriks, J., and Myles, G., (2006), Intermediate Public Economics, MIT Press, Cambridge Atkinson, A.B., Stiglitz, J. E., (1980), Lectures on Public Economics . MacGraw-Hill, New York Detailed slides and a list of references are provided at the beginning of the course.

1	Module name 55960	Spatial economics	5 ECTS
2	Courses / lectures	Vorlesung: MA V Spatial Economics (2 SWS) Übung: MA Üb Spatial Economics (2 SWS)	2,5 ECTS 2,5 ECTS
3	Lecturers	Prof. Dr. Matthias Wrede Ramona Müller	

4	Module coordinator	Prof. Dr. Matthias Wrede	
5	Contents	Urban Economics, Trade, Mobility, and Agglomeration, Spatial Concentration, Regional Policy	
6	Learning objectives and skills	<p>After successful completion of this course,</p> <ul style="list-style-type: none"> • Students are able to describe and to internationally compare the regional patterns of major economic activities in terms of stylized facts. • Students are able to present, interpret, and discuss selected theories in regional and urban economics. • Students are able to apply and assess selected empirical methods in spatial economics. • Students are able to assess empirical tests of selected hypotheses from theories in regional and urban economics to evaluate and critically examine their informative value. • Students are able to discuss and evaluate regional political implications of selected economic theories in regional and urban economics. • Students will assess, evaluate and discuss selected recent research papers in English. 	
7	Prerequisites	Microeconomics and Econometrics I recommended	
8	Integration in curriculum	semester: 2	
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Labour Economics Master of Science Economics 20212 Specialisation: Public Economics Master of Science Economics 20212	
10	Method of examination	Written examination (60 minutes) Presentation	
11	Grading procedure	Written examination (80%) Presentation (20%)	
12	Module frequency	Only in summer semester	
13	Workload in clock hours	Contact hours: 60 h Independent study: 90 h	
14	Module duration	1 semester	
15	Teaching and examination language	english	
16	Bibliography	Will be announced in the course.	

1	Module name 56441	Economic internship	5 ECTS
2	Courses / lectures	Seminar: Seminar zum Praktikumsmodul im DMSE Master (2 SWS)	-
3	Lecturers	Prof. Dr. Thies Büttner Annalisa Tassi	

4	Module coordinator	Prof. Dr. Thies Büttner Prof. Dr. Christian Merkl Prof. Dr. Claus Schnabel Prof. Dr. Harald Tauchmann Prof. Dr. Karl Gregor Zöttl
5	Contents	Economic internship with research institutes, international organizations, research departments of firms in relation to the Master specialisation (Public, Labor, Macro & Finance, Health, or Energy)
6	Learning objectives and skills	Students obtain the chance to familiarize themselves with labor market opportunities for economists and learn how to apply economic concepts and methods in practice. Students also expand their command of important soft skills, including presentation techniques and communication skills. The participants exchange their practical experiences and insights and develop a critical reflection on economic practice and job market opportunities.
7	Prerequisites	Students should have completed all courses of the first semester. Please note that internships started or completed before the start of the Masters programme will not be considered.
8	Integration in curriculum	semester: 2;3
9	Module compatibility	Miscellaneous Master of Science Economics 2012 Specialisation: Energy Markets Master of Science Economics 2012 Specialisation: Health Economics Master of Science Economics 2012 Specialisation: Labour Economics Master of Science Economics 2012 Specialisation: Macroeconomics and Finance Master of Science Economics 2012 Specialisation: Public Economics Master of Science Economics 2012
10	Method of examination	Course achievement The exact requirements for recognition are set out in a prior written agreement with the professor in charge of the relevant specialisation. Typically, a six-week full-time internship is required, along with a report and a presentation.
11	Grading procedure	Course achievement (pass/fail)
12	Module frequency	Every semester
13	Workload in clock hours	Contact hours: 300 h Independent study: 0 h
14	Module duration	1 semester
15	Teaching and examination language	german or english

16	Bibliography	Please note: Interested students must apply directly to the external institution of interest. In principle, internships can be taken into account as long as they are sufficiently related to economic research and fit into one of the areas. An upfront written agreement with the respective lecturer is required. In this case, students should contact the professor in charge of the relevant specialisation before the start of the internship.
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1	Module name 57330	Development economics	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Johannes Rincke	
5	Contents	The lecture covers the principles of modern development economics and, using various examples from the current literature, highlights the core topics, the methodological challenges, and the key findings derived in this sub-discipline of economics. The lecture covers decisions of individuals and households and thus has a clear microeconomic focus. A core topic of the lecture is why poor individuals and households are often struggling to leave poverty and to advance to more adequate living conditions, and which policies can help to overcome poverty traps. In the exercise course, the focus is on advanced empirical methods and their application to problems of development. Students work with data sets and replicate core findings from the literature.	
6	Learning objectives and skills	The module aims at providing students with a comprehensive set of advanced conceptual and methodological tools to analyse problems in development economics. Specifically, students get an overview of modern development economics and the history of thought in this sub-discipline learn how to analyse specific problems in development economics, based on the current journal literature deal intensively with applied methods in modern development economics, in particular with experimental methods and advanced methods of data analysis learn to understand, evaluate and replicate empirical studies in development economics	
7	Prerequisites	Completion of all compulsory courses in the MSE program, in particular Microeconomics, Applied Econometrics, and Mathematics for Economists	
8	Integration in curriculum	semester: 3	
9	Module compatibility	Specialisation: Public Economics Master of Science Economics 20212	
10	Method of examination	Presentation (60 minutes) Written examination (60 minutes)	
11	Grading procedure	Presentation (50%) Written examination (50%)	
12	Module frequency	Only in winter semester	
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h	
14	Module duration	1 semester	

15	Teaching and examination language	english
16	Bibliography	Selection of journal articles, provided on StudOn

1	Module name 57477	Urbane Arbeits- und Wohnungsmärkte Urban Labor and Housing Markets	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Dr. Andreas Mense	
5	Contents	Empirical evidence on urban labor markets and their interaction with the local housing market; empirical evidence on housing policies and their effects on the labor market, labor supply, residential location choices, and individual labor market biographies.	
6	Learning objectives and skills	<p>At the end of this course:</p> <ul style="list-style-type: none"> • Students understand and apply the main economic concepts used to study urban labor and housing markets • Students are able to understand, assess, and discuss selected recent empirical research papers on the topic • Students understand specific features of urban labor markets, and how they interact with the local housing market • Students are able to discuss pros and cons of important housing policies, and in particular their interactions with the labor market, based on the empirical evidence 	
7	Prerequisites	None	
8	Integration in curriculum	semester: 3	
9	Module compatibility	Specialisation: Labour Economics Master of Science Economics 20212 Specialisation: Public Economics Master of Science Economics 20212	
10	Method of examination	Presentation or Presentation/written examination	
11	Grading procedure	Presentation or Presentation/written examination (100%)	
12	Module frequency	Only in winter semester	
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h	
14	Module duration	1 semester	
15	Teaching and examination language	english	
16	Bibliography	<p>Chetty, R., Hendren, N., Katz, L. (2016). The Effects of Exposure to Better Neighborhoods on Children: New Evidence from the Moving to Opportunity Experiment. <i>American Economic Review</i>, 106(4): 855–902.</p> <p>Dauth, W., Findeisen, S., Moretti, E., Suedekum, J. (2022). Matching in Cities. <i>Journal of the European Economic Association</i> 20(4), 1478-1521.</p>	

De la Roca, J., Puga, D. (2017). Learning by Working in Big Cities. *The Review of Economic Studies* 84(1), 106–142.

Jacob, B., Ludwig, J. (2012). The Effects of Housing Assistance on Labor Supply: Evidence from a Voucher Lottery. *American Economic Review* 102(1), 272-304.

Metcalf, G. (2018). Sand Castles Before the Tide? Affordable Housing in Expensive Cities. *The Journal of Economic Perspectives*, 32(1), 59-80.

Pollakowski, H. O., Weinberg, D.H., Andersson, F., Haltiwanger, J.C., Palloni, G., Kutzbach, M.J. (2022). Childhood Housing and Adult Outcomes: A Between-Siblings Analysis of Housing Vouchers and Public Housing. *American Economic Journal: Economic Policy*, 14(3): 235-72.

1	Module name 53084	Ökonomie der Sozialpolitik Economics of social policy	5 ECTS
2	Courses / lectures	Seminar: MA S Ökonomie der Sozialpolitik (3 SWS)	5 ECTS
3	Lecturers	Prof. Dr. Matthias Wrede	

4	Module coordinator	Prof. Dr. Matthias Wrede	
5	Contents	Ausgewählte ökonomische Analysen der Sozialpolitik unter Einschluss ethischer und ökonomischer Grundlagen sowie institutioneller Aspekte	
6	Learning objectives and skills	<ul style="list-style-type: none"> • Studierende kennen ausgewählte Bereiche der Sozialpolitik und können diese beschreiben und international vergleichen. • Studierende können ethische und ökonomische Grundlagen staatlicher Eingriffe in ausgewählten Bereichen sozialer Sicherung darstellen, interpretieren und diskutieren. • Studierende können Wirkungen sozialpolitisch relevanter Größen theoretisch und empirisch verstehen, bewerten und hinterfragen. • Studierende können sozialpolitische Maßnahmen unter Effizienz- und Gerechtigkeitsgesichtspunkten bewerten und hinterfragen. • Studierende geben Ihren Kommilitonen im Rahmen ihrer Präsentationen strukturiertes Feedback. • Studierende fördern die Fachkenntnisse der anderen Studierenden durch themenspezifische Diskussionsbeiträge. • Studierende erfassen, bewerten und diskutieren ausgewählte aktuelle, meist englischsprachige Forschungsarbeiten in Ihrer Seminararbeit. 	
7	Prerequisites	Mikroökonomische und ökonometrische Kenntnisse	
8	Integration in curriculum	semester: 2	
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Health Economics Master of Science Economics 20212 Specialisation: Labour Economics Master of Science Economics 20212 Specialisation: Public Economics Master of Science Economics 20212	
10	Method of examination	Written or oral Term paper (15 pages), presentation (20 minutes)	
11	Grading procedure	Written or oral (100%) Term paper 70%, presentation 30%	
12	Module frequency	Only in summer semester	
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h	
14	Module duration	1 semester	
15	Teaching and examination language	german	
16	Bibliography	Die Literatur wird während des Kurses bekannt gegeben.	

Specialization: Energy markets

1	Module name 52592	Quantitative methods in energy market modelling	5 ECTS
2	Courses / lectures	Vorlesung mit Übung: MA Quantitative Methods in Energy Market Modelling (3 SWS)	5 ECTS
3	Lecturers	Prof. Dr. Karl Gregor Zöttl	

4	Module coordinator	Prof. Dr. Karl Gregor Zöttl	
5	Contents	<p>It is the purpose of the course to understand and quantitatively analyse the economic interaction of the players and institutions in liberalized energy markets.</p> <p>Liberalized electricity markets can be segmented in a regulated part (the networks) and the non-regulated parts (generation and retail) where private companies interact in a market environment. The interaction of the different agents is analysed with computational equilibrium frameworks based the concepts applied in industrial organization. Next to the fundamental understanding of the relevant market interaction, the models allow for a quantitative analysis of proposals for the design of energy markets. The participants thus develop the tools for an autonomous assessment of currently discussed policies in liberalized electricity markets (e.g. changed support schemes for renewables, changed network tariff systems, impact of capacity markets).</p> <p>The course aims at students in the field of economics /business as well as students in the fields of engineering and mathematics. An integral part of the course id formed by homework assignments conducted in groups. The ability to cooperate also beyond the classical limits of each discipline is an important qualification for the students careers, which should be stimulated in the context of this course.</p>	
6	Learning objectives and skills	<p>The students:</p> <ul style="list-style-type: none"> • develop a clear picture of the relevant market participants in liberalized electricity markets and understand their incentives and objectives • learn fundamental concepts and models which allow to analyze the interaction at those markets • get to know important publically available data sources which allow for a quantitative analysis of the market situations considered • know the current challenges when designing those markets and can quantitatively analyze the solutions proposed in the current policy debate. 	
7	Prerequisites	<p>The students should be familiar with the mathematical methods acquired during their Bachelor degree. Institutional knowledge of electricity markets is not required.</p>	
8	Integration in curriculum	semester: 2	
9	Module compatibility	<p>Miscellaneous Master of Science Economics 20212 Specialisation: Energy Markets Master of Science Economics 20212</p>	
10	Method of examination	<p>Written examination Written assignment/Seminar paper</p>	

		(Work on assignment sheets in groups of up to 3 students, approx. 15 pages) Written examination (90 minutes)
11	Grading procedure	Written examination (80%) Written assignment/Seminar paper (20%)
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Daniel Kirschen and Goran Strbac: Power System Economics, Wiley 2004. Steven Stoft: Power System Economics, Wiley 2002. Wolfgang Ströbele, Wolfgang Pfaffenberger, Michael Heuterkes: Energiewirtschaft, Oldenbourg 2010.

1	Module name 52971	Linear optimization Linear and combinatorial optimization	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Dr. Dieter Weninger	
5	Contents	The main focus of this lecture is on the theory and solution of linear optimization problems. We will address geometric aspects of linear programming, duality, model creation and sensitivity analysis. This course also covers the Simplex Method for solving linear programs.	
6	Learning objectives and skills	Students will <ul style="list-style-type: none"> • autonomously recognize and analyze problems in linear optimization, • discuss basic algorithmic concepts and apply them systematically, • classify methods of this field of study, • gather and assess relevant information and set it in context. 	
7	Prerequisites	Linear Algebra	
8	Integration in curriculum	semester: 3	
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Energy Markets Master of Science Economics 20212	
10	Method of examination	Written examination	
11	Grading procedure	Written examination (100%)	
12	Module frequency	Only in winter semester	
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h	
14	Module duration	1 semester	
15	Teaching and examination language	german	
16	Bibliography	Lecture notes Schrijver: Combinatorial Optimization, Springer 2003 Chvátal: Linear Programming, W.H. Freeman & Co, 1983	

1	Module name 52972	Combinatorial optimization Linear and combinatorial optimization	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Dr. Dieter Weninger	
5	Contents	The main focus of this lecture is on the theory and solution of combinatorial optimization problems. We will address typical problems in graph theory like the Shortest Path Problem, the Spanning Tree or the Max-Flow Min-Cut Theorem. This course also covers basic algorithmic concepts such as Sorting, Greedy algorithm, Depth-first search/Breadth-first search and heuristics.	
6	Learning objectives and skills	Students will <ul style="list-style-type: none"> • autonomously recognize and analyze problems in combinatorial optimization, • discuss basic algorithmic concepts and apply them systematically, • classify methods of this field of study, • gather and assess relevant information and set it in context. 	
7	Prerequisites	Linear Algebra	
8	Integration in curriculum	semester: 3	
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Energy Markets Master of Science Economics 20212	
10	Method of examination	Written examination	
11	Grading procedure	Written examination (100%)	
12	Module frequency	Only in winter semester	
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h	
14	Module duration	1 semester	
15	Teaching and examination language	german	
16	Bibliography	Lecture notes Schrijver: Combinatorial Optimization, Springer 2003 Korte/Vygen: Combinatorial Optimization, Springer 2005	

1	Module name 52980	Methods and applications of mathematical optimization	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Frauke Liers-Bergmann	
5	Contents	The focus of this module is on methods for modelling and solving optimization problems as they occur in the field of industry and economics. Advantages and disadvantages of different modelling techniques will be outlined and different reformulations will be presented in order to achieve efficient solution approaches. Students will learn how to present optimization results properly as well as how to interpret and evaluate these results for practical applications. This module covers topics such as optimization of transport networks (gas, water, energy), mathematical modelling and optimization techniques for market mechanisms in the energy sector and dealing with uncertain data.	
6	Learning objectives and skills	<p>The students</p> <ul style="list-style-type: none"> • will gain an overview over applications of mathematical optimization • learn mathematical optimization modeling and solution techniques • learn to decide which solution approaches are suitable for which class of models 	
7	Prerequisites	Linear and Combinatorial Optimization	
8	Integration in curriculum	semester: 3	
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Energy Markets Master of Science Economics 20212	
10	Method of examination	Written examination (90 minutes)	
11	Grading procedure	Written examination (100%)	
12	Module frequency	Only in winter semester	
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h	
14	Module duration	1 semester	
15	Teaching and examination language	german	
16	Bibliography	Lecture Notes Recent research literature	

1	Module name 52990	Seminar energy markets	5 ECTS
2	Courses / lectures	Seminar: Seminar Energy Markets (4 SWS)	5 ECTS
3	Lecturers	Prof. Dr. Karl Gregor Zöttl Prof. Dr. Veronika Grimm Prof. Dr. Mario Liebensteiner	

4	Module coordinator	Prof. Dr. Thies Büttner Prof. Dr. Mario Liebensteiner Prof. Dr. Karl Gregor Zöttl
5	Contents	<p>It is the purpose of the seminar to deepen the understanding of the economic interaction of the players and institutions in liberalized energy markets.</p> <p>The participants learn and develop the tools for an autonomous economic assessment of currently discussed policies in liberalized electricity markets (e.g. changed support schemes for renewables, changed network tariff systems, impact of capacity markets).</p> <p>In cooperation with experts from the industry, students are also confronted with the practitioners perspective which requires a more detailed application of the economic concepts employed.</p> <p>The course aims at students in the field of economics /business as well as students in the fields of engineering and mathematics. In the final workshop, all Students present and mutually discuss their results together with practitioners from the industry. The ability to communicate also beyond the classical limits of each discipline is an important qualification for the students careers, which should be stimulated in the context of this seminar.</p> <p>Language of the course in the summer term is German (due to cooperation with practice partners), and in the winter term English.</p>
6	Learning objectives and skills	<p>The students</p> <ul style="list-style-type: none"> • learn fundamental concepts and models which allow to analyze the economic interaction at energy markets, • Learn to autonomously apply those methods, • Conceptualize coherent analysis of current policy discussion of how to design energy markets, • In close exchange with a practitioner from industry, learn to apply in meaningful way the conceptual analysis and discussions to real world problems. • Develop their presentation skills.
7	Prerequisites	<p>The students should be familiar with the mathematical methods acquired during their Bachelor degree.</p> <p>Admission requirements for Winter Term (at least one of the following courses must have been passed):</p> <p>Economics of Climate Change Quantitative Methods in Energy Market Modelling Empirical Environmental Economics</p>

8	Integration in curriculum	semester: 2;3
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Energy Markets Master of Science Economics 20212 Summer Term: German (due to cooperation with practice partners), Winter Term: English Exception Summer Term 2025: English
10	Method of examination	Oral Seminar paper Presentation
11	Grading procedure	Oral (20%) Seminar paper (50%) Presentation (30%)
12	Module frequency	Every semester
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h
14	Module duration	1 semester
15	Teaching and examination language	german english
16	Bibliography	Daniel Kirschen and Goran Strbac: Power System Economics, Wiley 2004. Steven Stoft: Power System Economics, Wiley 2002. Wolfgang Ströbele, Wolfgang Pfaffenberger, Michael Heuterkes: Energiewirtschaft, Oldenbourg 2010.

1	Module name 53180	Mathematical Optimization for Communications and Signal Processing Mathematical optimization for communications and signal processing	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Frauke Liers-Bergmann
5	Contents	The focus of this module is on methods for modeling and solving optimization problems as they occur in the field communication and signal processing. Starting from practical applications, different classes of optimization problems are introduced that include linear, mixed-integer linear, continuous non-linear as well as mixed-integer non-linear optimization problems. Advantages and disadvantages of different modeling techniques will be outlined and different reformulations will be presented in order to achieve efficient solution approaches. Students will learn how to present optimization results properly as well as how to interpret and evaluate these results for practical applications in communications and signal processing.
6	Learning objectives and skills	The students <ul style="list-style-type: none"> • have an overview over mathematical optimization in practice • apply mathematical optimization modeling and solution techniques • decide which solution approaches are suitable for which class of models • know available software and how to use it
7	Prerequisites	A bachelor course in Mathematics for Engineers. Recommended are 3-4 courses in Mathematics for Engineers.
8	Integration in curriculum	semester: 3
9	Module compatibility	Specialisation: Energy Markets Master of Science Economics 20212
10	Method of examination	Written examination (90 minutes)
11	Grading procedure	Written examination (100%)
12	Module frequency	Only in winter semester
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h
14	Module duration	1 semester
15	Teaching and examination language	german english
16	Bibliography	

1	Module name 53285	Empirical environmental economics	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Mario Liebensteiner	
5	Contents	This module provides an introduction to focal issues of environmental economics with a particular focus on empirical investigations. The module sets out to make students familiar with state-of-the-art econometric research methods in environmental economics. Key issues will be carbon emissions from the energy and transportation sectors, carbon pricing, integration and subsidization of renewable energies, and the effectiveness of different climate policies.	
6	Learning objectives and skills	<ul style="list-style-type: none"> • Students get to know fundamental problems of environmental economics (e.g. problems of air pollution from burning fossil fuels, integration of renewable energy sources, and effective policy making) • Students get to know recent econometric approach 	
7	Prerequisites	Basic microeconomics Basic econometrics (at least multivariate OLS regressions)	
8	Integration in curriculum	semester: 3	
9	Module compatibility	Specialisation: Energy Markets Master of Science Economics 20212	
10	Method of examination	Presentation Written examination (90 minutes)	
11	Grading procedure	Presentation (20%) Written examination (80%)	
12	Module frequency	Only in winter semester	
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h	
14	Module duration	1 semester	
15	Teaching and examination language	english	
16	Bibliography	Journal articles and other relevant reading materials: will be distributed to course participants via StudOn Wooldridge, J.M. 2012 Introductory Econometrics: A Modern Approach. South-Western Cengage Learning.	

1	Module name 56441	Economic internship	5 ECTS
2	Courses / lectures	Seminar: Seminar zum Praktikumsmodul im DMSE Master (2 SWS)	-
3	Lecturers	Prof. Dr. Thies Büttner Annalisa Tassi	

4	Module coordinator	Prof. Dr. Thies Büttner Prof. Dr. Christian Merkl Prof. Dr. Claus Schnabel Prof. Dr. Harald Tauchmann Prof. Dr. Karl Gregor Zöttl
5	Contents	Economic internship with research institutes, international organizations, research departments of firms in relation to the Master specialisation (Public, Labor, Macro & Finance, Health, or Energy)
6	Learning objectives and skills	Students obtain the chance to familiarize themselves with labor market opportunities for economists and learn how to apply economic concepts and methods in practice. Students also expand their command of important soft skills, including presentation techniques and communication skills. The participants exchange their practical experiences and insights and develop a critical reflection on economic practice and job market opportunities.
7	Prerequisites	Students should have completed all courses of the first semester. Please note that internships started or completed before the start of the Masters programme will not be considered.
8	Integration in curriculum	semester: 2;3
9	Module compatibility	Miscellaneous Master of Science Economics 2012 Specialisation: Energy Markets Master of Science Economics 2012 Specialisation: Health Economics Master of Science Economics 2012 Specialisation: Labour Economics Master of Science Economics 2012 Specialisation: Macroeconomics and Finance Master of Science Economics 2012 Specialisation: Public Economics Master of Science Economics 2012
10	Method of examination	Course achievement The exact requirements for recognition are set out in a prior written agreement with the professor in charge of the relevant specialisation. Typically, a six-week full-time internship is required, along with a report and a presentation.
11	Grading procedure	Course achievement (pass/fail)
12	Module frequency	Every semester
13	Workload in clock hours	Contact hours: 300 h Independent study: 0 h
14	Module duration	1 semester
15	Teaching and examination language	german or english

16	Bibliography	Please note: Interested students must apply directly to the external institution of interest. In principle, internships can be taken into account as long as they are sufficiently related to economic research and fit into one of the areas. An upfront written agreement with the respective lecturer is required. In this case, students should contact the professor in charge of the relevant specialisation before the start of the internship.
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1	Module name 57488	Seminar in Energy and Environmental Economics: Econometric Applications	5 ECTS
2	Courses / lectures	Seminar: Seminar in Energy and Environmental Economics: Econometric Applications Attendance is mandatory in this seminar. Absences must be personally arranged with the seminar instructor.	5 ECTS
3	Lecturers	Prof. Dr. Mario Liebensteiner	

4	Module coordinator	Prof. Dr. Mario Liebensteiner
5	Contents	<p>This seminar provides students with an advanced exploration of state-of-the-art causal econometric models applied to energy and environmental economics. Methodologically, students deepen their understanding of various causal models, including difference-in-differences, event studies, regression discontinuity, kink regressions, and synthetic control methods. Content-wise, they engage with topics of interest published in top journals related to energy markets, environmental policy, health economics, and related fields.</p> <p>In small groups, students have the opportunity to discuss methods and applications of their interest in detail. This prepares them for conducting their own empirical research, whether for their Master's thesis, an advanced doctoral program, or empirical analyses in their later jobs.</p> <p>The students are required to give presentations on an econometric method. They should explain the basic methodology, advantages and disadvantages, identification assumptions, data requirements, and application examples. Additionally, the students should find one or two studies published in top journals on the application of this method and present them in detail. In the group, we will then discuss our own application cases and how the method could be used.</p> <p>Moreover, in the group, we will discuss how an empirical paper is typically structured, how to motivate a research question, how to best visualize and present data and empirical findings, and how to convince stakeholders (e.g., your thesis supervisor, reviewers, etc.) of the quality of your work.</p>
6	Learning objectives and skills	<ul style="list-style-type: none"> • Students will become familiar with fundamental econometric models for causal inference, including difference-in-differences, event studies, regression discontinuity, kink regressions, synthetic control methods, matching, and more. • Students will explore applications of these methods in fields such as energy markets, environmental issues, health economics, and related areas. • Students will learn how to structure an empirical paper, formulate a research question, present data and regression results effectively, and how to convince stakeholders (such as

		<p>Master's thesis supervisors, reviewers, etc.) of the research quality.</p> <ul style="list-style-type: none"> • Students will have the opportunity to deepen their understanding of a method and topic that are particularly relevant to their interests.
7	Prerequisites	<ul style="list-style-type: none"> • A solid understanding of microeconomics, energy economics, health economics, or environmental economics. • A basic understanding of econometrics, including multivariate OLS regressions. <p>Prior attendance in the course "Empirical Environmental Economics" would be ideal.</p>
8	Integration in curriculum	semester: 2;4
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Energy Markets Master of Science Economics 20212
10	Method of examination	Seminar achievement
11	Grading procedure	Seminar achievement (100%) Grading is based on the seminar presentation and on intellectual class participation.
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	<ul style="list-style-type: none"> • Angrist, J. D., & Pischke, J. S. (2009). Mostly harmless econometrics: An empiricist's companion. Princeton university press. • Cunningham, S. (2021). Causal inference: The mixtape. Yale university press.

Specialization: Health economics

1	Module name 52153	The supply of medical services	5 ECTS
2	Courses / lectures	Vorlesung: VL: Supply of Medical Services (2 SWS) Übung: Ü: Supply of Medical Services (1 SWS)	2,5 ECTS 2,5 ECTS
3	Lecturers		

4	Module coordinator	Prof. Dr. Simon Reif	
5	Contents	In this course the market for medical services and in particular the supply of services from physicians and hospitals is analyzed. The focus is on behavioral incentives and how they are shaped by the characteristics of health as a special good as well as by institutional settings. Topics to be covered are supplier induced demand, quality-quantity-relationship in hospitals and optimal reimbursement schemes. The course will also cover individual health behavior. Throughout the course microeconomic models will be used.	
6	Learning objectives and skills	Students <ul style="list-style-type: none"> • understand the behavior of physicians from a microeconomic perspective • can evaluate governmental regulations in health care markets • can discuss reforms in the health care sector 	
7	Prerequisites	Solid knowledge of microeconomics and some basic knowledge of econometrics is recommended.	
8	Integration in curriculum	semester: 3;1	
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Health Economics Master of Science Economics 20212	
10	Method of examination	Written examination (90 minutes)	
11	Grading procedure	Written examination (100%)	
12	Module frequency	Only in winter semester	
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h	
14	Module duration	1 semester	
15	Teaching and examination language	english	
16	Bibliography	Zweifel, P., Breyer, F., Kifmann, M. (2009): Health Economics, Springer, 2. Aufl.	

1	Module name 52162	Applied empirical health economics	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Harald Tauchmann	
5	Contents	<p>The project seminar aims on introducing students to empirical research in the field of health economics. For this, two options are available. The first is to replicate and possibly extend an empirical analysis found in a research paper that is selected by the lecturer. The second is to conduct an independent empirical analysis based on one chapter of the textbook Jones, A. et al. (2013): Applied Health Economics. Each chapter of the book covers a topic of empirical health economics such as inequality in health, with a focus on specific methods (generalized Lorenz curve, probit regression for ordered categorical data, interval regression etc.) that are well suited for analyzing the specific research question. In particular, using these methods using the statistical software Stata® und using them for applied empirical work is key for the seminar. Each student individually works on an empirical project. Support and advise how to do this is provided on the individual student level. In order to get (more) familiar with stata, students may participate in a Stata-crash course prior to working on their projects. Students write a seminar thesis in which they describe and communicate their research and give a presentation of their thesis in a seminar.</p>	
6	Learning objectives and skills	<p>Students</p> <ul style="list-style-type: none"> • become familiar with specific methods which are relevant in empirical health economics in health and learn to apply them to specific research questions • deepen their methodological competences by using them in applied work • acquire competences in developing and empirically addressing research questions in health economics • learn to present and to discuss results of empirical research 	
7	Prerequisites	<ul style="list-style-type: none"> • Profound knowledge in micro econometrics • Basic knowledge in the statistical software Stata ® (the course starts with an elective Stata® course, which is intended to allow students who do not know Stata® to successfully participating in the seminar) 	
8	Integration in curriculum	semester: 3	
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Health Economics Master of Science Economics 20212	
10	Method of examination	Presentation Seminar paper	
11	Grading procedure	Presentation (35%)	

		Seminar paper (65%)
12	Module frequency	Only in winter semester
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Jones A., Rice, N. Bago dUva, T. & Balia, S. (2013): Applied Health Economics, 2nd ed., Routledge.

1	Module name 52850	Gesundheitsökonomische Evaluationen II Health economic evaluations II	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Oliver Schöffski	
5	Contents	Die Thematik wird in dieser Veranstaltung aufbauend auf der Grundlagenveranstaltung im 1. Semester weiter vertieft. Insbesondere werden hier die Methoden der Lebensqualitätsmessung behandelt und kritisch diskutiert. Weiterhin werden Modellierungen in Form von Entscheidungsbäumen und Markov-Modellen theoretisch und praktisch durchgeführt. Fallbeispiele runden diese Veranstaltung ab.	
6	Learning objectives and skills	Die Studierenden <ul style="list-style-type: none"> • verstehen die Problematik und die Relevanz der Messung von Lebensqualitätseffekten • können entsprechende Lebensqualitätsmessungen eigenständig durchführen • sind in der Lage verschiedene Modellierungsansätze beurteilen zu können • können einfache Modellierungen selbst konzipieren, durchführen und die Ergebnisse interpretieren. 	
7	Prerequisites	Die Pflichtveranstaltung Gesundheitsökonomische Evaluationen I sollte vor diesem Modul belegt worden sein.	
8	Integration in curriculum	semester: 3	
9	Module compatibility	Specialisation: Health Economics Master of Science Economics 20212	
10	Method of examination	Written examination with multiple choice (60 minutes)	
11	Grading procedure	Written examination with multiple choice (100%)	
12	Module frequency	Only in winter semester	
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h	
14	Module duration	1 semester	
15	Teaching and examination language	german	
16	Bibliography	Schöffski / Graf von der Schulenburg (Hrsg.): Gesundheitsökonomische Evaluationen, 3. oder 4. Aufl., Berlin u. a., 2007, 2008 oder 2012.	

1	Module name 53055	Panel and evaluation methods	5 ECTS
2	Courses / lectures	Tutorium: Panel- and Evaluation Methods-Tutorium (0 SWS)	-
3	Lecturers		

4	Module coordinator	Prof. Dr. Regina Therese Riphahn
5	Contents	Endogeneity in the linear regression model; instrumental variables estimation; static and dynamic panel data models; matching; difference-in-differences estimation; regression discontinuity design; quantile regression; practical application of methods using statistics software STATA
6	Learning objectives and skills	Based on the introductory econometrics module "Ökonometrie" students acquire specialized knowledge in panel und evaluation methods and apply it using the statistics software STATA. Students evaluate to what degree empirical patterns can be interpreted as causal and decide to what extent problems of endogeneity can be solved via panel data or exogeneous variation. Students can produce own empirical analyses.
7	Prerequisites	Basic knowledge in statistics and econometrics
8	Integration in curriculum	semester: 3;1
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Health Economics Master of Science Economics 20212 Specialisation: Labour Economics Master of Science Economics 20212 Specialisation: Macroeconomics and Finance Master of Science Economics 20212 Specialisation: Public Economics Master of Science Economics 20212
10	Method of examination	Written examination (60 minutes)
11	Grading procedure	Written examination (100%) 100 % written exam (a voluntarily submitted homework can account for 20 % of the final grade if it improves the grade. In the homework an empirical analysis is performed based on Stata. The final grade can be improved by up to 0.7 points. However, the exam must be passed. The homework only counts towards final grades in the semester in which they are produced, i.e. only in the winter semester.)
12	Module frequency	Only in winter semester
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Wooldridge, J.M., 2010, Econometric Analysis of Cross Section and Panel Data, 2.ed., MIT Press. Greene, William H., 2020, Econometric Analysis, 8. ed., Pearson, New Jersey

Cameron, C.A. and P.K. Trivedi, 2005, *Microeconometrics. Methods and Applications*, Cambridge University Press

Angrist, J. and J.-S. Pischke, 2009, *Mostly Harmless Econometrics*, Princeton University Press, Princeton, and Oxford.

Verbeek, M., 2017, *A Guide to Modern Econometrics*, 5. ed., Wiley.

1	Module name 54611	Public economics	5 ECTS
2	Courses / lectures	Vorlesung: Public Economics (2 SWS) Übung: Public Economics (E) (2 SWS)	5 ECTS -
3	Lecturers	Prof. Dr. Thiess Büttner William Dean	

4	Module coordinator	Prof. Dr. Thiess Büttner
5	Contents	The lecture provides an introduction in public economics at the intermediate level. The course first derives the basic theoretical foundations for an optimal design of public policy. In the second step, the course discusses specific aspects of public policy, such as taxation and redistribution, social security, tax evasion, debt finance, interjurisdictional competition and fiscal federalism, all with reference to relevant literature. It supplements theory by exploring practical problems.
6	Learning objectives and skills	Students learn how to characterize efficient public policies using microeconomic decision models. They can use this framework to study public policy in a rigorous and consistent general equilibrium context. Students get acquainted with important empirical methods to evaluate public policies quantitatively. Moreover, they acquire knowledge about options, methods and limits to implement efficient public policy
7	Prerequisites	Basic microeconomics
8	Integration in curriculum	semester: 2
9	Module compatibility	Specialisation: Health Economics Master of Science Economics 20212 Specialisation: Labour Economics Master of Science Economics 20212 Specialisation: Macroeconomics and Finance Master of Science Economics 20212 Specialisation: Public Economics Master of Science Economics 20212
10	Method of examination	Written examination (90 minutes)
11	Grading procedure	Written examination (100%)
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 60 h Independent study: 90 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Hindriks, J., and Myles, G., (2006), Intermediate Public Economics, MIT Press, Cambridge Atkinson, A.B., Stiglitz, J. E., (1980), Lectures on Public Economics . MacGraw-Hill, New York Detailed slides and a list of references are provided at the beginning of the course.

1	Module name 54821	Gesundheitsökonomische Evaluationen I Evaluation methods in health economics I	5 ECTS
2	Courses / lectures	Seminar: Gesundheitsökonomische Evaluationen I (3 SWS)	5 ECTS
3	Lecturers	Prof. Dr. Oliver Schöffski	

4	Module coordinator	Prof. Dr. Oliver Schöffski	
5	Contents	Bei allen öffentlichen Großprojekten sind Kosten-Nutzen-Analysen zwingend vorgeschrieben. Die Methodik wurde im Gesundheitswesen weiterentwickelt, wo auch intangible Effekte (z.B. Lebensqualität) berücksichtigt werden müssen. In der Veranstaltung werden die unterschiedlichen Studienformen, die Grundprinzipien, das Design von gesundheitsökonomischen Studien und insbesondere das QALY- und das Effizienzgrenzenkonzept behandelt.	
6	Learning objectives and skills	<p>Die Studierenden</p> <ul style="list-style-type: none"> • ermessen den Unterschied zwischen Effektivität und Effizienz im Gesundheitswesen • diskutieren verschiedene Möglichkeiten der Berechnung von Kosten und Nutzen medizinischer Maßnahmen und setzen Kosten und Nutzen verschiedener medizinischer Maßnahmen zueinander in Beziehung • beurteilen aktuelle Diskussionen zu dieser Thematik • vergleichen die verschiedenen Grundformen und -prinzipien gesundheitsökonomischer Evaluationen sowie die damit verbundenen Konzepte • schätzen das QALY-Konzept im Hinblick auf seine Relevanz ein • skizzieren das Design einer gesundheitsökonomischen Studie 	
7	Prerequisites	Keine	
8	Integration in curriculum	semester: 2	
9	Module compatibility	Specialisation: Health Economics Master of Science Economics 2012	
10	Method of examination	Written examination with multiple choice (60 minutes)	
11	Grading procedure	Written examination with multiple choice (100%)	
12	Module frequency	Only in summer semester	
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h	
14	Module duration	1 semester	
15	Teaching and examination language	german	
16	Bibliography	Schöffski / Graf von der Schulenburg (Hrsg.): Gesundheitsökonomische Evaluationen, 3. oder 4. Aufl., Berlin u. a., 2007, 2008 oder 2012.	

1	Module name 56792	The Economics of Health Insurance The economics of health insurance	5 ECTS
2	Courses / lectures	Vorlesung: VL: The Economics of Health Insurance (2 SWS) Übung: Ü: The Economics of Health Insurance (1 SWS)	2,5 ECTS 2,5 ECTS
3	Lecturers	Prof. Dr. Harald Tauchmann Elena Yurkevich	

4	Module coordinator	Prof. Dr. Harald Tauchmann	
5	Contents	The course covers the economics of health care taking a microeconomic perspective. The course focusses on the market for health insurance and its imperfections that originate from the specific characteristics of health as a commodity and result in market failure and hence undesirable market outcomes such as adverse selection, moral hazard, and risk selection. Based on the theoretical analysis implications for the question of how to design a health (insurance) system are derived.	
6	Learning objectives and skills	<p>The students</p> <ul style="list-style-type: none"> • learn to analyze the market for health insurance • acquire knowledge about the institutions of the German health insurance system and how to assess them from a theoretical perspective • test the theoretical predictions using empirical analyses 	
7	Prerequisites	Solid skills in microeconomics, basic skills in econometrics	
8	Integration in curriculum	semester: 2	
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Health Economics Master of Science Economics 20212	
10	Method of examination	Written examination (90 minutes)	
11	Grading procedure	Written examination (100%)	
12	Module frequency	Only in summer semester	
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h	
14	Module duration	1 semester	
15	Teaching and examination language	english	
16	Bibliography	Zweifel, P., Breyer, F., Kifmann, M. (2009): Health Economics, Springer 2nd ed.	

1	Module name 56441	Economic internship	5 ECTS
2	Courses / lectures	Seminar: Seminar zum Praktikumsmodul im DMSE Master (2 SWS)	-
3	Lecturers	Prof. Dr. Thies Büttner Annalisa Tassi	

4	Module coordinator	Prof. Dr. Thies Büttner Prof. Dr. Christian Merkl Prof. Dr. Claus Schnabel Prof. Dr. Harald Tauchmann Prof. Dr. Karl Gregor Zöttl
5	Contents	Economic internship with research institutes, international organizations, research departments of firms in relation to the Master specialisation (Public, Labor, Macro & Finance, Health, or Energy)
6	Learning objectives and skills	Students obtain the chance to familiarize themselves with labor market opportunities for economists and learn how to apply economic concepts and methods in practice. Students also expand their command of important soft skills, including presentation techniques and communication skills. The participants exchange their practical experiences and insights and develop a critical reflection on economic practice and job market opportunities.
7	Prerequisites	Students should have completed all courses of the first semester. Please note that internships started or completed before the start of the Masters programme will not be considered.
8	Integration in curriculum	semester: 2;3
9	Module compatibility	Miscellaneous Master of Science Economics 2012 Specialisation: Energy Markets Master of Science Economics 2012 Specialisation: Health Economics Master of Science Economics 2012 Specialisation: Labour Economics Master of Science Economics 2012 Specialisation: Macroeconomics and Finance Master of Science Economics 2012 Specialisation: Public Economics Master of Science Economics 2012
10	Method of examination	Course achievement The exact requirements for recognition are set out in a prior written agreement with the professor in charge of the relevant specialisation. Typically, a six-week full-time internship is required, along with a report and a presentation.
11	Grading procedure	Course achievement (pass/fail)
12	Module frequency	Every semester
13	Workload in clock hours	Contact hours: 300 h Independent study: 0 h
14	Module duration	1 semester
15	Teaching and examination language	german or english

16	Bibliography	Please note: Interested students must apply directly to the external institution of interest. In principle, internships can be taken into account as long as they are sufficiently related to economic research and fit into one of the areas. An upfront written agreement with the respective lecturer is required. In this case, students should contact the professor in charge of the relevant specialisation before the start of the internship.
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1	Module name 53084	Ökonomie der Sozialpolitik Economics of social policy	5 ECTS
2	Courses / lectures	Seminar: MA S Ökonomie der Sozialpolitik (3 SWS)	5 ECTS
3	Lecturers	Prof. Dr. Matthias Wrede	

4	Module coordinator	Prof. Dr. Matthias Wrede	
5	Contents	Ausgewählte ökonomische Analysen der Sozialpolitik unter Einschluss ethischer und ökonomischer Grundlagen sowie institutioneller Aspekte	
6	Learning objectives and skills	<ul style="list-style-type: none"> • Studierende kennen ausgewählte Bereiche der Sozialpolitik und können diese beschreiben und international vergleichen. • Studierende können ethische und ökonomische Grundlagen staatlicher Eingriffe in ausgewählten Bereichen sozialer Sicherung darstellen, interpretieren und diskutieren. • Studierende können Wirkungen sozialpolitisch relevanter Größen theoretisch und empirisch verstehen, bewerten und hinterfragen. • Studierende können sozialpolitische Maßnahmen unter Effizienz- und Gerechtigkeitsgesichtspunkten bewerten und hinterfragen. • Studierende geben Ihren Kommilitonen im Rahmen ihrer Präsentationen strukturiertes Feedback. • Studierende fördern die Fachkenntnisse der anderen Studierenden durch themenspezifische Diskussionsbeiträge. • Studierende erfassen, bewerten und diskutieren ausgewählte aktuelle, meist englischsprachige Forschungsarbeiten in Ihrer Seminararbeit. 	
7	Prerequisites	Mikroökonomische und ökonometrische Kenntnisse	
8	Integration in curriculum	semester: 2	
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Health Economics Master of Science Economics 20212 Specialisation: Labour Economics Master of Science Economics 20212 Specialisation: Public Economics Master of Science Economics 20212	
10	Method of examination	Written or oral Term paper (15 pages), presentation (20 minutes)	
11	Grading procedure	Written or oral (100%) Term paper 70%, presentation 30%	
12	Module frequency	Only in summer semester	
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h	
14	Module duration	1 semester	
15	Teaching and examination language	german	
16	Bibliography	Die Literatur wird während des Kurses bekannt gegeben.	

1	Module name 57479	The Economics of Health Behavior	5 ECTS
2	Courses / lectures	Vorlesung: VL: The Economics of Health Behavior (2 SWS) Übung: Ü: The Economics of Health Behavior (1 SWS)	2,5 ECTS 2,5 ECTS
3	Lecturers	Prof. Dr. Harald Tauchmann	

4	Module coordinator	Prof. Dr. Harald Tauchmann
5	Contents	The course takes a microeconomic perspective on individual health behavior. We begin by discussing Grossman's health capital model as a reference. We then discuss several models that challenge the view of health behavior as determined by fully rational investment decisions. Specifically, we discuss Strulik's model of health deficits, Becker's model of (rational) addiction, and concepts from behavioral economics, in particular prospect theory and time-inconsistent preferences. Finally, we look at the empirical literature on (risky) health behaviors such as smoking, alcohol and drug consumption, and obesity. There we link theory to empirical methods used in applied health economics.
6	Learning objectives and skills	Students <ul style="list-style-type: none"> • understand different approaches to describing health behavior as influenced by economic decisions • can evaluate policy interventions aimed at influencing health behavior • familiarize with methods of empirical analysis of health behavior
7	Prerequisites	Basic knowledge of microeconomics and econometrics
8	Integration in curriculum	semester: 2
9	Module compatibility	Specialisation: Health Economics Master of Science Economics 20212
10	Method of examination	Written examination (90 minutes)
11	Grading procedure	Written examination (100%)
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	<ul style="list-style-type: none"> • Bhattacharya, J., Timothy Hyde, t.; and Peter Tu, P. (2014): Health Economics. Palgrave Macmillan.

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| | <ul style="list-style-type: none">• Zweifel, P., Breyer, F., Kifmann, M. (2009): Health Economics. Springer. 2nd Edition. |
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Miscellaneous

1	Module name 52153	The supply of medical services	5 ECTS
2	Courses / lectures	Vorlesung: VL: Supply of Medical Services (2 SWS) Übung: Ü: Supply of Medical Services (1 SWS)	2,5 ECTS 2,5 ECTS
3	Lecturers		

4	Module coordinator	Prof. Dr. Simon Reif
5	Contents	In this course the market for medical services and in particular the supply of services from physicians and hospitals is analyzed. The focus is on behavioral incentives and how they are shaped by the characteristics of health as a special good as well as by institutional settings. Topics to be covered are supplier induced demand, quality-quantity-relationship in hospitals and optimal reimbursement schemes. The course will also cover individual health behavior. Throughout the course microeconomic models will be used.
6	Learning objectives and skills	Students <ul style="list-style-type: none"> • understand the behavior of physicians from a microeconomic perspective • can evaluate governmental regulations in health care markets • can discuss reforms in the health care sector
7	Prerequisites	Solid knowledge of microeconomics and some basic knowledge of econometrics is recommended.
8	Integration in curriculum	semester: 3;1
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Health Economics Master of Science Economics 20212
10	Method of examination	Written examination (90 minutes)
11	Grading procedure	Written examination (100%)
12	Module frequency	Only in winter semester
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Zweifel, P., Breyer, F., Kifmann, M. (2009): Health Economics, Springer, 2. Aufl.

1	Module name 52162	Applied empirical health economics	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Harald Tauchmann	
5	Contents	<p>The project seminar aims on introducing students to empirical research in the field of health economics. For this, two options are available. The first is to replicate and possibly extend an empirical analysis found in a research paper that is selected by the lecturer. The second is to conduct an independent empirical analysis based on one chapter of the textbook Jones, A. et al. (2013): Applied Health Economics. Each chapter of the book covers a topic of empirical health economics such as inequality in health, with a focus on specific methods (generalized Lorenz curve, probit regression for ordered categorical data, interval regression etc.) that are well suited for analyzing the specific research question. In particular, using these methods using the statistical software Stata® und using them for applied empirical work is key for the seminar. Each student individually works on an empirical project. Support and advise how to do this is provided on the individual student level. In order to get (more) familiar with stata, students may participate in a Stata-crash course prior to working on their projects. Students write a seminar thesis in which they describe and communicate their research and give a presentation of their thesis in a seminar.</p>	
6	Learning objectives and skills	<p>Students</p> <ul style="list-style-type: none"> • become familiar with specific methods which are relevant in empirical health economics in health and learn to apply them to specific research questions • deepen their methodological competences by using them in applied work • acquire competences in developing and empirically addressing research questions in health economics • learn to present and to discuss results of empirical research 	
7	Prerequisites	<ul style="list-style-type: none"> • Profound knowledge in micro econometrics • Basic knowledge in the statistical software Stata ® (the course starts with an elective Stata® course, which is intended to allow students who do not know Stata® to successfully participating in the seminar) 	
8	Integration in curriculum	semester: 3	
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Health Economics Master of Science Economics 20212	
10	Method of examination	Presentation Seminar paper	
11	Grading procedure	Presentation (35%)	

		Seminar paper (65%)
12	Module frequency	Only in winter semester
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Jones A., Rice, N. Bago dUva, T. & Balia, S. (2013): Applied Health Economics, 2nd ed., Routledge.

1	Module name 52170	Einführung in das Genossenschaftswesen Introduction to cooperative systems	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Markus Beckmann	
5	Contents	Gegenstand der Veranstaltung ist die wissenschaftliche Betrachtung der Rechts- und Unternehmensform Genossenschaft aus betriebs- und volkswirtschaftlicher Sicht.	
6	Learning objectives and skills	<p>Die Studierenden erlangen ein generelles Verständnis für das Modell Genossenschaft und dessen historischen Background. Zusätzlich erhalten die Studierenden einen Einblick in die verschiedenen Geschäftsfelder in denen Genossenschaften vertreten sind und analysieren deren Vorzüge in diesen Bereichen.</p> <p>Insbesondere sind die Studierenden in der Lage</p> <ul style="list-style-type: none"> • die Entwicklung der Genossenschaften nachzuvollziehen, • die Rolle von Genossenschaften in der Bundesrepublik Deutschland zu reflektieren, • die Vor- und Nachteile der Rechts- und Unternehmensform eG gegenüber anderen Personen und Kapitalgesellschaften einzuschätzen, und • die Gründungsvoraussetzungen einzuordnen. <p>Zur Verdeutlichung der dargestellten Sachverhalte be- bzw. erarbeiten die Studierenden Lösungsansätze zu ausgewählten Frage- und Problemstellungen aus der Praxis.</p>	
7	Prerequisites	Keine	
8	Integration in curriculum	semester: 3;5;7	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	Presentation Written examination (90 minutes)	
11	Grading procedure	Presentation (50%) Written examination (50%)	
12	Module frequency	Only in winter semester	
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h	
14	Module duration	1 semester	
15	Teaching and examination language	german	
16	Bibliography	Kurspezifische Literatur (wird im Kurs bekanntgegeben).	

1	Module name 52260	Quantitative Risk Assessment with Excel Quantitative risk assessment with Excel	5 ECTS
2	Courses / lectures	Seminar: Seminar "Quantitative Risk Assessment with Excel" (2 SWS)	5 ECTS
3	Lecturers	Prof. Dr. Nadine Gatzert	

4	Module coordinator	Prof. Dr. Nadine Gatzert	
5	Contents	<p>Das Seminar vermittelt fundierte und vertiefende Kenntnisse für den Einsatz des Tabellenkalkulationsprogramms Excel als Standardsoftware durch Anwendung auf die computergestützte Risikoeinschätzung und Bewertung von Unternehmen sowie verschiedenen komplexen Finanzinstrumenten.</p> <p>Hierzu werden ausgewählte Fragestellungen und Themenblöcke aus dem Bereich Insurance & Finance behandelt.</p> <p>Inhalte der Fallstudien umfassen zunächst Grundlagen zu Excel und der Monte-Carlo-Simulation. Vertiefend wird dann u.a. auf Risikomaße, die Modellierung des Aktienmarktes, die Erstellung von Risiko-Rendite-Profilen von Fonds, Derivaten, Financial Engineering, Optionsbewertung (Binomialbaum, Black-Scholes-Formel, Greeks, Volatility Smile) sowie die Maximum-Likelihood-Methode eingegangen.</p>	
6	Learning objectives and skills	Studierende erwerben fundierte Kenntnisse in Excel, lernen Methoden und typische Herangehensweisen in Insurance und Finance kennen, können diese anwenden und kritisch hinterfragen.	
7	Prerequisites	Grundlegende Kenntnisse in Finanzierung sind hilfreich. Die Anmeldung erfolgt über StudOn (Termine werden auf der Lehrstuhlhomepage bekanntgegeben).	
8	Integration in curriculum	semester: 2	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	<p>Electronic examination (60 minutes)</p> <p><i>Im Sommersemester besteht vorlesungsbegleitend die Möglichkeit einer freiwilligen Notenverbesserung, wobei eine Verbesserung um bis zu 0,3 Notenstufen erfolgen kann. Dazu können Studierende auf StudOn vier je ca. 10-minütige Online-Kurztests (Quizze) zur Aufbereitung des Vorlesungsstoffs bearbeiten. Die Notenverbesserung erfolgt, wenn die Quizze erfolgreich bearbeitet wurden sowie die Klausur mit der Note 4,0 oder besser bestanden wurde. Etwaige Quizzergebnisse aus dem Sommersemester werden für eine Prüfung im Wintersemester übernommen.</i></p> <p>Ohne Ableistung der Prüfungsleistung kann das mit 2 SWS bewertete Seminar als Schlüsselqualifikation im Rahmen des SQ-Moduls belegt werden. In diesem Fall besteht Anwesenheitspflicht.</p>	
11	Grading procedure	Electronic examination (100%)	
12	Module frequency	Only in summer semester	

13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h
14	Module duration	1 semester
15	Teaching and examination language	german
16	Bibliography	Wird in der Veranstaltung bekannt gegeben.

1	Module name 52500	Das Industriegeseminar Seminar: Industrial management	5 ECTS
2	Courses / lectures	Seminar: Das Industriegeseminar (2 SWS)	5 ECTS
3	Lecturers	Viktoria Leutheuser Prof. Dr. Kai-Ingo Voigt Prof. Dr. Stefan Asenkerschbaumer	

4	Module coordinator	Prof. Dr. Kai-Ingo Voigt	
5	Contents	In dem Seminar, welches von Herrn Prof. Dr. Asenkerschbaumer, Vorsitzender des Aufsichtsrats der Robert Bosch GmbH und geschäftsführender Gesellschafter der Robert Bosch Industrietreuhand KG, begleitet wird, erarbeiten die Studierenden zu wechselnden Rahmenfragestellungen in Gruppen Seminararbeiten. Die Ergebnisse dieser werden dann vorgetragen, verteidigt und diskutiert.	
6	Learning objectives and skills	Die Studierenden erarbeiten in Gruppen weitgehend selbstgesteuert und autonom Analysen zu komplexen betriebswirtschaftlichen Fragestellungen im Kontext von Industrieunternehmen. Hierzu führen die Studierenden Dokumentanalysen, Literaturrecherchen und Experteninterviews durch und entscheiden weitgehend eigenständig über die zu verwendenden Analysemethoden. Das Ziel ist die Erarbeitung, Strukturierung und Darstellung von detailliertem und spezialisiertem Wissen auf dem aktuellen Erkenntnisstand zu der jeweils ausgeschriebenen Fragestellung. Die erarbeiteten Ergebnisse werden anschließend gemeinsam von der Gruppe in dem Seminar vertreten und vor Herrn Prof. Dr. Asenkerschbaumer und Herrn Prof. Dr. Voigt verteidigt.	
7	Prerequisites	Keine	
8	Integration in curriculum	no Integration in curriculum available!	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	Written assignment Presentation Umfang der Hausarbeit: 7.000 Wörter Präsentationsleistung: 20 Minuten Präsentation + 10 Minuten Diskussion	
11	Grading procedure	Written assignment (70%) Presentation (30%)	
12	Module frequency	Every semester	
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h	
14	Module duration	1 semester	
15	Teaching and examination language	german	
16	Bibliography	Kursspezifische Literatur wird im Kurs bekannt gegeben.	

1	Module name 52560	Banking supervision: Bank rating, stress testing, financial stability	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Christian Merkl	
5	Contents	This course covers a wide range of topics in banking supervision (e.g., bank rating models and risk assessment in banking supervision; different concepts of stress testing credit, market, and liquidity risk; development and analysis of bank stability indicators; bank resolution; financial stability and macroprudential oversight in the EU). Basic analytical concepts will be provided as a background; the last EBA/SSM Stress Test will be used to analyze the implications of such an exercise for banks, policy makers, and international organizations. A case study based on the econometrics software Stata will be used to develop empirical bank rating and stress testing tools.	
6	Learning objectives and skills	<p>Students</p> <ul style="list-style-type: none"> • learn about banking structure, regulation, bank bailouts, and corporate governance in banking. • understand and apply different concepts of bank rating and stress testing; develop tools using the econometrics software Stata. • analyze competition and efficiency in banking markets and understand the concept of financial stability. 	
7	Prerequisites	Macroeconomics (Bachelor)	
8	Integration in curriculum	semester: 1;3	
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Macroeconomics and Finance Master of Science Economics 20212	
10	Method of examination	Written examination (60 minutes)	
11	Grading procedure	Written examination (100%) The grade can be improved up to 0.7 units with a voluntary project work.	
12	Module frequency	Only in winter semester	
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h	
14	Module duration	1 semester	
15	Teaching and examination language	english	
16	Bibliography	Presentation slides and relevant literature will be provided.	

1	Module name 52592	Quantitative methods in energy market modelling	5 ECTS
2	Courses / lectures	Vorlesung mit Übung: MA Quantitative Methods in Energy Market Modelling (3 SWS)	5 ECTS
3	Lecturers	Prof. Dr. Karl Gregor Zöttl	

4	Module coordinator	Prof. Dr. Karl Gregor Zöttl	
5	Contents	<p>It is the purpose of the course to understand and quantitatively analyse the economic interaction of the players and institutions in liberalized energy markets.</p> <p>Liberalized electricity markets can be segmented in a regulated part (the networks) and the non-regulated parts (generation and retail) where private companies interact in a market environment. The interaction of the different agents is analysed with computational equilibrium frameworks based the concepts applied in industrial organization. Next to the fundamental understanding of the relevant market interaction, the models allow for a quantitative analysis of proposals for the design of energy markets. The participants thus develop the tools for an autonomous assessment of currently discussed policies in liberalized electricity markets (e.g. changed support schemes for renewables, changed network tariff systems, impact of capacity markets).</p> <p>The course aims at students in the field of economics /business as well as students in the fields of engineering and mathematics. An integral part of the course id formed by homework assignments conducted in groups. The ability to cooperate also beyond the classical limits of each discipline is an important qualification for the students careers, which should be stimulated in the context of this course.</p>	
6	Learning objectives and skills	<p>The students:</p> <ul style="list-style-type: none"> • develop a clear picture of the relevant market participants in liberalized electricity markets and understand their incentives and objectives • learn fundamental concepts and models which allow to analyze the interaction at those markets • get to know important publically available data sources which allow for a quantitative analysis of the market situations considered • know the current challenges when designing those markets and can quantitatively analyze the solutions proposed in the current policy debate. 	
7	Prerequisites	<p>The students should be familiar with the mathematical methods acquired during their Bachelor degree. Institutional knowledge of electricity markets is not required.</p>	
8	Integration in curriculum	semester: 2	
9	Module compatibility	<p>Miscellaneous Master of Science Economics 20212 Specialisation: Energy Markets Master of Science Economics 20212</p>	
10	Method of examination	<p>Written examination Written assignment/Seminar paper</p>	

		(Work on assignment sheets in groups of up to 3 students, approx. 15 pages) Written examination (90 minutes)
11	Grading procedure	Written examination (80%) Written assignment/Seminar paper (20%)
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Daniel Kirschen and Goran Strbac: Power System Economics, Wiley 2004. Steven Stoft: Power System Economics, Wiley 2002. Wolfgang Ströbele, Wolfgang Pfaffenberger, Michael Heuterkes: Energiewirtschaft, Oldenbourg 2010.

1	Module name 52670	Rechnungslegung und Reporting nach HGB/IFRS/ Solvency II bei Versicherungen Accounting and reporting under HGB/IFRS/ Solvency II for insurance companies	5 ECTS
2	Courses / lectures	Vorlesung: Vorlesung "Rechnungslegung und Reporting nach HGB/IFRS/Solvency II bei Versicherungen" (2 SWS) Es besteht Anwesenheitspflicht.	5 ECTS
3	Lecturers	Prof. Dr. Nadine Gatzert	

4	Module coordinator	Prof. Dr. Nadine Gatzert	
5	Contents	<ul style="list-style-type: none"> • Die Versicherungswirtschaft im Kontext von Umweltschutz, sozialer Verantwortung und guter Unternehmensführung (ESG-Kriterien): Grundlagen und Hintergründe der Nachhaltigkeitsregulierung und -berichterstattung und die dazugehörige Regulierung (Taxonomie-VO, Offenlegungs-VO, CSRD) • Aktuelle Fragestellungen aus der Versicherungsbranche, insbesondere hinsichtlich regulatorischer Rahmenbedingungen (insb. Solvency II und Nachhaltigkeitsregulierung) und neuer Versicherungsprodukte bzw. -services und Innovationen. • Einführung zu Solvency II und der zugehörigen Versicherungstechnik (Marktwertbilanz, Kapitalanforderungen, Eigenmittel, Gruppenkonsolidierung, Publizitätsanforderungen). • Einblick in die Unternehmenspraxis von Versicherungen hinsichtlich der Bilanzierung (IFRS und HGB), Datenanforderung und Organisationsstruktur unter Solvency II mit perspektivischem Blick auf Modernisierungstrends. • Zukünftige Entwicklungen in der IT-/Prozesslandschaft bei Versicherungsgesellschaften und deren Auswirkung auf externe Prüfungsansätze. 	
6	Learning objectives and skills	<ul style="list-style-type: none"> • Die Studierenden lernen aktuelle Herausforderungen aus der Versicherungsbranche sowie Modernisierungstrends kennen, können diese beurteilen und hinterfragen diese. • Die Studierenden lernen die tragende Rolle von Versicherern im Rahmen der europäischen Bestrebungen zu mehr Umweltschutz, sozialer Verantwortung und guter Unternehmensführung kennen (ESG-Kriterien) • Die Studierenden erlernen und untersuchen die grundlegende Konzeption eines Versicherungsunternehmens, vor allem hinsichtlich Solvency II. • Die Studierenden lernen strukturiert und interaktiv praxisrelevante Fragestellungen (u.a. IFRS 17/9) aus dem Versicherungsbereich zu lösen. • Die Studierenden sind in der Lage die Bilanzierung von Versicherungsunternehmen zu verstehen und können darüber 	

		<p>hinaus Anforderungen ableiten, die hinsichtlich der (IT-) Prozesse oder der Datenqualität unter Solvency II benötigt werden.</p> <ul style="list-style-type: none"> Die Studierenden erlernen ein Verständnis für die Veröffentlichungsvorschriften von Solvency II. Darauf aufbauend erlangen sie Kenntnisse über die Jahresabschlussanalyse von Versicherungsunternehmen.
7	Prerequisites	Keine. Die Anmeldung erfolgt über StudOn - beschränkte Teilnehmerzahl, erste Stunde gleiche Chance ("StudOn-Happy-Hour"), danach Windhundverfahren.
8	Integration in curriculum	semester: 2
9	Module compatibility	Miscellaneous Master of Science Economics 20212
10	Method of examination	Written examination (60 minutes)
11	Grading procedure	Written examination (100%)
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h
14	Module duration	1 semester
15	Teaching and examination language	german
16	Bibliography	Wird im Rahmen der Veranstaltung kommuniziert.

1	Module name 52761	Strategische Vorausschau in Theorie und Praxis Strategic forecasting in theory and practice	5 ECTS
2	Courses / lectures	Vorlesung: Strategische Vorausschau in Theorie und Praxis (4 SWS)	5 ECTS
3	Lecturers	Christoph Küffner Prof. Dr.-Ing. Eva Maria Hartmann	

4	Module coordinator	Prof. Dr.-Ing. Eva Maria Hartmann	
5	Contents	<p>Trend- und Zukunftsforschung etabliert sich zunehmend als eigener Fach-/Funktionsbereich in Organisationen. In der Wirtschaft und bei Verbänden untersuchen Corporate Foresight-Experten die Zukunft von Industrien, Märkten, neuen Geschäftsmodellen oder aber der Wettbewerbslandschaft. Im öffentlichen Bereich werden im Sinne der regionalen Vorausschau vor allem die Stadt- und Raumentwicklung, gesellschaftliche und technologische Fragestellungen adressiert. Auch auf Bundesebene (s. BMBF Foresight Prozess) und in den Rahmenforschungsprogrammen der EU (s. European forward-looking activities) spielt die strategische Vorausschau inzwischen eine herausragende Rolle.</p> <p>Dieses Seminar vermittelt die Grundlagen der strategischen Vorausschau. Jede der drei Phasen des Vorausschau-Prozesses (Scanning, Foresight, Transfer) wird im Detail behandelt. Teilnehmer erhalten einen Überblick über die Methoden der Zukunftsforschung. Ein besonderer Fokus liegt auf der Szenariotechnik. Mittels vieler praktischer Beispiele wird gezeigt, wie heutige Entscheider aller Organisationen systematisch Zukunftsszenarien entwickeln und auf den eigenen Organisationskontext transferieren können. Zusätzlich bieten renommierte Gastredner der Zukunftsforschung den Teilnehmenden einen praxisnahen Einblick in die Methoden der strategischen Vorausschau.</p>	
6	Learning objectives and skills	<p>Die Studierenden entwickeln ein nachhaltiges Verständnis für das Management von Dynamik und Komplexität. Nach Abschluss des Seminars ist man in der Lage:</p> <ul style="list-style-type: none"> • Organisationen auf zukünftigen Wandel vorzubereiten • Systematisch neue Trends und schwache Signale aufzuspüren • Die Relevanz und Validität neuer Entwicklungen für eine Organisation zu bewerten • Die potenziellen Implikationen von Entwicklungen zu projizieren • Szenarien in einer strukturierten und systematischen Weise zu entwickeln • Szenarien im organisationalen Kontext einzusetzen • Den Mehrwert von Corporate Foresight zu illustrieren <p>Die erlernten Inhalte können vielfältig im organisationalen Kontext eingesetzt werden, z.B. in Unternehmensentwicklung/ Strategieberatung, Innovations- und Risikomanagement. Eine Anwesenheitspflicht begründet sich für alle Teilnehmer des Seminars</p>	

		in der Präsentation der Ergebnisse, der regelmäßigen Darstellung und Diskussion der Seminararbeit und den damit verbundenen Feedbackschleifen in der Veranstaltung.
7	Prerequisites	Keine (Kenntnisse zu Strategie/Innovation jedoch hilfreich)
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Miscellaneous Master of Science Economics 20212
10	Method of examination	Seminar paper Presentation
11	Grading procedure	Seminar paper (60%) Presentation (40%)
12	Module frequency	Every semester
13	Workload in clock hours	Contact hours: 60 h Independent study: 90 h
14	Module duration	1 semester
15	Teaching and examination language	german
16	Bibliography	von der Gracht, H. (2013) Survive: So bleiben Manager auch in Zukunft erfolgreich. Redline Wirtschaft. Kressenbrock, N. G., Salcher, M. & von der Gracht, H. (2015) Herausforderung Energie: Der Energieführerschein für die Entscheider von Morgen. Redline Wirtschaft.

1	Module name 52770	Kostenträger II Health insurance II: Private health insurance	5 ECTS
2	Courses / lectures	Seminar: Kostenträger II (3 SWS) Es besteht Anwesenheitspflicht.	5 ECTS
3	Lecturers	Prof. Dr. Annett Bork	

4	Module coordinator	Prof. Dr. Oliver Schöffski
5	Contents	Neben der gesetzlichen Krankenversicherung (GKV) ist die private Krankenversicherung (PKV) ein relevanter Spieler im Bereich des Gesundheitswesens. Unterschiede beispielsweise in der Prämienkalkulation aber auch bei der Vergütung der Leistungserbringer assoziieren schnell mit dem Begriff Zwei-Klassen-Medizin. In diesem Modul wird sowohl institutionell die Struktur des PKV-Systems dargestellt als auch wichtige Prinzipien der PKV (z.B. zur Beitragskalkulation und zum vertraglichen Verhältnis zu den Versicherten) analysiert.
6	Learning objectives and skills	Die Studierenden <ul style="list-style-type: none"> • erwerben ein vertieftes Verständnis über das Verhältnis zwischen Versicherungsunternehmen (VU) und Versicherungsnehmer (VN) • werden in die Lage versetzt, Probleme und Lösungen im Bereich der PKV eingehend zu analysieren und mit Fachvertretern und Mitstudierenden zu diskutieren • erlernen die Grundlagen der Prämienkalkulation • antizipieren künftige Entwicklungen im Bereich der PKV
7	Prerequisites	Die Pflichtveranstaltung Kostenträger I sollte vor diesem Modul belegt worden sein. Die Teilnehmerzahl ist begrenzt. Die Anmeldung erfolgt über das Anmeldeformular (siehe Lehrstuhlhomepage), der Anmeldezeitraum wird rechtzeitig bekannt gegeben.
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Miscellaneous Master of Science Economics 20212
10	Method of examination	Written examination with multiple choice (60 minutes)
11	Grading procedure	Written examination with multiple choice (100%)
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h
14	Module duration	1 semester
15	Teaching and examination language	german
16	Bibliography	<ul style="list-style-type: none"> • Busse, R., Schreyögg, J., Stargardt, T. (Hrsg.) Management im Gesundheitswesen, 5. Aufl. Berlin Heidelberg, 2022 • Koch, P., Privatversicherungsrecht, Beck-Texte im dtv, 28. Auflage, Münster, 2022

1	Module name 52780	Pharmamanagement II	5 ECTS
2	Courses / lectures	Seminar: Pharmamanagement II (3 SWS)	5 ECTS
3	Lecturers	Prof. Dr. Oliver Schöffski	

4	Module coordinator	Prof. Dr. Oliver Schöffski	
5	Contents	Nachdem in Pharmamanagement I insbesondere die Akteure der Branche betrachtet wurden, erfolgt in diesem Modul die Fokussierung auf die Produkte in diesem Bereich, die Arzneimittel. Es erfolgt eine Klassifizierung von Arzneimitteln anhand verschiedener Kriterien und der Arzneimittelmarkt wird analysiert. Darüber hinaus wird die Preisbildung auf dem Arzneimittelmarkt thematisiert und es erfolgt eine ausführliche Analyse der Steuerungsinstrumente in diesem Bereich.	
6	Learning objectives and skills	<p>Die Studierenden</p> <ul style="list-style-type: none"> • erfahren den Arzneimittelbereich in seiner Komplexität • analysieren die Wirkungen von vorhandenen Steuerungsinstrumenten • antizipieren die Wirkungen von weiteren potenziellen Steuerungsinstrumenten • vertiefen ihre Kenntnisse anhand aktueller Fallbeispiele, für die sie eigenständig Lösungen entwickeln. 	
7	Prerequisites	Die Pflichtveranstaltung Pharmamanagement I sollte vor diesem Modul belegt worden sein.	
8	Integration in curriculum	no Integration in curriculum available!	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	Written examination with multiple choice (60 minutes)	
11	Grading procedure	Written examination with multiple choice (100%)	
12	Module frequency	Only in summer semester	
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h	
14	Module duration	1 semester	
15	Teaching and examination language	german	
16	Bibliography	<ul style="list-style-type: none"> • Schöffski, O. / Fricke, F. U. / Guminski, W. (Hrsg.): Pharmabetriebslehre, 2. Aufl., Berlin u. a., 2008. • Busse, R., Schreyögg, J., Stargadt, T. (Hrsg.) Management im Gesundheitswesen, 4. und 5. Aufl. Berlin Heidelberg, 2017 und 2022 	

1	Module name 52900	Labor and personnel economics	5 ECTS
2	Courses / lectures	Vorlesung: Labor and Personnel Economics (2 SWS) Übung: Übung Labor and Personnel Economics (1 SWS)	3 ECTS 2 ECTS
3	Lecturers	Prof. Dr. Claus Schnabel Vinzenz Pyka	

4	Module coordinator	Prof. Dr. Claus Schnabel	
5	Contents	<ul style="list-style-type: none"> • Labor supply • Human capital • Labor demand • Search and matching • Mobility and migration • Wages • Employment relationships and work incentives • Unemployment 	
6	Learning objectives and skills	<p>The course imparts the major methods and insights of the analysis of labor markets and employment relationships. Students</p> <ul style="list-style-type: none"> • learn the major determinants of labor supply and demand- • understand the importance of human capital and work incentives- • analyze the functioning of labor markets and the main reasons for unemployment- • critically reflect labor market theories- are able to interpret and scrutinize empirical studies- • evaluate labor market policy and firms compensation policy. 	
7	Prerequisites	Basic knowledge of microeconomics and empirical research methods/ econometrics	
8	Integration in curriculum	semester: 2	
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Labour Economics Master of Science Economics 20212	
10	Method of examination	Written examination (90 minutes)	
11	Grading procedure	Written examination (100%)	
12	Module frequency	Only in summer semester	
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h	
14	Module duration	1 semester	
15	Teaching and examination language	english	
16	Bibliography	Cahuc, P./Carcillo, S./Zylberberg, A.: Labor Economics, 2nd ed., Cambridge, Mass. 2014	

1	Module name 52910	Labor market policy	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Gesine Stephan
5	Contents	The module analyzes main topics in labor market policy, with a focus on evaluation studies of labor market institutions and active and passive labor market programs
6	Learning objectives and skills	<p>Students</p> <ul style="list-style-type: none"> • acquire specialized knowledge on policy debates, theoretical backgrounds, evaluation techniques, and empirical evidence for core labor market policies. • assess theoretical approaches, applied methods, and empirical results of recent research papers. • clearly present and scrutinize complex facts and results. • discuss presentations of fellow students and provide constructive feedback.
7	Prerequisites	Solid knowledge in microeconomics and econometrics
8	Integration in curriculum	semester: 3
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Labour Economics Master of Science Economics 20212
10	Method of examination	Discussion contribution Seminar paper Presentation
11	Grading procedure	Discussion contribution (pass/fail) Seminar paper (100%) Presentation (pass/fail)
12	Module frequency	Only in winter semester
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Boeri, T., van Ours. J. (2013). The Economics of Imperfect Labor Markets, 2nd edition. Princeton: Princeton University Press. Varying recent literature

1	Module name 52950	Seminar: Public economics 1	5 ECTS
2	Courses / lectures	Masterseminar: Seminar Public Economics 1 (3 SWS)	5 ECTS
3	Lecturers	Prof. Dr. Thiess Büttner Prof. Dr. Matthias Wrede Prof. Dr. Sarah Necker	

4	Module coordinator	Prof. Dr. Thiess Büttner Prof. Dr. Sarah Necker Prof. Dr. Matthias Wrede
5	Contents	Topics in Public Economics
6	Learning objectives and skills	<p>Students</p> <ul style="list-style-type: none"> • study selected parts of the academic literature in public economics (mostly from scientific journals) and learn how to deal with this literature • learn how to identify relevant contributions in large bodies of economic literature • learn about current approaches and methods in public economics • learn how to read economic papers and to evaluate and assess contributions, regarding both theory and empiry • learn how to draw conclusions from the academic literature in terms of policy implications and critically analyse these findings • learn how to structure and write an academic thesis in economics • expand their skillset in presenting research and presentation techniques and actively participate in academic discussion
7	Prerequisites	All techniques and methods that are part of the curriculum in the first semester
8	Integration in curriculum	semester: 2
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Public Economics Master of Science Economics 20212
10	Method of examination	<p>Written or oral Seminar paper (15 pages), presentation, class participation (incl. discussion of other participants' presentations).</p> <p>Attendance of the presentations is mandatory.</p> <p>Exam registration and deregistration take place before the regular exam registration and deregistration period.</p> <p><i>This is a complete examination which means that the partial achievements cannot be separated. Pursuant to Section 19 (1) (4) MPOWIWI, all partial achievements must be completed in the same semester to pass the module. As the partial achievements</i></p>

		<i>are connected, repeating only one partial achievement is not permitted in deviation to Section 25 (1)(2) MPOWIWI. Failing one partial achievement requires the entire examination to be repeated.</i>
11	Grading procedure	Written or oral (100%) Seminar paper (50%), presentation (30%), discussion (20%)
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Will be provided together with the topic announcements.

1	Module name 52960	Seminar: Public economics 2	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Thiess Büttner Prof. Dr. Sarah Necker Prof. Dr. Matthias Wrede
5	Contents	Topics in Public Economics
6	Learning objectives and skills	<p>Students</p> <ul style="list-style-type: none"> • study selected parts of the academic literature in public economics (mostly from scientific journals) and learn how to deal with this literature • learn how to identify relevant contributions in large bodies of economic literature • learn about current approaches and methods in public economics • learn how to read economic papers and to evaluate and assess contributions, regarding both theory and empiry • learn how to draw conclusions from the academic literature in terms of policy implications and critically analyse these findings • learn how to structure and write an academic thesis in economics • expand their skillset in presenting research and presentation techniques and actively participate in academic discussion
7	Prerequisites	All techniques and methods that are part of the curriculum in the first semester
8	Integration in curriculum	semester: 3
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Public Economics Master of Science Economics 20212
10	Method of examination	<p>Written or oral Seminar paper (15 pages), presentation, class participation (incl. discussion of other participants' presentations)</p> <p>Attendance of the presentations is mandatory.</p> <p>Exam registration and deregistration take place before the regular exam registration and deregistration period.</p> <p><i>This is a complete examination which means that the partial achievements cannot be separated. Pursuant to Section 19 (1) (4) MPOWIWI, all partial achievements must be completed in the same semester to pass the module. As the partial achievements</i></p>

		<i>are connected, repeating only one partial achievement is not permitted in deviation to Section 25 (1)(2) MPOWIWI. Failing one partial achievement requires the entire examination to be repeated.</i>
11	Grading procedure	Written or oral (100%) Seminar paper (50%), presentation (30%), discussion (20%)
12	Module frequency	Only in winter semester
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Will be provided together with the topic announcements.

1	Module name 52971	Linear optimization Linear and combinatorial optimization	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Dr. Dieter Weninger	
5	Contents	The main focus of this lecture is on the theory and solution of linear optimization problems. We will address geometric aspects of linear programming, duality, model creation and sensitivity analysis. This course also covers the Simplex Method for solving linear programs.	
6	Learning objectives and skills	Students will <ul style="list-style-type: none"> • autonomously recognize and analyze problems in linear optimization, • discuss basic algorithmic concepts and apply them systematically, • classify methods of this field of study, • gather and assess relevant information and set it in context. 	
7	Prerequisites	Linear Algebra	
8	Integration in curriculum	semester: 3	
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Energy Markets Master of Science Economics 20212	
10	Method of examination	Written examination	
11	Grading procedure	Written examination (100%)	
12	Module frequency	Only in winter semester	
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h	
14	Module duration	1 semester	
15	Teaching and examination language	german	
16	Bibliography	Lecture notes Schrijver: Combinatorial Optimization, Springer 2003 Chvátal: Linear Programming, W.H. Freeman & Co, 1983	

1	Module name 52972	Combinatorial optimization Linear and combinatorial optimization	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Dr. Dieter Weninger	
5	Contents	The main focus of this lecture is on the theory and solution of combinatorial optimization problems. We will address typical problems in graph theory like the Shortest Path Problem, the Spanning Tree or the Max-Flow Min-Cut Theorem. This course also covers basic algorithmic concepts such as Sorting, Greedy algorithm, Depth-first search/Breadth-first search and heuristics.	
6	Learning objectives and skills	Students will <ul style="list-style-type: none"> • autonomously recognize and analyze problems in combinatorial optimization, • discuss basic algorithmic concepts and apply them systematically, • classify methods of this field of study, • gather and assess relevant information and set it in context. 	
7	Prerequisites	Linear Algebra	
8	Integration in curriculum	semester: 3	
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Energy Markets Master of Science Economics 20212	
10	Method of examination	Written examination	
11	Grading procedure	Written examination (100%)	
12	Module frequency	Only in winter semester	
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h	
14	Module duration	1 semester	
15	Teaching and examination language	german	
16	Bibliography	Lecture notes Schrijver: Combinatorial Optimization, Springer 2003 Korte/Vygen: Combinatorial Optimization, Springer 2005	

1	Module name 52980	Methods and applications of mathematical optimization	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Frauke Liers-Bergmann	
5	Contents	The focus of this module is on methods for modelling and solving optimization problems as they occur in the field of industry and economics. Advantages and disadvantages of different modelling techniques will be outlined and different reformulations will be presented in order to achieve efficient solution approaches. Students will learn how to present optimization results properly as well as how to interpret and evaluate these results for practical applications. This module covers topics such as optimization of transport networks (gas, water, energy), mathematical modelling and optimization techniques for market mechanisms in the energy sector and dealing with uncertain data.	
6	Learning objectives and skills	<p>The students</p> <ul style="list-style-type: none"> • will gain an overview over applications of mathematical optimization • learn mathematical optimization modeling and solution techniques • learn to decide which solution approaches are suitable for which class of models 	
7	Prerequisites	Linear and Combinatorial Optimization	
8	Integration in curriculum	semester: 3	
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Energy Markets Master of Science Economics 20212	
10	Method of examination	Written examination (90 minutes)	
11	Grading procedure	Written examination (100%)	
12	Module frequency	Only in winter semester	
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h	
14	Module duration	1 semester	
15	Teaching and examination language	german	
16	Bibliography	Lecture Notes Recent research literature	

1	Module name 52990	Seminar energy markets	5 ECTS
2	Courses / lectures	Seminar: Seminar Energy Markets (4 SWS)	5 ECTS
3	Lecturers	Prof. Dr. Karl Gregor Zöttl Prof. Dr. Veronika Grimm Prof. Dr. Mario Liebensteiner	

4	Module coordinator	Prof. Dr. Thies Büttner Prof. Dr. Mario Liebensteiner Prof. Dr. Karl Gregor Zöttl
5	Contents	<p>It is the purpose of the seminar to deepen the understanding of the economic interaction of the players and institutions in liberalized energy markets.</p> <p>The participants learn and develop the tools for an autonomous economic assessment of currently discussed policies in liberalized electricity markets (e.g. changed support schemes for renewables, changed network tariff systems, impact of capacity markets).</p> <p>In cooperation with experts from the industry, students are also confronted with the practitioners perspective which requires a more detailed application of the economic concepts employed.</p> <p>The course aims at students in the field of economics /business as well as students in the fields of engineering and mathematics. In the final workshop, all Students present and mutually discuss their results together with practitioners from the industry. The ability to communicate also beyond the classical limits of each discipline is an important qualification for the students careers, which should be stimulated in the context of this seminar.</p> <p>Language of the course in the summer term is German (due to cooperation with practice partners), and in the winter term English.</p>
6	Learning objectives and skills	<p>The students</p> <ul style="list-style-type: none"> • learn fundamental concepts and models which allow to analyze the economic interaction at energy markets, • Learn to autonomously apply those methods, • Conceptualize coherent analysis of current policy discussion of how to design energy markets, • In close exchange with a practitioner from industry, learn to apply in meaningful way the conceptual analysis and discussions to real world problems. • Develop their presentation skills.
7	Prerequisites	<p>The students should be familiar with the mathematical methods acquired during their Bachelor degree.</p> <p>Admission requirements for Winter Term (at least one of the following courses must have been passed):</p> <p>Economics of Climate Change Quantitative Methods in Energy Market Modelling Empirical Environmental Economics</p>

8	Integration in curriculum	semester: 2;3
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Energy Markets Master of Science Economics 20212 Summer Term: German (due to cooperation with practice partners), Winter Term: English Exception Summer Term 2025: English
10	Method of examination	Oral Seminar paper Presentation
11	Grading procedure	Oral (20%) Seminar paper (50%) Presentation (30%)
12	Module frequency	Every semester
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h
14	Module duration	1 semester
15	Teaching and examination language	german english
16	Bibliography	Daniel Kirschen and Goran Strbac: Power System Economics, Wiley 2004. Steven Stoft: Power System Economics, Wiley 2002. Wolfgang Ströbele, Wolfgang Pfaffenberger, Michael Heuterkes: Energiewirtschaft, Oldenbourg 2010.

1	Module name 53010	Arbeitsmarktsoziologie Labor market sociology	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers. Es besteht Anwesenheitspflicht.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Martin Abraham
5	Contents	Einführung in zentrale Theorien, Methoden und Themenfelder der Arbeitsmarktsoziologie. Zudem werden ausgewählte Themen vertieft erörtert. Der Kurs besteht aus einem Seminarteil im Umfang von 2 SWS und einem Übungsteil im Umfang von 1 SWS.
6	Learning objectives and skills	Die Studierenden <ul style="list-style-type: none"> • erwerben umfassende Kenntnisse über Grundfragen der Arbeitsmarktsoziologie • erwerben detaillierte Kenntnisse über den Zusammenhang gesellschaftlicher Rahmenbedingungen und Prozesse des Arbeitsmarktes • erwerben Kompetenzen zur kritischen Beurteilung von politischen Programmen und Maßnahmen im Bereich des Arbeitsmarktes
7	Prerequisites	Keine
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Miscellaneous Master of Science Economics 20212
10	Method of examination	Presentation Written examination (60 minutes)
11	Grading procedure	Presentation (pass/fail) Written examination (100%)
12	Module frequency	Only in winter semester
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h
14	Module duration	1 semester
15	Teaching and examination language	german
16	Bibliography	Abraham, Martin, und Thomas Hinz (Hrsg.) (2018): Arbeitsmarktsoziologie. 3. Aufl., Opladen: Westdeutscher Verlag.

1	Module name 53030	Personalmanagement Human resources management	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Dirk Holtbrügge	
5	Contents	1. Personalmanagement als strategischer Erfolgsfaktor der Unternehmensführung 2. Theorien des Personalmanagements 3. Akteure des Personalmanagements 4. Bedingungen des Personalmanagement 5. Instrumente des Personalmanagement 5.1. Personalbedarfsplanung und deckung 5.2. Personaleinsatz 5.3. Personalentlohnung 5.4. Personalführung 6. Effizienz des Personalmanagement	
6	Learning objectives and skills	Die Studierenden können Probleme des Personalmanagements aus rechtlicher, ökonomischer, betriebswirtschaftlicher, organisatorischer, psychologischer und ethischer Sicht analysieren sowie Lösungsvorschläge bewerten und eigenständig entwickeln. Sie können die Auswirkungen des Personalmanagement mit Hilfe anspruchsvoller Methoden der Personalforschung prognostizieren und Gestaltungsempfehlungen ableiten Sie lernen den aktuellen internationalen Forschungsstand zum Personalmanagement kennen und sind in der Lage, theoretische und empirische Studien in diesem Bereich kritisch zu reflektieren.	
7	Prerequisites	Sehr gute Deutschkenntnisse (C1)	
8	Integration in curriculum	no Integration in curriculum available!	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	Presentation Report Diskussionspapier (6 Seiten, 80% der Modulnote) und Präsentation (20% der Modulnote)	
11	Grading procedure	Presentation (20%) Report (80%)	
12	Module frequency	Only in winter semester	
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h	
14	Module duration	1 semester	
15	Teaching and examination language	german	

1	Module name 53055	Panel and evaluation methods	5 ECTS
2	Courses / lectures	Tutorium: Panel- and Evaluation Methods-Tutorium (0 SWS)	-
3	Lecturers		

4	Module coordinator	Prof. Dr. Regina Therese Riphahn
5	Contents	Endogeneity in the linear regression model; instrumental variables estimation; static and dynamic panel data models; matching; difference-in-differences estimation; regression discontinuity design; quantile regression; practical application of methods using statistics software STATA
6	Learning objectives and skills	Based on the introductory econometrics module "Ökonometrie" students acquire specialized knowledge in panel und evaluation methods and apply it using the statistics software STATA. Students evaluate to what degree empirical patterns can be interpreted as causal and decide to what extent problems of endogeneity can be solved via panel data or exogeneous variation. Students can produce own empirical analyses.
7	Prerequisites	Basic knowledge in statistics and econometrics
8	Integration in curriculum	semester: 3;1
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Health Economics Master of Science Economics 20212 Specialisation: Labour Economics Master of Science Economics 20212 Specialisation: Macroeconomics and Finance Master of Science Economics 20212 Specialisation: Public Economics Master of Science Economics 20212
10	Method of examination	Written examination (60 minutes)
11	Grading procedure	Written examination (100%) 100 % written exam (a voluntarily submitted homework can account for 20 % of the final grade if it improves the grade. In the homework an empirical analysis is performed based on Stata. The final grade can be improved by up to 0.7 points. However, the exam must be passed. The homework only counts towards final grades in the semester in which they are produced, i.e. only in the winter semester.)
12	Module frequency	Only in winter semester
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Wooldridge, J.M., 2010, Econometric Analysis of Cross Section and Panel Data, 2.ed., MIT Press. Greene, William H., 2020, Econometric Analysis, 8. ed., Pearson, New Jersey

Cameron, C.A. and P.K. Trivedi, 2005, *Microeconometrics. Methods and Applications*, Cambridge University Press

Angrist, J. and J.-S. Pischke, 2009, *Mostly Harmless Econometrics*, Princeton University Press, Princeton, and Oxford.

Verbeek, M., 2017, *A Guide to Modern Econometrics*, 5. ed., Wiley.

1	Module name 53060	Institutionen und Organisationen des Arbeitsmarktes Labor market institutions and organizations	5 ECTS
2	Courses / lectures	Vorlesung: Institutionen und Organisationen des Arbeitsmarktes (2 SWS) Übung: Übung Institutionen und Organisationen des Arbeitsmarktes (2 SWS)	3 ECTS 2 ECTS
3	Lecturers	Prof. Dr. Claus Schnabel Jan Weikl	

4	Module coordinator	Prof. Dr. Claus Schnabel	
5	Contents	<ul style="list-style-type: none"> • Gewerkschaften und Arbeitgeberverbände • Tarifautonomie • Mindestlöhne • Betriebsräte und Mitbestimmung • Arbeitsrechtliche Schwellenwerte • Kündigungsschutz • Arbeitslosenversicherung • Bundesagentur für Arbeit 	
6	Learning objectives and skills	<p>Das Modul analysiert verschiedene Institutionen und Organisationen des Arbeitsmarktes und ihre Arbeitsmarktwirkungen, vorwiegend aus wirtschaftswissenschaftlicher Perspektive. Die Studierenden erschließen die ökonomische Bedeutung arbeitsrechtlicher und sozialpolitischer Regelungen und beurteilen die Rolle und Wirkung der Tarifparteien, der Betriebsräte und der Bundesagentur für Arbeit. Sie werden in die Lage versetzt, die vorgestellten Theorien kritisch zu reflektieren, empirische Arbeitsmarktstudien zu interpretieren und zu hinterfragen, wirtschaftspolitische Maßnahmen zu bewerten sowie eigene Handlungsempfehlungen zu entwickeln. Sie erstellen gemeinsam mit anderen Präsentationen und geben Kommiliton*innen wertschätzendes Feedback zu deren Präsentationen.</p>	
7	Prerequisites	Keine	
8	Integration in curriculum	semester: 2;4	
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Labour Economics Master of Science Economics 20212	
10	Method of examination	Presentation Oral (20 minutes)	
11	Grading procedure	Presentation (pass/fail) Oral (100%)	
12	Module frequency	Only in summer semester	
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h	
14	Module duration	1 semester	
15	Teaching and examination language	german	

16	Bibliography	Boeri ,T./van Ours, J.: The Economics of Imperfect Labor Markets, 3. Aufl., Princeton 2021; Wagner, T./Jahn, E.: Neue Arbeitsmarkttheorien, 2. Aufl. 2004 (v.a. Teil III); Aktuelle Forschungsliteratur
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1	Module name 53071	Personnel economics	5 ECTS
2	Courses / lectures	Vorlesung: Personnel Economics (2 SWS) Compulsory attendance is required for discussion and feedback processes.	5 ECTS
3	Lecturers	Prof. Dr. Regina Therese Riphahn	

4	Module coordinator	Prof. Dr. Regina Therese Riphahn
5	Contents	The module addresses key topics of modern personnel economics research, such as hiring, contract design, motivation, training, teamwork, and group incentives.
6	Learning objectives and skills	Students acquire specialized knowledge of personnel economics theories and research questions. By preparing short thesis papers and a seminar paper, students learn to evaluate and critically discuss methodological choices and substantive conclusions drawn in recent empirical research papers. Students assess theoretical approaches, applied empirical methods and results of recent research papers. Students present and scrutinize complex facts and results. They discuss the theoretical background, empirical method, and empirical evidence on personnel economics research contributions, discuss presentations of fellow students and provide constructive feedback. Compulsory attendance is required for discussion and feedback processes.
7	Prerequisites	Basic knowledge of microeconomics and econometrics
8	Integration in curriculum	semester: 2;4
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Labour Economics Master of Science Economics 20212
10	Method of examination	Seminar paper Written Seminar paper, thesis papers
11	Grading procedure	Seminar paper (60%) Written (40%) <ul style="list-style-type: none"> • Seminar paper (group work) (60 %) • Thesis papers (40 %)
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	<ul style="list-style-type: none"> • Garibaldi, Pietro (2006), Personnel Economics in Imperfect Labour Markets, Oxford Univ. Press. • Neilson, William S. (2007), Personnel Economics, Pearson Educ. Inc.

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| | <ul style="list-style-type: none">• Lazear, Edward P. (1998), Personnel Economics, MIT Press.• Selected research papers |
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1	Module name 53111	Datenerhebung und Datenstrukturen in der Arbeitsmarktforschung Collection and structures of data in labor market research	5 ECTS
2	Courses / lectures	Masterseminar: Datenerhebung und Datenstrukturen (3 SWS) Es besteht Anwesenheitspflicht.	5 ECTS
3	Lecturers	Dr. Hans Dietrich	

4	Module coordinator	Prof. Dr. Martin Abraham
5	Contents	In der empirischen Arbeitsmarktforschung werden häufig komplexe Daten verwendet, die insbesondere zeitliche Strukturen beinhalten. Gegenstand dieses Moduls ist die Vermittlung grundsätzlicher Erhebungsdesigns solcher Daten, deren Aufbereitung sowie deren Auswertung mit Verfahren der Panel- und Ereignisdatenanalyse. Der Kurs besteht aus einem Seminarteil im Umfang von 2 SWS und einem Übungsteil im Umfang von 1 SWS.
6	Learning objectives and skills	Die Studierenden <ul style="list-style-type: none"> erwerben Kenntnisse über die Erhebung von Daten in diesem Bereich erwerben spezialisierte und vertiefte Kompetenz in der Datenaufbereitung erwerben vertiefte Kompetenzen in der Analyse von Ereignis- und Paneldaten erwerben vertiefte Kompetenzen im Umgang mit Stata
7	Prerequisites	<ul style="list-style-type: none"> Grundkenntnisse in Stata sowie bereits praktische Erfahrung (bspw. in einer Hausarbeit oder Abschlussarbeit) Kenntnisse von OLS und logistischer Regression
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Miscellaneous Master of Science Economics 2012
10	Method of examination	Written Seminar paper
11	Grading procedure	Written (33%) Seminar paper (67%)
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h
14	Module duration	1 semester
15	Teaching and examination language	german
16	Bibliography	Blossfeld, H. P., Golsch, K., & Rohwer, G. (2012). Event history analysis with Stata. Psychology Press. Cameron, A. C., & Trivedi, P. K. (2010). Microeconometrics Using Stata (Vol. 2). College Station, TX: Stata press.

1	Module name 53313	Multivariate Time Series Analysis Multivariate time series analysis	5 ECTS
2	Courses / lectures	Übung: Multivariate Time Series Analysis (2 SWS) Vorlesung: Multivariate Time Series Analysis Exercise Session (2 SWS)	2,5 ECTS 2,5 ECTS
3	Lecturers	Dr. Maximilian Böck	

4	Module coordinator	Prof. Dr. Jonas Dovern	
5	Contents	<ul style="list-style-type: none"> • Brief repetition of concepts of univariate time series analysis; • Vector autoregressive (VAR) processes: basics, estimation, lag order selection, specification testing, forecasting; • Structural VAR models: various methods for identifying macroeconomic shocks; • Multivariate GARCH models. 	
6	Learning objectives and skills	Ability to independently analyze multivariate stationary time series using vector autoregressive processes; ability to explain the problems of identifying structural macroeconomic shocks and ability to estimate and interpret SVAR models; ability to explain and estimate basic multivariate GARCH models; skills for using existing functions in R for time series analysis and for developing proprietary functions for analyzing multivariate time series in R.	
7	Prerequisites	Proficiency in univariate time series analysis and basic concepts of econometrics	
8	Integration in curriculum	semester: 2;4	
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Macroeconomics and Finance Master of Science Economics 20212	
10	Method of examination	Written examination (60 minutes)	
11	Grading procedure	Written examination (100%) Students can improve their grade by doing a replication study during the semester.	
12	Module frequency	Only in summer semester	
13	Workload in clock hours	Contact hours: 60 h Independent study: 90 h	
14	Module duration	1 semester	
15	Teaching and examination language	english	
16	Bibliography	Lütkepohl, H. (2005), New Introduction to Multiple Time Series Analysis, Springer. Kilian, L. and H. Lütkepohl (2017), Structural Vector Autoregressive Analysis (Themes in Modern Econometrics), Cambridge University Press, Cambridge.	

Tsay, R.S. (2005), Analysis of Financial Time Series, 2nd edition, Wiley.
(alternatively 3rd edition from 2010).

Verbeek, M. (2008), A Guide to Modern Econometrics,, 3rd edition,
Wiley.

1	Module name 53330	Workshop capital markets research	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers. Die Anwesenheit in der Lehrveranstaltung ist Voraussetzung für die Prüfungsteilnahme	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Hendrik Scholz
5	Contents	In diesem Seminar lesen, präsentieren und diskutieren die Studierenden aktuelle Forschungsarbeiten aus dem Gebiet der Finanzierung, die in international führenden Zeitschriften erscheinen bzw. erschienen sind.
6	Learning objectives and skills	Die Studierenden <ul style="list-style-type: none"> • erarbeiten sich in Gruppen durch eigenständige Recherche und Ausarbeitung von Präsentationen zu hochrangigen, internationalen Publikationen neues Wissen, das sie den Teilnehmern des Seminars vermitteln. • können ihre zuvor in Vorlesungen erworbenen theoretischen Kenntnisse im Rahmen interaktiver Präsentationen anwenden. • beurteilen quantitative Methoden, die in aktuellen Forschungsarbeiten zum Einsatz kommen und wenden ausgewählte Methoden an exemplarischen Datensätzen an. • geben und erhalten im Rahmen offener Diskussionen zu den Präsentationen ein wertschätzendes Feedback über die erbrachte Leistung.
7	Prerequisites	Vertiefte Kenntnisse im Bereich Finance.
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Miscellaneous Master of Science Economics 20212
10	Method of examination	Written or oral Präsentation/Präsentationspapier (ca. 60-90 Min., tw. in Gruppenarbeit) und Diskussionsbeitrag (während der Veranstaltungstermine) <i>Es handelt sich um eine einheitliche Prüfung, bei der die einzelnen Teilleistungen untrennbar miteinander verbunden sind. Für das Bestehen des Moduls müssen nach § 19 Abs. 1 Satz 4 MPOWIWI in der jeweils geltenden Fassung alle Teilleistungen in demselben Semester bestanden werden. Wegen des untrennbaren Bezugs der Teilleistungen aufeinander ist abweichend von § 25 Abs. 1 Satz 2 MPOWIWI eine Wiederholung nur einer der nicht bestandenen Teilleistungen nicht möglich. Das Nichtbestehen einer der Teilleistungen erfordert die Wiederholung der gesamten Prüfung.</i>
11	Grading procedure	Written or oral (100%) Präsentation/Präsentationspapier (50 %) und Diskussionsbeitrag (50 %)
12	Module frequency	Only in winter semester
13	Workload in clock hours	Contact hours: 45 h

		Independent study: 105 h
14	Module duration	1 semester
15	Teaching and examination language	german
16	Bibliography	wird im Rahmen der Veranstaltung bekannt gegeben weitergehende, forschungsbezogene Literatur wird im Rahmen der Veranstaltung bekannt gegeben

1	Module name 53430	Controlling of business systems	5 ECTS
2	Courses / lectures	Übung: Klausurenkurs Controlling of Business Systems (2 SWS)	-
3	Lecturers	Sebastian Gaschler Jonas Albers	

4	Module coordinator	Prof. Dr. Thomas Fischer	
5	Contents	<ul style="list-style-type: none"> • Einführung in das Controlling von Wertschöpfungssystemen • Wertorientierte Kennzahlen • Kunden-Controlling • Anreizsysteme als Instrument zur Steuerung von Geschäftsbereichen • Unternehmerische Nachhaltigkeit • Digitalisierung und Controlling 	
6	Learning objectives and skills	Die Studierenden kennen relevante Controlling-Instrumente, um die Geschäftsbeziehungen eines Unternehmens zu wesentlichen Stakeholdergruppen (Kapitalgeber, Kunden, Mitarbeiter) nachhaltig erfolgreich steuern, d. h. planen und kontrollieren, zu können.	
7	Prerequisites	Empfehlung: <ul style="list-style-type: none"> • Bachelor-Modul Kostenrechnung und Controlling • Bachelor-Modul Controlling of Business Development • Coenberg, A. G. / Fischer, T. M. / Günther, T. / Brühl, R. (2024): Kostenrechnung und Kostenanalyse, 10. Aufl., Stuttgart 2024, Kapitel 1-6, 14 und 15. 	
8	Integration in curriculum	no Integration in curriculum available!	
9	Module compatibility	Miscellaneous Master of Science Economics 2012	
10	Method of examination	Written examination (60 minutes) Da die Dienstzeit von Herrn Prof. Dr. Thomas M. Fischer planmäßig am 30.09.2025 enden wird, ist eine letztmalige Erstanmeldung zur Prüfung Controlling of Business Systems (CBS) im Wintersemester 2024/25 möglich. Nach diesem Termin können lediglich Wiederholungsprüfungen absolviert werden, aber keine neuen Erstanmeldungen mehr vorgenommen werden.	
11	Grading procedure	Written examination (100%)	
12	Module frequency	Only in winter semester	
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h	
14	Module duration	1 semester	
15	Teaching and examination language	german	
16	Bibliography	<ul style="list-style-type: none"> • Fischer, T. M. / Möller, K. / Schultze, W. (2015): Controlling, 2. Aufl., Stuttgart 2015 	

- Coenenberg, A. G. / Fischer, T. M. / Günther, T. / Brühl, R. (2024): Kostenrechnung und Kostenanalyse, 10. Aufl., Stuttgart 2024

1	Module name 53450	Technology and innovation management	5 ECTS
2	Courses / lectures	Vorlesung: Technology and Innovation Management (V) (2 SWS) Kolloquium: Technology and Innovation Management - KO (1 SWS)	5 ECTS -
3	Lecturers	Lauren Mackintosh Prof. Dr. Kai-Ingo Voigt	

4	Module coordinator	Prof. Dr. Kai-Ingo Voigt	
5	Contents	Technologien und Innovationen sind die Basis des Erfolgs und Wachstums eines jeden Unternehmens. Dieser Kurs behandelt Theorien, Konzepte und Werkzeuge des Technologie- und Innovationsmanagements. Spezielle Themen sind z.B. ökonomische Entscheidungstatbestände im Technologiemanagement bzw. im disruptiven technologischen Wandel, Erfolgsfaktoren von Innovationen, die Gestaltung von Innovationsprozessen, Timing-Strategien, die Öffnung des Innovationsmanagements nach außen sowie die Innovation ganzer Geschäftsmodelle. Die Themen werden außerdem mit praktischen und aktuellen Schwerpunktthemen verknüpft um so einen Anwendungsbezug darzustellen.	
6	Learning objectives and skills	In diesem Modul lernen die Studierenden ein umfassendes, detailliertes und spezialisiertes Wissen sowie den aktuellen Erkenntnisstand im Bereich des Technologie- und Innovationsmanagements kennen. Nach Abschluss des Moduls können sie die bedeutende Rolle von Technologien und Innovationen als Wettbewerbsvorteil für Industrie- und Dienstleistungsunternehmen einschätzen und bewerten. Dieses Wissen wird durch zahlreiche praktische Beispiele vertieft. Des Weiteren sind die Studierenden dann in der Lage, das Wissen über die Methoden und Konzepte des Technologie- und Innovationsmanagements erfolgreich auf neuartige, konkrete praktische Probleme zu transferieren und diese dort zur Problemstrukturierung und -lösung einzusetzen. Sie können somit Sachverhalte in diesem Bereich einschätzen und hinterfragen. Die erworbenen analytischen und konzeptionellen Fertigkeiten befähigen die Studierende komplexe betriebswirtschaftliche Fragestellungen eigenständig zu bearbeiten und die richtigen Methoden und Strukturierungsansätze zur Bewältigung von Aufgaben im Technologie- und Innovationsmanagement zu finden und erfolgreich anzuwenden.	
7	Prerequisites	Keine	
8	Integration in curriculum	semester: 2	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	Written examination (90 minutes)	
11	Grading procedure	Written examination (100%)	
12	Module frequency	Only in summer semester	

13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h
14	Module duration	1 semester
15	Teaching and examination language	german english
16	Bibliography	Ahmed, P.; Shepherd, C.: Innovation Management Context, Strategies, systems and processes, Pearson, Essex, 2010. Voigt, K.-I.: Industrielles Management, 1. Aufl., Berlin u. a., 2008.

1	Module name 53471	Managing intercultural relations	5 ECTS
2	Courses / lectures	Vorlesung: Managing Intercultural Relations IM 3 (2 SWS) Seminar: Managing Intercultural Relations IM 3 (1 ECTS, Seminar) (1 SWS)	4 ECTS 1 ECTS
3	Lecturers	Prof. Dr. Dirk Holtbrügge Aisha Munir	

4	Module coordinator	Prof. Dr. Dirk Holtbrügge
5	Contents	<ol style="list-style-type: none"> 1. Relevance of Intercultural Management 2. Intercultural Management Research: Scope and Results 3. Manifestations and Functions of Culture 4. Concepts of Culture 5. Intercultural Communication and Negotiations 6. Culture and Management: Organization, Motivation and Leadership in Different Cultures 7. Intercultural Competence 8. Intercultural Training 9. Conclusions
6	Learning objectives and skills	The participants understand and analyze modern theories and methods of intercultural management and apply these to practical problems. They get a detailed overview of the current state of comparative, cross-cultural, indigenous and post-colonial management research and evaluate theoretical and empirical studies in these areas. They are able to conceptualize and measure intercultural competence and to conduct and evaluate innovative methods of intercultural training. They learn about methodological challenges of intercultural management research and are able to assess its rigor and relevance.
7	Prerequisites	English language proficiency (C1)
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Miscellaneous Master of Science Economics 20212
10	Method of examination	<p>Presentation Written</p> <p><i>Details for the examination for the lecture: Report (6 pages)</i> <i>Details for the examination for the seminar: Oral presentation (attendance mandatory)</i></p>
11	Grading procedure	<p>Presentation (20%) Written (80%)</p>
12	Module frequency	Only in summer semester
13	Workload in clock hours	<p>Contact hours: 45 h Independent study: 105 h</p>
14	Module duration	1 semester
15	Teaching and examination language	english

Holtbrügge, D. (2022). *Intercultural Management. Concepts, Practice, Critical Reflection*. Thousand Oaks: Sage.

1	Module name 53500	Spezialfragen der Rechnungslegung Advanced financial accounting	5 ECTS
2	Courses / lectures	Vorlesung: Spezialfragen der Rechnungslegung (Master / Vorlesung) (2 SWS) Übung: Spezialfragen der Rechnungslegung (Master / Übung) (1 SWS)	5 ECTS -
3	Lecturers		

4	Module coordinator	Prof. Dr. Klaus Henselmann
5	Contents	Gegenstand der Veranstaltung ist die Behandlung komplexer Bilanzierungssachverhalte in der Rechnungslegung nach HGB und IFRS. Hierzu gehören u.a. die Abgrenzung von Eigen- und Fremdkapital, die Bilanzierung von Finanzinstrumenten sowie Sicherungsgeschäften, Pensionszusagen, Leasingverhältnisse und anteilsbasierte Vergütungsformen.
6	Learning objectives and skills	Die Studierenden verfügen in diesen Bereichen über umfassendes, detailliertes und spezialisiertes Wissen auf dem neuesten Erkenntnisstand einschließlich der praktischen Anwendung sowie eines kritischen Verständnisses der Theorien und Methoden. Dazu gehören sowohl die Lösungen nach HGB als auch nach IFRS einschließlich eines Verständnisses von Unterschieden und Gemeinsamkeiten. Die Studierenden sind in der Lage, die Aussagekraft der Rechnungslegung nach HGB und IFRS in Hinblick auf eine Abbildung der Realität zu beurteilen und die momentan geltenden Rechtsnormen kritisch zu hinterfragen. Die Studierenden können dieses Wissen kombinieren und zur umfassenden Beurteilung von konkreten Unternehmen aus der Praxis anwenden. Dazu gehört es auch, die erforderlichen Informationen zu beschaffen, Analysemodelle zu entwickeln, erforderliche Auswertungen auszuwählen, Vergleiche vorzunehmen, das Gesamtergebnis zu begründen und verteidigen sowie die Belastbarkeit der Ergebnisse zu hinterfragen. Die Studierenden können zugehörige Dokumente und Rechenwerke selbst erstellen oder ihnen vorgelegte Dokumente und Rechenwerke analysieren, beurteilen und die getroffenen Annahmen hinterfragen. [Die Studierenden können demnach Werturteile abgeben, Vergleiche heranziehen und richtige Schlussfolgerungen ziehen, Prognosen erstellen und die eigenen Aussagen rechtfertigen, komplexe Problemstellungen erkennen und auf Basis der gewonnenen Erfahrung analysieren.
7	Prerequisites	Grundkenntnisse der handelsrechtlichen und internationalen Rechnungslegung
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Miscellaneous Master of Science Economics 20212
10	Method of examination	Written examination (90 minutes)
11	Grading procedure	Written examination (100%)

12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h
14	Module duration	1 semester
15	Teaching and examination language	german
16	Bibliography	Literatur wird im Rahmen der Veranstaltung bekannt gegeben.

1	Module name 53521	Kostenträger I Health insurance I: Statutory health insurance	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Oliver Schöffski	
5	Contents	Diese Veranstaltung ist als Einstiegsveranstaltung in das MiGG-Studium konzipiert. Neben einem Überblick über das gesamte Studienprogramm wird hier in erster Linie das Gesundheitssystem als Ganzes sowie die Gesetzliche Krankenversicherung (GKV) mit den Krankenkassen als Träger behandelt. Thematisiert werden beispielsweise der Versichertenkreis der GKV, der Leistungsumfang und die Finanzierung (Gesundheitsfonds, Morbi-RSA).	
6	Learning objectives and skills	Die Studierenden <ul style="list-style-type: none"> erwerben ein vertieftes Verständnis über das Zusammenspiel der für das Gesundheitswesen zentralen Akteure auf der Kostenträger- und der Leistungserbringerseite, werden in die Lage versetzt, dieses Zusammenspiel eingehend zu analysieren, antizipieren künftige Entwicklungen im Bereich der gesetzlichen Krankenversicherungen. 	
7	Prerequisites	Keine	
8	Integration in curriculum	no Integration in curriculum available!	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	Written examination with multiple choice (60 minutes)	
11	Grading procedure	Written examination with multiple choice (100%)	
12	Module frequency	Only in winter semester	
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h	
14	Module duration	1 semester	
15	Teaching and examination language	german	
16	Bibliography	<ul style="list-style-type: none"> Lampert, H. / Althammer, J./ Sommer, M.: Lehrbuch der Sozialpolitik, 10. Aufl., Heidelberg, 2021. Busse, R., Schreyögg, J., Stargadt, T. (Hrsg.): Management im Gesundheitswesen, 5. Aufl., Berlin 2022. Sozialgesetzbuch, insbesondere SGB V 	

1	Module name 53531	Pharmamanagement I	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Oliver Schöffski
5	Contents	In dieser Veranstaltung werden insbesondere die Akteure in der Arzneimittelversorgung sowie die verschiedenen Wertschöpfungsstufen der pharmazeutischen Industrie von den Arzneimittelherstellern, über den Großhandel hin zu den Apotheken thematisiert. Vertieft werden die Themenbereiche regulatorische Rahmenbedingungen, Geschäftsmodelle, strategische Fragestellungen sowie Forschung- und Entwicklung, Zulassung und Preisfindung (AMNOG-Prozess) von Arzneimitteln.
6	Learning objectives and skills	Die Studierenden <ul style="list-style-type: none"> • erschließen die Komplexität der pharmazeutischen Branche und die Wechselwirkungen zwischen den Branchenakteuren • analysieren klinische Studien und deren Bedeutung für die Vermarktung von Arzneimitteln • vertiefen ihre Kenntnisse anhand aktueller Fallbeispiele, für die sie eigenständig Lösungen entwickeln
7	Prerequisites	Keine
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Miscellaneous Master of Science Economics 20212
10	Method of examination	Written examination (60 minutes)
11	Grading procedure	Written examination (100%)
12	Module frequency	Only in winter semester
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h
14	Module duration	1 semester
15	Teaching and examination language	german english
16	Bibliography	<ul style="list-style-type: none"> • Schöffski, O. / Fricke, F. U. / Guminski, W. (Hrsg.): Pharmabetriebslehre, 2. Aufl., Berlin u. a., 2008. Fischer, D., Breitenbach, J. (Hrsg.): Die Pharmaindustrie, 4. Aufl., Berlin u.a., 2013 • Busse, R., Schreyögg, J., Stargardt, T. (Hrsg.): Management im Gesundheitswesen, 4. Aufl., Berlin u.a., 2017

1	Module name 53541	Krankenhausmanagement I Hospital management I	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Oliver Schöffski	
5	Contents	Gegenstand dieser Veranstaltung ist der stationäre Sektor im Gesundheitswesen. Krankenhäuser zu managen, ist angesichts ihrer hohen Komplexität eine besondere Herausforderung. Es werden Verfahren vermittelt, mit denen dies erfolgreich gelingen kann. Neben geeigneten Managementtechniken werden maßgeschneiderte Verfahren des mathematisch gestützten Operations Research behandelt.	
6	Learning objectives and skills	<p>Die Studierenden</p> <ul style="list-style-type: none"> • stellen den Krankensektor als zentrales Element des Gesundheitswesens dar, • ordnen die beteiligten Interessens- und Betroffenengruppen, welche häufig gegenläufige Ziele haben, ein, • würdigen die Komplexität des Systems Krankenhaus auf der Grundlage von Fallstudien und Beispielen aus der realen Krankenhauswelt, • arbeiten eigene Lösungsvorschläge aus, stellen diese im Plenum vor und erhalten ein konstruktives Feedback dazu. 	
7	Prerequisites	keine	
8	Integration in curriculum	no Integration in curriculum available!	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	Written examination with multiple choice (60 minutes)	
11	Grading procedure	Written examination with multiple choice (100%)	
12	Module frequency	Only in winter semester	
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h	
14	Module duration	1 semester	
15	Teaching and examination language	german	
16	Bibliography	Werden zu Beginn der Veranstaltung bekannt gegeben.	

1	Module name 53551	Ambulantes Management I Outpatient management I	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Oliver Schöffski	
5	Contents	Die Veranstaltung beschäftigt sich mit der ambulanten Versorgung in Deutschland, wobei der Schwerpunkt auf der vertragsärztlichen Versorgung liegt. Konkret geht es hierbei beispielsweise um die beteiligten Akteure und deren Aufgaben, die verschiedenen Organisationsformen sowie um Fragen der Finanzierung und Vergütung. Die Beschäftigung mit den aktuellen Herausforderungen sowie den neuen Versorgungsformen (z. B. Besondere Versorgung, hausarztzentrierte Versorgung, usw.) bildet einen weiteren Themenkomplex. Diese Veranstaltung ist zum einen durch einen informativen Charakter geprägt, zum anderen trägt sie zum Aufbau des kritischen Denkens bei Studierenden im Rahmen des komplexen Gesundheitssystems bei. Sie verbindet außerdem die Theorie und Praxis und trägt so zu nachhaltigen Entwicklungen bei.	
6	Learning objectives and skills	Die Studierenden <ul style="list-style-type: none"> • erhalten einen detaillierten Einblick in die verschiedenen Facetten der ambulanten und integrierten Versorgung und können diese diskutieren und gegenüberstellen • können insbesondere die bestehenden Organisationsformen erläutern sowie die Entstehung neuer Versorgungsformen erklären und bewerten • verstehen die Finanzflüsse und die bestehenden Strukturen bzw. Institutionen im ambulanten Bereich und können diese hinterfragen 	
7	Prerequisites	keine	
8	Integration in curriculum	no Integration in curriculum available!	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	Written examination (60 minutes)	
11	Grading procedure	Written examination (100%)	
12	Module frequency	Only in winter semester	
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h	
14	Module duration	1 semester	
15	Teaching and examination language	german	
16	Bibliography	<ul style="list-style-type: none"> • Busse, R., Schreyögg, J., Stargadt, T. (Hrsg.) Management im Gesundheitswesen, 5. Aufl. Berlin Heidelberg, 2022. 	

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| | <ul style="list-style-type: none">• Weatherly, J.N., Seiler, R., Meyer-Lutterloh K., Schmid, E., Lägel, R., Amelung, V.E.: Leuchtturmprojekte Integrierter Versorgung und Medizinischer Versorgungszentren, Berlin, 2007.• Sozialgesetzbuch, insbesondere SGB V.• Amelung, V.E., Eble, S., Hildebrandt, H.: Innovatives Versorgungsmanagement, Berlin, 2011. |
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1	Module name 53561	Medizin Medicine	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Oliver Schöffski	
5	Contents	Medizinische Grundlagen für Wirtschaftsstudierende, insb. medizinische Terminologie, fachübergreifende Interdisziplinarität im Gesundheitswesen, Anatomie, Physiologie und Pathologie der wichtigsten Organsysteme, Diagnostik am Beispiel des Bewegungsapparats (incl. Anamnese, Untersuchungstechniken, ärztliche Arbeitstechniken, Medizintechnik), Therapien am Beispiel des Bewegungsapparats (insb. operative und konservative Therapien), Notfallmedizin. Außerdem Überblick über volkswirtschaftlich und epidemiologisch wichtige Erkrankungen, Krankheitsbilder und Symptome, diagnostische und therapeutische Möglichkeiten mit praktischen Beispielen.	
6	Learning objectives and skills	Die Studierenden <ul style="list-style-type: none"> • erlangen Kenntnisse über medizinische Grundlagen • erlangen ein Verständnis über die Bedarfe in der Behandlung von Patienten • erlangen Wissen zu Methoden medizinischer Forschung, ethischen und rechtlichen Aspekten sowie zur Berufskunde 	
7	Prerequisites	keine	
8	Integration in curriculum	no Integration in curriculum available!	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	Written examination with multiple choice (60 minutes)	
11	Grading procedure	Written examination with multiple choice (100%)	
12	Module frequency	Only in winter semester	
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h	
14	Module duration	1 semester	
15	Teaching and examination language	german	
16	Bibliography	Wird zu Beginn der Veranstaltung bekannt gegeben.	

1	Module name 53640	Industrielles Management Industrial management	5 ECTS
2	Courses / lectures	Vorlesung: Industrielles Management (2 SWS)	5 ECTS
3	Lecturers	Viktoria Leutheuser Prof. Dr. Kai-Ingo Voigt	

4	Module coordinator	Prof. Dr. Kai-Ingo Voigt	
5	Contents	Die Veranstaltung bietet einen tiefergehenden Einblick in das Management industrieller Unternehmen. Betrachtet werden nicht nur bisherige theoretische und empirische Erkenntnisse, sondern insbesondere auch aktuelle Managementaufgaben und -methoden in einem Industriebetrieb. Die Erkenntnisse zum industriellen Management werden mit einem praktischen und aktuellen Schwerpunktthema verknüpft, um so einen Anwendungsbezug darzustellen.	
6	Learning objectives and skills	Die Studierenden erwerben ein umfassendes, detailliertes sowie spezialisiertes Wissen auf dem neuesten Erkenntnisstand aus dem Bereich des industriellen Managements und die Fähigkeit, strategisch zu denken. Durch die tiefergehende Analyse eines praxisrelevanten Schwerpunktthemas erhalten die Studierenden zudem einen tiefergehenden Einblick in die aktuellen Problemfelder und Herausforderungen von Industrieunternehmen. Die erworbenen analytischen und konzeptionellen Fertigkeiten befähigen die Studierenden, komplexe betriebswirtschaftliche Fragestellungen eigenständig zu bearbeiten.	
7	Prerequisites	Keine	
8	Integration in curriculum	no Integration in curriculum available!	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	Written examination (60 minutes)	
11	Grading procedure	Written examination (100%)	
12	Module frequency	Only in summer semester	
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h	
14	Module duration	1 semester	
15	Teaching and examination language	german	
16	Bibliography	Voigt, K.-I.: Industrielles Management, Berlin u. a., 2008.	

1	Module name 53651	Global operations strategy	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Kai-Ingo Voigt	
5	Contents	<p>During the past decades, operations have become increasingly international or even global in nature. Drivers of the globalization include increased competitiveness through offshore manufacturing and global sourcing.</p> <p>During this module, the increasing complexity and the challenges of operations on a global scale will be discussed together with the participants. The theory modules at the beginning structure the options of a general operations strategy and illustrate its implementation in the organization.</p> <p>The subject specific modules, elaborated by the participants, enable a profound understanding of single activity areas of global operations and their relation to the global operations strategy. Therewith the students will get insights in the importance of an integrated global operations strategy and will become familiar with the main strategic options in this field.</p> <p><i>All participants have to register in advance on StudOn! The registration for GOS on StudOn starts in early October. The number of participants is limited to 70.</i></p>	
6	Learning objectives and skills	<p>Participation in the first seminar session is mandatory, as the topics for the teamwork are chosen during this session by the participants. In the following weeks, based on own research using scientific sources, key topics are elaborated in teams. Following predefined learning targets, the students need to structure the elaborated content in an academic presentation and present their results in class. Thereby, the teams are responsible for developing a didactic concept in order to support the understanding of the discussed topics. Furthermore, the participants are required to document their research method as well as their results. After the course, the participants are able to discuss the functions and impact of operations management in an international context.</p>	
7	Prerequisites	None	
8	Integration in curriculum	no Integration in curriculum available!	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	Presentation	
11	Grading procedure	Presentation (100%)	
12	Module frequency	Only in winter semester	
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h	

14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Abele, E. et al. (2008): Global Production. A Handbook for Strategy and Implementation. Berlin: Springer. Reid, R. D. & Sanders N. R. (newest ed.): Operations Management. Hoboken: Wiley & Sons. Slack, N. & Lewis, M. (newest ed.): Operations Strategy. Harlow: PrenticeHall.

1	Module name 53710	Foundations of international management I	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Dirk Holtbrügge
5	Contents	1. Environment of International Management: History and Major Trends 2. Theoretical and Conceptual Foundations of International Management 3. Theories of Internationalization 4. Strategic Management in International Corporations.
6	Learning objectives and skills	The participants understand and analyze typical management problems of international firms. The participants will get to know modern theories and methods of international management and will be able to apply these to practical problems. They get a detailed overview of the current state of international management research and are able to evaluate theoretical and empirical studies in this area critically.
7	Prerequisites	English language proficiency (C1)
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Miscellaneous Master of Science Economics 20212
10	Method of examination	Report Presentation <i>Details for the examination for the lecture: Report (6 pages)</i> <i>Details for the examination for the seminar: Oral presentation (attendance mandatory)</i>
11	Grading procedure	Report (80%) Presentation (20%)
12	Module frequency	Only in winter semester
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Holtbrügge, D. & Welge, M.K. (2020). International Management. Mimeo, Nürnberg (chapters 1-4). Holtbrügge, D. & Haussmann, H. (eds.) (2024). Internationalization Strategies of Firms. Case Studies from the Nürnberg Metropolitan Region. 3rd edition. Baden-Baden: Nomos.

1	Module name 53720	Foundations of international management II	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Dirk Holtbrügge	
5	Contents	1. Organization of International Corporations 2. Human Resource Management in International Corporations 3. Public Affairs Management in International Corporations	
6	Learning objectives and skills	The participants understand and analyze typical management problems of international firms. The participants will get to know modern theories and methods of international management and will be able to apply these to practical problems. They get a detailed overview of the current state of international management research and are able to evaluate theoretical and empirical studies in this area critically.	
7	Prerequisites	Successful attendance of Foundations of International Management I English language proficiency (C1)	
8	Integration in curriculum	no Integration in curriculum available!	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	Presentation Report <i>Details for the examination for the lecture: Report (6 pages)</i> <i>Details for the examination for the seminar: Oral presentation (attendance mandatory)</i>	
11	Grading procedure	Presentation (20%) Report (80%)	
12	Module frequency	Only in winter semester	
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h	
14	Module duration	1 semester	
15	Teaching and examination language	english	
16	Bibliography	Holtbrügge, D. & Welge, M.K. (2020): International Management. Mimeo, Nürnberg (chapters 5, 6 & 8). Holtbrügge, D. & Haussmann, H. (eds.) (2024). Internationalization Strategies of Firms. Case Studies from the Nürnberg Metropolitan Region. 3rd edition. Baden-Baden: Nomos.	

1	Module name 53730	Corporate strategy	5 ECTS
2	Courses / lectures	Seminar: Corporate Strategy (3 SWS)	5 ECTS
3	Lecturers	Prof. Dr. Sebastian Junge	

4	Module coordinator	Prof. Dr. Sebastian Junge	
5	Contents	<p>This interactive course teaches the basic principles of strategic management at the corporate level (economic theories and multibusiness firms, value management, parenting advantage). In addition, elementary corporate management topics such as diversification and portfolio planning are addressed. In times of digital change, it is even more essential to identify suitable strategic initiatives in order to successfully strengthen and sustainably defend one's own position. In this context, measures such as mergers, acquisitions and divestments at group level will be discussed. Increased relevance is given to challenges that arise for corporations on the basis of the digital transformation. For this purpose, platform operators are analyzed as examples, but also dynamic industries such as financial services or the automotive sector are examined. The students work in teams on a current issue related to the above-mentioned content and develop a presentation and a written assignment.</p>	
6	Learning objectives and skills	<p>At the end of the course, students will be able to</p> <ul style="list-style-type: none"> • assess various concepts and instruments of strategic management at corporate level against the background of digital trends and current research findings and apply them to specific issues; • present complex issues in a structured way in front of third parties as well as find convincing solution proposals and defend them argumentatively; • develop a written assignment on a current issue from the field of corporate strategies and to prepare it in an application-oriented manner; • deepen their skills in teamwork; • deal rationally and responsibly with conflicts of interest and communication in the context of group work and to recognize differences in patterns of thought and action and use them to find solutions in a goal-oriented manner. 	
7	Prerequisites	<p>Prior participation in the module Business Strategy is recommended. The number of participants is limited and an application for the module is necessary! The application process will be announced via the homepage. https://www.unternehmensfuehrung.rw.fau.de/studium-lehre-2/aktuelle-lehre/corporate-strategy/</p>	
8	Integration in curriculum	no Integration in curriculum available!	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	Presentation/written assignment	
11	Grading procedure	Presentation/written assignment (100%)	

		The module grade is weighted according to 50% presentation (approx. 25 minutes) and 50% written assignment (approx. 15 pages).
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Hungenberg, H.: Strategisches Management in Unternehmen, 8. Aufl., Wiesbaden, 2014. Additional literature will be announced at the beginning of the course.

1	Module name 53763	Supply chain management research seminar	5 ECTS
2	Courses / lectures	Seminar: Supply chain management research seminar (2 SWS)	5 ECTS
3	Lecturers	Prof. Dr.-Ing. Eva Maria Hartmann Simon Voß	

4	Module coordinator	Prof. Dr.-Ing. Eva Maria Hartmann	
5	Contents	Gegenstand dieser Veranstaltung stellen wechselnde Themen aus Forschung und Praxis im Supply Chain Management dar. Dieses Seminar soll dazu dienen, aktuelle Forschungsfragen und Konzepte im Supply Chain Management anwendungsorientiert zu bearbeiten. Anhand wissenschaftlicher Methoden sollen diese Forschungsansätze aufbereitet und abschließend deren mögliche Übertragung in die Praxis diskutiert werden.	
6	Learning objectives and skills	Die Studierenden erlangen vertiefte Kenntnisse im Bereich der Forschung im Supply Chain Management und deren Auswirkungen auf die Praxis und die Fähigkeit, vorgestellte Theorien zu verstehen. Sie erlernen durch die eigenständige Bearbeitung wechselnder, forschungsorientierter Themen eine analytische Vorgehensweise und spezifische Fachkenntnisse zur Argumentation und Erstellung einer wissenschaftlichen Arbeit.	
7	Prerequisites	None	
8	Integration in curriculum	no Integration in curriculum available!	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	Presentation Seminar paper	
11	Grading procedure	Presentation (30%) Seminar paper (70%)	
12	Module frequency	Every semester	
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h	
14	Module duration	1 semester	
15	Teaching and examination language	german english	
16	Bibliography	Wird im Kurs bekanntgegeben.	

1	Module name 53770	Finanz- und Bankmanagement Financial and bank management	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Hendrik Scholz	
5	Contents	<ul style="list-style-type: none"> • Klassische Ansätze zum Management von Marktzinsrisiken • Darstellung und Bewertung moderner Finanzinstrumente und Finanzprodukte (z.B. Optionen, Futures, Forwards und Swaps) • "Value at Risk" zur Messung finanzieller Risiken • Aufbau und Funktion von Finanzsystemen • Steuerungssysteme für Finanzunternehmen 	
6	Learning objectives and skills	<p>Die Studierenden</p> <ul style="list-style-type: none"> • ermitteln Zinsrisiken von Anleiheportfolios und beurteilen Instrumente zur Reduktion von Zinsrisiken und deren Einsatz aus Kundensicht. • können diverse Fixed-Income Produkte wie Kupon-Anleihen, Floating Rates Notes und Zinsswaps bewerten und deren Chancen-Risiko-Profile beurteilen. • bestimmen die Kennzahl "Value at Risk" für Portfolios und unter Anwendung verschiedene Konzepte der Volatilitätsschätzung. • können den generellen Aufbau und die Funktion des Banken- und Finanzsystems erläutern • beurteilen auf Basis der Marktzinsmethode die Geschäftspolitik einer Bank. 	
7	Prerequisites	Keine	
8	Integration in curriculum	semester: 1	
9	Module compatibility	Miscellaneous Master of Science Economics 2012 Specialisation: Macroeconomics and Finance Master of Science Economics 2012	
10	Method of examination	Written examination (60 minutes)	
11	Grading procedure	Written examination (100%)	
12	Module frequency	Only in winter semester	
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h	
14	Module duration	1 semester	
15	Teaching and examination language	german	
16	Bibliography	Hartmann-Wendels, T. / Pfingsten, A. / Weber, M.: Bankbetriebslehre, Berlin u.a.	

Weitergehende, forschungsbezogene Literatur wird im Rahmen der Veranstaltung bekannt gegeben.

1	Module name 53800	Sonderbilanzen und Sonderprüfungen Accounting and auditing for special events	5 ECTS
2	Courses / lectures	Vorlesung: Sonderbilanzen und Sonderprüfungen (Master / Vorlesung) (nur Vorlesung aus dem WS) (2 SWS)	5 ECTS
3	Lecturers		

4	Module coordinator	Prof. Dr. Klaus Henselmann	
5	Contents	Gegenstand der Veranstaltung sind Situationen, in denen die Aufstellung einer Sonderbilanz oder eine Sonderprüfung des Unternehmens verpflichtend zu erfolgen hat oder freiwillig erfolgen kann. Hierzu gehören u.a. Gründung, Kapitalbeschaffung, Kauf und Verkauf, Börseneinführung, Unternehmenskrisen, Insolvenz, Sanierung, Strukturänderungen sowie Auseinandersetzung und Liquidation.	
6	Learning objectives and skills	<p>Die Studierenden verfügen in diesen Bereichen über umfassendes, detailliertes und spezialisiertes Wissen auf dem neuesten Erkenntnisstand einschließlich der praktischen Anwendung sowie eines kritischen Verständnisses der Theorien und Methoden. Dazu gehören sowohl die Lösungen nach HGB als auch nach IFRS einschließlich eines Verständnisses von Unterschieden und Gemeinsamkeiten.</p> <p>Die Studierenden sind in der Lage die Aussagekraft der Rechnungslegung nach HGB und IFRS in Hinblick auf eine Abbildung der Realität zu beurteilen und die momentan geltenden Rechtsnormen kritisch zu hinterfragen.</p> <p>Die Studierenden können dieses Wissen kombinieren und zur umfassenden Beurteilung von konkreten Unternehmen aus der Praxis anwenden. Dazu gehört es auch, die erforderlichen Informationen zu beschaffen, Analysemodelle zu entwickeln, erforderliche Auswertungen auszuwählen, Vergleiche vorzunehmen, das Gesamtergebnis zu begründen und verteidigen sowie die Belastbarkeit der Ergebnisse zu hinterfragen.</p> <p>Die Studierenden können zugehörige Dokumente und Rechenwerke selbst erstellen oder ihnen vorgelegte Dokumente und Rechenwerke analysieren, beurteilen und die getroffenen Annahmen hinterfragen. [Die Studierenden können demnach Werturteile abgeben, Vergleiche heranziehen und richtige Schlussfolgerungen ziehen, Prognosen erstellen und die eigenen Aussagen rechtfertigen, komplexe Problemstellungen erkennen und auf Basis der gewonnenen Erfahrung analysieren.</p>	
7	Prerequisites	Grundkenntnisse der handelsrechtlichen und internationalen Rechnungslegung	
8	Integration in curriculum	no Integration in curriculum available!	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	Written examination (90 minutes)	
11	Grading procedure	Written examination (100%)	
12	Module frequency	Only in winter semester	

13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h
14	Module duration	1 semester
15	Teaching and examination language	german
16	Bibliography	Literatur wird im Rahmen der Veranstaltung bekannt gegeben.

1	Module name 53881	Abgabenordnung Tax Procedure	5 ECTS
2	Courses / lectures	Vorlesung: VL Abgabenordnung (2 SWS) Übung: Übung Abgabenordnung (2 SWS)	5 ECTS -
3	Lecturers	Sophia Piotrowski	

4	Module coordinator	Prof. Dr. Roland Ismer
5	Contents	<ul style="list-style-type: none"> • Ermittlung der Sachverhalte, die zu einer Besteuerung nach den Einzelsteuergesetzen wie EStG, KStG oder UStG führen • Festsetzung & Erhebung der Steuer • Rechte des Bürgers im Verfahren (v.a. Einspruchsverfahren) und sein Rechtsschutz (außergerichtlich und gerichtlich)
6	Learning objectives and skills	Die Studierenden kennen zum einen das Besteuerungsverfahren und können zum anderen die Möglichkeiten des Rechtsschutzes der Steuerpflichtigen gegen rechtswidrige Maßnahmen der Steuerbehörden anwenden. Weiterhin können die Studierenden unter Berücksichtigung der Systematik der Gesetze steuerliche Fallgestaltungen erfassen, beurteilen und systematisch lösen. Unter Anwendung juristischer Methoden auf fortgeschrittenem Niveau sowie Übertragung steuerrechtlicher Rechtsprechung und aktueller wissenschaftlicher Literatur können die Studierenden steuerliche Fallgestaltungen gutachterlich prüfen.
7	Prerequisites	Grundkenntnisse Steuerrecht
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Miscellaneous Master of Science Economics 20212
10	Method of examination	Written examination (90 minutes)
11	Grading procedure	Written examination (100%)
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 60 h Independent study: 90 h
14	Module duration	1 semester
15	Teaching and examination language	german
16	Bibliography	Birk, Steuerrecht; Jakob, Abgabenordnung; Tipke/Lang, Steuerrecht: jeweils aktuelle Auflage; weitergehende, forschungsbezogene Literatur wird im Rahmen der Veranstaltung bekannt gegeben.

1	Module name 53882	Umsatzsteuerrecht VAT	5 ECTS
2	Courses / lectures	Vorlesung: VL Umsatzsteuerrecht (2 SWS) Übung: Übung Umsatzsteuerrecht (2 SWS)	5 ECTS -
3	Lecturers	Quirin Jackl	

4	Module coordinator	Prof. Dr. Roland Ismer	
5	Contents	<p>Umsatzsteuerrecht auf nationaler sowie europäischer Ebene.</p> <ul style="list-style-type: none"> • steuerbare Leistungen • Steuerbefreiungen einschließlich Optionsmöglichkeiten • Bemessungsgrundlage • Festlegung des Steuerschuldners • Vorsteuerabzug • Besteuerungsverfahren • Anwendung der einschlägigen europäischen Rechtsakte, insbesondere der Mehrwertsteuersystemrichtlinie und der EuGH-Rechtsprechung 	
6	Learning objectives and skills	<p>Die Studierenden erschließen die sowohl für das Steueraufkommen als auch für die Beratungspraxis immer wichtigere Umsatzsteuer. Zudem beurteilen die Studierenden die Einwirkungen des Europarechts auf das innerstaatliche Recht. Weiterhin können die Studierenden unter Berücksichtigung der Systematik der Gesetze steuerliche Fallgestaltungen erfassen, beurteilen und systematisch lösen. Unter Anwendung juristischer Methoden auf fortgeschrittenem Niveau sowie Übertragung steuerrechtlicher nationaler und europäischer Rechtsprechung und aktueller wissenschaftlicher Literatur können die Studierenden steuerliche Fallgestaltungen gutachterlich prüfen.</p>	
7	Prerequisites	Grundkenntnisse Steuerrecht	
8	Integration in curriculum	no Integration in curriculum available!	
9	Module compatibility	Miscellaneous Master of Science Economics 2012	
10	Method of examination	Written examination (90 minutes)	
11	Grading procedure	Written examination (100%)	
12	Module frequency	Only in summer semester	
13	Workload in clock hours	Contact hours: 60 h Independent study: 90 h	
14	Module duration	1 semester	
15	Teaching and examination language	german	
16	Bibliography	Tipke/Lang, Steuerrecht; Terra/Kajus, A Guide to the European VAT Directive: jeweils aktuelle Auflage; Weitergehende, forschungsbezogene Literatur wird im Rahmen der Veranstaltung bekannt gegeben	

1	Module name 53910	Workshop: Finance	5 ECTS
2	Courses / lectures	Seminar: Workshop Finance (3 SWS) Die Anwesenheit in der Lehrveranstaltung ist Voraussetzung für die Prüfungsteilnahme.	5 ECTS
3	Lecturers	Prof. Dr. Hendrik Scholz	

4	Module coordinator	Prof. Dr. Hendrik Scholz
5	Contents	In diesem Seminar lesen, präsentieren und diskutieren die Studierenden aktuelle Forschungsarbeiten aus dem Gebiet der Finanzierung, die in international führenden Zeitschriften erscheinen bzw. erschienen sind.
6	Learning objectives and skills	Die Studierenden <ul style="list-style-type: none"> • erarbeiten sich in Gruppen durch eigenständige Recherche und Ausarbeitung von Präsentationen zu hochrangigen, internationalen Publikationen neues Wissen, das sie den Teilnehmern des Seminars vermitteln. • können ihre zuvor in Vorlesungen erworbenen theoretischen Kenntnisse im Rahmen interaktiver Präsentationen anwenden. • beurteilen quantitative Methoden, die in aktuellen Forschungsarbeiten zum Einsatz kommen und wenden ausgewählte Methoden an exemplarischen Datensätzen an. • geben und erhalten im Rahmen offener Diskussionen zu den Präsentationen ein wertschätzendes Feedback über die erbrachte Leistung.
7	Prerequisites	Vertiefte Kenntnisse im Bereich Finance
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Miscellaneous Master of Science Economics 20212
10	Method of examination	Written or oral Präsentation/Präsentationspapier (ca. 60-90 Min., tw. in Gruppenarbeit) und Diskussionsbeitrag (während der Veranstaltungstermine) <i>Es handelt sich um eine einheitliche Prüfung, bei der die einzelnen Teilleistungen untrennbar miteinander verbunden sind. Für das Bestehen des Moduls müssen nach § 19 Abs. 1 Satz 4 MPOWIWI in der jeweils geltenden Fassung alle Teilleistungen in demselben Semester bestanden werden. Wegen des untrennbaren Bezugs der Teilleistungen aufeinander ist abweichend von § 25 Abs. 1 Satz 2 MPOWIWI eine Wiederholung nur einer der nicht bestandenen Teilleistungen nicht möglich. Das Nichtbestehen einer der Teilleistungen erfordert die Wiederholung der gesamten Prüfung.</i>
11	Grading procedure	Written or oral (100%) Präsentation/Präsentationspapier (50 %) und Diskussionsbeitrag (50 %)
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h
14	Module duration	1 semester

15	Teaching and examination language	german
16	Bibliography	wird im Rahmen der Veranstaltung bekannt gegeben weitergehende, forschungsbezogene Literatur wird im Rahmen der Veranstaltung bekannt gegeben

1	Module name 53930	Prüfungstechnik Auditing rules and standards	5 ECTS
2	Courses / lectures	Vorlesung mit Übung: Prüfungstechnik (Master) (2 SWS)	5 ECTS
3	Lecturers		

4	Module coordinator	Prof. Dr. Peter Bömelburg
5	Contents	Inhalte der Veranstaltung sind Theorie und Praxis der Durchführung von Prüfungen, insbesondere Abschlussprüfungen. Dazu gehören Prüfungsarten im Überblick, Berufsrecht, Vorgaben zur Abschlussprüfung nach HGB und internationalen Standards, Planung und Durchführung der Abschlussprüfung, Qualitätssicherung, Besonderheiten der Konzernabschlussprüfung, Einsatz von IT bei der Prüfung.
6	Learning objectives and skills	Die Studierenden verfügen in diesen Bereichen über umfassendes, detailliertes und spezialisiertes Wissen auf dem neuesten Erkenntnisstand einschließlich der praktischen Anwendung sowie eines kritischen Verständnisses der Theorien und Methoden. Die Studierenden können dieses Wissen kombinieren und zur umfassenden Beurteilung von konkreten Situationen aus der Praxis anwenden. Dazu gehört es auch, die erforderlichen Informationen zu beschaffen, Analysemodelle zu entwickeln, erforderliche Auswertungen auszuwählen, Vergleiche vorzunehmen, das Gesamtergebnis zu begründen und verteidigen sowie die Belastbarkeit der Ergebnisse zu hinterfragen. Sie beherrschen Software zur Unterstützung des Prüfungsprozesses. Diese Kompetenz wird im Rahmen eines Tutoriums durch Übungen am PC mit speziell installierter Software vermittelt. Dazu ist die Anwesenheit notwendig.
7	Prerequisites	keine
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Miscellaneous Master of Science Economics 20212
10	Method of examination	Written examination (90 minutes)
11	Grading procedure	Written examination (100%)
12	Module frequency	Every semester
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h
14	Module duration	1 semester
15	Teaching and examination language	german
16	Bibliography	Wird im Rahmen der Veranstaltung bekannt gegeben

1	Module name 53965	Steuerbilanzen Tax balance sheet	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Frank Hechtner	
5	Contents	Das Modul stellt die unterschiedlichen Formen der steuerlichen Gewinnermittlung mittels des Betriebsvermögensvergleichs dar. Hierbei liegt der Fokus auf der steuerbilanziellen Gewinnermittlung mittels der Steuerbilanz. Inhaltlich wird auf die Themenkomplexe Formen der steuerlichen Gewinnermittlung, Konzeption der Steuerbilanz, Bilanzierung und Bewertung der aktiven und passiven Wirtschaftsgüter, Korrekturen des Bilanzergebnisses, Einkommensermittlung bei Mitunternehmenschaften, Sonder- und Ergänzungsbilanzen eingegangen.	
6	Learning objectives and skills	Die Studierenden können die unterschiedlichen Regelungen zur steuerlichen Gewinnermittlung mittels Betriebsvermögensvergleich anwenden. Sie können die Bemessungsgrundlage für die Ertragsteuern systematisch darstellen und insgesamt ermitteln. Darüber hinaus sind sie in der Lage, den steuerlichen Gewinn anhand einzelner Sachverhalte zu ermitteln. Ferner besitzen sie die Kompetenz, sich vertieft mit einzelnen steuerlichen Sondervorschriften zur Gewinnermittlung auseinandersetzen zu können.	
7	Prerequisites	Es wird empfohlen, dass die Veranstaltungen Steuerliche Gewinnermittlung und Unternehmenssteuerrecht belegt wurden.	
8	Integration in curriculum	no Integration in curriculum available!	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	Written examination (90 minutes)	
11	Grading procedure	Written examination (100%)	
12	Module frequency	Only in winter semester	
13	Workload in clock hours	Contact hours: 60 h Independent study: 90 h	
14	Module duration	1 semester	
15	Teaching and examination language	german	
16	Bibliography	Scheffler, W., Besteuerung von Unternehmen, Band II: Steuerbilanz, 9. Auflage 2018	

1	Module name 54120	Interdisziplinäres Seminar Interdisciplinary seminar	5 ECTS
2	Courses / lectures	Seminar: Interdisziplinäres Seminar	5 ECTS
3	Lecturers		

4	Module coordinator	Prof. Dr. Andreas Fürst	
5	Contents	Die Veranstaltung behandelt interdisziplinäre Fragestellungen des Marketings. Die genaue Themenstellung wird vor Semesterbeginn bekannt gegeben.	
6	Learning objectives and skills	Die Studierenden erlernen im Rahmen der Veranstaltung spezialisierte Fähigkeiten zur eigenständigen Strukturierung und Erarbeitung von Lösungsansätzen für interdisziplinäre Fragestellungen und erwerben darüber hinaus Soft Skills wie Team- und Diskussionsfähigkeit sowie Präsentationsfertigkeiten. Weiterhin können die Studierenden weitgehend selbstgesteuert forschungs- oder anwendungsorientierte Projekte auf Basis des im Rahmen der Veranstaltung vermittelten Fachwissens anwenden. Im Rahmen des Seminars wird eine wissenschaftliche Fragestellung eigenständig bearbeitet, ein Lösungsvorschlag nach kritischer Würdigung aller wesentlichen Aspekte entwickelt und auf wissenschaftlichem Niveau verteidigt. Die Studierenden sind dazu in der Lage, in vertiefter und kritischer Weise ihre Ergebnisse und deren Bedeutung zu reflektieren und Implikation daraus abzuleiten.	
7	Prerequisites	Keine	
8	Integration in curriculum	no Integration in curriculum available!	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	Seminar paper	
11	Grading procedure	Seminar paper (100%)	
12	Module frequency	Irregular	
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h	
14	Module duration	1 semester	
15	Teaching and examination language	german	
16	Bibliography	Wird in der Veranstaltung bekannt gegeben	

1	Module name 54141	Advanced marketing management II: Advanced topics in marketing	5 ECTS
2	Courses / lectures	Seminar: Advanced Topics in Marketing (2 SWS)	5 ECTS
3	Lecturers	Prof. Dr. Nicole Koschate-Fischer	

4	Module coordinator	Prof. Dr. Nicole Koschate-Fischer	
5	Contents	The module discusses recent insights from research on consumer behavior. Building upon theoretical and conceptual fundamentals, students acquire an advanced understanding of how marketing measures impact consumer experience and behavior. Implications for the industry are illustrated by various practical examples.	
6	Learning objectives and skills	Students can explain and apply fundamental as well as more advanced scientific evidence on the impact of marketing measures on consumer experience and behavior. They can interpret scientific studies, put them in context, and discuss them critically. Based on the acquired knowledge, students can independently derive practical implications and recommendations.	
7	Prerequisites	none; Please note that only a limited number of students can take the course. For further information on course registration, please see our homepage.	
8	Integration in curriculum	no Integration in curriculum available!	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	Written examination (60 minutes) Please note that the exam can only be taken during the summer term.	
11	Grading procedure	Written examination (100%)	
12	Module frequency	Only in summer semester	
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h	
14	Module duration	1 semester	
15	Teaching and examination language	english	
16	Bibliography	Hoyer, W. D., MacInnis, D. J., Pieters, R. (2023), Consumer Behavior, 8. Auflage, Cengage Learning.	

1	Module name 54162	Advanced marketing management IV	5 ECTS
2	Courses / lectures	Seminar: Strategisches Marketing (Master) (4 SWS)	5 ECTS
3	Lecturers	Prof. Dr. Martina Steul-Fischer	

4	Module coordinator	Prof. Dr. Martina Steul-Fischer	
5	Contents	Das strategische Marketing beinhaltet die langfristige Planung der Marketingmaßnahmen. In dieser Veranstaltung werden die Grundlagen des strategischen Marketings vorgestellt. Im Mittelpunkt stehen dabei die Instrumente des strategischen Marketings, wie z.B. Marktanalysen und Wettbewerbsstrategien. Praktische Erfahrungen im Bereich des strategischen Marketings werden den Studierenden durch die Teilnahme an einem Marketingplanspiel im Rahmen dieser Veranstaltung vermittelt.	
6	Learning objectives and skills	Die Studierenden können wissenschaftliche Grundlagen sowie spezialisiertes und vertieftes Fachwissen des strategischen Marketings erläutern und anwenden. Im Besonderen können sie in vertiefter und kritischer Weise Theorien, Terminologien, Besonderheiten, Grenzen und Lehrmeinungen des Faches erläutern, anwenden und reflektieren. Studierende können eigenständige Ideen und Konzepte zur Lösung wissenschaftlicher und praktischer Probleme im strategischen Marketing entwickeln und anhand eines Marketingplanspiels anwenden. Sie können komplexe fachbezogene Inhalte klar und zielgruppengerecht präsentieren, in Diskussionen argumentativ vertreten, sowie das eigene Argumentationsverhalten in kritischreflexiver Weise erweitern.	
7	Prerequisites	Die Teilnehmerzahl ist begrenzt. Bei mehr Anmeldungen als verfügbaren Plätzen werden Studierende, bei denen die Veranstaltung zum Kernbereich gehört, vorrangig behandelt. Bitte informieren Sie sich über die Anmeldeformalitäten auf der Homepage des Lehrstuhls.	
8	Integration in curriculum	no Integration in curriculum available!	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	<p>Seminar paper and presentation Written or oral</p> <p>Seminararbeit und Präsentation im Rahmen der Fallstudienbearbeitung (Gruppenleistungen):</p> <ul style="list-style-type: none"> - Seminararbeit: 7 Folien inklusive Titelfolie und Literaturangaben (5 Inhaltsfolien) - Präsentation + anschließende Diskussion: 20 Min <p>Strategiekonzept und Reflexion im Rahmen des Planspiels (Gruppenleistungen):</p> <ul style="list-style-type: none"> - Strategiekonzept: ca. 6 Seiten - Reflexion + anschließende Diskussion: 25 - 30 Min 	
11	Grading procedure	Seminar paper and presentation (50%) Written or oral (50%)	

		50%: Seminararbeit (30%) + Präsentation (20%) 50%: Strategiekonzept (30%) + Reflexion (20%)
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h
14	Module duration	1 semester
15	Teaching and examination language	german
16	Bibliography	Backhaus, K., Schneider, H. (2020): Strategisches Marketing, 3., überarb. Aufl., Stuttgart. Benkenstein, M., Uhlrich, S. (2021): Strategisches Marketing: Ein wettbewerbsorientierter Ansatz, 4., erw. und aktual. Aufl., Stuttgart.

1	Module name 54171	Advanced marketing management V	5 ECTS
2	Courses / lectures	Vorlesung: Business-to-business Marketing (Vorlesung) (2 SWS) Seminar: Business-to-Business Marketing (Case Study) (1 SWS)	2,5 ECTS 2,5 ECTS
3	Lecturers	Prof. Dr. Andreas Fürst	

4	Module coordinator	Prof. Dr. Andreas Fürst	
5	Contents	In vielen Branchen (z.B. Konsumgüterbranche, Handel, verarbeitendes Gewerbe) findet ein wesentlicher Teil der Transaktionen zwischen Unternehmen und organisationalen Kunden (wiederum Unternehmen bzw. öffentliche Institutionen) statt. Die Veranstaltung verdeutlicht die Besonderheiten des Business-to-Business Marketing auf Nachfrager- und Anbieterseite. Die Studierenden lernen im Rahmen der Vorlesung zunächst Strukturen, Prozesse und Akteure auf B2B-Märkten kennen. Vor diesem Hintergrund entwickeln sie im zweiten Teil der Veranstaltung Lösungsansätze zu ausgewählten Fallstudien aus der Praxis.	
6	Learning objectives and skills	Die Studierenden verfügen über vertiefendes, detailliertes und spezialisiertes Wissen im Fach Business-to-Business Marketing. Sie können die Besonderheiten des Business-to-Business Marketings auf Nachfrager- und Anbieterseite erläutern und kritisch hinterfragen. Darüber hinaus können sie im Rahmen der Be- bzw. Erarbeitung von Fallstudien das in der Vorlesung vermittelte Wissen vertiefen und praktisch anwenden. Sie können neue Lösungskonzepte entwickeln und auf einem wissenschaftlichen Niveau verteidigen. Durch die Be- bzw. Erarbeitung der Fallstudien in Kleingruppen können die Studierenden kooperativ und verantwortlich arbeiten sowie das eigene Kooperationsverhalten in Gruppen kritisch reflektieren und erweitern.	
7	Prerequisites	Keine; Die Teilnehmendenzahl ist begrenzt. Bei mehr Anmeldungen als verfügbaren Plätzen werden Studierende, bei denen die Veranstaltung zum Pflichtbereich gehört, vorrangig behandelt. Bitte informieren Sie sich über die Anmeldeformalitäten auf der Homepage des Lehrstuhls.	
8	Integration in curriculum	no Integration in curriculum available!	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	Written examination Case study Umfang der Leistungen: Klausur: 60 Minuten Fallstudie(n): Abgabe einer Präsentation, Umfang 10-20 Folien, in Gruppenarbeit	
11	Grading procedure	Written examination (50%) Case study (50%)	
12	Module frequency	Only in summer semester	
13	Workload in clock hours	Contact hours: 30 h	

		Independent study: 120 h
14	Module duration	1 semester
15	Teaching and examination language	german
16	Bibliography	<ul style="list-style-type: none"> • Backhaus, K., Voeth, M. (2014), Industriegütermarketing, 10. Aufl., München. Homburg, Ch. (2020), • Marketingmanagement: Strategie Instrumente Umsetzung Unternehmensführung, 7. Aufl., Wiesbaden.

1	Module name 54230	Berufs- und wirtschaftspädagogischer Wahlbereich Electives in vocational and business education	5 ECTS
2	Courses / lectures	Seminar: Wahlseminar D - Resilienz und Stressmanagement für den Lehrberuf (2 SWS) Seminar: Wahlseminar E - Lernsituationen digital transformieren und gestalten	5 ECTS -
3	Lecturers	Prof. Dr. Nicole Kimmelman	

4	Module coordinator	Prof. Dr. Nicole Kimmelman Prof. Dr. Karl Wilbers	
5	Contents	a) Seminar A (Wilbers) Im Seminar werden aktuelle Problemstellungen aus der Berufs- und Wirtschaftspädagogik bearbeitet. b) Seminar B (Kimmelman) Im Seminar werden ausgewählte Problemstellungen aus der Wirtschaftspädagogik oder Personalentwicklung vertiefend bearbeitet. c) Seminar C (Wilbers) Projektseminar zu aktuellen Themen der Personalentwicklung in Zusammenarbeit mit Unternehmen c) Seminar D (Kimmelman) Im Seminar werden Herausforderungen und hierfür mögliche Strategien im Zusammenhang mit der eigenen zukünftigen Lehrtätigkeit/ Lehrpersönlichkeit vertieft bearbeitet.	
6	Learning objectives and skills	a) Seminar A (Wilbers) Die Studierenden bearbeiten aktuelle Problemstellungen aus der Berufs- und Wirtschaftspädagogik mit wissenschaftlichen Methoden und den Hilfsmitteln und Verfahren der berufs- und wirtschaftspädagogischen Didaktik. b) Seminar B (Kimmelman) Die Studierenden bearbeiten aktuelle Problemstellungen aus der Wirtschaftspädagogik oder Personalentwicklung mit wissenschaftlichen Methoden und/oder den Hilfsmitteln/Verfahren der berufs- und wirtschaftspädagogischen Didaktik sowie innovativer interdisziplinärer Ansätze. c) Seminar C (Wilbers) Die Studierenden bearbeiten aktuelle Problemstellungen aus der Personalentwicklung mit wissenschaftlichen Methoden und leisten einen Transfer für die betriebliche Praxis in Kooperation mit Unternehmen. d) Seminar D (Kimmelman) Die Studierenden setzen sich mit Herausforderungen der zukünftigen Lehrtätigkeit bzw. Lehrpersönlichkeit auseinander und entwickeln hierfür eigene langfristige, reflektierte Strategien.	
7	Prerequisites	Anmeldung erforderlich, Ankündigungen und Anmeldeformulare stehen Anfang September auf der Homepage des Lehrstuhls	
8	Integration in curriculum	no Integration in curriculum available!	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	Portfolio	

		<p>Written assignment Written assignment Written assignment Written assignment Written assignment Portfolio a) Seminar A (Wilbers) Hausarbeit b) Seminar B (Kimmelman) Hausarbeit c) Seminar C (Wilbers) Hausarbeit d) Seminar D (Kimmelman) Hausarbeit</p>
11	Grading procedure	<p>Portfolio (100%) Written assignment (100%) Written assignment (100%) Written assignment (100%) Written assignment (100%) Written assignment (100%) Portfolio (100%) a) Seminar A (Wilbers) 100 % Hausarbeit = 5 ECTS b) Seminar B (Kimmelman) 100% Hausarbeit = 5 ECTS c) Seminar C (Wilbers) 100 % Hausarbeit = 5 ECTS d) Seminar D (Kimmelman) 100 % Hausarbeit = 5 ECTS</p>
12	Module frequency	Every semester
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h
14	Module duration	1 semester
15	Teaching and examination language	german english
16	Bibliography	siehe Ankündigungen und Downloads zu den Seminaren

1	Module name 54251	Konzernrechnungslegung Accounting for consolidated financial statements	5 ECTS
2	Courses / lectures	Vorlesung: Konzernrechnungslegung (Master / Vorlesung) (nur Vorlesung aus dem WS) (2 SWS) Übung: Konzernrechnungslegung (Master / Übung) (nur Übung aus dem WS) (1 SWS)	5 ECTS -
3	Lecturers		

4	Module coordinator	Prof. Dr. Klaus Henselmann	
5	Contents	<p>Inhalte der Veranstaltung sind ausgehend vom ökonomischen Zweck der Konzernrechnungslegung die Rechtsgrundlagen und die konkrete Ausgestaltung der Rechnungslegung nach HGB sowie nach IFRS. Hierzu gehören die bilanztheoretischen Grundlagen sowie die wichtigsten Konsolidierungsfragen (Pflicht zur Erstellung eines Konzernabschlusses, Konsolidierungskreis, Zweckgesellschaften, Tochterunternehmen und Vollkonsolidierung, Gemeinschaftsunternehmen und Quotenkonsolidierung, Assoziierte Unternehmen und Equity-Methode, Forderungs- und Schuldenkonsolidierung, Aufwands- und Ertragskonsolidierung, Zwischengewinneliminierung, abweichende Stichtage, Währungsumrechnung, Latente Steuern, PPA, Anteilstausch, Konzernbilanzpolitik, komplexe Konzernstrukturen.</p>	
6	Learning objectives and skills	<p>Die Studierenden verfügen in diesen Bereichen über umfassendes, detailliertes und integriertes Wissen auf dem neuesten Erkenntnisstand einschließlich der praktischen Anwendung sowie eines kritischen Verständnisses der Theorien und Methoden.</p> <p>Die Studierenden können dieses Wissen kombinieren und zur umfassenden Lösung von Konsolidierungssachverhalten aus der Praxis verknüpfen.</p> <p>Dazu gehören sowohl die Lösungen nach HGB als auch nach IFRS einschließlich eines Verständnisses von Unterschieden und Gemeinsamkeiten.</p> <p>Die Studierenden sind in der Lage die Aussagekraft der Konzernrechnungslegung nach HGB und IFRS in Hinblick auf eine Abbildung der Realität zu beurteilen und die momentan geltenden Rechtsnormen kritisch zu hinterfragen.</p> <p>Die Studierenden können demnach Werturteile abgeben, Vergleiche heranziehen und richtige Schlussfolgerungen ziehen, Prognosen erstellen und die eigenen Aussagen rechtfertigen, komplexe Problemstellungen erkennen und auf Basis der gewonnenen Erfahrung analysieren.</p>	
7	Prerequisites	keine	
8	Integration in curriculum	no Integration in curriculum available!	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	Written examination (60 minutes)	
11	Grading procedure	Written examination (100%)	

12	Module frequency	Only in winter semester
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h
14	Module duration	1 semester
15	Teaching and examination language	german
16	Bibliography	Wird im Rahmen der Veranstaltungen bekannt gegeben

1	Module name 54290	Kapitalmarktorientierte Unternehmenssteuerung Corporate management and capital markets	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Hendrik Scholz	
5	Contents	<ul style="list-style-type: none"> • Bewertung von Unternehmen (vorrangig DCF-Verfahren) • risikoorientierte Kennzahlen zur Aktienanalyse • risikoorientierte Steuerungskonzepte • Risikopolitik von Unternehmen und Banken • Instrumente zur Sicherung der Währungsrisiken von Unternehmen 	
6	Learning objectives and skills	<p>Die Studierenden</p> <ul style="list-style-type: none"> • bestimmen über DCF-Verfahren den Wert von Unternehmen bei Berücksichtigung unterschiedlicher Finanzierungspolitiken. • können die Performance von Aktienportfolios sowie Unternehmenssegmenten auf Basis fortgeschrittener Performance- und Risikokennzahlen beurteilen, miteinander vergleichen und kritisch hinterfragen. • beurteilen auf Basis von Kennzahlen wie RORAC und RAROC die Kapitalallokation von Unternehmen. • sind in der Lage, diverse Instrumente zum Hedgen von Währungsrisiken wie Futures, Optionen und Swaps zu bewerten und diese im Rahmen des Risikomanagement von Unternehmen selbstständig anzuwenden. 	
7	Prerequisites	keine	
8	Integration in curriculum	no Integration in curriculum available!	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	Written examination (60 minutes)	
11	Grading procedure	Written examination (100%)	
12	Module frequency	Only in winter semester	
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h	
14	Module duration	1 semester	
15	Teaching and examination language	german	
16	Bibliography	<p>Berk, Jonathan / DeMarzo, Peter: Corporate Finance, Boston u. a.</p> <p>Drukarczyk, Jochen / Schüler, Andreas: Unternehmensbewertung, München.</p>	

Fama, Eugene F. / French Kenneth R. (1993): Common Risk Factors in the Returns of Stocks and Bonds, in: Journal of Financial Economics, Vol. 33 (1), S. 3-56.

Hull, John C.: Optionen, Futures und andere Derivate, Hallbergmoos.

1	Module name 54300	Steuerliche Gewinnermittlung Tax accounting	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Frank Hechtner	
5	Contents	Das Modul führt als Grundlage in die Betriebswirtschaftliche Steuerlehre ein und vermittelt grundlegende Kenntnisse der einkommensteuerlichen Ertragsbesteuerung mit Bezug zu unterschiedlichen ökonomischen Aktivitäten. Es werden die wesentlichen Konzepte der Einkunftsarten, der steuerlichen Gewinnermittlung innerhalb der Gewinn- und der Überschusseinkunftsarten sowie Grundzüge der steuerbilanziellen Gewinnermittlung dargestellt.	
6	Learning objectives and skills	Die Studierenden erwerben ein Grundverständnis für ökonomische Fragestellungen im Kontext der betriebswirtschaftlichen Steuerlehre. Die Studierenden können die Bemessungsgrundlage für die Einkommensteuer systematisch darstellen und ermitteln sowie einen Bezug zu ökonomischen Fragestellungen herstellen. Darüber hinaus sind sie in der Lage, den steuerlichen Gewinn innerhalb der Gewinn- und der Überschusseinkunftsarten anhand einzelner Sachverhalte zu ermitteln. Ferner besitzen sie die Kompetenz, sich mit systematischen Fragestellungen innerhalb der steuerlichen Gewinnermittlung auseinandersetzen zu können.	
7	Prerequisites	keine	
8	Integration in curriculum	no Integration in curriculum available!	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	Written examination (90 minutes)	
11	Grading procedure	Written examination (100%)	
12	Module frequency	Only in winter semester	
13	Workload in clock hours	Contact hours: 60 h Independent study: 90 h	
14	Module duration	1 semester	
15	Teaching and examination language	german	
16	Bibliography		

1	Module name 54390	Fachsprachliche Ausbildung Englisch I Business English I	5 ECTS
2	Courses / lectures	Übung: Englisch: Phonetik Masters (2 SWS) Übung: Englisch: Sprachmittlung Englisch-Deutsch (Master) (2 SWS) Im Sommersemester wird die zweite Veranstaltung Mediation Englisch-Deutsch angeboten	2,5 ECTS 2,5 ECTS
3	Lecturers	Roslyn McAlpine Telford Dr. Mario Oesterreicher	

4	Module coordinator	Dr. Mario Oesterreicher	
5	Contents	<p>Phonetik: Der Kurs macht die Studierenden mit den Varietäten des Englischen vertraut.</p> <p>Mediation: Dieser Kurs baut die Sprachmittlungskompetenz der Studierenden aus und erweitert sie um didaktische Komponenten, die bei der Auswahl von Sprachmittlungstexten von Relevanz sind. Durch kooperative Arbeitsformen werden die Studierenden von einem aufgabenrezeptiven zu einem aufgabenproduktiven Fokus geführt.</p>	
6	Learning objectives and skills	<p>Bei der Definition der aufgeführten Kompetenzen gilt die entsprechende Publikation der KMK vom Oktober 2012 (Standards für die Allgemeine Hochschulreife).</p> <p>Beim Auf- und Ausbau der funktional kommunikativen Kompetenzen orientiert sich der Fremdsprachenunterricht der jeweiligen Stufe an den Beschreibungen des Gemeinsamen Europäischen Referenzrahmens für Sprachen.</p> <p>Im Detail werden die nachfolgenden Kompetenzen auf- und ausgebaut: Hör-/Hörsehverstehen, Leseverstehen, Schreiben, Sprechen, Sprachmittlung sowie die adäquate Anwendung sprachlicher Mittel und kommunikativer Strategien.</p> <p>Adressaten- und situationsspezifische, sprachliche Handlungskompetenz im Fokus von studien- und berufsspezifischen Kontexten wird durch die Interaktion gefördert und vertieft. Dabei werden mit Hilfe der gelebten Mehrsprachigkeit des Unterrichts interkulturelle kommunikative Kompetenzen für den aktiven Sprachgebrauch entwickelt.</p> <p>Neben den funktional kommunikativen Kompetenzen werden Text- und Medienkompetenz in Bezug auf die jeweils spezifischen sprachlichen Normen der einzelnen Text- und Medientypen auf- und ausgebaut, so dass auf dem Niveau C1 der kompetente Umgang mit individuellen, medial diversen Texten sichergestellt ist.</p>	
7	Prerequisites	C1 Sprachkompetenz /Englisch	
8	Integration in curriculum	no Integration in curriculum available!	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	Written examination (90 minutes)	

		Written or oral Written examination (60 minutes) Written or oral Written or oral Written examination (90 minutes) Written or oral
11	Grading procedure	Written examination (50%) Written or oral (50%) Written examination (50%) Written or oral (100%) Written or oral (50%) Written examination (50%) Written or oral (50%)
12	Module frequency	Every semester
13	Workload in clock hours	Contact hours: 60 h Independent study: 90 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Wird im jeweiligen Kurs bekannt gegeben

1	Module name 54400	Fachsprachliche Ausbildung Englisch II Business English II	5 ECTS
2	Courses / lectures	Übung: Englisch Master: English for Business Purposes (2 SWS, SoSe 2025) Übung: Englisch: Teaching Methodology (2 SWS, SoSe 2025)	2,5 ECTS 2,5 ECTS
3	Lecturers	Rachel Gracey Dr. Mario Oesterreicher	

4	Module coordinator	Dr. Mario Oesterreicher	
5	Contents	<p>Business Englisch: Der Kurs erweitert die Kenntnisse der Studierenden in Bezug auf das Verfassen von kohärenten, themenbezogenen Texten unter Verwendung eines reichen und differenzierten Vokabulars und der zunehmenden Vertrautheit in die Standards von akademischen und Geschäftstexten. Durch kollaborative Aufgabenbearbeitung und peer-Feedback wird ein Perspektivenwechsel von rezeptiver Aufgabenbearbeitung hin zu aktive Aufgabenevaluation realisiert.</p> <p>Teaching methodology: Der Kurs macht die Studierenden mit der grundlegenden methodologischen Genese der Fachdidaktik moderner Fremdsprachen vertraut. Er vermittelt das Verständnis für Kompetenzstandards und ihre didaktischen Implikationen auf nationaler und europäischer Ebene und legt somit die Grundlagen für eine praxisorientierte, mit der Historie als auch den neuesten Erkenntnissen vertrauten angewandten Fachdidaktik in der unterrichtlichen Realität.</p>	
6	Learning objectives and skills	<p>Bei der Definition der aufgeführten Kompetenzen gilt die entsprechende Publikation der KMK vom Oktober 2012 (Standards für die Allgemeine Hochschulreife).</p> <p>Beim Auf- und Ausbau der funktional kommunikativen Kompetenzen orientiert sich der Fremdsprachenunterricht der jeweiligen Stufe an den Beschreibungen des Gemeinsamen Europäischen Referenzrahmens für Sprachen.</p> <p>Im Detail werden die nachfolgenden Kompetenzen auf- und ausgebaut: Hör-/Hörsehverstehen, Leseverstehen, Schreiben, Sprechen, Sprachmittlung sowie die adäquate Anwendung sprachlicher Mittel und kommunikativer Strategien.</p> <p>Adressaten- und situationsspezifische, sprachliche Handlungskompetenz im Fokus von studien- und berufsspezifischen Kontexten wird durch die Interaktion gefördert und vertieft. Dabei werden mit Hilfe der gelebten Mehrsprachigkeit des Unterrichts interkulturelle kommunikative Kompetenzen für den aktiven Sprachgebrauch entwickelt.</p> <p>Neben den funktional kommunikativen Kompetenzen werden Text- und Medienkompetenz in Bezug auf die jeweils spezifischen sprachlichen Normen der einzelnen Text- und Medientypen auf- und ausgebaut, so dass auf dem Niveau C1 der kompetente Umgang mit individuellen, medial diversen Texten sichergestellt ist.</p>	

		Der fachdidaktische Modulteil macht mit der Interdependenz der Fachdidaktik und ihrer Bezugswissenschaften vertraut. Das Verständnis für die methodische Entwicklung der Fachdidaktik ermöglicht den Studierenden, unterschiedliche Übungstypen und ihre Legitimation in verschiedenen Stufen des Spracherwerbs zu evaluieren. Durch die Vertrautheit mit Sprachniveaustandards erlangen die Studierenden grundlegende Kompetenzen zur adressatenspezifischen, niveauadäquaten Vermittlung.
7	Prerequisites	C1 Sprachkompetenz /Englisch
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Miscellaneous Master of Science Economics 20212
10	Method of examination	Written examination (90 minutes) Written examination (90 minutes) Oral (30 minutes) Oral (30 minutes) Written or oral Written examination (60 minutes) Written examination (60 minutes)
11	Grading procedure	Written examination (50%) Written examination (25%) Oral (50%) Oral (25%) Written or oral (50%) Written examination (50%) Written examination (50%)
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 60 h Independent study: 90 h
14	Module duration	2 semester
15	Teaching and examination language	german or english
16	Bibliography	Wird im jeweiligen Kurs bekannt gegeben

1	Module name 54411	Fachsprachliche Ausbildung Englisch III Business English III	5 ECTS
2	Courses / lectures	Übung: Englisch: Writing lab1 (English for special purposes 1) (2 SWS) Übung: Englisch: Writing lab2 (English for special purposes 2) (2 SWS)	2,5 ECTS 2,5 ECTS
3	Lecturers	Julie Porlein Balbiro Dhuga	

4	Module coordinator	Dr. Mario Oesterreicher	
5	Contents	<p>English for special purposes I: Der Kurs erweitert die Kenntnisse der Studierenden in Bezug auf das Verfassen von kohärenten, themenbezogenen Texten unter Verwendung eines reichen und differenzierten Vokabulars und der zunehmenden Vertrautheit in die Standards von akademischen und Geschäftstexten. Fallstudien, z.B. im Bereich IKT, Handel oder Arbeitsmarkt stehen zusammen mit Simulationen und dem Ausbau interkultureller kommunikativer Kompetenzen im Mittelpunkt.</p> <p>English for special purposes II: Der Kurs intensiviert die im ersten Kurs vermittelten Kompetenzen und ergänzt die Fallstudienkompetenz um rechtliche sowie interkulturelle Kompetenzen.</p>	
6	Learning objectives and skills	<p>Bei der Definition der aufgeführten Kompetenzen gilt die entsprechende Publikation der KMK vom Oktober 2012 (Standards für die Allgemeine Hochschulreife).</p> <p>Beim Auf- und Ausbau der funktional kommunikativen Kompetenzen orientiert sich der Fremdsprachenunterricht der jeweiligen Stufe an den Beschreibungen des Gemeinsamen Europäischen Referenzrahmens für Sprachen.</p> <p>Im Detail werden die nachfolgenden Kompetenzen auf- und ausgebaut: Hör-/Hörsehverstehen, Leseverstehen, Schreiben, Sprechen, Sprachmittlung sowie die adäquate Anwendung sprachlicher Mittel und kommunikativer Strategien.</p> <p>Adressaten- und situationsspezifische, sprachliche Handlungskompetenz im Fokus von studien- und berufsspezifischen Kontexten wird durch die Interaktion gefördert und vertieft. Dabei werden mit Hilfe der gelebten Mehrsprachigkeit des Unterrichts interkulturelle kommunikative Kompetenzen für den aktiven Sprachgebrauch entwickelt.</p> <p>Neben den funktional kommunikativen Kompetenzen werden Text- und Medienkompetenz in Bezug auf die jeweils spezifischen sprachlichen Normen der einzelnen Text- und Medientypen auf- und ausgebaut, so dass auf dem Niveau C1+ der kompetente Umgang mit individuellen, medial diversen Texten sichergestellt ist.</p>	
7	Prerequisites	C1 Sprachkompetenz /Englisch	
8	Integration in curriculum	no Integration in curriculum available!	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	Oral	

		Written examination (60 minutes)
11	Grading procedure	Oral (50%) Written examination (50%)
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 60 h Independent study: 90 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Wird im jeweiligen Kurs bekannt gegeben

1	Module name 54452	Issues in international trade	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers. Es besteht Anwesenheitspflicht.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Christoph Moser
5	Contents	This course will focus on major developments in the international trading system, on the multilateral, regional and bilateral level. Special emphasis will be given to developments in the WTO, the rule-making process and the completion of new multilateral commitments. In addition, the pursuit of regional and bilateral trade agreements will be monitored and its effects on businesses and trade flows will be examined. Finally, a thorough analysis of the trade policies pursued by developed and developing countries will be offered.
6	Learning objectives and skills	Students gain a deeper understanding of the contemporary developments of trade policies on the multilateral, regional and country level and how it affects business and market opportunities. Special emphasis will be on the United States and the European Union.
7	Prerequisites	Recommended prerequisites: Basic knowledge of the concepts of international economics and international political economy.
8	Integration in curriculum	semester: 3
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Macroeconomics and Finance Master of Science Economics 20212 Master IBS: elective course (Wahlbereich): English-speaking countries Master Economics: Specialization in Macroeconomics and Finance
10	Method of examination	Written or oral <i>Es handelt sich um eine einheitliche Prüfung, bei der die einzelnen Teilleistungen untrennbar miteinander verbunden sind. Für das Bestehen des Moduls müssen nach § 19 Abs. 1 Satz 4 MPOWIWI in der jeweils geltenden Fassung alle Teilleistungen in demselben Semester bestanden werden. Wegen des untrennbaren Bezugs der Teilleistungen aufeinander ist</i>

		<i>abweichend von § 25 Abs.1 Satz 2 MPOWIWI eine Wiederholung nur einer der nicht bestandenen Teilleistungen nicht möglich. Das Nichtbestehen einer der Teilleistungen erfordert die Wiederholung der gesamten Prüfung.</i>
11	Grading procedure	Written or oral (100%) 30% presentation, 70% seminar paper (30% Präsentation, 70% Seminararbeit)
12	Module frequency	Only in winter semester
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	

1	Module name 54630	Ungleichheit in modernen Gesellschaften Inequality in modern society	5 ECTS
2	Courses / lectures	Vorlesung: Ungleichheit in modernen Gesellschaften (2 SWS) Es besteht Anwesenheitspflicht.	-
3	Lecturers	Prof. Dr. Martin Abraham	

4	Module coordinator	Prof. Dr. Martin Abraham Prof. Dr. Tobias Wolbring
5	Contents	Im Rahmen dieses Moduls werden die Ursachen, Folgen und Dynamiken sozialer Ungleichheit in modernen Gesellschaften thematisiert. Im Mittelpunkt stehen a) Theorien der Ungleichheitsentstehung und der Ungleichheitsfolgen b) empirische Analysen der Ungleichheit c) (sozial-)politische Konsequenzen
6	Learning objectives and skills	Aufbauend auf grundlegenden Kenntnissen der Soziologie und der Sozialstrukturanalyse besitzen die Studierenden nach Beendigung des Kurses <ul style="list-style-type: none"> • die Fähigkeit zur fortgeschrittenen theoretischen Analyse ungleichheitsrelevanter Themen und Prozesse, • die Kompetenz, fortgeschrittene empirische Analysen nachzuvollziehen und zu kritisieren, • die Fähigkeit, praktische Konsequenzen aus wissenschaftlichen Analysen in verschiedenen Feldern zu ziehen, die Fähigkeit, diese Kompetenzen auf andere Bereiche anzuwenden.
7	Prerequisites	Grundkenntnisse der soziologischen Theorie, der Regressionsanalyse sowie der Sozialstrukturanalyse
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Miscellaneous Master of Science Economics 20212
10	Method of examination	Written examination (60 minutes)
11	Grading procedure	Written examination (100%)
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h
14	Module duration	1 semester
15	Teaching and examination language	german
16	Bibliography	DiPrete, T. A., & Eirich, G. M. (2006). Cumulative advantage as a mechanism for inequality: A review of theoretical and empirical developments. <i>Annu. Rev. Sociol.</i> , 32, 271-297. Neckerman, K. M., & Torche, F. (2007): Inequality: Causes and consequences. <i>Annu. Rev. Sociol.</i> , 33

1	Module name 54760	Process Analytics (PA) Process analytics (PA)	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Annina Ließmann Prof. Dr. Martin Matzner	
5	Contents	The course focuses on the data-driven analysis of business processes. It covers various technical, organizational, and business aspects of process improvement, with Process Mining being the central focus. The module emphasizes practical application and encourages students to apply the methods and concepts learned during the lectures. In the group project, students will utilize their knowledge by working with state-of-the-art process mining tools, such as Celonis.	
6	Learning objectives and skills	The students <ul style="list-style-type: none"> • capture the concepts around process improvement and recognize the potential for organizations • understand technical aspects of data-driven process analysis • know about state-of-the art technologies for process mining • apply technologies for process analysis in a practical setting • analyze a business process and develop a business case for process improvements • work in groups and present their results together 	
7	Prerequisites	Beneficial: <ul style="list-style-type: none"> • Basic understanding of business processes and process notations / modelling 	
8	Integration in curriculum	no Integration in curriculum available!	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	Presentation Written examination (60 minutes)	
11	Grading procedure	Presentation (70%) Written examination (30%)	
12	Module frequency	Only in winter semester	
13	Workload in clock hours	Contact hours: 60 h Independent study: 90 h	
14	Module duration	1 semester	
15	Teaching and examination language	english	
16	Bibliography	None	

1	Module name 54831	International marketing	5 ECTS
2	Courses / lectures	Vorlesung: International Marketing (2 SWS)	5 ECTS
3	Lecturers	Theresa Bernhard Prof. Dr. Dirk Holtbrügge	

4	Module coordinator	Prof. Dr. Dirk Holtbrügge	
5	Contents	<p>This course offers students a deep and specialized expertise in marketing activities in an international environment. In addition, the focus is on the evaluation, analysis and application of theoretical marketing approaches.</p> <p>The following topics will be discussed in particular:</p> <ul style="list-style-type: none"> • The scope and challenge of international marketing • International market coverage strategy • Design of the international marketing-mix • Standardization vs. differentiation of international product, price, sales, and communication management <p>Particular areas or regions covered in the lecture will be announced prior to the course.</p>	
6	Learning objectives and skills	<p>The students acquire specialized and deep knowledge in the domain of international marketing. They can explain, apply and reflect on theories, concepts and empirical studies in the area of international marketing in a deepened and critical way. Foundations for the use of the marketing-mix in an international setting are taught and the students are able to bring them into question critically. Furthermore, the students are able to independently conceptualize strategic courses of action as well as scopes for design for the marketing-mix in an international context.</p>	
7	Prerequisites	Registration via vhb (www.vhb.org) is necessary in order to gain access to the course and the StudOn e-learning platform.	
8	Integration in curriculum	no Integration in curriculum available!	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	Report <i>Details for the examination: Report (6 pages)</i>	
11	Grading procedure	Report (100%)	
12	Module frequency	Every semester	
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h	
14	Module duration	1 semester	
15	Teaching and examination language	english	
16	Bibliography	Alon, I., Jaffe, E., Prange, C. & Vianelli, D. (2017). Global Marketing: Contemporary Theory, Practice, and Cases. 2nd ed., New York, London: Routledge 2017.	

1	Module name 54990	Fachsprachliche Ausbildung Englisch V Business English V	5 ECTS
2	Courses / lectures	Übung: Englisch: Theoretical insights into teaching methodology (4 SWS)	5 ECTS
3	Lecturers	Dr. Mario Oesterreicher	

4	Module coordinator	Dr. Mario Oesterreicher	
5	Contents	<p>a) Practical insights into teaching methodology: Diese schulpraktische, fremdsprachendidaktische Übung macht die Studierenden mit den spezifischen Problemen und Erfahrungen des curricularen und nicht-curricularen Englischunterrichts an Berufsschule, BOS/FOS vertraut. Neben der Hospitation vertiefen die Studierenden Ihre Einsichten durch drei eigene Unterrichtsversuche.</p> <p>b) Theoretical insights into teaching methodology: Der Kurs vermittelt einen umfassenden Überblick über aktuelle Lehr- und Lernmethoden unter Berücksichtigung der jeweiligen funktional-kommunikativen Kompetenzen. Er sensibilisiert die Studierenden hinsichtlich möglicher Lernhemmnisse und vertieft die für die curriculare und nicht-curriculare Englischvermittlung notwendigen, binnendifferenzierenden, lehrwerksgestützten und lehrwerksunabhängigen Unterrichtskonzeptionen.</p>	
6	Learning objectives and skills	<p>a) Die Studierenden sollen fremden Englischunterricht analysieren und insbesondere unter dem Aspekt der curricularen oder nicht-curricularen Einbindung reflektieren. Die Studierenden planen Unterricht eigenständig, führen ihn durch und reflektieren ihn. Dabei stehen neben der funktional-kommunikativen Kompetenzvermittlung vor allem die interkulturell-kommunikativen Kompetenzen und der Einsatz gelebter Mehrsprachigkeit im Vordergrund der Vermittlung und der anschließenden Reflektion.</p> <p>b) Die Studierenden lernen kompetenzspezifische Übungen zu den funktional-kommunikativen Kompetenzen zu entwickeln, sie zu analysieren und reflektieren. Darüber hinaus erlangen sie Vertrautheit mit der Integration von interkulturell-kommunikativen Elementen in bestehende Übungen und erweitern ihre Fähigkeit der Umsetzung solcher Übungen in einem Unterricht, der den Prinzipien gelebter Mehrsprachigkeit folgt.</p>	
7	Prerequisites	Niveau C1 des GER in Englisch. Erfolgreiches Absolvieren des Kurses Teaching Methodology	
8	Integration in curriculum	no Integration in curriculum available!	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	Variable Variable	
11	Grading procedure	Variable (100%) Variable (100%)	
12	Module frequency	Every semester	
13	Workload in clock hours	Contact hours: 60 h	

		Independent study: 90 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Lt. Auskunft Dozenten

1	Module name 55210	Einkommenssteuerrecht Income tax law	5 ECTS
2	Courses / lectures	Vorlesung: VL Einkommensteuerrecht (2 SWS) Übung: UE Einkommensteuerrecht (2 SWS)	5 ECTS -
3	Lecturers	Prof. Dr. Roland Ismer	

4	Module coordinator	Prof. Dr. Roland Ismer	
5	Contents	<ul style="list-style-type: none"> • Subjektive und objektive Steuerpflicht • Grundzüge der Einnahmen-Überschuss-Rechnung • Erwerbsaufwendungen • die einzelnen Einkunftsarten • Sonderausgaben, außergewöhnliche Belastungen • Schwerpunkt auf dogmatischen Strukturen wie das Veranlassungsprinzip und die Systematik des Gesetzes 	
6	Learning objectives and skills	Die Studierenden können unter Berücksichtigung der Systematik der Gesetze steuerliche Fallgestaltungen erfassen, beurteilen und systematisch lösen. Unter Anwendung juristischer Methoden auf fortgeschrittenem Niveau sowie Übertragung steuerrechtlicher Rechtsprechung und aktueller wissenschaftlicher Literatur können die Studierenden steuerliche Fallgestaltungen gutachterlich prüfen.	
7	Prerequisites	Grundkenntnisse Steuerrecht	
8	Integration in curriculum	no Integration in curriculum available!	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	Written examination (90 minutes)	
11	Grading procedure	Written examination (100%)	
12	Module frequency	Only in winter semester	
13	Workload in clock hours	Contact hours: 60 h Independent study: 90 h	
14	Module duration	1 semester	
15	Teaching and examination language	german	
16	Bibliography	Birk, Steuerrecht; Jakob, Einkommensteuerrecht; Tipke/ Lang, Steuerrecht: jeweils aktuelle Auflage; weitergehende, forschungsbezogene Literatur wird im Rahmen der Veranstaltung bekannt gegeben.	

1	Module name 55250	Aktuelle Fragen aus FACT I Current issues in FACT I	5 ECTS
2	Courses / lectures	<p>Vorlesung: VL Deutsches, europäisches und internationales Wettbewerbsrecht (2 SWS) 5 ECTS</p> <p>Vorlesung: Juristische Methodenlehre im Steuerrecht (1 SWS) 2,5 ECTS</p> <p>Seminar: Analysis and Valuation of Start Ups (2 SWS) 5 ECTS</p> <p>Seminar: Aktuelle Fragen aus FACT "Textmining in Sustainability Reports" (2 SWS) 5 ECTS</p> <p>Vorlesung: Aktuelle Fragen aus FACT I, III: Internationale Steuerplanung (1 SWS) 2,5 ECTS</p> <p>Seminar: Blockchain Data Analytics (2 SWS) 5 ECTS</p> <p>Seminar: FACT-Hackathon 5 ECTS</p>	
3	Lecturers	PD Dr. Stephanie Jungheim-Hertwig Dr. Klaus Meßerschmidt Lena Pager Prof. Dr. Thomas Fischer Janina Becker Andreas Kress Prof. Dr. Christian Rödl Prof. Dr. Devrimi Kaya Hendrik von der Lippe Marius Weiß	

4	Module coordinator	Prof. Dr. Thomas Fischer Prof. Dr. Nadine Gatzert Prof. Dr. Frank Hechtner Prof. Dr. Klaus Henselmann Prof. Dr. Jochen Hoffmann Prof. Dr. Devrimi Kaya Prof. Dr. Marvin Nipper Prof. Dr. Hendrik Scholz	
5	Contents	<p>Inhalte der Veranstaltung sind ausgewählte Themen aus dem Bereich Finance, Auditing, Controlling und Taxation. Hierzu gehören insbesondere aktuelle, nicht regelmäßig angebotene Veranstaltungen durch Honorarprofessoren, Lehrbeauftragte oder sonstige Gastreferentinnen bzw. -referenten.</p> <p>Die aktuellen Lehrveranstaltungen sind online hier zu entnehmen: Master FACT - Master FACT (fau.de)</p> <p>Alternativ können Vorlesungen und Seminare zu Themen aus dem Bereich FACT belegt werden, die nicht in vergleichbarer Form im Master-Studiengang FACT angeboten werden. Diese Module können an FAU-Fachbereichen und -Fakultäten oder an ausländischen Universitäten belegt werden.</p>	

		<p>Die Lehrveranstaltungen müssen einen Bezug zu Inhalten mit folgenden Schwerpunkten aufweisen:</p> <ul style="list-style-type: none"> • Finanzierung und Banken, Versicherungswirtschaft und Risikomanagement, • Rechnungswesen und Prüfungswesen, Wirtschaftsprivatrecht • Controlling • Steuerlehre, Steuerrecht
6	Learning objectives and skills	<p>Die Studierenden verfügen in diesen Bereichen über umfassendes, detailliertes und spezialisiertes Wissen auf dem neuesten Erkenntnisstand einschließlich der praktischen Anwendung sowie eines kritischen Verständnisses der Theorien und Methoden.</p> <p>Die Studierenden können dieses Wissen kombinieren und zur umfassenden Beurteilung von konkreten Situationen aus der Praxis anwenden. Dazu gehört es auch, die erforderlichen Informationen zu beschaffen, Analysemodelle zu entwickeln, erforderliche Auswertungen auszuwählen, Vergleiche vorzunehmen, das Gesamtergebnis zu begründen und verteidigen sowie die Belastbarkeit der Ergebnisse zu hinterfragen.</p> <p>Bei Auslandsaufenthalt: Die Studierenden</p> <ul style="list-style-type: none"> • untersuchen Fragestellungen aus den Bereichen Finance, Auditing, Controlling, Taxation, • erwerben dabei die in den Lernzielen des jeweiligen ausländischen Moduls angestrebten Fach-, Methoden-, Selbst- und Sozialkompetenzen, • entwickeln interkulturelle Kompetenzen durch die Zusammenarbeit mit Menschen aus anderen Kulturen, • können ihr Wissen aus dem Bereich FACT in klarer und eindeutiger Weise in einer Fremdsprache vermitteln
7	Prerequisites	<p>keine; bitte beachten Sie aber ggf. die individuellen Vorgaben der einzelnen Lehrstühle zu ihren Veranstaltungen.</p> <p>Bei Auslandsaufenthalt: Learning Agreement mit einem Lehrstuhl des FACT-Instituts</p>
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Miscellaneous Master of Science Economics 20212
10	Method of examination	<p>Written or oral (60 minutes) Written or oral (60 minutes)</p> <p>Belegung von zwei Veranstaltungen zu je 2,5 ECTS oder einer Veranstaltung zu 5 ECTS: Studien-/Prüfungsleistung abhängig von der Wahl der Lehrveranstaltung durch die Studierenden, ggf. auch Kombination möglich.</p> <p>Es handelt sich um eine einheitliche Prüfung, bei der die einzelnen Teilleistungen untrennbar miteinander verbunden sind. Für das Bestehen des Moduls müssen nach § 19 Abs. 1 Satz 4 MPOWIWI (in der jeweils geltenden Fassung) alle Teilleistungen in demselben Semester bestanden</p>

		<p>werden. Wegen des untrennbaren Bezugs der Teilleistungen aufeinander ist abweichend von § 25 Abs. 1 Satz 2 MPOWIWI eine Wiederholung nur einer der nicht bestandenen Teilleistungen nicht möglich. Das Nichtbestehen einer der Teilleistungen erfordert die Wiederholung der gesamten Prüfung.</p> <p>Bei Auslandsaufenthalt: Studien-/Prüfungsleistung abhängig von den Vorgaben der ausländischen Hochschule</p>
11	Grading procedure	<p>Written or oral (50%) Written or oral (50%) Belegung von zwei Veranstaltungen zu je 2,5 ECTS oder einer Veranstaltung zu 5 ECTS: Berechnung der Modulnote in Abhängigkeit der durch die Studierenden gewählten Lehrveranstaltung</p> <p>Bei Auslandsaufenthalt: Variabel (100%) Berechnung der Modulnote nach einem Äquivalenzschlüssel unter der Gewichtung der im Ausland erbrachten ECTS-Volumina je absolvierter Lehrveranstaltung</p>
12	Module frequency	Every semester
13	Workload in clock hours	Contact hours: 60 h Independent study: 90 h
14	Module duration	1 semester
15	Teaching and examination language	german or english
16	Bibliography	Wird im Rahmen der Veranstaltung bekannt gegeben

1	Module name 55270	International and European trade law	5 ECTS
2	Courses / lectures	Vorlesung: VL International and European Trade Law (2 SWS)	5 ECTS
3	Lecturers	Dr. Klaus Meßerschmidt	

4	Module coordinator	Prof. Dr. Roland Ismer	
5	Contents	<p>Basics of International and European Law:</p> <ul style="list-style-type: none"> • EU Trade Law • Concept of Internal Market • Economic Freedoms and Law of Competition • Economic Globalization and the Law of the WTO • The World Trade Organization • WTO Dispute Settlement • Principles of Non-Discrimination • Rules on Market Access • Rules on Unfair Trade • Trade Liberalisation versus other societal values and interests • Supply Chain Law and anti-modern slavery legislation • WTO and EU Law 	
6	Learning objectives and skills	<p>Students will</p> <ul style="list-style-type: none"> • know the European Economic Law and WTO-Law as fundamental basis of the International Trade Law • be able to analyse and discuss specific aspects of European and International Economic Law on an advanced level • will be able to produce case studies • will achieve an advanced skill of analysis 	
7	Prerequisites	Basic knowledge of European Law	
8	Integration in curriculum	no Integration in curriculum available!	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	Written examination (60 minutes)	
11	Grading procedure	Written examination (100%)	
12	Module frequency	Only in summer semester	
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h	
14	Module duration	1 semester	
15	Teaching and examination language	english	
16	Bibliography	<p>(Recommended) reading:</p> <ul style="list-style-type: none"> • Nigel Foster, Foster on EU Law, 8th edn. OUP 2021 • Van den Bossche/Prévost, Essentials of WTO Law, 2nd edn. CUP 2021 <p>Previous editions of both books available at WISO library</p>	

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| | <ul style="list-style-type: none">• Blackstone EU Legislation, OUP (previous editions sufficient, test: Is TFEU printed?) |
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1	Module name 55291	Global retail logistics	5 ECTS
2	Courses / lectures	Vorlesung: Global Retail Logistics (vhb-Kurs) (4 SWS)	5 ECTS
3	Lecturers	Christopher Münch Prof. Dr.-Ing. Eva Maria Hartmann Masoud Mirzaei	

4	Module coordinator	Prof. Dr.-Ing. Eva Maria Hartmann
5	Contents	<p>This e-learning course offers specific insights on the logistic processes in the global retail industry. Upon completion of the course, the students should understand the peculiarities of logistics for fast moving consumer goods. Every module consists of an interactive lecture and script. Additional material and exercises enhance the presented topics further. As the entire lecture, the readings, the additional material and the exam is in English, proficiency in German is not necessary. The course is supposed to provide the students with the following content concerning the global retail industry:</p> <ul style="list-style-type: none"> • Module 1: Overview • Module 2: Characteristics & basics • Module 3: Trends & challenges • Module 4: Point of sale & E-Commerce • Module 5: Interfaces • Module 6: Load units & transport logistics • Module 7: Cross docking • Module 8: Warehousing & distribution • Module 9: Food supply chain • Module 10: Sustainability in retail logistics
6	Learning objectives and skills	<p>The following learning objectives are anticipated:</p> <ul style="list-style-type: none"> • You will be able to define the topic of retail logistics and describe its specific requirements. • You will be able to report the retail industry specific peculiarities relating to the usage of logistics processes. • You will be able to use the relevant methods of planning, controlling and monitoring of logistics processes in the retail industry. • You will be able to analyse various retail-specific characteristics in the use of logistics processes and assess their application in a practical context. • You will be able to apply the most important principles of global retail logistics, to manage logistic processes while solving the questions of supply, distribution, transport and storage of goods. • You will be able to work creatively, generate new ideas, and solve problems regarding retail logistics in an international context, international interaction and cooperation, while accepting social and ethical responsibility. • You will be able to manage, organise and discipline yourself, and plan your time independently.

		<ul style="list-style-type: none"> You will be able to demonstrate the ability to engage in critical thinking by analysing complex situations thus concluding and selecting viable solutions to solve problems.
7	Prerequisites	<p>Registration via vhb (www.vhb.org) is necessary in order to gain access to the StudOn e-learning platform.</p> <p>English language proficiency (C1)</p> <p>Prior completion of the course "Produktions- und Supply Chain Management" is recommended.</p>
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Miscellaneous Master of Science Economics 20212
10	Method of examination	Written examination with multiple choice (60 minutes)
11	Grading procedure	Written examination with multiple choice (100%)
12	Module frequency	Every semester
13	Workload in clock hours	Contact hours: 1 h Independent study: 149 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Will be announced in the course.

1	Module name 55310	Logistik-Consulting Logistics consulting	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr.-Ing. Eva Maria Hartmann
5	Contents	Im ersten Teil der Veranstaltung werden theoretische und empirische Grundlagen der Organisationsentwicklung, des geplanten Wandels und der Berater-Klienten-Beziehung besprochen und auf den Bereich des Logistik Consulting übertragen. Im zweiten Teil werden typische Problemstellungen für Logistikberater erläutert und ein Überblick über Standardwerkzeuge und Techniken zu deren Lösung gegeben. Ergänzende Gastvorträge von Referentinnen bzw. Referenten aus der Praxis des Logistik Consultings sollen einen Überblick über die Vielfalt der Branche geben.
6	Learning objectives and skills	Die Studierenden verfügen über Kompetenzen, die für die Bewältigung von Situationen im Beratungsalltag notwendig sind. Sie entdecken u.a. typische Problemstellungen von Consulting-Projekten sowie deren erfolgreiche Bearbeitung.
7	Prerequisites	None
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Miscellaneous Master of Science Economics 20212
10	Method of examination	Case study Written examination (60 minutes)
11	Grading procedure	Case study (40%) Written examination (60%)
12	Module frequency	Only in winter semester
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h
14	Module duration	1 semester
15	Teaching and examination language	german
16	Bibliography	Wird im Kurs bekanntgegeben.

1	Module name 55490	Fortgeschrittene Methoden der Managementforschung VII Advanced methods of management research VII	5 ECTS
2	Courses / lectures	Seminar: Forschungsseminar (2 SWS)	5 ECTS
3	Lecturers	Prof. Dr. Julian Müller Prof. Dr. Kai-Ingo Voigt	

4	Module coordinator	Prof. Dr. Kai-Ingo Voigt	
5	Contents	Gegenstand der Veranstaltung stellen die Themenfelder Technologiemanagement und Business Model Innovation dar. Ziel der Veranstaltung ist es, einen Überblick über ein gewähltes Forschungsgebiet aus den genannten Forschungsfeldern zu gewinnen. Von Interesse sind dabei auch die verwendete Methodik und die erzielten Ergebnisse.	
6	Learning objectives and skills	Studierende entwickeln und führen im Rahmen des Seminars weitestgehend selbstständig ein wissenschaftliches Forschungsprojekt durch. Hierfür bewerten, hinterfragen und vergleichen die Studierenden wissenschaftliche Artikel und Veröffentlichungen, die in englischer und deutscher Sprache verfasst wurden und die von den Studierenden selbst erschlossen wurden. Auf Basis dieser Recherche bilden Studierende begründete Hypothesen oder Forschungsfragen, die anhand einer eigenständigen qualitativen oder quantitativen Befragung überprüft, beurteilt, diskutiert und interpretiert werden. Studierende schätzen im Seminar ihre eigenen Stärken und Schwächen im Hinblick auf ihr wissenschaftliches Arbeiten ein und gestalten einen weiterführenden Lernprozess, der es ihnen erlaubt, neue forschungsorientierte Aufgaben in den behandelten Forschungsdisziplinen oder anderen Forschungsdisziplinen zu bearbeiten. Gleichzeitig geben Studierende Kommilitonen wertschätzendes Feedback auf erbrachte Zwischenleistungen. Die Studierenden lernen und arbeiten mit anderen Studierenden gemeinsam an einzelnen Aufgaben des Seminars und übernehmen dabei im Team eine herausgehobene Verantwortung.	
7	Prerequisites	Keine	
8	Integration in curriculum	no Integration in curriculum available!	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	Presentation Written assignment Umfang der Hausarbeit: 5.000 Wörter Präsentationsleistung: 20 Minuten Präsentation + 10 Minuten Diskussion	
11	Grading procedure	Presentation (50%) Written assignment (50%)	
12	Module frequency	Every semester	
13	Workload in clock hours	Contact hours: 30 h	

		Independent study: 120 h
14	Module duration	1 semester
15	Teaching and examination language	german english
16	Bibliography	Jeweils aktuelle kursspezifische Literatur (wird im Kurs bekannt gegeben).

1	Module name 55511	Seminar zum Genossenschaftswesen Seminar on cooperatives	5 ECTS
2	Courses / lectures	Seminar: Seminar zum Genossenschaftswesen (2 SWS)	5 ECTS
3	Lecturers	apl. Prof. Dr. Richard Reichel	

4	Module coordinator	Prof. Dr. Markus Beckmann	
5	Contents	<p>Im Rahmen des Moduls wird in Kooperation mit dem Genossenschaftsverband Bayern die Genossenschaft als besondere Form der Unternehmung näher betrachtet. Ziel der Veranstaltung ist es sowohl die Bedeutung und Entwicklung der Genossenschaften aufzuzeigen, als auch auf aktuelle Forschungs- und Praxisprobleme tiefgehend einzugehen. Neben einem einführenden Teil (in Vorlesungsform), der insbesondere das Genossenschaftswesen und seine Besonderheiten aus der theoretischen Perspektive näher erläutert, ist die eigenständige Bearbeitung und Präsentation einer zuvor definierten praxisrelevanten Fragestellung weiterer Bestandteil des Seminars.</p>	
6	Learning objectives and skills	<p>Im Rahmen des Moduls erhalten die Studierenden einen tiefgehenden Einblick in die aktuellen Problemfelder und Herausforderungen von genossenschaftlichen Unternehmen und verfügen somit über ein spezialisiertes und detailliertes Wissen über das Genossenschaftswesen. Durch erworbene analytische und konzeptionelle Fertigkeiten sind sie ferner in der Lage komplexe betriebswirtschaftliche Fragestellungen eigenständig zu bearbeiten und die richtigen Methoden und Strukturierungsansätze zur Bewältigung dieser Aufgaben zu finden und erfolgreich anzuwenden.</p> <p>Konkret entwickeln die Studierenden insbesondere die Fähigkeit:</p> <ul style="list-style-type: none"> • die besonderen Planungs- und Gestaltungsprobleme von Genossenschaften zu verstehen • nach relevantem Wissen und Informationen zu recherchieren, diese zu bewerten, zu verdichten und zu strukturieren sowie - die geeigneten strategischen Analyseinstrumente und -methoden zur Bewältigung des konkreten Praxisproblems zu finden, diese zielführend anzuwenden sowie • Handlungsalternativen aufzuzeigen. <p>Durch die Zusammenarbeit im Team sind die Studierenden ferner in der Lage:</p> <ul style="list-style-type: none"> • zielorientiert mit anderen zusammenzuarbeiten und vernetzt zu denken, • sich rational und verantwortungsbewusst mit Interessens- und Kommunikationskonflikten im Rahmen der Gruppenarbeit auseinanderzusetzen, aber auch mit Unterschieden in Denk- und Handlungsmustern umzugehen • in klarer und eindeutiger Weise die gewonnenen Erkenntnisse sprachlich und visuell zu vermitteln sowie überzeugend zu präsentieren 	

		<ul style="list-style-type: none"> • sowie komplexe fachbezogene Probleme und Lösungen gegenüber Dritten argumentativ zu vertreten
7	Prerequisites	Keine
8	Integration in curriculum	semester: 2;4
9	Module compatibility	Miscellaneous Master of Science Economics 20212
10	Method of examination	Presentation Written assignment
11	Grading procedure	Presentation (50%) Written assignment (50%)
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h
14	Module duration	1 semester
15	Teaching and examination language	german
16	Bibliography	Kursspezifische Literatur (wird im Kurs bekannt gegeben).

1	Module name 55521	Praxisseminar mit Prof. Dr. Heinrich v. Pierer Practical seminar with Prof. Dr. Heinrich v. Pierer	5 ECTS
2	Courses / lectures	Seminar: Praxisseminar mit Prof. Dr. Heinrich v. Pierer (2 SWS)	5 ECTS
3	Lecturers	Michael Mertel Prof. Dr. Kai-Ingo Voigt Prof. Dr. Heinrich von Pierer	

4	Module coordinator	Prof. Dr. Kai-Ingo Voigt	
5	Contents	In dem Seminar erarbeiten die Studierenden zu wechselnden Rahmenfragestellungen in Gruppen eigenständig Seminararbeiten deren Ergebnisse im Rahmen von zwei Blockterminen vorgetragen, verteidigt und diskutiert werden.	
6	Learning objectives and skills	Die Studierenden erarbeiten in Gruppen weitgehend selbstgesteuert und autonom Analysen zu komplexen betriebswirtschaftlichen Fragestellungen. Hierzu führen die Studierenden Dokumentanalysen und Literaturrecherchen durch und entscheiden weitgehend eigenständig über die zu verwendenden Analysemethoden. Das Ziel ist die Erarbeitung, Strukturierung und Darstellung von detailliertem und spezialisiertem Wissen auf dem aktuellen Erkenntnisstand zu der jeweils ausgeschriebenen Fragestellung. Die erarbeiteten Ergebnisse werden anschließend gemeinsam von der Gruppe in dem Seminar vertreten und vor Fachvertretern verteidigt. Durch die Bearbeitung der Fallstudien in Kleingruppen wird das Übernehmen herausgehobener Verantwortung sowie die fachliche Weiterentwicklung der Studierenden gefördert.	
7	Prerequisites	Keine	
8	Integration in curriculum	semester: 3	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	Written assignment Presentation Umfang der Hausarbeit: 7.000 Wörter Dauer der Präsentation: 30 Minuten	
11	Grading procedure	Written assignment (70%) Presentation (30%)	
12	Module frequency	Every semester	
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h	
14	Module duration	1 semester	
15	Teaching and examination language	german	
16	Bibliography	Kurspezifische Literatur (wird im Kurs bekannt gegeben).	

1	Module name 55530	Hauptseminar Finance Advanced seminar: Finance	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers. Die Anwesenheit in der Lehrveranstaltung ist Voraussetzung für die Prüfungsteilnahme.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Hendrik Scholz
5	Contents	Verschiedene wechselnde Themenbereiche aus dem Bereich Finanzierung
6	Learning objectives and skills	Die Studierenden <ul style="list-style-type: none"> • arbeiten in Gruppen selbstständig Analysen zu aktuellen Forschungsbereichen aus. • erstellen auf Basis wissenschaftlicher Methoden und aktueller englischer Fachliteratur eigenständig einen Lösungsvorschlag zu einer aktuellen Forschungsfrage. • wenden zuvor in Vorlesungen erworbene theoretische Kenntnisse an und erarbeiten sich selbstständig neues Fachwissen. • analysieren mit Hilfe statistischer Verfahren einen aktuellen Datensatz. • geben und erhalten im Rahmen interaktiver Präsentationen der Arbeitsergebnisse ein wertschätzendes Feedback über die erbrachte Leistung.
7	Prerequisites	Workshop Capital Markets Research oder Workshop Finance, Financial Engineering und Structured Finance
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Miscellaneous Master of Science Economics 2012
10	Method of examination	Written or oral Seminararbeit (ca. 15 Seiten, tw. in Gruppenarbeit) und Präsentation/Präsentationspapier (tw. in Gruppenarbeit) und Diskussionsbeitrag <i>Es handelt sich um eine einheitliche Prüfung, bei der die einzelnen Teilleistungen untrennbar miteinander verbunden sind. Für das Bestehen des Moduls müssen nach § 19 Abs. 1 Satz 4 MPOWIWI in der jeweils geltenden Fassung alle Teilleistungen in demselben Semester bestanden werden. Wegen des untrennbaren Bezugs der Teilleistungen aufeinander ist abweichend von § 25 Abs. 1 Satz 2 MPOWIWI eine Wiederholung nur einer der nicht bestandenen Teilleistungen nicht möglich. Das Nichtbestehen einer der Teilleistungen erfordert die Wiederholung der gesamten Prüfung.</i>
11	Grading procedure	Written or oral (100%) Seminararbeit (60%), Präsentation/Präsentationspapier (20%) und Diskussionsbeitrag (20%)
12	Module frequency	Only in winter semester

13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h
14	Module duration	1 semester
15	Teaching and examination language	german
16	Bibliography	Wird im Rahmen der Veranstaltung bekannt gegeben

1	Module name 55550	Hauptseminar Controlling Advanced seminar: Controlling	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers. Anwesenheitspflicht	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Thomas Fischer
5	Contents	Wechselnde Themen aus dem Bereich Controlling
6	Learning objectives and skills	Die Studierenden lernen, ein aktuelles Fachproblem mit wissenschaftlichen Methoden zu einem eingegrenzten Themenbereich zu bearbeiten, einen Lösungsvorschlag zu entwickeln und diesen in einer wissenschaftlichen Diskussion zu verteidigen. Hierbei geben und erhalten die Studierenden im Rahmen interaktiver Präsentationen der Arbeitsergebnisse ein wertschätzendes Feedback über die erbrachte Leistung.
7	Prerequisites	Empfehlung: Besuch der Veranstaltungen Controlling of Business Systems und Controlling and Reporting.
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Miscellaneous Master of Science Economics 20212
10	Method of examination	Written or oral Seminararbeit (12-15 Seiten) und Präsentation (ca. 15 Minuten) und Diskussionsbeitrag (ca. 10 Minuten) <i>Es handelt sich um eine einheitliche Prüfung, bei der die einzelnen Teilleistungen untrennbar miteinander verbunden sind. Für das Bestehen des Moduls müssen nach § 19 Abs. 1 Satz 4 MPOWISO in der jeweils geltenden Fassung alle Teilleistungen in demselben Semester bestanden werden. Wegen des untrennbaren Bezugs der Teilleistungen aufeinander ist abweichend von § 25 Abs. 1 Satz 2 MPOWISO eine Wiederholung nur einer der nicht bestandenen Teilleistungen nicht möglich. Das Nichtbestehen einer der Teilleistungen erfordert die Wiederholung der gesamten Prüfung.</i> Aufgrund des Endes der Dienstzeit von Herrn Prof. Dr. Thomas M. Fischer zum 30.09.2025 ist es möglich, dass die Veranstaltung im Wintersemester 2025/26 nicht mehr angeboten wird.
11	Grading procedure	Written or oral (100%) Seminararbeit (60%) und Präsentation (30%) und Diskussionsbeitrag (10%)
12	Module frequency	Irregular
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h
14	Module duration	1 semester

15	Teaching and examination language	german
16	Bibliography	Wird im Rahmen der Veranstaltung bekannt gegeben

1	Module name 55600	Hauptseminar Risk and Insurance Advanced seminar: Risk and insurance	5 ECTS
2	Courses / lectures	Hauptseminar: Hauptseminar "Risk and Insurance" (2 SWS)	5 ECTS
3	Lecturers	Prof. Dr. Nadine Gatzert	

4	Module coordinator	Prof. Dr. Nadine Gatzert	
5	Contents	Ausgewählte Fragestellungen des Risiko- und Versicherungsmanagements (wechselnde und aktuelle Themenschwerpunkte).	
6	Learning objectives and skills	<p>Die Studierenden</p> <ul style="list-style-type: none"> • können eigenständig ein forschungsbezogenes Projekt zu einer aktuellen wissenschaftlichen Fragestellung des Versicherungs- und Risikomanagements bearbeiten; • analysieren und reflektieren dabei aktuelle Entwicklungen in der Versicherungswirtschaft; • können die zuvor erworbenen theoretischen Kenntnisse und Methoden anwenden und diese kritisch reflektieren; • erarbeiten sich dabei selbstständig neues Fachwissen auf dem neuesten Stand der Forschung sowie der praktischen Anwendungen; • können komplexe fachbezogene Inhalte klar und zielgruppengerecht präsentieren, in einer fachlichen Diskussion argumentativ vertreten und in einer schriftlichen Arbeit darlegen. 	
7	Prerequisites	Keine. Die Anmeldung erfolgt per E-Mail an wiso-vwrm@fau.de . Die Auswahl erfolgt auf Basis der Studienleistungen (die Teilnehmerzahl ist beschränkt). Weitere Informationen werden auf der Lehrstuhlhomepage bekannt gegeben.	
8	Integration in curriculum	semester: 3	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	<p>Seminar paper and presentation Seminararbeit (ca. 15 Seiten), Präsentation (15-25 Minuten) und wissenschaftlicher Diskurs (10-25 Minuten).</p> <p><i>Es handelt sich um eine einheitliche Prüfung, bei der die einzelnen Teilleistungen untrennbar miteinander verbunden sind. Für das Bestehen des Moduls müssen nach § 25 Abs.1 Satz 4 MPOWISO in der jeweils geltenden Fassung alle Teilleistungen in demselben Semester bestanden werden. Wegen des untrennbaren Bezugs der Teilleistungen aufeinander ist abweichend von § 25 Abs. 1 Satz 2 MPOWIWI eine Wiederholung nur einer der nicht bestandenen Teilleistungen nicht möglich. Das Nichtbestehen einer der Teilleistungen erfordert die Wiederholung der gesamten Prüfung.</i></p>	
11	Grading procedure	Seminar paper and presentation (100%)	

		Seminararbeit 50% und Vortrag 50%
12	Module frequency	Every semester
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h
14	Module duration	1 semester
15	Teaching and examination language	german
16	Bibliography	In Abhängigkeit vom Rahmenthema des Seminars (wird bei Vergabe der Seminararbeiten bekannt gegeben).

1	Module name 55605	Hauptseminar Betriebswirtschaftliche Steuerlehre Advanced seminar: Business taxation	5 ECTS
2	Courses / lectures	Hauptseminar: Hauptseminar Betriebswirtschaftliche Steuerlehre (2 SWS)	5 ECTS
3	Lecturers		

4	Module coordinator	Prof. Dr. Frank Hechtner	
5	Contents	In dem Seminar werden wechselnde Themen der Betriebswirtschaftlichen Steuerlehre behandelt, die einen aktuellen Themenbezug aufweisen. Das Seminar bereitet auf die Anfertigung einer Masterarbeit im Bereich der Betriebswirtschaftlichen Steuerlehre vor.	
6	Learning objectives and skills	Die Studierenden können aktuelle steuerliche Fragestellungen mit wissenschaftlichen Methoden im Rahmen einer eigenen Seminararbeit bearbeiten und hierbei eigenständig Lösungsvorschläge erarbeiten. Hierbei ist es ihnen ferner möglich, ihre Problemstellung in das aktuelle Forschungsprogramm der Betriebswirtschaftlichen Steuerlehre einzuordnen. Darüber hinaus soll das Hauptseminar auf das Anfertigen einer Masterarbeit im Bereich der Betriebswirtschaftlichen Steuerlehre vorbereiten.	
7	Prerequisites	Es wird empfohlen, dass die Veranstaltungen Steuerliche Gewinnermittlung oder Unternehmenssteuerrecht belegt wurden. Studierende habe sich für die Teilnahme über den Lehrstuhl zu bewerben.	
8	Integration in curriculum	no Integration in curriculum available!	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	Presentation and written assignment	
11	Grading procedure	Presentation and written assignment (100%) Seminararbeit (100%)	
12	Module frequency	Every semester	
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h	
14	Module duration	1 semester	
15	Teaching and examination language	german	
16	Bibliography	Die relevante Literatur wird zu Beginn der Veranstaltung bekannt gegeben.	

1	Module name 55615	Steuerwirkung und Steuerplanung Tax effects and tax planning	5 ECTS
2	Courses / lectures	Vorlesung: Steuerwirkung und Steuerplanung (2 SWS) Übung: Steuerwirkung und Steuerplanung Übung (2 SWS)	2,5 ECTS 2,5 ECTS
3	Lecturers		

4	Module coordinator	Prof. Dr. Frank Hechtner
5	Contents	Das Modul führt in die Steuerwirkungslehre ein und analysiert, was unter Steuerplanung zu verstehen ist. In dem Modul werden unterschiedliche Konzepte vorgestellt, um Steuerwirkungen zu identifizieren und zu quantifizieren. Hierbei erstrecken sich die angesprochenen Steuerwirkungen u.a. auf die Rechtsformwahl, die Renditewirkung der Besteuerung und ausgewählte Einzelaspekte der Ertragsbesteuerung.
6	Learning objectives and skills	Die Studierenden erlernen, welche unterschiedlichen Steuerwirkungen aus der Befolgung der Steuergesetze mit Fokus auf die Ertragsbesteuerung entstehen. Nach Abschluss des Moduls sind die Studierenden in der Lage, unterschiedliche Steuerwirkungen unter Anwendung der gültigen Steuergesetze zu identifizieren und zu quantifizieren.
7	Prerequisites	Es wird empfohlen, dass die Veranstaltungen Steuerliche Gewinnermittlung oder Unternehmenssteuerrecht belegt wurden.
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Miscellaneous Master of Science Economics 20212
10	Method of examination	Written examination (90 minutes)
11	Grading procedure	Written examination (100%)
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 50 h Independent study: 100 h
14	Module duration	1 semester
15	Teaching and examination language	german
16	Bibliography	Die relevante Literatur wird zu Beginn der Veranstaltung bekannt gegeben.

1	Module name 55675	Anwendung statistischer Methoden im Risikomanagement von Finanzinstituten Applying statistical methods for risk management in financial institutions	5 ECTS
2	Courses / lectures	Vorlesung mit Übung: Anwendung statistischer Methoden im Risikomanagement von Finanzinstituten (4 SWS)	5 ECTS
3	Lecturers	apl. Prof. Dr. Matthias Fischer	

4	Module coordinator	Prof. Dr. Jonas Dovern apl. Prof. Dr. Matthias Fischer
5	Contents	Statistische Grundlagen (z.B. Ergebnisse der Extremwertstatistik, Schätzung von Verteilungsparameter); Ausgewählte Modelle zur Messung von Kreditrisiken, Marktrisiken, Operationelle Risiken
6	Learning objectives and skills	Einschätzen der o.g. Verfahren und Kompetenz in deren Anwendung mittels statistischer Programmpakete (insb. R) Analytische Bewertung und Analyse der Ergebnisse
7	Prerequisites	Einführende Veranstaltungen der Statistik in einschlägigen BA-Studiengängen
8	Integration in curriculum	semester: 2;4
9	Module compatibility	Miscellaneous Master of Science Economics 20212
10	Method of examination	Oral (30 minutes)
11	Grading procedure	Oral (100%)
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h
14	Module duration	1 semester
15	Teaching and examination language	german
16	Bibliography	Quantitative Risk Management Concepts, Techniques and Tools - Revised Edition Alexander J. McNeil, Rüdiger Frey & Paul Embrechts (2015); Introduction to Credit Risk Modeling, Second Edition (Chapman & Hall/CRC Financial Mathematics) Christian Bluhm, Ludger Overbeck, Christoph Wagner 2008

1	Module name 55676	Extremwertstatistik mit Anwendungen in Finanz- und Versicherungsmärkten Applying extreme value analysis in financial and insurance markets	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	apl. Prof. Dr. Matthias Fischer	
5	Contents	Begriffe und Wiederholungen; Univariate Extremwerttheorie (GEV als Modell für Maxima, GPD als Modell für Überschreitungen, Tail Index Schätzung); Bivariate Extremwerttheorie (Copula, Tailabhängigkeits-Koeffizienten (TDC)); Extremwerttheorie stationäre Zeitreihen (Grenzwertsätze, Extremwertindex)	
6	Learning objectives and skills	Einschätzen der o.g. Verfahren und Kompetenz in deren Anwendung mittels statistischer Programmpakete (insb. R) Analytische Bewertung und Analyse der Ergebnisse	
7	Prerequisites	Einführende Veranstaltungen der Statistik in einschlägigen BA-Studiengängen	
8	Integration in curriculum	semester: 3	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	Oral (30 minutes)	
11	Grading procedure	Oral (100%)	
12	Module frequency	Only in winter semester	
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h	
14	Module duration	1 semester	
15	Teaching and examination language	german	
16	Bibliography	Embrechts/ Klüppelberg/ Mikosch: Modelling Extremal Events for Insurance and Finance. Springer, Berlin, 2001 Embrechts/ Frey/ McNeil: Quantitative Risk Management. Princeton, 2005	

1	Module name 55850	Seminar zur Arbeitsmarktsoziologie Seminar in labor market sociology	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers. Es besteht Anwesenheitspflicht.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Martin Abraham
5	Contents	<ul style="list-style-type: none"> • Vertiefung zentraler Theorien, Methoden und Themenfelder der Arbeitsmarktsoziologie • Eigenständig Erarbeitung von Themenfeldern, Forschungsfragen und Forschungsdesigns
6	Learning objectives and skills	<p>Die Studierenden</p> <ul style="list-style-type: none"> • erwerben vertiefte Kenntnisse über Arbeitsmarktsoziologie, d.h. den Zusammenhang gesellschaftlicher Rahmenbedingungen und Prozesse des Arbeitsmarktes • erwerben Kompetenz, Forschungsfragen in diesem Bereich anhand von Literatur und Daten eigenständig zu analysieren • erwerben vertiefte Kompetenz zur kritischen Beurteilung von politischen Programmen und Maßnahmen im Bereich des Arbeitsmarktes
7	Prerequisites	Grundlegende Kenntnisse der Arbeitsmarktsoziologie
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Miscellaneous Master of Science Economics 20212
10	Method of examination	Written assignment Presentation
11	Grading procedure	Written assignment (100%) Presentation (pass/fail)
12	Module frequency	Only in winter semester
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h
14	Module duration	1 semester
15	Teaching and examination language	german
16	Bibliography	Abraham, Martin, und Thomas Hinz (Hrsg.) (2018): Arbeitsmarktsoziologie. 3. Aufl., Opladen: Westdeutscher Verlag.

1	Module name 55860	Seminar zur Wirtschaftssoziologie Sociology of economics	5 ECTS
2	Courses / lectures	Masterseminar: Seminar zur Wirtschaftssoziologie (2 SWS) Es besteht Anwesenheitspflicht.	5 ECTS
3	Lecturers	Prof. Dr. Martin Abraham	

4	Module coordinator	Prof. Dr. Martin Abraham Prof. Dr. Tobias Wolbring
5	Contents	<ul style="list-style-type: none"> • Vertiefung zentraler Theorien, Methoden und Themenfelder der Wirtschaftssoziologie • Eigenständige Erarbeitung von Themenfeldern, Forschungsfragen und Forschungsdesigns
6	Learning objectives and skills	<p>Die Studierenden</p> <ul style="list-style-type: none"> • haben vertiefte Kenntnisse über den Zusammenhang zwischen gesellschaftlichen Rahmenbedingungen und wirtschaftlichen Prozessen • besitzen umfassende Kompetenz, Forschungsfragen in diesem Bereich anhand von Literatur und Daten eigenständig zu analysieren • erwerben vertiefte Kompetenz zur kritischen Beurteilung von politischen Programmen und Maßnahmen im Bereich der Wirtschaft • verfügen über vertiefte Kenntnisse zur Beurteilung und Anwendung von Strategien zur Steuerung von Organisationen im Wirtschaftsprozess
7	Prerequisites	Keine
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Miscellaneous Master of Science Economics 20212
10	Method of examination	Presentation Written assignment
11	Grading procedure	Presentation (pass/fail) Written assignment (100%)
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h
14	Module duration	1 semester
15	Teaching and examination language	german
16	Bibliography	Portes, Alejandro (2010) Economic Sociology. A systematic inquiry. Princeton, NJ: Princeton University Press. Smelser, Neil, and Richard Swedberg (Eds.). 2005. The Handbook of Economic Sociology. Second Edition. New York: Russell Sage Foundation.

1	Module name 55922	Arbeitsmarkt und Haushalt Labor market and household decisions	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers. <i>Es besteht Anwesenheitspflicht.</i>	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Martin Abraham
5	Contents	<ul style="list-style-type: none"> • Vertiefung zentraler Theorien, Methoden und Themenfelder im Bereich Arbeitsmarkt und Haushalt • Eigenständig Erarbeitung von Themenfeldern und Forschungsfragen • Diskussion von Forschungsdesigns, aktueller Befunde, gesellschaftlicher Implikat
6	Learning objectives and skills	Die Studierenden erwerben vertiefte Kenntnisse und spezialisiertes Wissen über einen Teilbereich der Arbeitsmarktsoziologie, d.h. den Zusammenhang von Haushalt/Familie und Prozesse des Arbeitsmarktes. Sie erwerben umfassende und spezialisierte Kompetenz, Forschungsfragen in diesem Bereich anhand von Literatur und Daten eigenständig zu analysieren. Sie können empirische Forschungsarbeiten im Bereich des Arbeitsmarktes kritisch beurteilen. Sie können Fragestellungen und Befunde in Gruppenarbeit konzise präsentieren und sozialpolitische Schlussfolgerungen mit den Teilnehmenden argumentativ diskutieren.
7	Prerequisites	Grundlegende Kenntnisse der Arbeitsmarktsoziologie Die Teilnehmerzahl ist auf maximal 20 Studierende begrenzt.
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Miscellaneous Master of Science Economics 20212
10	Method of examination	Presentation Written assignment
11	Grading procedure	Presentation (30%) Written assignment (70%)
12	Module frequency	Only in winter semester
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h
14	Module duration	1 semester
15	Teaching and examination language	german
16	Bibliography	Abraham, Martin, und Thomas Hinz (Hrsg.) (2018): Arbeitsmarktsoziologie. 3. Aufl., Opladen: Westdeutscher Verlag.

1	Module name 55960	Spatial economics	5 ECTS
2	Courses / lectures	Vorlesung: MA V Spatial Economics (2 SWS) Übung: MA Üb Spatial Economics (2 SWS)	2,5 ECTS 2,5 ECTS
3	Lecturers	Prof. Dr. Matthias Wrede Ramona Müller	

4	Module coordinator	Prof. Dr. Matthias Wrede
5	Contents	Urban Economics, Trade, Mobility, and Agglomeration, Spatial Concentration, Regional Policy
6	Learning objectives and skills	<p>After successful completion of this course,</p> <ul style="list-style-type: none"> • Students are able to describe and to internationally compare the regional patterns of major economic activities in terms of stylized facts. • Students are able to present, interpret, and discuss selected theories in regional and urban economics. • Students are able to apply and assess selected empirical methods in spatial economics. • Students are able to assess empirical tests of selected hypotheses from theories in regional and urban economics to evaluate and critically examine their informative value. • Students are able to discuss and evaluate regional political implications of selected economic theories in regional and urban economics. • Students will assess, evaluate and discuss selected recent research papers in English.
7	Prerequisites	Microeconomics and Econometrics I recommended
8	Integration in curriculum	semester: 2
9	Module compatibility	Miscellaneous Master of Science Economics 2012 Specialisation: Labour Economics Master of Science Economics 2012 Specialisation: Public Economics Master of Science Economics 2012
10	Method of examination	Written examination (60 minutes) Presentation
11	Grading procedure	Written examination (80%) Presentation (20%)
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 60 h Independent study: 90 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Will be announced in the course.

1	Module name 56080	Praxisseminar Practical seminar	5 ECTS
2	Courses / lectures	Seminar: Praxisseminar	5 ECTS
3	Lecturers		

4	Module coordinator	Prof. Dr. Andreas Fürst
5	Contents	Das Praxisseminar beinhaltet die eigenständige Bearbeitung einer praxisbezogenen Aufgabenstellung (in der Regel in Kooperation mit einem Praxispartner).
6	Learning objectives and skills	Im Praxisseminar zeigen die Studierenden, dass sie in der Lage sind, ihre zuvor erworbenen theoretischen und methodischen Kompetenzen eigenständig auf eine praxisrelevante Aufgabenstellung anzuwenden. Hierbei müssen die Studierenden eigenständig die Strukturierung, Analyse, Bewertung und Entwicklung einer wissenschaftlich und methodisch fundierten Lösung zur Aufgabenstellung erarbeiten. Die Studierenden sind in der Lage, mithilfe ihres spezialisierten und vertieften Fachwissens Ideen und Konzepte zur Lösung dieses wissenschaftlichen Problems zu entwickeln. Dabei müssen sich die Studierenden neben aktuellen und sehr spezifischen Marketingkenntnissen auch Fachkenntnisse angrenzender Disziplinen (z.B. Wirtschaftsinformatik u.v.w.) eigenständig erschließen. Die Studierenden führen das Projekt auf der Basis breiter und spezialisierter Forschungsmethodik durch. Die Lernprozesse können sie dabei selbständig gestalten, reflektieren und methodsch erweitern.
7	Prerequisites	Nach Maßgabe der anbietenden Lehrstühle. Die Teilnehmerzahl ist begrenzt. Bei mehr Anmeldungen als verfügbaren Plätzen werden Studierende, bei denen die Veranstaltung zum Kernbereich gehört, vorrangig behandelt. Bitte informieren Sie sich über die Anmeldeformalität auf der Homepage des Lehrstuhls.
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Miscellaneous Master of Science Economics 20212
10	Method of examination	Presentation (30 minutes)
11	Grading procedure	Presentation (100%)
12	Module frequency	Irregular
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h
14	Module duration	1 semester
15	Teaching and examination language	german
16	Bibliography	Wird in der Veranstaltung bekannt gegeben

1	Module name 56090	Fremdsprachenmodul Foreign language module	5 ECTS
2	Courses / lectures	Übung: Francais économique pour Master (4 SWS, SoSe 2025)	5 ECTS
		Übung: Englisch: Writing lab1 (English for special purposes 1) (2 SWS, SoSe 2025)	2,5 ECTS
		Übung: Englisch: Writing lab2 (English for special purposes 2) (2 SWS, SoSe 2025)	2,5 ECTS
		Übung: Englisch Master: English for Business Purposes (2 SWS, SoSe 2025)	2,5 ECTS
3	Lecturers	Dr. Corina Petersilka Kévin Bouillard Julie Porlein Balbiro Dhuga Rachel Gracey	

4	Module coordinator	Dr. Mario Oesterreicher	
5	Contents	Dieses Modul hebt die Fremdsprachenkenntnisse der Studierenden auf ein akademisches Niveau hinsichtlich der Sprech- und Schreibfähigkeit und setzt einen spezifischen Marketingfokus. Die Veranstaltung I (a-c) bereitet die Studierenden aufgabenspezifisch auf die Arbeit mit und das Schreiben von fremdsprachigen wissenschaftlichen Artikeln vor. Die Veranstaltung II (a-c) verbessert die kommunikativen Fähigkeiten im Hinblick auf ein akademisches Niveau, vermittelt interkulturelle Kompetenz und bereitet die Studierenden somit optimal auf einen akademischen oder beruflichen Auslandsaufenthalt vor.	
6	Learning objectives and skills	Dieses Modul hat zum Ziel, die Studierenden durch die Vermittlung einer hohen Fremdsprachenkompetenz im akademischen und marketingspezifischen Kontext während ihres Masterstudiums zu unterstützen und auf ihr späteres Berufsleben vorzubereiten.	
7	Prerequisites	Niveau C1 des Gemeinsamen Europäischen Referenzrahmens Feststellbar z.B. durch einen Einstufungstest	
8	Integration in curriculum	no Integration in curriculum available!	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	Written examination (60 minutes) Written examination (60 minutes) Written examination (60 minutes) Written examination (60 minutes) Written examination Written examination (60 minutes) Written or oral Written examination (60 minutes)	
11	Grading procedure	Written examination (50%) Written examination (50%)	

		Written examination (50%) Written examination (50%) Written examination (50%) Written examination (50%) Written or oral (50%) Written examination (50%)
12	Module frequency	Only in winter semester
13	Workload in clock hours	Contact hours: 60 h Independent study: 90 h
14	Module duration	2 semester
15	Teaching and examination language	german spanish
16	Bibliography	

1	Module name 56120	Aktuelle Fragen aus FACT III Current issues in FACT III	5 ECTS
2	Courses / lectures	<p>Vorlesung: VL Deutsches, europäisches und internationales Wettbewerbsrecht (2 SWS)</p> <p>Vorlesung: Juristische Methodenlehre im Steuerrecht (1 SWS)</p> <p>Seminar: Aktuelle Fragen aus FACT "Textmining in Sustainability Reports" (2 SWS)</p> <p>Vorlesung: Aktuelle Fragen aus FACT I, III: Internationale Steuerplanung (1 SWS)</p> <p>Seminar: Blockchain Data Analytics (2 SWS)</p> <p>Seminar: FACT-Hackathon</p>	<p>5 ECTS</p> <p>2,5 ECTS</p> <p>5 ECTS</p> <p>2,5 ECTS</p> <p>5 ECTS</p> <p>5 ECTS</p>
3	Lecturers	<p>PD Dr. Stephanie Jungheim-Hertwig</p> <p>Dr. Klaus Meßerschmidt</p> <p>Prof. Dr. Christian Rödl</p> <p>Prof. Dr. Devrimi Kaya</p> <p>Hendrik von der Lippe</p> <p>Marius Weiß</p>	

4	Module coordinator	<p>Prof. Dr. Thomas Fischer</p> <p>Prof. Dr. Nadine Gatzert</p> <p>Prof. Dr. Frank Hechtner</p> <p>Prof. Dr. Klaus Henselmann</p> <p>Prof. Dr. Jochen Hoffmann</p> <p>Prof. Dr. Devrimi Kaya</p> <p>Prof. Dr. Marvin Nipper</p>	
5	Contents	<p>Inhalte der Veranstaltung sind ausgewählte Themen aus dem Bereich Finance, Auditing, Controlling und Taxation. Hierzu gehören insbesondere aktuelle, nicht regelmäßig angebotene Veranstaltungen durch Honorarprofessoren, Lehrbeauftragte oder sonstige Gastreferentinnen bzw. -referenten.</p> <p>Die aktuellen Lehrveranstaltungen sind online hier zu entnehmen: Master FACT - Master FACT (fau.de)</p> <p>Alternativ können Vorlesungen und Seminare zu Themen aus dem Bereich FACT belegt werden, die nicht in vergleichbarer Form im Master-Studiengang FACT angeboten werden. Diese Module können an FAU-Fachbereichen und -Fakultäten oder an ausländischen Universitäten belegt werden.</p> <p>Die Lehrveranstaltungen müssen einen Bezug zu Inhalten mit folgenden Schwerpunkten aufweisen:</p> <ul style="list-style-type: none"> • Finanzierung und Banken, Versicherungswirtschaft und Risikomanagement, • Rechnungswesen und Prüfungswesen, Wirtschaftsprivatrecht • Controlling 	

		<ul style="list-style-type: none"> Steuerlehre, Steuerrecht
6	Learning objectives and skills	<p>Die Studierenden verfügen in diesen Bereichen über umfassendes, detailliertes und spezialisiertes Wissen auf dem neuesten Erkenntnisstand einschließlich der praktischen Anwendung sowie eines kritischen Verständnisses der Theorien und Methoden.</p> <p>Die Studierenden können dieses Wissen kombinieren und zur umfassenden Beurteilung von konkreten Situationen aus der Praxis anwenden. Dazu gehört es auch, die erforderlichen Informationen zu beschaffen, Analysemodelle zu entwickeln, erforderliche Auswertungen auszuwählen, Vergleiche vorzunehmen, das Gesamtergebnis zu begründen und verteidigen sowie die Belastbarkeit der Ergebnisse zu hinterfragen.</p> <p>Bei Auslandsaufenthalt:</p> <p>Die Studierenden</p> <ul style="list-style-type: none"> untersuchen Fragestellungen aus den Bereichen Finance, Auditing, Controlling, Taxation, erwerben dabei die in den Lernzielen des jeweiligen ausländischen Moduls angestrebten Fach-, Methoden-, Selbst- und Sozialkompetenzen, entwickeln interkulturelle Kompetenzen durch die Zusammenarbeit mit Menschen aus anderen Kulturen, können ihr Wissen aus dem Bereich FACT in klarer und eindeutiger Weise in einer Fremdsprache vermitteln
7	Prerequisites	<p>keine; bitte beachten Sie aber ggf. die individuellen Vorgaben der einzelnen Lehrstühle zu ihren Veranstaltungen.</p> <p>Bei Auslandsaufenthalt: Learning Agreement mit einem Lehrstuhl des FACT-Instituts</p>
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Miscellaneous Master of Science Economics 20212
10	Method of examination	<p>Written or oral (60 minutes) Written or oral (60 minutes)</p> <p>Belegung von zwei Veranstaltungen zu je 2,5 ECTS oder einer Veranstaltung zu 5 ECTS: Studien-/Prüfungsleistung abhängig von der Wahl der Lehrveranstaltung durch die Studierenden, ggf. auch Kombination möglich.</p> <p>Es handelt sich bei um eine einheitliche Prüfung, bei der die einzelnen Teilleistungen untrennbar miteinander verbunden sind. Für das Bestehen des Moduls müssen nach § 19 Abs. 1 Satz 4 MPOWIWI (in der jeweils geltenden Fassung) alle Teilleistungen in demselben Semester bestanden werden. Wegen des untrennbaren Bezugs der Teilleistungen aufeinander ist abweichend von § 25 Abs. 1 Satz 2 MPOWIWI eine Wiederholung nur einer der nicht bestandenen Teilleistungen nicht möglich. Das</p>

		<p>Nichtbestehen einer der Teilleistungen erfordert die Wiederholung der gesamten Prüfung.</p> <p>Bei Auslandsaufenthalt: Studien-/Prüfungsleistung abhängig von den Vorgaben der ausländischen Hochschule</p>
11	Grading procedure	<p>Written or oral (50%) Written or oral (50%) Belegung von zwei Veranstaltungen zu je 2,5 ECTS oder einer Veranstaltung zu 5 ECTS: Berechnung der Modulnote in Abhängigkeit der durch die Studierenden gewählten Lehrveranstaltung</p> <p>Bei Auslandsaufenthalt: Variabel (100%) Berechnung der Modulnote nach einem Äquivalenzschlüssel unter der Gewichtung der im Ausland erbrachten ECTS-Volumina je absolvierter Lehrveranstaltung</p>
12	Module frequency	Every semester
13	Workload in clock hours	Contact hours: 60 h Independent study: 90 h
14	Module duration	1 semester
15	Teaching and examination language	german or english
16	Bibliography	Wird im Rahmen der Veranstaltung bekannt gegeben

1	Module name 56130	R for insurance and finance	5 ECTS
2	Courses / lectures	Seminar: Seminar "R for Insurance and Finance" (2 SWS)	5 ECTS
3	Lecturers	Prof. Dr. Nadine Gatzert	

4	Module coordinator	Prof. Dr. Nadine Gatzert	
5	Contents	Das Seminar vermittelt fundierte Kenntnisse bei der Arbeit und im Umgang mit der Programmiersprache R im Bereich Insurance & Finance durch dessen Anwendung bei der Risikoeinschätzung von Unternehmen sowie der computerbasierten Darstellung und Bewertung von komplexen Finanzinstrumenten. Inhalte umfassen zunächst eine Einführung in R, Monte-Carlo-Simulationen in R, statistische Methoden und Optimierung sowie die Umsetzung einer Fallstudie am Beispiel eines Versicherungsunternehmens.	
6	Learning objectives and skills	<p>Die Studierenden</p> <ul style="list-style-type: none"> • erlernen grundlegende und vertiefte Programmierkenntnisse in R und können diese unter Berücksichtigung von zuvor gelernten Theorien und Methoden auf relevante Fragestellungen aus Wissenschaft und Praxis im Bereich Insurance & Finance anwenden; • berechnen und interpretieren Kennzahlen zur Finanz- und Risikoanalyse eines Unternehmens; • quantifizieren und beurteilen im Rahmen von Fallstudien die Risikosituation von Versicherungsunternehmen. 	
7	Prerequisites	Keine. Anmeldung über StudOn (Termine werden auf der Lehrstuhlhomepage bekannt gegeben - beschränkte Teilnehmerzahl, erste Stunde gleiche Chance ("StudOn-Happy-Hour"), danach Windhundverfahren).	
8	Integration in curriculum	semester: 2	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	<p>Electronic examination Klausur (60 Minuten)</p> <p><i>Im Sommersemester besteht vorlesungsbegleitend die Möglichkeit einer freiwilligen Notenverbesserung, wobei eine Verbesserung um bis zu 0,3 Notenstufen erfolgen kann. Dazu können Studierende auf StudOn vier je ca. 10-minütige Online-Kurztests (Quizze) zur Aufbereitung des Vorlesungsstoffs bearbeiten. Die Notenverbesserung erfolgt, wenn die Quizze erfolgreich bearbeitet wurden sowie die Klausur mit der Note 4,0 oder besser bestanden wurde. Etwaige Quizzergebnisse aus dem Sommersemester werden für eine Nachholprüfung im Wintersemester übernommen.</i></p>	
11	Grading procedure	Electronic examination (100%)	

12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h
14	Module duration	1 semester
15	Teaching and examination language	german
16	Bibliography	Wird im Rahmen der Veranstaltung bekannt gegeben.

1	Module name 56170	Einführung in die Bildungssoziologie Introduction to the sociology of education	5 ECTS
2	Courses / lectures	Vorlesung: Einführung in die Bildungssoziologie (2 SWS) Es besteht Anwesenheitspflicht.	5 ECTS
3	Lecturers	Alina Gutwein	

4	Module coordinator	Prof. Dr. Tobias Wolbring
5	Contents	<ul style="list-style-type: none"> • Vertiefung zentraler Theorien, Methoden und Themenfelder der Bildungssoziologie
6	Learning objectives and skills	<p>Die Studierenden</p> <ul style="list-style-type: none"> • haben vertiefte Kenntnisse der Bildungssoziologie, d.h. über den Zusammenhang zwischen gesellschaftlichen Rahmenbedingungen, dem Bildungssystem und wirtschaftlichen Prozessen • besitzen die Kompetenz, Forschungsfragen in diesem Bereich anhand von Literatur und Daten eigenständig zu analysieren • erwerben vertiefte Kompetenz zur kritischen Beurteilung von politischen Programmen und Maßnahmen im Bereich der Bildung • haben vertiefte Kenntnisse zur Beurteilung und Anwendung von Strategien zur Steuerung des Bildungssystems und seiner Organisationen.
7	Prerequisites	Keine
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Miscellaneous Master of Science Economics 20212
10	Method of examination	Written examination (60 minutes)
11	Grading procedure	Written examination (100%)
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h
14	Module duration	1 semester
15	Teaching and examination language	german
16	Bibliography	Becker (2011). Lehrbuch der Bildungssoziologie Wiesbaden: VS Verlag

1	Module name 56180	Seminar zur Bildungssoziologie Seminar in sociology of education	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers. <i>Es besteht Anwesenheitspflicht.</i>	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Martin Abraham Prof. Dr. Tobias Wolbring
5	Contents	<ul style="list-style-type: none"> • Vertiefung zentraler Theorien, Methoden und Themenfelder der Bildungssoziologie • Eigenständige Erarbeitung von Themenfeldern, Forschungsfragen und Forschungsdesigns
6	Learning objectives and skills	<p>Die Studierenden</p> <ul style="list-style-type: none"> • haben vertiefte Kenntnisse der Bildungssoziologie, d.h. über den Zusammenhang zwischen gesellschaftlichen Rahmenbedingungen, dem Bildungssystem und wirtschaftlichen Prozessen • besitzen die Kompetenz, Forschungsfragen in diesem Bereich anhand von Literatur eigenständig zu analysieren • besitzen die Kompetenz, die Anwendung von Methoden und Daten auf eigene Forschungsfragen zu diskutieren • erwerben vertiefte Kompetenz zur kritischen Beurteilung empirischer Evidenz im Bereich der soziologischen Bildungsforschung • erwerben vertiefte Kompetenz zur Diskussion von Strategien zur Steuerung des Bildungssystems und seiner Organisationen aus bildungssoziologischer Perspektive
7	Prerequisites	Keine
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Miscellaneous Master of Science Economics 20212
10	Method of examination	Presentation Written assignment
11	Grading procedure	Presentation (pass/fail) Written assignment (100%)
12	Module frequency	Only in winter semester
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h
14	Module duration	1 semester
15	Teaching and examination language	german

Kopp, Johannes (2009) Bildungssoziologie. Eine Einführung anhand empirischer Studien. Wiesbaden: VS Verlag

1	Module name 56220	Strategic supply management	5 ECTS
2	Courses / lectures	Tutorium: Tutorium Strategic Supply Management (3 SWS)	-
3	Lecturers		

4	Module coordinator	Prof. Dr.-Ing. Eva Maria Hartmann
5	Contents	Die Kernkompetenzen die dieser Kurs vermittelt, fokussieren sich um die grundlegenden Elemente des strategischen Beschaffungsmanagements. Hierzu gehören Themen wie die Berücksichtigung von Risiken und Unsicherheiten in Supply Chains, das organisationsübergreifende Beziehungsmanagement, die Entwicklung von Supply Chains in Wachstumsmärkten und die Schaffung nachhaltiger grüner Supply Chains.
6	Learning objectives and skills	Die Teilnehmer werden in alle wesentlichen Aspekte der (strategischen) Beschaffung, inkl. der Leistungsmessung und Steuerung eingeführt. Hierbei wird ein Schwerpunkt auf den Transfer der theoretischen Grundlagen auf praktische Anwendung gelegt. Dies wird anhand von Praxisbeispielen und praxisnahen Fallstudien sichergestellt.
7	Prerequisites	Keine
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Miscellaneous Master of Science Economics 20212
10	Method of examination	Case study Written examination (60 minutes)
11	Grading procedure	Case study (30%) Written examination (70%)
12	Module frequency	Only in winter semester
13	Workload in clock hours	Contact hours: 60 h Independent study: 90 h
14	Module duration	1 semester
15	Teaching and examination language	german
16	Bibliography	Wird im Kurs bekanntgegeben.

1	Module name 56231	Versorgungsmanagement I Health services management I	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers. Es besteht Anwesenheitspflicht.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Oliver Schöffski
5	Contents	Durch die Einführung des Digitale-Versorgung-Gesetzes soll die Digitalisierung im deutschen Gesundheitswesen vorangetrieben werden. Seitdem sind unter anderem Gesundheits-Apps und Digitale Gesundheitsanwendungen (DiGAs) weitläufig diskutierte Themen. Das Seminar im WS 23/24 findet in Zusammenarbeit mit einer bereits in den App-Stores erhältlichen Gesundheits-App statt, die sich aktuell auch auf dem Weg zur Zertifizierung zur DiGA befindet. In dieser Veranstaltung liegt der Fokus auf der vertieften Betrachtung der zunehmenden Digitalisierung im Gesundheitswesen und den sich daraus ergebenden nachhaltigen Veränderungen in den Behandlungsmöglichkeiten. Die Studierenden haben die Möglichkeit, mittels verschiedener methodischer Ansätze die vielfältigen Facetten der Gesundheits-App zu analysieren (z.B. Kosten(-vorteile), Patientenperspektive etc.)
6	Learning objectives and skills	Die Studierenden <ul style="list-style-type: none"> • erhalten einen Einblick in die verschiedenen Facetten der Versorgung mit Gesundheits-Apps und können diese diskutieren und gegenüberstellen • können mit den erlernten Methoden umgehen und diese selbstständig auf Fragestellungen anwenden bzw. übertragen • können eine vorgegebene Themenstellung eigenständig bearbeiten und die Ergebnisse schriftlich und mündlich präsentieren • können von Studierenden vorgebrachte Ergebnisse angemessen bewerten und Feedback formulieren
7	Prerequisites	Grundkenntnisse im Gesundheitsmanagement (aber keine formale Voraussetzung). Die Teilnehmerzahl ist begrenzt. Die Anmeldung erfolgt per Anmeldeformular (siehe Lehrstuhlhomepage), der Anmeldezeitraum wird rechtzeitig bekannt gegeben.
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Miscellaneous Master of Science Economics 20212
10	Method of examination	Presentation Written assignment Präsentation: ca. 20 Minuten pro Person

		Hausarbeit: ca. 15 Seiten pro Person
11	Grading procedure	Presentation (30%) Written assignment (70%)
12	Module frequency	Only in winter semester
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h
14	Module duration	1 semester
15	Teaching and examination language	german
16	Bibliography	Schöffski / Graf von der Schulenburg (Hrsg.): Gesundheitsökonomische Evaluationen, 3. oder 4. Aufl., Berlin u. a., 2007, 2008 oder 2012.

1	Module name 56270	Financial engineering and structured finance	5 ECTS
2	Courses / lectures	Vorlesung: Financial Engineering und Structured Finance (VL) (2 SWS) Übung: Financial Engineering und Structured Finance (ÜB) (1 SWS)	5 ECTS -
3	Lecturers	Prof. Dr. Hendrik Scholz Nicolas Webersinke Anja Stiller	

4	Module coordinator	Prof. Dr. Hendrik Scholz	
5	Contents	<ul style="list-style-type: none"> • Darstellung und Bewertung von Aktien-, Zinssatz- & Bondoptionen • Strukturierter Produkte im Fixed Income und Equity Bereich • Kapitalstruktur und Optionspreistheorie • Darstellung und Bewertung von Kreditderivaten 	
6	Learning objectives and skills	<p>Die Studierenden</p> <ul style="list-style-type: none"> • erarbeiten sich ein tiefgehendes Wissen über Aktien-, Zinssatz- und Bondoptionen, können deren Einsatzmöglichkeiten beurteilen und ihren Wert bestimmen. • wenden zentrale Kenntnisse der Optionspreistheorie an, um Bestandteile komplexer, strukturierter Fixed Income- und Equity-Produkte zu analysieren, diese zu bewerten und deren Wertbeitrag für Kunden einer Bank zu evaluieren. • können unter Berücksichtigung von Kundenpräferenzen eigenständig innovative Finanzprodukte entwickeln. • sind in der Lage die Positionen Eigen- und Fremdkapital von Unternehmen auf Basis der Optionspreistheorie zu bewerten. • können Instrumente zum Kreditrisikotransfer erläutern und deren Einsatzmöglichkeiten kritisch hinterfragen. 	
7	Prerequisites	keine	
8	Integration in curriculum	semester: 2	
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Macroeconomics and Finance Master of Science Economics 20212	
10	Method of examination	Written examination (60 minutes)	
11	Grading procedure	Written examination (100%)	
12	Module frequency	Only in summer semester	
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h	
14	Module duration	1 semester	
15	Teaching and examination language	german	
16	Bibliography	Hull, John C.: Options, futures and other derivatives	

Weitergehende, forschungsbezogene Literatur wird im Rahmen der
Veranstaltung bekannt gegeben

1	Module name 56441	Economic internship	5 ECTS
2	Courses / lectures	Seminar: Seminar zum Praktikumsmodul im DMSE Master (2 SWS)	-
3	Lecturers	Prof. Dr. Thiess Büttner Annalisa Tassi	

4	Module coordinator	Prof. Dr. Thiess Büttner Prof. Dr. Christian Merkl Prof. Dr. Claus Schnabel Prof. Dr. Harald Tauchmann Prof. Dr. Karl Gregor Zöttl
5	Contents	Economic internship with research institutes, international organizations, research departments of firms in relation to the Master specialisation (Public, Labor, Macro & Finance, Health, or Energy)
6	Learning objectives and skills	Students obtain the chance to familiarize themselves with labor market opportunities for economists and learn how to apply economic concepts and methods in practice. Students also expand their command of important soft skills, including presentation techniques and communication skills. The participants exchange their practical experiences and insights and develop a critical reflection on economic practice and job market opportunities.
7	Prerequisites	Students should have completed all courses of the first semester. Please note that internships started or completed before the start of the Masters programme will not be considered.
8	Integration in curriculum	semester: 2;3
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Energy Markets Master of Science Economics 20212 Specialisation: Health Economics Master of Science Economics 20212 Specialisation: Labour Economics Master of Science Economics 20212 Specialisation: Macroeconomics and Finance Master of Science Economics 20212 Specialisation: Public Economics Master of Science Economics 20212
10	Method of examination	Course achievement The exact requirements for recognition are set out in a prior written agreement with the professor in charge of the relevant specialisation. Typically, a six-week full-time internship is required, along with a report and a presentation.
11	Grading procedure	Course achievement (pass/fail)
12	Module frequency	Every semester
13	Workload in clock hours	Contact hours: 300 h Independent study: 0 h
14	Module duration	1 semester
15	Teaching and examination language	german or english

16	Bibliography	Please note: Interested students must apply directly to the external institution of interest. In principle, internships can be taken into account as long as they are sufficiently related to economic research and fit into one of the areas. An upfront written agreement with the respective lecturer is required. In this case, students should contact the professor in charge of the relevant specialisation before the start of the internship.
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1	Module name 56460	Unternehmenssteuerrecht Company taxation	5 ECTS
2	Courses / lectures	Vorlesung: VL Unternehmenssteuerrecht (2 SWS) Übung: UE Unternehmenssteuerrecht (0 SWS)	5 ECTS -
3	Lecturers	Prof. Dr. Roland Ismer Stefanie Güllich	

4	Module coordinator	Prof. Dr. Roland Ismer
5	Contents	<ul style="list-style-type: none"> • Vertiefte Darstellung von Körperschaftsteuer und Gewerbesteuer • Besonderes Gewicht auf Standardprobleme wie verdeckte Gewinnausschüttungen, verdeckte Einlagen und Hinzurechnungstatbestände • Grundlagen der Besteuerungskonzeption der Personengesellschaft • Grundlagen des Umwandlungssteuerrechts
6	Learning objectives and skills	Die Studierenden können unter Berücksichtigung der Systematik der Gesetze Fallfragen erfassen, beurteilen und systematisch lösen. Unter Anwendung juristischer Methoden auf fortgeschrittenem Niveau sowie Übertragung wissenschaftlicher Literatur zu aktuellen Forschungsfragen können die Studierenden die steuerlichen Fallgestaltungen gutachterlich prüfen.
7	Prerequisites	keine
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Miscellaneous Master of Science Economics 20212
10	Method of examination	Written examination (60 minutes)
11	Grading procedure	Written examination (100%)
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 60 h Independent study: 90 h
14	Module duration	1 semester
15	Teaching and examination language	german
16	Bibliography	Weitergehende, forschungsbezogene Literatur wird im Rahmen der Veranstaltung bekannt gegeben

1	Module name 56540	Lebensversicherung Life insurance	5 ECTS
2	Courses / lectures	Vorlesung: Vorlesung "Lebensversicherung" (2 SWS) Übung: Übung Lebensversicherung (1 SWS)	2,5 ECTS 2,5 ECTS
3	Lecturers	Prof. Dr. Nadine Gatzert	

4	Module coordinator	Prof. Dr. Nadine Gatzert
5	Contents	<ul style="list-style-type: none"> • Einführung in den Lebensversicherungsmarkt • Darstellung von klassischen und innovativen Lebensversicherungsprodukten (und den darin enthaltenen impliziten Optionen) • Versicherungsmathematische Aspekte: Bestimmung von Prämien und Deckungsrückstellungen auf Basis der typischen aktuariellen Rechnungsgrundlagen (Zins, Sterbetafeln) • Analyse und Bewertung von Fondsprodukten mit Garantien • Absicherung von Garantien in Fondsprodukten mit Kapitalanlagestrategien (u.a. Constant Proportion Portfolio Insurance)
6	Learning objectives and skills	<p>Die Studierenden können</p> <ul style="list-style-type: none"> • aktuelle Entwicklungen im Lebensversicherungsmarkt beurteilen und hinterfragen diese; • Prämien und Deckungsrückstellungen von klassischen Lebensversicherungsverträgen berechnen und kennen die zentralen Einflussgrößen; • klassische und fondsgebundene Lebensversicherungsprodukte mit verschiedenen Garantien bewerten und verschiedene Methoden der Bewertung vergleichen und Modellannahmen kritisch hinterfragen; • einschätzen, wie verschiedene Arten von Finanzgarantien abgesichert werden müssen und können hierfür auch Kapitalanlagestrategien anwenden; • ihre theoretischen Kenntnisse im Rahmen einer Monte-Carlo-Simulation in Excel umsetzen und auf praktische Fragestellungen anwenden.
7	Prerequisites	Keine.
8	Integration in curriculum	semester: 2
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Macroeconomics and Finance Master of Science Economics 20212
10	Method of examination	<p>Written examination (60 minutes)</p> <p><i>Im Sommersemester besteht vorlesungsbegleitend die Möglichkeit einer freiwilligen Notenverbesserung, wobei eine Verbesserung um bis zu 0,3 Notenstufen erfolgen kann. Dazu können Studierende auf StudOn vier je ca. 10-minütige Online-Kurztests (Quizze) zur Aufbereitung des Vorlesungsstoffs bearbeiten. Die Notenverbesserung erfolgt, wenn die Quizze</i></p>

		<i>erfolgreich bearbeitet wurden sowie die Klausur mit der Note 4,0 oder besser bestanden wurde. Etwaige Quizergebnisse aus dem Sommersemester werden für eine Nachholprüfung im Wintersemester übernommen.</i>
11	Grading procedure	Written examination (100%)
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h
14	Module duration	1 semester
15	Teaching and examination language	german
16	Bibliography	Die vorbereitende Literatur und auch die weitergehende, forschungsbezogene Literatur werden im Rahmen der Veranstaltung bekannt gegeben.

1	Module name 56780	Business ethics and corporate social responsibility Sustainability management, business ethics and corporate social responsibility	5 ECTS
2	Courses / lectures	Vorlesung: Business Ethics and Corporate Social Responsibility (2 SWS)	5 ECTS
3	Lecturers	Prof. Dr. Markus Beckmann	

4	Module coordinator	Prof. Dr. Markus Beckmann	
5	Contents	<p>This course combines several perspectives on normative issues in business. First, we take a moral psychology perspective to understand how morality helps us solve certain problems, but also creates pitfalls in the modern world. Second, we develop an ethical framework for navigating contentious issues and supporting the search for constructive solutions. Third, we apply this framework to analyze how (why) social and environmental goals are (not) achieved at the macro level. We will pay particular attention to the role of markets and their regulation. Fourth, we take the perspective of the individual firm and ask whether and to what extent firms need to integrate moral issues into their value creation processes. In this context, corporate social responsibility can serve as a means to implement these moral issues. We will therefore take a closer look at CSR, its origins, development and instruments. We conclude the course by discussing various applications and cases.</p>	
6	Learning objectives and skills	<p>After successfully completing this course, students will have developed the ability to:</p> <ul style="list-style-type: none"> • Explain key concepts from moral psychology and analyze how moral intuitions and biases influence ethical decision-making in business contexts. • Apply ethical theories and frameworks, such as social dilemmas, to navigate complex moral challenges in business, evaluate competing arguments, and construct well-reasoned ethical judgements. • Assess how markets and regulatory mechanisms facilitate or hinder the achievement of social and environmental goals at the macro level. • Critically examine the extent to which firms should integrate ethical considerations into their value creation processes and evaluate the implications of different approaches. • Evaluate the origins, development, and effectiveness of CSR strategies and instruments in addressing selected ethical and sustainability challenges. 	
7	Prerequisites	None	
8	Integration in curriculum	semester: 2;4	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	Electronic examination (60 minutes)	
11	Grading procedure	Electronic examination (100%)	
12	Module frequency	Only in summer semester	

13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Provided via StudOn

1	Module name 56790	Gesundheitsökonomie I Health economics I	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Harald Tauchmann	
5	Contents	Die Veranstaltung betrachtet das Gesundheitswesen aus mikroökonomischer Perspektive. Den Schwerpunkt der Veranstaltung bildet die Betrachtung von Krankenversicherungsmärkten und ihrer spezifischen Unvollkommenheiten, und Probleme (adverse Selektion, Moral Hazard, Risikoselektion), die sich aus den besonderen Eigenschaften des Gutes Gesundheit ergeben. Aus dieser Betrachtung werden Anforderungen an die Gestaltung eines Gesundheitssystems abgeleitet. Studierende sollten die Bereitschaft mitbringen, sich vertieft mit mikroökonomischen Modellen zu beschäftigen.	
6	Learning objectives and skills	Die Studierenden <ul style="list-style-type: none"> • erwerben fundiertes ökonomisches Wissen über das Gesundheitswesen, insbesondere bzgl. Krankenversicherungsmärkten, • analysieren die Besonderheiten von Gesundheitsmärkten im Rahmen theoretischer Modelle, • überprüfen deren Validität anhand empirischer Studien 	
7	Prerequisites	Grundkenntnisse in Mikroökonomie und Ökonometrie sollten vorhanden sein.	
8	Integration in curriculum	semester: 3	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	Written examination (90 minutes)	
11	Grading procedure	Written examination (100%)	
12	Module frequency	Only in winter semester	
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h	
14	Module duration	1 semester	
15	Teaching and examination language	german	
16	Bibliography	Breyer, F., Zweifel, P. & Kifmann, M. (2013): Gesundheitsökonomik, 6. Aufl., Springer. Sloan, F.A. & Hsieh, C.R. (2012): Health Economics, MIT Press. Folland, Sh., Goodman, A. & Stano, M. (2009): The Economics of Health and Health Care, 6th int. ed., Prentice Hall.	

1	Module name 56792	The Economics of Health Insurance The economics of health insurance	5 ECTS
2	Courses / lectures	Vorlesung: VL: The Economics of Health Insurance (2 SWS) Übung: Ü: The Economics of Health Insurance (1 SWS)	2,5 ECTS 2,5 ECTS
3	Lecturers	Prof. Dr. Harald Tauchmann Elena Yurkevich	

4	Module coordinator	Prof. Dr. Harald Tauchmann	
5	Contents	The course covers the economics of health care taking a microeconomic perspective. The course focusses on the market for health insurance and its imperfections that originate from the specific characteristics of health as a commodity and result in market failure and hence undesirable market outcomes such as adverse selection, moral hazard, and risk selection. Based on the theoretical analysis implications for the question of how to design a health (insurance) system are derived.	
6	Learning objectives and skills	<p>The students</p> <ul style="list-style-type: none"> • learn to analyze the market for health insurance • acquire knowledge about the institutions of the German health insurance system and how to assess them from a theoretical perspective • test the theoretical predictions using empirical analyses 	
7	Prerequisites	Solid skills in microeconomics, basic skills in econometrics	
8	Integration in curriculum	semester: 2	
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Health Economics Master of Science Economics 20212	
10	Method of examination	Written examination (90 minutes)	
11	Grading procedure	Written examination (100%)	
12	Module frequency	Only in summer semester	
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h	
14	Module duration	1 semester	
15	Teaching and examination language	english	
16	Bibliography	Zweifel, P., Breyer, F., Kifmann, M. (2009): Health Economics, Springer 2nd ed.	

1	Module name 57030	Managing enterprise-wide IT architectures	5 ECTS
2	Courses / lectures	Masterseminar: Managing Enterprise-Wide IT-Architectures & Case Study Seminar (4 SWS)	5 ECTS
3	Lecturers	Nils Kemmerzell	

4	Module coordinator	Prof. Dr. Michael Amberg	
5	Contents	<p>Lecture: Fundamentals of Enterprise-Wide IT Architecture Management The lecture Fundamentals of Enterprise-Wide IT Architecture Management provides the fundamentals of business process management and the underlying IT architecture. The course has a strong focus on concepts of business-IT-alignment e.g., service oriented architectures, cloud computing, and enterprise-wide IT systems as well as important paradigms to (re-) design enterprise IT architectures.</p> <p>Case Study Seminar Managers and business leaders in the field of information technology must make decisions with limited information and a swirl of business activities going on around them. They are required to evaluate options, make choices, and find solutions to the challenges they face every day. In this seminar, students will take on the perspective of a decision-maker by analyzing and discussing complex management challenges illustrated in different case studies from leading business schools.</p>	
6	Learning objectives and skills	<p>Lecture: Fundamentals of Enterprise-Wide IT Architecture Management</p> <p>Students</p> <ul style="list-style-type: none"> • know about the major differences of process and workflow management, • know about the main models of IT Service Management and Business-IT Alignment, • can understand the impact of Big Data Technologies on Value Creation, • can assess and implement different types of Big Data Systems, • can explain the major differences of automated communication concepts like EDI, XML and EDIFCAT, • can assess process standardization in different environments. <p>Case Study Seminar</p> <p>Students should</p> <ul style="list-style-type: none"> • know about real-world challenges in the area of IT management, as well as methods for analyzing case studies, • be able to apply the vocabulary, theory, and methods they have learned in the lecture, 	

		<ul style="list-style-type: none"> • be able to develop solutions to business problems, as well as defend their solutions and discuss them critically in a group setting, • be able to present solutions to case study problems in English.
7	Prerequisites	None
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Miscellaneous Master of Science Economics 20212
10	Method of examination	<p>Case study Written examination</p> <ul style="list-style-type: none"> • Lecture: written examination (60 min. – 100%) • Case Study Seminar: Presentation (2 x 15 min. – 33,33%), class participation (33,33%) and discussion paper (2 x 1 Page– 33,33%)
11	Grading procedure	<p>Case study (50%) Written examination (50%)</p> <ul style="list-style-type: none"> • Lecture: 50% of module score • Case Study Seminar: 50% of module score
12	Module frequency	Only in summer semester
13	Workload in clock hours	<p>Contact hours: 60 h Independent study: 90 h</p>
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	<ul style="list-style-type: none"> • Lecture: Rood, M. A. Enterprise architecture: Definition, content, and utility, in Proceedings of the Third Workshop on: Enabling Technologies: Infrastructure for Collaborative Enterprises, 1994, pp. 106-111. • Case Study Seminar: Ellet, W. The Case Study Handbook: How to Read, Discuss, and Write Persuasively About Cases. Harvard Business Review Press, 2007.

1	Module name 57045	Development of deep vision systems	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Mathias Kraus Prof. Dr. Patrick Zschech
5	Contents	<p>Computer vision systems try to mimic human capabilities of visual perception to support time-consuming and labor-intensive tasks like the recognition, localization, and tracking of critical objects. Nowadays, such systems increasingly rely on methods and tools from the field of machine learning to automatically extract useful information from images that can be utilized for decision support and business automation purposes.</p> <p>This course provides the necessary fundamentals for the development of modern vision systems based on machine learning. The particular focus is on deep neural networks and their capabilities of automated feature learning. More specifically, we consider different types of network architectures, look at the steps of image labelling and data preparation, discuss crucial hyperparameters and evaluation criteria, and review other related aspects, such as 3D vision, hybrid intelligence, and explainable artificial intelligence.</p> <p>The course has a strong practical focus. At the beginning of the semester, all fundamentals are provided in lecture sessions and hands-on exercises. Afterwards, students are encouraged to work (in groups) on real projects to apply the methods and concepts learned during the teaching sessions. The results are presented and discussed at the end of the semester.</p>
6	Learning objectives and skills	<p>The students</p> <ul style="list-style-type: none"> • understand the challenges for developing vision-based systems, • understand the basic principles of machine learning and deep neural networks in the realm of image processing, • explain the general pipeline of computer vision systems based on deep neural networks, • know about state-of-the-art techniques at the intersection of computer vision and machine learning, • apply technologies for automated image processing in a practical setting, • compare and evaluate different system configurations, • work in groups and present their results together, • develop skills in collaborative interaction with peers.
7	Prerequisites	Basic knowledge in data analysis techniques, predictive modeling principles, statistics, and machine learning as taught, for example, in

		the Bachelor course Business Analytics: Technologien, Methoden und Konzepte. Basic programming skills, preferably in Python. The number of participants is limited. Please see website for details on the application process.
8	Integration in curriculum	semester: 1;3
9	Module compatibility	Miscellaneous Master of Science Economics 20212
10	Method of examination	Presentation Project/practical report
11	Grading procedure	Presentation (20%) Project/practical report (80%)
12	Module frequency	Irregular
13	Workload in clock hours	Contact hours: 75 h Independent study: 75 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	All relevant material will be provided during the course.

1	Module name 57060	Managing global projects and information technology	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Michael Amberg	
5	Contents	<p>Lect1/Ex1: The traditional role of the Chief Information Officer (CIO) as gatekeeper of technology and protector of corporate information asset activities is changing. Next to the daily duties to keep the IT operations and projects running often facing shrinking budget constraints an enterprise IT manager becomes an important business partner in supporting the transformation of the traditional business to the digital age. The course has a strong focus on the role of IT within different types of enterprises and highlights IT from two different angles: IT as organizational function and IT as driver of organizational transformation. The lecture is divided into two parts (1) IT Management in enterprises (2) IT-driven business models</p> <p>Lect2/Ex2: Increasing globalization of business operations and the high importance of project structures for global operations force companies worldwide to develop and strengthen their capabilities for managing global projects. Therefore, future professionals capable of successfully coordinating projects across multiple countries and cultures will have excellent career prospects. To prepare students for the task of managing global projects, the course will focus on the following topics:</p> <ul style="list-style-type: none"> • Characteristics and organization of global projects • Cultural influences (effects and remedies) • Controlling of globally distributed projects • Challenges of IS outsourcing/offshoring projects <p>For each of these topics, students will be given an introduction to the topic (knowledge transfer) and then work on real-world examples to gain deeper insights into the topic (knowledge application).</p> <p>In addition, students will work in teams on a project during the semester.</p>	
6	Learning objectives and skills	<p>Lect1/Ex1 and Lect2/Ex2:</p> <p>The main goal of the course is to familiarize students with the foundations of successful management in global IT-projects.</p> <p>The students will</p> <ul style="list-style-type: none"> • describe and explain key IT Management models, • describe the project life cycle, 	

		<ul style="list-style-type: none"> • explain and evaluate design options of an IT organization and challenges of the CIO, • explain main organizational IT cost categories and tasks of managing IT costs, • describe components of a (digital) business model, • evaluate (digital) business models, • evaluate challenges caused by distance in globally distributed projects and learn about the approaches of dealing with them, • evaluate IT archetypes and decision domains, • evaluate PMOs in (IT) organization analyze different collaboration tools, • understand the impact of new technologies, such as Big Data Technologies, on value creation.
7	Prerequisites	<ul style="list-style-type: none"> • Lect1/Ex1: None • Lect2/Ex2: Basic knowledge on project management principles and techniques
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Miscellaneous Master of Science Economics 20212
10	Method of examination	<p>Written or oral Written assignment</p> <ul style="list-style-type: none"> • IIS exam-no. 70603 Lect1/Ex1: Managing information technology (2 SWS) 2,5 ECTS - Written assignment (100%) • IIS exam-no. 70604 Lect2/Ex2: Managing global projects (2 SWS) 2,5 ECTS - Presentation (30 min. – 33,33%), class participation (33,33%) and discussion paper (4 pages)
11	Grading procedure	<p>Written or oral (50%) Written assignment (50%)</p> <ul style="list-style-type: none"> • Lect1/Ex1: 50% of module score • Lect2/Ex2: 50% of module score
12	Module frequency	Only in winter semester
13	Workload in clock hours	Contact hours: 60 h Independent study: 90 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	<p>Lect1/Ex1</p> <ul style="list-style-type: none"> • Carr, N. G. (2003): IT doesnt matter. Harvard Business Review, 81(5), 419, 128. • Christensen, C. M., & Overdorf, M. (2000). Meeting the Challenge of Disruptive Change. Harvard Business Review, 78(2), 6676. <p>Lect2/Ex2</p>

- Binder J.: Global Project Management: Communication, Collaboration and Management Across Borders. Gower Publishing Ltd, ISBN: 0566087065.

1	Module name 57150	Data science	5 ECTS
2	Courses / lectures	Seminar: Data Science (2 SWS)	5 ECTS
3	Lecturers	Prof. Dr. Nicole Koschate-Fischer	

4	Module coordinator	Prof. Dr. Nicole Koschate-Fischer	
5	Contents	<p>Das Modul thematisiert essenzielle Methodiken, die der klassischen statistischen und ökonometrischen Datenanalysen üblicherweise vorgeschaltet sind. Diese Methodiken umfassen</p> <ul style="list-style-type: none"> • die Akquise von Daten, • das Überprüfen der Daten auf Sinnhaftigkeit bzw. der Umgang mit fehlenden Datenpunkten, • eine deskriptive und graphische Voranalyse der Daten <p>Weiterhin werden die grundlegenden Konzepte des Maschinellen Lernens erläutert und anhand einfacher Beispiele illustriert. Alle o.g. Methodiken werden in der Programmiersprache Python umgesetzt.</p>	
6	Learning objectives and skills	<p>Die Studierenden bekommen einen Einblick in die Prozesse die notwendig sind um einen Datensatz anzufertigen, welcher dann Startpunkt für weitere statistische und ökonometrische Datenanalysen sein kann. Dafür werden die zu den einzelnen Prozessschritten gehörigen Problemstellungen aufgezeigt, diskutiert und Lösungsansätze am Rechner nachvollzogen. Anschließend sind Studierende in der Lage, Datensätze (z. B. aus frei verfügbaren Datenquellen) zu erstellen, aufzubereiten, zu interpretieren und zu bewerten. Dieses Können ermächtigt Studierende, sich eigene Datensätze abzuleiten, mit deren Hilfe Ideen und Konzepte zur Lösung wissenschaftlicher und beruflicher Probleme entwickeln werden können.</p> <p>Die Studierenden verfügen über ein grundlegendes Verständnis der Programmiersprache Python</p>	
7	Prerequisites	Python Grundlagen (Python 3); Die Teilnehmerzahl ist begrenzt. Bei mehr Anmeldungen als verfügbaren Plätzen werden Studierende des Master in Marketing vorrangig behandelt. Bitte informieren Sie sich über die Anmeldeformalitäten auf der Homepage des Lehrstuhls.	
8	Integration in curriculum	no Integration in curriculum available!	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	Written examination (60 minutes)	
11	Grading procedure	Written examination (100%)	
12	Module frequency	Only in winter semester	
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h	
14	Module duration	1 semester	
15	Teaching and examination language	german	
16	Bibliography	https://wiki.python.org/moin/BeginnersGuide/NonProgrammers	

1	Module name 57176	Semiparametric methods in econometrics and applications	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Bernd Fitzenberger Julia Holleitner	
5	Contents	This course presents nonparametric and semiparametric regression techniques which are part of the tool set of modern microeconomic methods and applications. The course covers saturated OLS regression, kernel density estimation, nonparametric regression, partially linear models, semiparametric selection models, inverse probability weighting, penalized regression models as well as parametric and nonparametric quantile regression as basic tools. These methods are used for cross-section data and longitudinal data. Students will familiarize themselves with applying the methods based on selected applications in economic research papers.	
6	Learning objectives and skills	<p>Students</p> <ul style="list-style-type: none"> • learn how to think of regression as modelling conditional expectations and features of conditional distribution • learn that there is a bias and variance trade-off between choosing a flexible regression specification and obtaining precise estimates in light of the curse-of-dimensionality • learn that flexible regression methods require the choice of tuning parameters and how to use statistical approaches to choose the tuning parameters • learn how semiparametric methods are applied in real world econometric studies 	
7	Prerequisites	Master-level introductory econometrics module („Applied Econometrics“ or “Ökonometrie”) (mandatory) and a further course (recommended) in microeconometrics such as "Panel and Evaluation Methods" or "Microeconometrics and Machine Learning".	
8	Integration in curriculum	semester: 3	
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Labour Economics Master of Science Economics 20212	
10	Method of examination	Written examination (90 minutes)	
11	Grading procedure	Written examination (100%)	
12	Module frequency	Only in winter semester	
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h	
14	Module duration	1 semester	
15	Teaching and examination language	english	

16	Bibliography	Pagan, A. and A. Ullah (1999): Nonparametric Econometrics, Cambridge University Press. Wooldridge, J. M. (2010): Econometric Analysis of Cross Section and Panel Data. 2nd edition, Cambridge, MA: MIT Press.
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1	Module name 57241	Service innovation	5 ECTS
2	Courses / lectures	Seminar: Service Innovation (4 SWS)	5 ECTS
3	Lecturers	Dr. Natalie Breutner apl. Prof. Dr. Angela Roth Prof. Dr. Kathrin Möslein	

4	Module coordinator	Prof. Dr. Kathrin Möslein apl. Prof. Dr. Angela Roth
5	Contents	Services now account for over 80% of all transactions in developed economies, but typically receive much less R&D attention than products. Developing service innovations demands a clear strategy from businesses with four interlocking core elements: search, selection, implementation and evaluation of innovative concepts. If even one of these phases is not been clearly thought through, the entire innovation process is likely to collapse. This course focuses on successful approaches, methods, tools and efforts to develop service innovations.
6	Learning objectives and skills	The students can: <ul style="list-style-type: none"> • learn about items, notions, characteristics and special features in innovation management for services, service design methods and cases. • learn to judge and discuss innovation management tasks and alternative solutions with respect to the specialties of services. • experience methods of service design by themselves in interactive lectures, gain a feeling for suitable methods and learn to reflect different effects. • apply their knowledge and competences in solving cases and thereby analyze selected issues of managing, developing and innovating services. • work together in international small work groups, present their results in English, give feedback to other students work and discuss different solution approaches.
7	Prerequisites	<ul style="list-style-type: none"> • Basic understanding of product and service business processes • General knowledge on management and strategy • Openness to work interactively and in interdisciplinary and international teams
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Miscellaneous Master of Science Economics 20212
10	Method of examination	Presentation Seminar paper This module is part of the pilot project "Early Seminar Registration". Examination registration for both examinations of this module will take place at the beginning of the lecture period (not in the regular examination registration period). The examinations of this module start directly after the registration, hence a withdrawl from the registration for the examinations of this module is not possible.

		Seminar paper approx. 7 pages Presentation approx. 10 minutes
11	Grading procedure	Presentation (30%) Seminar paper (70%)
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Specific literature will be listed in the course

1	Module name 57490	Das Innovationsseminar Innovation management seminar	5 ECTS
2	Courses / lectures	Seminar: Das Innovationsseminar (2 SWS)	5 ECTS
3	Lecturers	Hannah Altenburg Prof. Dr. Kai-Ingo Voigt	

4	Module coordinator	Prof. Dr. Kai-Ingo Voigt	
5	Contents	In dem Seminar, welches vom Gründer und CIO (Chief Information Officer) von Flixbus (heute Flixmobility GmbH), Herrn Daniel Krauss, begleitet wird, erarbeiten die Studierenden zu wechselnden Rahmenfragestellungen des Innovationsmanagements in Gruppen Seminararbeiten. Die Ergebnisse dieser werden dann im Rahmen von einer Abschlussveranstaltung vorgetragen, verteidigt und diskutiert.	
6	Learning objectives and skills	Die Studierenden erarbeiten in Gruppen weitgehend selbstgesteuert und autonom Analysen zu komplexen betriebswirtschaftlichen Fragestellungen im Kontext des Innovationsmanagements, insbesondere zu den Themen Business Model Innovation und Innovationsmarketing. Hierzu führen die Studierenden ggf. empirische Datenerhebungen und Literaturrecherchen durch und entscheiden weitgehend eigenständig über die zu verwendenden Analysemethoden. Das Ziel ist die Erarbeitung, Strukturierung und Darstellung von detailliertem und spezialisiertem Wissen auf dem aktuellen Erkenntnisstand zu der jeweils ausgeschriebenen Fragestellung. Die erarbeiteten Ergebnisse werden anschließend gemeinsam von der Gruppe in dem Seminar vertreten und vor Herrn Daniel Krauss und Herrn Prof. Dr. Voigt verteidigt.	
7	Prerequisites	Keine	
8	Integration in curriculum	no Integration in curriculum available!	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	Written assignment Presentation Umfang der Hausarbeit: 5.000 Wörter Präsentationsleistung: 20 Minuten Präsentation + 10 Minuten Diskussion	
11	Grading procedure	Written assignment (50%) Presentation (50%)	
12	Module frequency	Every semester	
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h	
14	Module duration	1 semester	
15	Teaching and examination language	german	
16	Bibliography	Kurspezifische Literatur wird im Kurs bekannt gegeben.	

1	Module name 58081	Advanced marketing management VII	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Martina Steul-Fischer	
5	Contents	<ul style="list-style-type: none"> • Theoretische Grundmodelle des Kundenmanagements • Operative und strategische Prozesse der Kundenannäherung • Operative und strategische Prozesse der Kundengewinnung • Operative und strategische Prozesse der Kundenpflege • Management der Prozesse des Kundenmanagements 	
6	Learning objectives and skills	Die Studierenden können wissenschaftliche Grundlagen sowie spezialisiertes und vertieftes Fachwissen anhand der Prozesse, Instrumente und Prinzipien des Kundenmanagements erläutern und anwenden. Im Besonderen können sie in vertiefter und kritischer Weise Theorien, Terminologien, Besonderheiten, Grenzen und Lehrmeinungen des Faches erläutern, anwenden und reflektieren. Studierende können eigenständige Ideen und Konzepte zur Lösung wissenschaftlicher und praktischer Probleme im Bereich des Kundenmanagements anhand von Fallstudien entwickeln und anwenden.	
7	Prerequisites	keine	
8	Integration in curriculum	no Integration in curriculum available!	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	Written examination (60 minutes)	
11	Grading procedure	Written examination (100%)	
12	Module frequency	Only in winter semester	
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h	
14	Module duration	1 semester	
15	Teaching and examination language	german	
16	Bibliography	Diller, H., Haas, A., Ivens, B. (2005), Verkauf und Kundenmanagement, Stuttgart.	

1	Module name 65175	Robuste Optimierung 1 Robust optimization	5 ECTS
2	Courses / lectures	Übung: Übung zu Robuste Optimierung 1 (2 SWS) Vorlesung: Robuste Optimierung 1 (2 SWS)	- 5 ECTS
3	Lecturers	Florian Rösel Martina Kuchlbauer Prof. Dr. Frauke Liers-Bergmann	

4	Module coordinator	Prof. Dr. Frauke Liers-Bergmann	
5	Contents	<p>Oft sind die Eingabedaten eines mathematischen Optimierungsproblems in der Praxis nicht exakt bekannt. In der robusten Optimierung werden deswegen möglichst gute Lösungen bestimmt, die für alle innerhalb gewisser Toleranzen liegenden Eingabedaten, zulässig sind.</p> <p>Die Vorlesung behandelt die Theorie und Modellierung robuster Optimierungsprobleme, insbesondere die robuste lineare und robuste kombinatorische Optimierung.</p> <p>Darüber hinaus werden anhand von Anwendungsbeispielen aktuelle Konzepte wie z.B. die wiederherstellbare Robustheit gelehrt.</p> <p>Die Präsentation des Stoffes erfolgt in Vorlesungsform. Die weitere Aneignung der wesentlichen Begriffe und Techniken erfolgt durch wöchentliche Hausaufgaben.</p>	
6	Learning objectives and skills	<p>Die Studierenden</p> <ul style="list-style-type: none"> • erkennen selbstständig Optimierungsprobleme unter Unsicherheit, modellieren die zugehörigen robustifizierten Optimierungsprobleme geeignet und analysieren diese; • nutzen die passenden Lösungsverfahren und bewerten die erzielten Ergebnisse. 	
7	Prerequisites	empfohlen: Lineare Algebra Vorteilhaft ist das Modul Lineare und Kombinatorische Optimierung.	
8	Integration in curriculum	no Integration in curriculum available!	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	Tutorial achievement Written examination (60 minutes)	
11	Grading procedure	Tutorial achievement (pass/fail) Written examination (100%)	
12	Module frequency	Only in summer semester	
13	Workload in clock hours	Contact hours: 60 h Independent study: 90 h	
14	Module duration	1 semester	
15	Teaching and examination language	german	
16	Bibliography	<ul style="list-style-type: none"> • Vorlesungsskript zu diesem Modul 	

- Ben-Tal, El Ghaoui, Nemirovski: Robust Optimization;
Princeton University Press

1	Module name 65785	Mathematics of Learning Mathematics of learning	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Frauke Liers-Bergmann	
5	Contents	<ul style="list-style-type: none"> • Machine learning: empirical risk minimization, kernel methods and variational models • Mathematical aspects of deep learning • Ranking problems • Mathematical models of network interaction 	
6	Learning objectives and skills	<p>Students</p> <ul style="list-style-type: none"> • develop understanding of modern big data and state of the art methods to analyze them, • apply state of the art algorithms to large data sets, • derive models for network / graph structured data. 	
7	Prerequisites	Prerequisites: Basic knowledge in numerical methods and optimization is recommended.	
8	Integration in curriculum	semester: 3	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	Written examination (60 minutes)	
11	Grading procedure	Written examination (100%)	
12	Module frequency	Only in winter semester	
13	Workload in clock hours	Contact hours: 60 h Independent study: 90 h	
14	Module duration	1 semester	
15	Teaching and examination language	english	
16	Bibliography	<ul style="list-style-type: none"> • Goodfellow, Bengio, Courville, Deep Learning, MIT Press, 2015 • Hastie, Tibshirani, Friedman, The Elements of Statistical Learning, 2008 	

1	Module name 53921	Fallstudien Auditing Case studies auditing	5 ECTS
2	Courses / lectures	Seminar: Fallstudienseminar "Auditing" (2 SWS)	5 ECTS
3	Lecturers		

4	Module coordinator	Prof. Dr. Klaus Henselmann	
5	Contents	Wechselnde Themenschwerpunkte aus Theorie und Praxis: Das Modul beschäftigt sich einerseits mit ökonomischen, gesellschaftsrechtlichen, familienrechtlichen und steuerlichen Anlässen der Unternehmens- und Anteilsbewertung (Schwerpunkt im Wintersemester). Andererseits werden die bilanzielle Bewertung von Unternehmensanteilen (nach HGB und IFRS), Kaufpreisallokation und Werthaltigkeitstests behandelt (Schwerpunkt im Sommersemester).	
6	Learning objectives and skills	<p>Die Studierenden verfügen in diesen Bereichen über umfassendes, detailliertes und spezialisiertes Wissen auf dem neuesten Erkenntnisstand einschließlich der praktischen Anwendung sowie eines kritischen Verständnisses der Theorien und Methoden. Dazu gehören sowohl die Lösungen nach HGB als auch nach IFRS einschließlich eines Verständnisses von Unterschieden und Gemeinsamkeiten.</p> <p>Die Studierenden sind in der Lage die Aussagekraft der Rechnungslegung nach HGB und IFRS in Hinblick auf eine Abbildung der Realität zu beurteilen und die momentan geltenden Rechtsnormen kritisch zu hinterfragen.</p> <p>Die Studierenden können dieses Wissen kombinieren und zur umfassenden Beurteilung von konkreten Unternehmen aus der Praxis anwenden. Dazu gehört es auch, die erforderlichen Informationen zu beschaffen, Analysemodelle zu entwickeln, erforderliche Auswertungen auszuwählen, Vergleiche vorzunehmen, das Gesamtergebnis zu begründen und verteidigen sowie die Belastbarkeit der Ergebnisse zu hinterfragen.</p> <p>Die Studierenden können zugehörige Dokumente und Rechenwerke selbst erstellen oder ihnen vorgelegte Dokumente und Rechenwerke analysieren, beurteilen und die getroffenen Annahmen hinterfragen. Die Studierenden können demnach Werturteile abgeben, Vergleiche heranziehen und richtige Schlussfolgerungen ziehen, Prognosen erstellen und die eigenen Aussagen rechtfertigen, komplexe Problemstellungen erkennen und auf Basis der gewonnenen Erfahrung analysieren.</p>	
7	Prerequisites	Keine	
8	Integration in curriculum	no Integration in curriculum available!	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	Written or oral Seminar paper Fallstudienbearbeitung (schriftliches Einreichen der Lösung sowie mündliche Verteidigung der Lösung).	
11	Grading procedure	Written or oral (50%)	

		Seminar paper (50%) Fallstudie 100%
12	Module frequency	Every semester
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h
14	Module duration	1 semester
15	Teaching and examination language	german
16	Bibliography	Literatur wird im Rahmen der Veranstaltung bekannt gegeben.

1	Module name 55692	Exchange Module 2 Study abroad module II	5 ECTS
2	Courses / lectures	No courses / lectures available for this module!	
3	Lecturers	No lecturers available since there are no courses / lectures for this module!	

4	Module coordinator	Prof. Dr. Johannes Rincke
5	Contents	<p>EN: The content of the courses visited in the foreign university must be related to the topic of the masters content. The master coordinator decides on the suitability of the courses using German or English documents.</p> <p>DE: Die an der ausländischen Universität besuchten Lehrveranstaltungen sollten einen thematischen Bezug zu den Inhalten des Masters haben. Eine Prüfung der Eignung der Lehrveranstaltungen erfolgt durch den Masterkoordinator auf der Basis deutsch- oder englischsprachiger Unterlagen.</p>
6	Learning objectives and skills	<p>EN: Students acquire comprehensive, detailed and specialised knowledge on the research frontier. They are able to communicate this knowledge in a clear and unambiguous way in a foreign language. Besides gaining expertise students gain intercultural and social skills. Students can organize themselves and respond to changing requirements independently and in a problem-solving attitude.</p> <p>DE: Die Studierenden verfügen über umfassendes, detailliertes und spezialisiertes Wissen auf dem neuesten Erkenntnisstand der Wissenschaft. Sie können dieses Wissen in klarer und eindeutiger Weise auch in einer Fremdsprache vermitteln. Neben den Fachkompetenzen erwerben die Studierenden interkulturelle und soziale Kompetenzen. Die Studierenden können sich selbst organisieren und auf sich verändernde Anforderungen eigenständig und lösungsorientiert reagieren.</p>
7	Prerequisites	Learning Agreement
8	Integration in curriculum	semester: 2
9	Module compatibility	Miscellaneous Master of Science Economics 20212
10	Method of examination	Variable
11	Grading procedure	Variable (100%)
12	Module frequency	Every semester
13	Workload in clock hours	<p>Contact hours: ?? h (keine Angaben zum Arbeitsaufwand in Präsenzzeit hinterlegt)</p> <p>Independent study: ?? h (keine Angaben zum Arbeitsaufwand im Eigenstudium hinterlegt)</p>
14	Module duration	1 semester
15	Teaching and examination language	german

16	Bibliography	EN: Considering the specifications of the course at the foreign university. DE: Berücksichtigung der Angaben zu den Lehrveranstaltungen an der ausländischen Universität
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1	Module name 55691	Exchange Module 1 Study abroad module I	5 ECTS
2	Courses / lectures	No courses / lectures available for this module!	
3	Lecturers	No lecturers available since there are no courses / lectures for this module!	

4	Module coordinator	Prof. Dr. Johannes Rincke
5	Contents	<p>EN: The content of the courses visited in the foreign university must be related to the topic of the masters content. The master coordinator decides on the suitability of the courses using German or English documents.</p> <p>DE: Die an der ausländischen Universität besuchten Lehrveranstaltungen sollten einen thematischen Bezug zu den Inhalten des Masters haben. Eine Prüfung der Eignung der Lehrveranstaltungen erfolgt durch den Masterkoordinator auf der Basis deutsch- oder englischsprachiger Unterlagen.</p>
6	Learning objectives and skills	<p>EN: Students acquire comprehensive, detailed and specialised knowledge on the research frontier. They are able to communicate this knowledge in a clear and unambiguous way in a foreign language. Besides gaining expertise students gain intercultural and social skills. Students can organize themselves and respond to changing requirements independently and in a problem-solving attitude.</p> <p>DE: Die Studierenden verfügen über umfassendes, detailliertes und spezialisiertes Wissen auf dem neuesten Erkenntnisstand der Wissenschaft. Sie können dieses Wissen in klarer und eindeutiger Weise auch in einer Fremdsprache vermitteln. Neben den Fachkompetenzen erwerben die Studierenden interkulturelle und soziale Kompetenzen. Die Studierenden können sich selbst organisieren und auf sich verändernde Anforderungen eigenständig und lösungsorientiert reagieren.</p>
7	Prerequisites	Learning Agreement
8	Integration in curriculum	semester: 2
9	Module compatibility	Miscellaneous Master of Science Economics 20212
10	Method of examination	Variable
11	Grading procedure	Variable (100%)
12	Module frequency	Every semester
13	Workload in clock hours	<p>Contact hours: ?? h (keine Angaben zum Arbeitsaufwand in Präsenzzeit hinterlegt)</p> <p>Independent study: ?? h (keine Angaben zum Arbeitsaufwand im Eigenstudium hinterlegt)</p>
14	Module duration	1 semester
15	Teaching and examination language	german

16	Bibliography	EN: Considering the specifications of the course at the foreign university. DE: Berücksichtigung der Angaben zu den Lehrveranstaltungen an der ausländischen Universität
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1	Module name 56422	Organizing for digital transformation	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Kathrin Möslein	
5	Contents	<p>The course focusses on dynamics in organizational transformation driven through information technology (IT) and consists of two parts. The first part introduces the topic from an industrial perspective and explores the re-organization of value streams in the course of the digital transformation. Teaching in this part includes contributions from a German automotive company. Students will work in a project-oriented mode for half the lecture and then present their results.</p> <p>The second part takes the perspective of academic research on the organization of the digital transformation. It introduces different theoretical frameworks to gain a deeper understanding of the phenomenon and explores its implications for global business structures. Students write a short essay to show what they have learned.</p> <p>Together, the lecture allows the students to gain theoretical knowledge on the digital transformation and acquire practical problem-solving skills as well to work effectively on innovative projects in the field.</p>	
6	Learning objectives and skills	<p>The students</p> <ul style="list-style-type: none"> • are familiar with different theories of works systems and service systems and their practical application • know more about the contribution of information technology in managing complex innovation activities • have an improved understanding of the global IT Industry and various strategies that are used • can identify and unravel the business problem in a case study and actively take part in class discussions 	
7	Prerequisites	<ul style="list-style-type: none"> • general knowledge of digital technology and their economic applications • basic understanding of simple software applications • first experience with team projects 	
8	Integration in curriculum	semester: 2	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	<p>Presentation Seminar paper Seminar paper approx. 5 pages Presentation approx. 30 minutes (partly in group)</p>	
11	Grading procedure	<p>Presentation (30%) Seminar paper (70%)</p>	
12	Module frequency	Only in summer semester	

		Im Sommersemester 2025 wird der Kurs „Organizing for Digital Transformation“ nicht stattfinden. The lecture “Organizing for Digital Transformation” will not take place in summer semester 2025.
13	Workload in clock hours	Contact hours: 60 h Independent study: 90 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	None

1	Module name 53460	Change management	5 ECTS
2	Courses / lectures	Vorlesung mit Übung: Change Management (2 SWS)	5 ECTS
3	Lecturers	Prof. Dr. Sebastian Junge	

4	Module coordinator	Prof. Dr. Sebastian Junge
5	Contents	This module focuses on one of the most important management tasks: to achieve change in organizations. It deals with systematic approaches to influence individuals, teams and the organization as a whole in a desired way in order to develop a company from its current to a future state. The currently ongoing digital transformation makes this particularly worthwhile. Digitalization drives change and thus represents a great challenge, but also offers tremendous opportunities. The module provides participants with a systematic approach in order to (1) successfully initiate and implement organizational changes and (2) successfully guide an organization through a change process. Participants will be provided with theoretical concepts and practical tools for managing organizational change (e.g. research on cognitive biases, trait theory, motivation theory, affective events theory, emotional intelligence, and organizational ambidexterity).
6	Learning objectives and skills	At the end of this module, students are familiar with the tasks and challenges of managing change in organizations. The participants develop an understanding of the importance of successful leadership during organizational change as well as evaluate situations, which are related to organizational change.
7	Prerequisites	None
8	Integration in curriculum	semester: 2
9	Module compatibility	Miscellaneous Master of Science Economics 20212
10	Method of examination	Written examination (60 minutes)
11	Grading procedure	Written examination (100%)
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Bazerman, M., Moore, D.: Judgement in Managerial Decision Making, 8th ed., Hoboken 2017. Greenberg, J.: Managing Behavior in Organizations, 6th ed., Boston 2013. Kahneman, D.: Thinking, Fast and Slow, 1st ed., New York 2013. Robbins, S., Judge, T.: Organizational Behavior, 17th ed., Boston 2017.

1	Module name 57502	Monetary Economics and Numerical Methods Monetary economics and numerical methods	5 ECTS
2	Courses / lectures	Seminar: Monetary Economics and Numerical Methods (2 SWS)	5 ECTS
3	Lecturers	Prof. Dr. Christian Merkl Timo Sauerbier	

4	Module coordinator	Prof. Dr. Christian Merkl	
5	Contents	Monetary Economics and Numerical Methods	
6	Learning objectives and skills	<p>Students</p> <ul style="list-style-type: none"> • repeat the New Keynesian Model (NKM) from “Macroeconomics: Business Cycles.” • learn how to extend the NKM model (e.g. by financial frictions). • apply different solution techniques. • learn how central banks use these models for developing their monetary policy strategy and how to react to macroeconomic crises. 	
7	Prerequisites	“Macroeconomics: Business Cycles”	
8	Integration in curriculum	semester: 2;4	
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Macroeconomics and Finance Master of Science Economics 20212	
10	Method of examination	Seminar paper	
11	Grading procedure	Seminar paper (100%) Students can improve their grade through one assignment during the summer term: one programming assignment with Matlab/ Dynare. This requires the seminar work to be graded not worse than 4.0; the maximum improvement is 0.3 grades.	
12	Module frequency	Irregular	
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h	
14	Module duration	1 semester	
15	Teaching and examination language	english	
16	Bibliography	References will be provided during the course.	

1	Module name 55300	Global logistics and supply chain management	5 ECTS
2	Courses / lectures	Übung: Global Logistics and Supply Chain Management - Übung (2 SWS) Vorlesung: Global Logistics and Supply Chain Management - Vorlesung (2 SWS)	- 5 ECTS
3	Lecturers	Wolf-Alexander Frenkler Prof. Dr.-Ing. Eva Maria Hartmann	

4	Module coordinator	Prof. Dr.-Ing. Eva Maria Hartmann	
5	Contents	<p>Im ersten Teil der Veranstaltung wird über die Bedeutung, Trends und Zielsetzung der Logistik und des Supply Chain Management referiert. Der zweite Abschnitt der Vorlesung wendet sich dem Management logistischer Systeme zu, dabei wird der Fokus auf Lagerbestände, Servicelevels und deren Konsequenzen für die unternehmensinterne und unternehmensübergreifende Logistik gelegt. Vertieft werden Ansätze, um Lieferketten effizient und erfolgreich zu gestalten und zu managen. Hierbei wird der Fokus auf auftretende Probleme sowohl von der unternehmensinternen, wie auch der unternehmensexternen Perspektive gesetzt. Ergänzende Gastvorträge von Referentinnen bzw. Referenten aus der Praxis geben einen Überblick über die Vielfalt der Problemstellungen.</p>	
6	Learning objectives and skills	Die Studierenden beherrschen die Grundlagen des Supply Chain Managements. Sie identifizieren die Zusammenhänge und Schwierigkeiten im Supply Chain Management. Die Studierenden beherrschen Hilfsmittel und Ansätze, um eine globale Lieferkette effizient und erfolgreich zu steuern.	
7	Prerequisites	None	
8	Integration in curriculum	semester: 2	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	Written examination with multiple choice (60 minutes) Case study	
11	Grading procedure	Written examination with multiple choice (70%) Case study (30%)	
12	Module frequency	Only in summer semester	
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h	
14	Module duration	1 semester	
15	Teaching and examination language	german	
16	Bibliography	Wird im Kurs bekanntgegeben.	

1	Module name 53043	Ökonometrie Econometrics	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Regina Therese Riphahn	
5	Contents	Konzept der linearen Regression in Matrixnotation; Inhaltliche und statistische Interpretation linearer Regressionsmodelle; Heteroskedastie und Autokorrelation; Endogenität und Instrumentvariablenschätzung; Maximum Likelihood Schätzung und Modelle für bivariate abhängige Variablen; Praktische Umsetzung der Lerninhalte mit Hilfe der Statistiksoftware STATA	
6	Learning objectives and skills	Die Studierenden erwerben umfassende und fundierte Kenntnisse in linearen und nicht linearen Schätz- und Testverfahren und wenden diese mit Hilfe der Statistiksoftware STATA an. Sie beurteilen die Angemessenheit der Verfahren im praxisbezogenen Kontext und erstellen eigene empirische Analysen.	
7	Prerequisites	Grundkenntnisse Statistik und Ökonometrie im Umfang des angebotenen Brückenkurses	
8	Integration in curriculum	semester: 1	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	Written examination (90 minutes)	
11	Grading procedure	Written examination (100%) 100 % Klausur (Bei Notenverbesserung ist eine freiwillige, vorlesungsbegleitend erstellte Hausarbeit zu 20 % auf die Endnote anrechenbar, in der auf Basis eines Datensatzes und mit Hilfe von Stata eine empirische Fragestellung bearbeitet wird. Dabei kann sich die Klausurnote um bis zu 0,7 Notenpunkte verbessern. Die Prüfung ist nur bestanden, wenn auch die Klausur bestanden ist. Die Hausarbeit wird nur in dem Semester gewertet, in dem sie erstellt wurde.)	
12	Module frequency	Only in winter semester	
13	Workload in clock hours	Contact hours: 60 h Independent study: 90 h	
14	Module duration	1 semester	
15	Teaching and examination language	german	
16	Bibliography	Verbeek, Marno, 2012, A Guide to Modern Econometrics, 4. A., Wiley.	

1	Module name 94920	International Supply Chain Management International supply chain management	5 ECTS
2	Courses / lectures	Vorlesung mit Übung: International Supply Chain Management (vhb) (4 SWS)	5 ECTS
3	Lecturers	Simon Schlichte Prof. Dr.-Ing. Florian Risch	

4	Module coordinator	Prof. Dr.-Ing. Jörg Franke	
5	Contents	<p>Contents: The virtual course intends to give an overview on the main tasks of a supply chain manager in an international working environment:</p> <ul style="list-style-type: none"> • Goals and tasks • Methods and tools • International environment • Knowledge and experience of industrial practice • Cutting edge research on SCM <p>For practical training, 3 additional Case Studies are executed as part of the course.</p> <p>Lehreinheiten / Units:</p> <ul style="list-style-type: none"> • Integrated logistics, procurement, materials management and production • Material inventory and material requirements in the enterprise • Strategic procurement • Management of procurement and purchasing • In-plant material flow and production systems • Distribution logistics, global tracking and tracing • Modes of transport in international logistics • Disposal logistics • Logistics controlling • Network design in supply chains • Global logistic structures and supply chains • IT systems in supply chain management • Sustainable supply chain management 	
6	Learning objectives and skills	<p>After having completed this course successfully, the student will be able to</p> <ul style="list-style-type: none"> • define the basic terms of supply chain management • understand important procurement methods and strategies • name and classify different stock types and strategies • analyse possibilities for cost reduction in supply chains • know and differentiate central IT systems of supply chain management • explain disposal and controlling strategies • recognise the main issues in international supply networks • know the possibilities of transformation to a sustainable supply chain • assess different modes of transport 	
7	Prerequisites	None	
8	Integration in curriculum	no Integration in curriculum available!	

9	Module compatibility	Miscellaneous Master of Science Economics 20212
10	Method of examination	Written examination (120 minutes)
11	Grading procedure	Written examination (100%)
12	Module frequency	Every semester
13	Workload in clock hours	Contact hours: 60 h Independent study: 90 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	

1	Module name 713618	Computer vision	5 ECTS
2	Courses / lectures	Übung: Computer Vision Exercise (2 SWS) Vorlesung: Computer Vision (2 SWS)	2,5 ECTS 2,5 ECTS
3	Lecturers	Dr.-Ing. Vanessa Klein Muhammad Sohail Prof. Dr. Tim Weyrich Prof. Dr. Bernhard Egger	

4	Module coordinator	Prof. Dr. Tim Weyrich
5	Contents	This lecture discusses important algorithms from the field of computer vision. The emphasis lies on 3-D vision algorithms, covering the geometric foundations of computer vision, and central algorithms such as stereo vision, structure from motion, optical flow, and 3-D multiview reconstruction. Participants of this advanced course are expected to bring experience from prior lectures either from the field of pattern recognition or from the field of computer graphics.
6	Learning objectives and skills	<p>Die Vorlesung stellt eine Auswahl von Methoden aus dem Gebiet der Computer Vision vor, die in dem Feld eine zentrale Stellung einnehmen. In den Übungen implementieren und evaluieren die Studierenden selbständig diese Methoden. Die Studierenden arbeiten die ganze Zeit über an populären Computer Vision-Methoden wie zum Beispiel Stereosehen, optischer Fluss und 3D-Rekonstruktion aus mehreren Ansichten. Für diese Probleme</p> <ul style="list-style-type: none"> • beschreiben die Studierenden perspektivische Projektion, Rotationen und verwandte geometrische Grundlagen, • erklären die Studierenden die behandelten Methoden, • diskutieren die Studierenden Vor- und Nachteile verschiedener Modalitäten zur Erfassung von 3D-Informationen, • implementieren die Studierenden einzeln und gemeinschaftlich in Kleingruppen Code, • entdecken die Studierenden optimale Vorgehensweisen in der Datenaufnahme, • erkunden und bewerten die Studierenden unterschiedliche Möglichkeiten für die Evaluation, • diskutieren und präsentieren die Gruppenarbeiter in Gruppen die Vor- und Nachteile ihrer Implementierungen, • diskutieren und reflektieren die Studierenden gesellschaftliche Auswirkungen von Anwendungen des 3D-Rechnersehens. <p>The lecture introduces computer vision algorithms that are central to the field. In the exercises, participants autonomously implement and evaluate these algorithms. The participants work throughout the time on popular computer vision algorithms, like for example stereo vision, optical flow, and 3-D multiview reconstruction. For these problems, the participants</p> <ul style="list-style-type: none"> • describe perspective projection, rotations, and related geometric foundations, • explain the presented methods,

		<ul style="list-style-type: none"> • discuss the advantages and disadvantages of different modalities for acquiring 3-D information, • implement individually and in small groups code, • discover best practices in data acquisition, • explore and rank different choices for evaluation, • discuss and present in groups the advantages and disadvantages of their implementations, • discuss and reflect the social impact of applications of computer vision algorithms.
7	Prerequisites	None
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Miscellaneous Master of Science Economics 20212
10	Method of examination	Variable (90 minutes) Dieses Modul wird mit einer Klausur (90 Minuten) geprüft. The form of examination is a written exam of 90 minutes.
11	Grading procedure	Variable (100%)
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 60 h Independent study: 90 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Richard Szeliski: "Computer Vision: Algorithms and Applications", Springer 2011.

1	Module name 901895	Deep Learning Deep learning	5 ECTS
2	Courses / lectures	Vorlesung: Deep Learning (2 SWS) Übung: DL E (2 SWS)	2,5 ECTS 2,5 ECTS
3	Lecturers	Prof. Dr.-Ing. Andreas Maier Zijin Yang Alexander Barnhill	

4	Module coordinator	Prof. Dr.-Ing. Andreas Maier
5	Contents	<p>Deep Learning (DL) has attracted much interest in a wide range of applications such as image recognition, speech recognition and artificial intelligence, both from academia and industry.</p> <p>This lecture introduces the core elements of neural networks and deep learning, it comprises:</p> <ul style="list-style-type: none"> • (multilayer) perceptron, backpropagation, fully connected neural networks • loss functions and optimization strategies • convolutional neural networks (CNNs) • activation functions • regularization strategies • common practices for training and evaluating neural networks • visualization of networks and results • common architectures, such as LeNet, Alexnet, VGG, GoogleNet • recurrent neural networks (RNN, TBPTT, LSTM, GRU) • deep reinforcement learning • unsupervised learning (autoencoder, RBM, DBM, VAE) • generative adversarial networks (GANs) • weakly supervised learning • applications of deep learning (segmentation, object detection, speech recognition, ...) <p>The accompanying exercises will provide a deeper understanding of the workings and architecture of neural networks.</p>
6	Learning objectives and skills	<p>The students</p> <ul style="list-style-type: none"> • explain the different neural network components, • compare and analyze methods for optimization and regularization of neural networks, • compare and analyze different CNN architectures, • explain deep learning techniques for unsupervised / semi-supervised and weakly supervised learning, • explain deep reinforcement learning, • explain different deep learning applications, • implement the presented methods in Python, • autonomously design deep learning techniques and prototypically implement them, • effectively investigate raw data, intermediate results and results of Deep Learning techniques on a computer,

		<ul style="list-style-type: none"> • autonomously supplement the mathematical foundations of the presented methods by self-guided study of the literature, • discuss the social impact of applications of deep learning applications.
7	Prerequisites	None
8	Integration in curriculum	semester: 1
9	Module compatibility	Miscellaneous Master of Science Economics 20212
10	Method of examination	Written examination (90 minutes) Written exam, 90 min.
11	Grading procedure	Written examination (100%)
12	Module frequency	Every semester
13	Workload in clock hours	Contact hours: 60 h Independent study: 90 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	<ul style="list-style-type: none"> • Ian Goodfellow, Yoshua Bengio, Aaron Courville: Deep Learning. MIT Press, 2016. • Christopher Bishop: Pattern Recognition and Machine Learning, Springer Verlag, Heidelberg, 2006 • Yann LeCun, Yoshua Bengio, Geoffrey Hinton: Deep learning. Nature 521, 436444 (28 May 2015)

1	Module name 428256	Maschinelles Lernen für Zeitreihen Machine learning for time series	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Prof. Dr. Björn Eskofier Dr. Dario Zanca	
5	Contents	<p>Aim of the lecture is to teach Machine learning (ML) and Deep Learning (DL) methods for a variety of time series applications. The following topics will be covered:</p> <ul style="list-style-type: none"> • Fundamentals and an overview of applications of time series analysis. • Fundamentals of ML methods, such as Gaussian processes, State Space models, and Autoregressive models for time series. • Design, implementation and evaluation of ML methods in order to address time series problems. • Advanced DL methods for time-series, such as Convolutional, Recurrent, and Attention-based models. • Working with widely-used toolboxes that can be used for implementation of ML methods, such as Tensorflow or PyTorch. 	
6	Learning objectives and skills	<ul style="list-style-type: none"> • Students can describe concepts of time series problems and their wide applications in industry, medicine, finance, etc. • Students can explain concepts of ML/DL methods in general and tackling time series problems in particular • Students understand the characteristics of time series data and are capable of developing and implementing ML/DL methods to model, predict and manipulate such data in concrete problems 	
7	Prerequisites	This is a specialisation lecture; successful completion of the lectures " <i>IntroPR</i> " and/or " <i>Pattern Recognition</i> " / " <i>Pattern Analysis</i> " is recommended. Concepts taught in " <i>IntroPR</i> " are assumed here as basic knowledge.	
8	Integration in curriculum	semester: 1	
9	Module compatibility	Miscellaneous Master of Science Economics 20212 electronic exam (remote), 90 min.	
10	Method of examination	Written examination (90 minutes)	
11	Grading procedure	Written examination (100%)	
12	Module frequency	Only in winter semester	
13	Workload in clock hours	Contact hours: 60 h Independent study: 90 h	
14	Module duration	1 semester	

15	Teaching and examination language	english
16	Bibliography	<ul style="list-style-type: none">• Pattern recognition and machine learning. Christopher M. Bishop, Springer, 2006• The Elements of Statistical Learning: Data Mining, Inference, and Prediction. Trevor Hastie, Robert Tibshirani, Jerome Friedman, Springer, 2009• Machine Learning: A Probabilistic Perspective. Kevin Murphy, MIT press, 2012• Deep Learning. Ian Goodfellow and Yoshua Bengio and Aaron Courville, MIT Press, 2016

1	Module name 57462	Seminar: Web Scraping for Business and Economics	5 ECTS
2	Courses / lectures	Seminar: Seminar: Web Scraping for Business and Economics (2 SWS) Attendance is compulsory	5 ECTS
3	Lecturers	Prof. Dr. Jonas Dovern	

4	Module coordinator	Prof. Dr. Jonas Dovern
5	Contents	This hands-on seminar offers an opportunity to learn how to scrape data from websites. During the first half of the semester, students will teach each other the necessary tools and skills by means of seminar presentations. During the second half of the semester, students implement a web scraper for a project of their choice for scraping data that allows them to analyze web data in the context of a chosen research question (possible examples: product price comparisons, analysis of text from speeches of monetary policy makers, features of job vacancies).
6	Learning objectives and skills	Students will learn how to use the web scraping to collect data from websites. In particular, they will be able to ... - navigate html code and select the required information - web scrape the information using the software R - process and analyze the collected data - document their work flow and their results
7	Prerequisites	Recommended: „Applied Econometrics“ or “Ökonometrie”
8	Integration in curriculum	semester: 2;4
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Macroeconomics and Finance Master of Science Economics 20212
10	Method of examination	Seminar paper and presentation
11	Grading procedure	Seminar paper and presentation (100%) Seminar paper (60%) and presentation (40%).
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Students have to search for relevant literature (we might give hints).

1	Module name 54650	Performance management in teams	5 ECTS
2	Courses / lectures	Tutorium: Tutorium zum VHB-Kurs "Performance Management in Teams" (0 SWS) Seminar: VHB-Kurs "Performance Management in Teams" (2 SWS)	- 5 ECTS
3	Lecturers	Dr. Colin Roth Prof. Dr. Klaus Moser	

4	Module coordinator	Prof. Dr. Klaus Moser	
5	Contents	<p>Performance management is a comprehensive systematic approach aimed at aligning the performance of groups and individuals with organizational goals and strategy and at achieving continuous improvement. Strategically derived performance indicators and motivational interventions such as goal setting, feedback, and participation are core elements of performance management. This course covers several topics that are relevant for the design of effective performance management systems. Furthermore, by focusing on an evidence-based approach, students will learn how to derive and assess indicators of success and how these contribute to organizational success.</p> <p>In a case study, students will learn how to use the Productivity Measurement and Enhancement System (ProMES) which is already used by practitioners.</p> <p>This course will focus on:</p> <ul style="list-style-type: none"> • motivational theories and their role for productivity management in organizations • basic knowledge on performance measurement and discussion of critical aspects • practical use and development of an own ProMES system (in groups of students) 	
6	Learning objectives and skills	Students will learn about theories and approaches of performance assessment in organizations. They will also acquire knowledge concerning the prerequisites of successful productivity management. Furthermore, they will develop a productivity management system on their own and practice how to implement and evaluate organizational interventions that focus on productivity.	
7	Prerequisites	Recommended: Basic knowledge of assessment and analytical procedures of the social sciences, basic knowledge of scientific work, willingness to read extensive texts in English, English skills (minimum level: UNICERT II).	
8	Integration in curriculum	no Integration in curriculum available!	
9	Module compatibility	Miscellaneous Master of Science Economics 20212	
10	Method of examination	Written examination (60 minutes) Short test Case study	

11	Grading procedure	Written examination (100%) Short test (pass/fail) Case study (pass/fail)
12	Module frequency	Every semester
13	Workload in clock hours	Contact hours: 0 h Independent study: 150 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Pritchard, R. D. Weaver, S. J., & Ashwood, E. L. (2012). Applied Psychology Series: Evidence-based productivity improvement: A practical guide to the Productivity Measurement and Enhancement System (ProMES). London: Routledge.

1	Module name 85762	FAU-MUN	10 ECTS
2	Courses / lectures	Kurs: FAU-MUN	5 ECTS
3	Lecturers		

4	Module coordinator	Prof. Dr. Markus Beckmann
5	Contents	<p>Die FAU bereitet jedes Jahr eine Delegation von ca. 20 Studierenden auf die größte simulierte Sitzungswoche der UN vor. Das intensive (Vorbereitungs-) Programm umfasst dabei:</p> <ul style="list-style-type: none"> • Wöchentliches Vorbereitungsseminar (abwechselnd an Wochenenden, unter der Woche und in der vorlesungsfreien Zeit) während des Wintersemesters • Intensive Vorbereitung auf das zu repräsentierende Land, inklusive Redetraining, Verhandlungstraining und Rules of Procedure der Vereinten Nationen • Teilnahme an drei Vorbereitungskonferenzen im November, Dezember und Februar (inkl. Übernachtungen und Verpflegung) in Erlangen, München und Nürnberg • Teilnahme an NMUN in New York City (Mitte/Ende März) • Vorbereitende Studienfahrt im Auswärtigen Amt in Berlin (Anfang/Mitte März) <p>Weitere Infos unter www.faumun.fau.de</p>
6	Learning objectives and skills	FAUMUN bietet die Möglichkeit, soziale und interkulturelle Kompetenzen, Strategien erfolgreichen Verhandeln, Techniken öffentlichen Redens, Präsentationsfähigkeiten, selbstsicheres Auftreten sowie effektives Selbstmanagement zu erlernen. Des Weiteren werden Kenntnisse über die Vereinten Nationen und politische Vorgänge vermittelt.
7	Prerequisites	<p>Gute Englischkenntnisse, Interesse an internationaler Politik und den Vereinten Nationen, Zeit und Motivation, hohes Engagement. Keine Vorkenntnisse zur UNO notwendig.</p> <p>Bewerbung notwendig (Lebenslauf und Motivationsschreiben auf Englisch).</p> <p>Informationen zur Bewerbung und zur Teilnahmegebühr unter http://www.faumun.fau.de/.</p>
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Miscellaneous Master of Science Economics 20212
10	Method of examination	Written assignment/Seminar paper
11	Grading procedure	Written assignment/Seminar paper (100%)
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 90 h Independent study: 60 h
14	Module duration	1 semester
15	Teaching and examination language	english

1	Module name 52811	Ambulantes Management II Outpatient management II	5 ECTS
2	Courses / lectures	Seminar: Ambulantes Management II (3 SWS) Es besteht Anwesenheitspflicht.	5 ECTS
3	Lecturers	Lisa Tiller Gina-Marie Crocoll	

4	Module coordinator	Prof. Dr. Oliver Schöffski
5	Contents	Im Mittelpunkt der Veranstaltung Ambulantes Management II stehen aktuelle Themenfelder der ambulanten und integrierten Versorgung (z. B. neue Versorgungsformen, usw.), wobei der Schwerpunkt auf Problemfeldern bzw. aktuellen Versorgungsherausforderungen (z. B. Sicherstellung der Versorgung im ländlichen Bereich, usw.) liegt. Ein weiterer Schwerpunkt der Veranstaltung behandelt die Vermittlung relevanter methodischer Kenntnisse (Systematische Literaturrecherche/ Review, Metaanalyse, usw.). Die Veranstaltung ist als Mischung aus herkömmlichen (Frontalvortrag) und neueren Lehrformen (z. B. Gruppenarbeit) konzipiert. Die Veranstaltung weist einen interaktiven Charakter auf, Themenstellungen müssen selbstständig erarbeitet und die erzielten Ergebnisse präsentiert werden. Die vorgestellten Ergebnisse werden schließlich mit den Mitstudierenden diskutiert und die Studierenden geben ihren Kommiliton(inn)en wertschätzendes Feedback.
6	Learning objectives and skills	Die Studierenden <ul style="list-style-type: none"> • verstehen und reflektieren die vermittelten Inhalte • können mit den erlernten Methoden umgehen und diese selbstständig auf Fragestellungen anwenden bzw. übertragen • können Literatur zu einem vorgegebenen Thema selbstständig erarbeiten und kritisch hinterfragen • können eine vorgegebene Themenstellung eigenständig bearbeiten und die Ergebnisse angemessen präsentieren • können von Studierenden vorgebrachte Ergebnisse angemessen bewerten und Feedback formulieren
7	Prerequisites	Die Pflichtveranstaltung Ambulantes Management I sollte vor diesem Modul belegt worden sein. Die Teilnehmerzahl ist begrenzt. Die Anmeldung erfolgt über das Anmeldeformular (siehe Lehrstuhlhomepage), der Anmeldezeitraum wird rechtzeitig bekannt gegeben.
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Miscellaneous Master of Science Economics 20212
10	Method of examination	Written or oral Präsentation (30%) und Seminararbeit (70%)
11	Grading procedure	Written or oral (100%)
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 45 h

		Independent study: 105 h
14	Module duration	1 semester
15	Teaching and examination language	german
16	Bibliography	Keine

1	Module name 57485	Project course: Building sustainable industry in Europe	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Aksornchan Chaianong Dr. Silvia Weko
5	Contents	<p>How can European businesses develop globally competitive industries for sustainable technologies? While European firms have a head start in the “green race”, some companies and policymakers are concerned about growing competition from China, and from the US for products like electric vehicles, solar panels, batteries and more. Increasingly, governments are supporting the development of the electric vehicle industry in Europe. At the same time, there is a need to quickly decarbonize our energy systems, especially for transportation which remains heavily fossil-fuel based to address the dangerous impacts of climate change. Therefore, policies to encourage consumers to buy and use electric vehicles are also prevalent. In some cases, these different goals could come into conflict – for example, if it is cheaper to decarbonize European transport by purchasing cheaper Chinese electric vehicles.</p> <p>This course explores how European governments are supporting the transition to electric vehicles. Students will develop a research project which analyzes whether policy support is helping to both build local business and/or encourage decarbonization of the transportation sector.</p> <p>The aim of your research project will be to analyze whether support for the electric vehicle industry is effective. Once you have answered whether this policy support is effective, you will use your analysis to provide policy recommendations to your country of study.</p> <p>This will include the following steps:</p> <ul style="list-style-type: none"> • Gather information on past and current support measures for the electric vehicle industry • Perform basic descriptive statistical analysis of this data • Deliver insights on these policies’ impacts on consumer purchases of electric vehicles and on electric vehicle manufacturing and innovation • Provide evidence-based policy recommendations to the EU and European countries

		<p>You do not need to have a background in data analysis or policy analysis to take this course. Once you have gathered your policy data, we will provide hands-on training in descriptive statistical analysis. We then offer training in either qualitative or quantitative methods, which you will use for your project report.</p> <p>The research approach and methods will be taught in two full-day blocks (on Fridays). Students must attend these classes to learn how to complete the resesarch project.</p>
6	Learning objectives and skills	<p>By the end of this course, students will be able to:</p> <ul style="list-style-type: none"> • Explain basic facts about electric vehicles manufacturing and use • List policies that can influence industry development and technology adoption • Apply theories about industrial policy to the case of the electric vehicle industry • Develop hypotheses about how policy support may influence industry development and technology adoption • Categorize and assess the contents of support policies • Analyze the impact of support policies on electric vehicle adoption and industry development • Create policy recommendations for how the transition to electric mobility can be accelerated • Effectively communicate policy recommendations
7	Prerequisites	Good command of English, and commitment to attend all classes.
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Miscellaneous Master of Science Economics 20212 This course is only offered during the Winter Semester 2024.
10	Method of examination	Written or oral
11	Grading procedure	Written or oral (100%) The grade is based on a student presentation (50%) and a project report (50%).
12	Module frequency	Irregular
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	

1	Module name 57481	Energy transition analysis: Bridging techno-economic, business, and policy perspectives	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Aksornchan Chaianong
5	Contents	<p>The energy sector is undergoing a deep transformation driven by technological innovation, market dynamics, and policy interventions. This course will provide a comprehensive interdisciplinary analysis of the energy transition, focusing on the interactions between techno-economic, business models/markets, and policy analysis.</p> <p>Through lectures and exercises, students will learn how to assess the economic feasibility, business model/market potential, and policy impacts/implications of different clean energy projects, such as (but not limited to) renewable energy, energy storage, and hydrogen. Topics included are listed below.</p> <ul style="list-style-type: none"> • Techno-economic analysis: principles of costs and benefits, financial modeling, and investment analysis of a particular clean energy project. • Business model/market analysis: business models, market opportunities and challenges, and potential barriers to adoption. • Policy evaluation: impacts of the policy instruments on the project feasibility and investment attractiveness. <p>The course will also emphasize the application of analytical tools to real-world case studies, enabling students to understand how to combine these tools effectively for energy transition assessment. At the end, we will discuss how to derive policy recommendations based on the evaluation results.</p>
6	Learning objectives and skills	<p>At the end of the course, the students are able to:</p> <ul style="list-style-type: none"> • Develop a deep understanding of the multifaceted nature of the energy transition. • Conduct an energy transition analysis from interdisciplinary perspectives, considering techno-economic factors, market dynamics, and policy implications. • Apply/combine concepts and tools to solve real-world problems related to clean energy adoption in different contexts. • Formulate policy recommendations to address challenges and opportunities in the energy transition.
7	Prerequisites	Good command of English (written and spoken).

8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Elective outside WiSo for Energy Technology and Clean Energy Processes.
10	Method of examination	Written or oral One <i>individual seminar paper</i> (max. 5,000 words) <ul style="list-style-type: none"> Each student must choose at least one clean energy project in a specific area/country to be covered in the paper. They must develop arguments based on three perspectives (techno-economic, business/market, and policy) discussed in the class to show whether this area/country should adopt this project and what the actionable insights and policy recommendations would be. One <i>individual 15-minute presentation</i> during the classes <ul style="list-style-type: none"> Each student must present their work in progress on the seminar paper. They must present the results from at least one (out of three) of the abovementioned perspectives. Moreover, they are required to briefly talk about their plans to approach the remaining analysis perspectives.
11	Grading procedure	Written or oral (100%) Seminar paper (60%) Presentation (40%)
12	Module frequency	Only in winter semester
13	Workload in clock hours	Contact hours: 60 h Independent study: 90 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	Will be announced during the course.

1	Module name 53084	Ökonomie der Sozialpolitik Economics of social policy	5 ECTS
2	Courses / lectures	Seminar: MA S Ökonomie der Sozialpolitik (3 SWS)	5 ECTS
3	Lecturers	Prof. Dr. Matthias Wrede	

4	Module coordinator	Prof. Dr. Matthias Wrede	
5	Contents	Ausgewählte ökonomische Analysen der Sozialpolitik unter Einschluss ethischer und ökonomischer Grundlagen sowie institutioneller Aspekte	
6	Learning objectives and skills	<ul style="list-style-type: none"> • Studierende kennen ausgewählte Bereiche der Sozialpolitik und können diese beschreiben und international vergleichen. • Studierende können ethische und ökonomische Grundlagen staatlicher Eingriffe in ausgewählten Bereichen sozialer Sicherung darstellen, interpretieren und diskutieren. • Studierende können Wirkungen sozialpolitisch relevanter Größen theoretisch und empirisch verstehen, bewerten und hinterfragen. • Studierende können sozialpolitische Maßnahmen unter Effizienz- und Gerechtigkeitsgesichtspunkten bewerten und hinterfragen. • Studierende geben Ihren Kommilitonen im Rahmen ihrer Präsentationen strukturiertes Feedback. • Studierende fördern die Fachkenntnisse der anderen Studierenden durch themenspezifische Diskussionsbeiträge. • Studierende erfassen, bewerten und diskutieren ausgewählte aktuelle, meist englischsprachige Forschungsarbeiten in Ihrer Seminararbeit. 	
7	Prerequisites	Mikroökonomische und ökonometrische Kenntnisse	
8	Integration in curriculum	semester: 2	
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Health Economics Master of Science Economics 20212 Specialisation: Labour Economics Master of Science Economics 20212 Specialisation: Public Economics Master of Science Economics 20212	
10	Method of examination	Written or oral Term paper (15 pages), presentation (20 minutes)	
11	Grading procedure	Written or oral (100%) Term paper 70%, presentation 30%	
12	Module frequency	Only in summer semester	
13	Workload in clock hours	Contact hours: 45 h Independent study: 105 h	
14	Module duration	1 semester	
15	Teaching and examination language	german	
16	Bibliography	Die Literatur wird während des Kurses bekannt gegeben.	

1	Module name 57488	Seminar in Energy and Environmental Economics: Econometric Applications	5 ECTS
2	Courses / lectures	Seminar: Seminar in Energy and Environmental Economics: Econometric Applications Attendance is mandatory in this seminar. Absences must be personally arranged with the seminar instructor.	5 ECTS
3	Lecturers	Prof. Dr. Mario Liebensteiner	

4	Module coordinator	Prof. Dr. Mario Liebensteiner
5	Contents	<p>This seminar provides students with an advanced exploration of state-of-the-art causal econometric models applied to energy and environmental economics. Methodologically, students deepen their understanding of various causal models, including difference-in-differences, event studies, regression discontinuity, kink regressions, and synthetic control methods. Content-wise, they engage with topics of interest published in top journals related to energy markets, environmental policy, health economics, and related fields.</p> <p>In small groups, students have the opportunity to discuss methods and applications of their interest in detail. This prepares them for conducting their own empirical research, whether for their Master's thesis, an advanced doctoral program, or empirical analyses in their later jobs.</p> <p>The students are required to give presentations on an econometric method. They should explain the basic methodology, advantages and disadvantages, identification assumptions, data requirements, and application examples. Additionally, the students should find one or two studies published in top journals on the application of this method and present them in detail. In the group, we will then discuss our own application cases and how the method could be used.</p> <p>Moreover, in the group, we will discuss how an empirical paper is typically structured, how to motivate a research question, how to best visualize and present data and empirical findings, and how to convince stakeholders (e.g., your thesis supervisor, reviewers, etc.) of the quality of your work.</p>
6	Learning objectives and skills	<ul style="list-style-type: none"> • Students will become familiar with fundamental econometric models for causal inference, including difference-in-differences, event studies, regression discontinuity, kink regressions, synthetic control methods, matching, and more. • Students will explore applications of these methods in fields such as energy markets, environmental issues, health economics, and related areas. • Students will learn how to structure an empirical paper, formulate a research question, present data and regression results effectively, and how to convince stakeholders (such as

		<p>Master's thesis supervisors, reviewers, etc.) of the research quality.</p> <ul style="list-style-type: none"> • Students will have the opportunity to deepen their understanding of a method and topic that are particularly relevant to their interests.
7	Prerequisites	<ul style="list-style-type: none"> • A solid understanding of microeconomics, energy economics, health economics, or environmental economics. • A basic understanding of econometrics, including multivariate OLS regressions. <p>Prior attendance in the course "Empirical Environmental Economics" would be ideal.</p>
8	Integration in curriculum	semester: 2;4
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Energy Markets Master of Science Economics 20212
10	Method of examination	Seminar achievement
11	Grading procedure	Seminar achievement (100%) Grading is based on the seminar presentation and on intellectual class participation.
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 30 h Independent study: 120 h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	<ul style="list-style-type: none"> • Angrist, J. D., & Pischke, J. S. (2009). Mostly harmless econometrics: An empiricist's companion. Princeton university press. • Cunningham, S. (2021). Causal inference: The mixtape. Yale university press.

1	Module name 57494	Technological Change and the Labour Market	5 ECTS
2	Courses / lectures	Seminar: Technological Change and the Labour Market (2 SWS)	5 ECTS
3	Lecturers	Prof. Dr. Melanie Arntz	

4	Module coordinator	Prof. Dr. Melanie Arntz	
5	Contents	<p>This seminar examines the intersection of technological change and the labour market, exploring how advances in technology impact employment, wages, inequality, and the nature of work. The course draws on theoretical frameworks and empirical evidence from top peer-reviewed journals to provide a comprehensive understanding of these dynamics.</p> <p>In the first part of the seminar, we will jointly work on developing a basic understanding of how technological change affects labour markets by focussing on theoretical foundations, shedding some light on technological change in a historical perspective and trying to understand the core characteristics of technological change since the 1970s including what has been termed computerization, digitalisation, and artificial intelligence. For this purpose, we will discuss three core papers in each of three meetings (May 22nd, 4-6:30 p.m.; June 13th, 8:30 – 11 a.m.; July 11th, 8:30-11 a.m.). Each of these papers is prepared by a small group of ~3 students who present the paper to the others. Based on the three papers, we will jointly work on key take aways from each of these classes.</p> <p>Starting from this common ground, each seminar participant will prepare a seminar paper of 10-12 pages on a research questions that digs deeper into specific sub-topics. These seminar papers will be presented to and discussed by all course participants. The presentations will take place on July 25th and 26th.</p> <p>The first meeting for allocating seminar topics and an overview of the course is currently scheduled for April 24th, 5-6:30 p.m..</p>	
6	Learning objectives and skills	<p>The objective of this seminar is to</p> <ul style="list-style-type: none"> • understand the mechanisms through which technological change influences the labour market. • analyze empirical studies and critically evaluate their methodologies and findings. • discuss the implications of technological change for labour market policies and institutions. • develop skills to synthesize research findings and present coherent arguments in written and oral forms. 	

		<ul style="list-style-type: none"> learn how to discuss presentations of fellow students and provide constructive feedback
7	Prerequisites	Solid knowledge in micro- and macroeconomics, labour economics and econometrics
8	Integration in curriculum	semester: 2;4
9	Module compatibility	Miscellaneous Master of Science Economics 20212 Specialisation: Labour Economics Master of Science Economics 20212
10	Method of examination	Seminar achievement Three reading responses (short paper presentations in small groups) throughout the semester, active course participation, seminar paper including presentation.
11	Grading procedure	Seminar achievement (100%) The final grade is based on the seminar paper (60%), its presentation (20%) and an overall performance assessment for the participation in the classroom including the reading responses/presentations (20%), each of which need to be passed in order to pass the course.
12	Module frequency	Only in summer semester Annually in the summer term
13	Workload in clock hours	Contact hours: 30h Independent study: 120h
14	Module duration	1 semester
15	Teaching and examination language	english
16	Bibliography	To be announced in the first meeting.

1	Module name 93078	Einführung in Datenbanken für Wirtschaftsinformatik Introduction to databases in business information systems	5 ECTS
2	Courses / lectures	<p>Vorlesung: Einführung in Datenbanken (3 SWS)</p> <p>Übung: Übung zu Einführung in Datenbanken - PG1: Fr 16 (3 SWS)</p> <p>Übung: Übung zu Einführung in Datenbanken - PG2: Do 18 (3 SWS)</p> <p>Übung: Übung zu Einführung in Datenbanken - PG3: Di 08 (3 SWS)</p> <p>Übung: Übung zu Einführung in Datenbanken - PG4: Do 16 (3 SWS)</p> <p>Übung: Übung zu Einführung in Datenbanken - PG5: Mo 18 (3 SWS)</p> <p>Übung: Übung zu Einführung in Datenbanken - PG6: Do 08 (3 SWS)</p> <p>Übung: Übung zu Einführung in Datenbanken - PG7: Di 18 (3 SWS)</p> <p>Übung: Übung zu Einführung in Datenbanken - PG8: Mi 14 (3 SWS)</p>	<p>5 ECTS</p> <p>2,5 ECTS</p> <p>2,5 ECTS</p> <p>2,5 ECTS</p> <p>2,5 ECTS</p> <p>2,5 ECTS</p> <p>2,5 ECTS</p> <p>2,5 ECTS</p>
3	Lecturers	<p>Prof. Dr.-Ing. Richard Lenz</p> <p>Felix Hanika</p> <p>David Haller</p> <p>Tobias Bittner</p> <p>Alexander Seifert</p> <p>Fabian Nitschke</p> <p>Joshua Orendt</p>	

4	Module coordinator	Prof. Dr.-Ing. Richard Lenz
5	Contents	<p>Ziel des Moduls ist die Vermittlung von Kenntnissen zur systematischen und bedarfsorientierten Erstellung konzeptioneller Datenbankschemata sowie die relationale Datenbanksprache SQL. Darüber hinaus werden Grundkenntnisse zur Funktionsweise und zur Implementierung von Datenbankmanagementsystemen vermittelt, im Einzelnen:</p> <ul style="list-style-type: none"> • Grundbegriffe von Datenbanken • Entity-Relationship Modell und erweitertes E/R-Modell • UML Klassendiagramme • Das Relationale Datenmodell • Systematische Abbildung von ER-Diagrammen auf Relationale Datenbankschemata • Normalisierung • Relationale Algebra • SQL • Multidimensionale Modellierung und Data Warehousing

		<ul style="list-style-type: none"> • Schichtenmodell zur Implementierung von Datenbanksystemen • Pufferverwaltung • Transaktionen • Andere Datenmodelle, No-SQL Systeme • Ontologien, Semantic Web, RDF, SPARQL
6	Learning objectives and skills	<p>Die Studierenden</p> <ul style="list-style-type: none"> • Können die zentralen Begriffe aus der Datenbankfachliteratur definieren • Erstellen ER-Diagramme und erweiterte ER Diagramme • Können ER-Diagramme systematisch in geeignete relationale Datenbankschemata überführen • Definieren die Normalformen 1NF, 2NF, 3NF, BCNF und 4NF • Können ein nicht normalisiertes Relationenschema in 3NF überführen • Erstellen Anfragen auf der Basis der Relationalen Algebra • Erstellen Datenbankschemata mit Hilfe der SQL DDL • Erstellen Datenbankabfragen mit SQL • Erstellen multidimensionale ER-Diagramme und bilden diese auf Star- oder Snowflake-Schemata ab • Erklären die Funktionsweise von Datenbankpuffern • Erklären die ACID Eigenschaften von Transaktionen • Erklären die Funktionsweise des Zwei-Phasen-Freigabe-Protokolls • Erläutern die Funktionsweise des Zwei-Phasen-Sperr-Protokolls • Beschreiben und vergleichen verschiedene Datenmodelle
7	Prerequisites	None
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Miscellaneous Master of Science Economics 20212
10	Method of examination	Written examination with multiple choice (90 minutes)
11	Grading procedure	Written examination with multiple choice (100%)
12	Module frequency	Only in summer semester
13	Workload in clock hours	Contact hours: 60 h Independent study: 90 h
14	Module duration	1 semester
15	Teaching and examination language	german
16	Bibliography	

1	Module name 858896	Modellierung, Optimierung und Simulation von Energiesystemen Modeling, optimization and simulation of energy systems	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	Marco Pruckner
5	Contents	In der Vorlesung Modellierung, Optimierung und Simulation von Energiesystemen werden systemtechnische Planungs- und Analysemethoden behandelt, die zur Lösung komplexer und interdisziplinärer Entscheidungsaufgaben in der Energiewirtschaft eingesetzt werden. Dabei werden die wichtigsten Methoden und Verfahren anhand praktischer Fragestellungen (z.B. Ausbau erneuerbarer Energien, Zunahme der Elektromobilität) aus der energiepolitischen Planung vermittelt und die Bewältigung technisch-ökonomischer Probleme verdeutlicht. Zu den eingesetzten Tools zählen die Statistiksoftware R, AnyLogic und IpSolve. Vorkenntnisse im Umgang mit diesen Werkzeugen ist nicht zwingend erforderlich. In den Übungen werden Einführungen in die genannten Softwarepakete gegeben.
6	Learning objectives and skills	Die Studierenden <ul style="list-style-type: none"> • unterscheiden Probleme und Herausforderungen, die mit dem Energieumstieg verbunden sind, • erfassen die Vorteile und die Anwendungsmöglichkeiten computergestützter Planungsmethoden im Energiebereich, • analysieren verschiedene Problemstellungen und setzen Lösungen dafür um, • erlernen verschiedene Methoden der Datenanalyse, Optimierung und Simulation.
7	Prerequisites	None
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Interdisciplinary topics for economists Master of Science Economics 20212
10	Method of examination	Portfolio
11	Grading procedure	Portfolio (100%)
12	Module frequency	Only in winter semester
13	Workload in clock hours	Contact hours: 60 h Independent study: 90 h
14	Module duration	1 semester
15	Teaching and examination language	german german or english
16	Bibliography	

1	Module name 52598	Sprachen als Zusatzkurse Additional modules	1,25 ECTS
2	Courses / lectures	No courses / lectures available for this module!	
3	Lecturers	No lecturers available since there are no courses / lectures for this module!	

4	Module coordinator	
5	Contents	no content description available!
6	Learning objectives and skills	no learning objectives and skills description available!
7	Prerequisites	None
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Foreign language skills Master of Science Economics 20212
10	Method of examination	<p>Written or oral</p> <p>Written examination (60 minutes)</p> <p>Variable</p> <p>Written examination (60 minutes)</p> <p>Written examination</p> <p>Written examination (90 minutes)</p> <p>Variable</p> <p>Written examination (60 minutes)</p> <p>Written examination</p> <p>Variable</p> <p>Variable</p> <p>Written examination</p> <p>Variable</p> <p>Variable</p> <p>Written or oral</p> <p>Written examination (90 minutes)</p> <p>Variable</p> <p>Written or oral (60 minutes)</p> <p>Written or oral</p> <p>Written examination (60 minutes)</p> <p>Written or oral (60 minutes)</p> <p>Written examination (60 minutes)</p> <p>Variable</p> <p>Written examination (60 minutes)</p> <p>Written examination (90 minutes)</p> <p>Written examination (60 minutes)</p> <p>Variable</p> <p>Variable</p> <p>Variable</p> <p>Written examination (90 minutes)</p> <p>Written examination (90 minutes)</p> <p>Variable</p> <p>Written or oral</p> <p>Written examination (90 minutes)</p>

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11	Grading procedure	<p>Written or oral (200%) Written examination (400%) Variable (600%) Written examination (200%) Written examination (400%) Written examination (400%) Variable (400%) Written examination (200%) Written examination (200%) Variable (200%) Variable (400%) Written examination (200%) Variable (400%)</p>

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12	Module frequency	no Module frequency information available!
13	Workload in clock hours	Contact hours: ?? h (keine Angaben zum Arbeitsaufwand in Präsenzzeit hinterlegt) Independent study: ?? h (keine Angaben zum Arbeitsaufwand im Eigenstudium hinterlegt)
14	Module duration	?? semester (no information for Module duration available)
15	Teaching and examination language	german english
16	Bibliography	

1	Module name 54505	Englisch English	5 ECTS
2	Courses / lectures	Übung: Englisch Master: English for Business Purposes (2 SWS)	2,5 ECTS
3	Lecturers	Rachel Gracey	

4	Module coordinator	
5	Contents	no content description available!
6	Learning objectives and skills	no learning objectives and skills description available!
7	Prerequisites	None
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Foreign language skills Master of Science Economics 20212 Studierende des Studiengangs International Information Systems (M. Sc.) dürfen lediglich Lehrveranstaltungen dieses Moduls ab Niveaustufe C2 in die Masterprüfung einbringen.
10	Method of examination	Written or oral Variable Written or oral Written or oral Written or oral Written examination (60 minutes) Written examination (60 minutes) Variable Written or oral Variable Written or oral Written or oral Variable Variable Written examination (60 minutes) Variable Variable Variable Written examination (60 minutes) Written or oral Written examination (60 minutes) Variable Variable Written or oral Written or oral Variable Written examination (60 minutes) Variable Written or oral Written or oral

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11	Grading procedure	<p>Written or oral (50%)</p> <p>Variable (50%)</p> <p>Written or oral (50%)</p> <p>Written or oral (100%)</p> <p>Written or oral (100%)</p> <p>Written or oral (50%)</p> <p>Written examination (50%)</p> <p>Written examination (50%)</p> <p>Variable (50%)</p>

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12	Module frequency	no Module frequency information available!
13	Workload in clock hours	Contact hours: ?? h (keine Angaben zum Arbeitsaufwand in Präsenzzeit hinterlegt) Independent study: ?? h (keine Angaben zum Arbeitsaufwand im Eigenstudium hinterlegt)
14	Module duration	?? semester (no information for Module duration available)
15	Teaching and examination language	german english
16	Bibliography	

1	Module name 54565	Deutsch als Fremdsprache German as a foreign language	5 ECTS
2	Courses / lectures	Übung: Deutsch A1.1: Allgemeinkurs (Nürnberg) (4 SWS)	5 ECTS
		Übung: Deutsch A1.2: Allgemeinkurs (Nürnberg) (4 SWS)	5 ECTS
		Übung: Deutsch A2.1: Allgemeinkurs (Nürnberg) (4 SWS)	5 ECTS
		Übung: Deutsch A2.2: Allgemeinkurs (Nürnberg) (4 SWS)	5 ECTS
		Übung: Deutsch B1.1: Allgemeinkurs (Nürnberg) (4 SWS)	5 ECTS
		Übung: Deutsch B1.2: Allgemeinkurs (Nürnberg) (4 SWS)	5 ECTS
3	Lecturers	Übung: Deutsch B2: Schriftlicher und mündlicher Ausdruck (Nürnberg) (2 SWS)	2,5 ECTS
		Stephanie Koch Esther Haertl Stefan Berger Uwe Durst Dr. Frank Mielke	

4	Module coordinator	
5	Contents	no content description available!
6	Learning objectives and skills	no learning objectives and skills description available!
7	Prerequisites	None
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Foreign language skills Master of Science Economics 20212 Studierende des Studiengangs International Information Systems (M. Sc.) mit Studienbeginn <u>vor</u> Wintersemester 2024/25 dürfen lediglich Lehrveranstaltungen dieses Moduls ab Niveaustufe B1 in die Masterprüfung einbringen.
10	Method of examination	Variable Variable Variable Variable Variable Variable Written examination (60 minutes) Variable Variable Variable Variable

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11	Grading procedure	Variable (100%) Variable (pass/fail) Variable (50%) Variable (100%) Variable (50%) Variable (50%) Written examination (50%)

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12	Module frequency	no Module frequency information available!
13	Workload in clock hours	Contact hours: ?? h (keine Angaben zum Arbeitsaufwand in Präsenzzeit hinterlegt)

		Independent study: ?? h (keine Angaben zum Arbeitsaufwand im Eigenstudium hinterlegt)
14	Module duration	?? semester (no information for Module duration available)
15	Teaching and examination language	german
16	Bibliography	

1	Module name 84512	Französisch French	5 ECTS
2	Courses / lectures	Übung: Französisch: Elementarkurs 2 (4 SWS)	5 ECTS
		Übung: Französisch: Elementarkurs 3 (4 SWS)	5 ECTS
		Übung: Französisch: Elementarkurs 4 (4 SWS)	5 ECTS
		Übung: Französisch: Elementarkurs 1a (4 SWS)	5 ECTS
		Übung: Französisch: Elementarkurs 1b (4 SWS)	5 ECTS
3	Lecturers	Agnes Hole-Kreuzer Dr. Corina Petersilka Kévin Bouillard Helene Weig Marc Joel Messou	

4	Module coordinator	
5	Contents	no content description available!
6	Learning objectives and skills	no learning objectives and skills description available!
7	Prerequisites	None
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Foreign language skills Master of Science Economics 20212 Foreign language skills II Master of Science Economics 20212
10	Method of examination	Written examination (90 minutes) Written examination (90 minutes) Written examination (60 minutes) Written examination (60 minutes) Written examination (90 minutes) Written examination (90 minutes) Written examination (60 minutes) Written examination (60 minutes) Written examination (90 minutes) Written examination (60 minutes) Written examination (60 minutes) Written examination (60 minutes) Written examination (60 minutes) Written examination (90 minutes)
11	Grading procedure	Written examination (100%) Written examination (100%) Written examination (50%) Written examination (50%) Written examination (100%) Written examination (100%) Written examination (50%) Written examination (50%) Written examination (100%) Written examination (50%) Written examination (50%)

		Written examination (50%) Written examination (100%)
12	Module frequency	no Module frequency information available!
13	Workload in clock hours	Contact hours: ?? h (keine Angaben zum Arbeitsaufwand in Präsenzzeit hinterlegt) Independent study: ?? h (keine Angaben zum Arbeitsaufwand im Eigenstudium hinterlegt)
14	Module duration	?? semester (no information for Module duration available)
15	Teaching and examination language	german
16	Bibliography	

1	Module name 84522	Italienisch Italian	5 ECTS
2	Courses / lectures	No courses / lectures available for this module!	
3	Lecturers	No lecturers available since there are no courses / lectures for this module!	

4	Module coordinator	
5	Contents	no content description available!
6	Learning objectives and skills	no learning objectives and skills description available!
7	Prerequisites	None
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Foreign language skills Master of Science Economics 20212 Foreign language skills II Master of Science Economics 20212
10	Method of examination	Written examination (60 minutes) Written examination (90 minutes) Written examination (60 minutes) Written examination (60 minutes) Written examination (90 minutes) Written examination (60 minutes) Written examination (90 minutes) Written examination (90 minutes)
11	Grading procedure	Written examination (50%) Written examination (100%) Written examination (50%) Written examination (50%) Written examination (100%) Written examination (50%) Written examination (100%) Written examination (100%)
12	Module frequency	no Module frequency information available!
13	Workload in clock hours	Contact hours: ?? h (keine Angaben zum Arbeitsaufwand in Präsenzzeit hinterlegt) Independent study: ?? h (keine Angaben zum Arbeitsaufwand im Eigenstudium hinterlegt)
14	Module duration	?? semester (no information for Module duration available)
15	Teaching and examination language	german
16	Bibliography	

1	Module name 84532	Portugiesisch Portuguese	5 ECTS
2	Courses / lectures	No teaching units are offered for the module in the current semester. For further information on teaching units please contact the module managers.	
3	Lecturers	-	

4	Module coordinator	
5	Contents	no content description available!
6	Learning objectives and skills	no learning objectives and skills description available!
7	Prerequisites	None
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Foreign language skills Master of Science Economics 20212 Foreign language skills II Master of Science Economics 20212
10	Method of examination	Written examination (90 minutes) Written examination (60 minutes) Written examination (60 minutes) Written examination (60 minutes) Written examination (90 minutes) Written examination (90 minutes) Written examination (60 minutes) Written examination (90 minutes)
11	Grading procedure	Written examination (100%) Written examination (50%) Written examination (50%) Written examination (50%) Written examination (100%) Written examination (100%) Written examination (50%) Written examination (100%)
12	Module frequency	no Module frequency information available!
13	Workload in clock hours	Contact hours: ?? h (keine Angaben zum Arbeitsaufwand in Präsenzzeit hinterlegt) Independent study: ?? h (keine Angaben zum Arbeitsaufwand im Eigenstudium hinterlegt)
14	Module duration	?? semester (no information for Module duration available)
15	Teaching and examination language	german
16	Bibliography	

1	Module name 84541	Russisch Russian	5 ECTS
2	Courses / lectures	Übung: Russisch Elementarkurs 1 (4 SWS)	5 ECTS
3	Lecturers		

4	Module coordinator	
5	Contents	no content description available!
6	Learning objectives and skills	no learning objectives and skills description available!
7	Prerequisites	None
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Foreign language skills Master of Science Economics 20212 Foreign language skills II Master of Science Economics 20212
10	Method of examination	Written examination (90 minutes) Written examination (90 minutes) Written examination (60 minutes) Written examination (90 minutes) Written examination (60 minutes) Written examination (90 minutes) Written examination (90 minutes) Written examination (90 minutes) Written examination (90 minutes) Written examination (60 minutes) Written examination (60 minutes) Written examination (60 minutes) Variable Written examination (60 minutes) Written examination (60 minutes) Written examination (60 minutes) Written examination (90 minutes)
11	Grading procedure	Written examination (100%) Written examination (100%) Written examination (50%) Written examination (50%) Written examination (50%) Written examination (100%) Written examination (100%) Written examination (100%) Written examination (50%) Written examination (50%) Variable (100%) Written examination (50%) Written examination (50%) Written examination (50%) Written examination (50%)
12	Module frequency	no Module frequency information available!
13	Workload in clock hours	Contact hours: ?? h (keine Angaben zum Arbeitsaufwand in Präsenzzeit hinterlegt)

		Independent study: ?? h (keine Angaben zum Arbeitsaufwand im Eigenstudium hinterlegt)
14	Module duration	?? semester (no information for Module duration available)
15	Teaching and examination language	german
16	Bibliography	

1	Module name 84552	Spanisch Spanish	5 ECTS
2	Courses / lectures	No courses / lectures available for this module!	
3	Lecturers	No lecturers available since there are no courses / lectures for this module!	

4	Module coordinator	
5	Contents	no content description available!
6	Learning objectives and skills	no learning objectives and skills description available!
7	Prerequisites	None
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Foreign language skills Master of Science Economics 20212 Foreign language skills II Master of Science Economics 20212
10	Method of examination	Written examination (60 minutes) Written examination (60 minutes) Written examination Written examination (60 minutes) Written examination (90 minutes) Written examination (60 minutes) Written examination (60 minutes) Written examination (90 minutes) Written examination Written examination (90 minutes) Written examination Written examination (60 minutes) Written examination (60 minutes) Written examination (60 minutes) Written examination (90 minutes) Written examination Written examination (60 minutes) Written examination Written examination (90 minutes) Written examination (90 minutes) Written examination (60 minutes) Written examination Written examination (60 minutes) Written examination (90 minutes) Written examination Written examination (60 minutes) Written examination (90 minutes) Written examination
11	Grading procedure	Written examination (50%) Written examination (50%) Written examination (50%) Written examination (50%) Written examination (100%) Written examination (50%)

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12	Module frequency	no Module frequency information available!
13	Workload in clock hours	<p>Contact hours: ?? h (keine Angaben zum Arbeitsaufwand in Präsenzzeit hinterlegt)</p> <p>Independent study: ?? h (keine Angaben zum Arbeitsaufwand im Eigenstudium hinterlegt)</p>
14	Module duration	?? semester (no information for Module duration available)
15	Teaching and examination language	<p>german</p> <p>spanish</p>
16	Bibliography	

1	Module name 84563	Deutsch als Fremdsprache German as a foreign language	5 ECTS
2	Courses / lectures	Übung: Deutsch B1.2: Allgemeinkurs (Nürnberg) (4 SWS)	5 ECTS
		Übung: Deutsch B2: Fachsprache Wirtschaftsdeutsch (Nürnberg) (4 SWS)	5 ECTS
		Übung: Deutsch C1: Fachsprache Wirtschaftsdeutsch (Blended Learning) (Nürnberg) (4 SWS)	5 ECTS
3	Lecturers	Uwe Durst Dr. Julia Lazarus	

4	Module coordinator	
5	Contents	no content description available!
6	Learning objectives and skills	no learning objectives and skills description available!
7	Prerequisites	None
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Foreign language skills Master of Science Economics 20212 Foreign language skills II Master of Science Economics 20212
10	Method of examination	Written examination (60 minutes) Written examination (60 minutes) Written examination (60 minutes) Variable Written examination (60 minutes) Written examination (60 minutes) Variable Variable Written examination (60 minutes) Written examination (60 minutes) Written examination (60 minutes) Written examination (60 minutes) Written examination (60 minutes) Written examination (60 minutes) Written examination (60 minutes) Written examination (60 minutes)
11	Grading procedure	Written examination (50%) Written examination (50%) Written examination (50%) Variable (100%) Written examination (50%) Written examination (50%) Variable (100%) Variable (100%) Written examination (50%) Written examination (50%) Written examination (50%)

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12	Module frequency	no Module frequency information available!
13	Workload in clock hours	Contact hours: ?? h (keine Angaben zum Arbeitsaufwand in Präsenzzeit hinterlegt) Independent study: ?? h (keine Angaben zum Arbeitsaufwand im Eigenstudium hinterlegt)
14	Module duration	?? semester (no information for Module duration available)
15	Teaching and examination language	german
16	Bibliography	

1	Module name 84571	Japanisch Japanese	5 ECTS
2	Courses / lectures	No courses / lectures available for this module!	
3	Lecturers	No lecturers available since there are no courses / lectures for this module!	

4	Module coordinator	
5	Contents	no content description available!
6	Learning objectives and skills	no learning objectives and skills description available!
7	Prerequisites	None
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Foreign language skills Master of Science Economics 20212 Foreign language skills II Master of Science Economics 20212
10	Method of examination	Variable Written examination (90 minutes) Variable Variable Written examination (90 minutes) Written examination (90 minutes) Variable Written examination (90 minutes)
11	Grading procedure	Variable (50%) Written examination (100%) Variable (100%) Variable (100%) Written examination (100%) Written examination (100%) Variable (50%) Written examination (100%)
12	Module frequency	no Module frequency information available!
13	Workload in clock hours	Contact hours: ?? h (keine Angaben zum Arbeitsaufwand in Präsenzzeit hinterlegt) Independent study: ?? h (keine Angaben zum Arbeitsaufwand im Eigenstudium hinterlegt)
14	Module duration	?? semester (no information for Module duration available)
15	Teaching and examination language	german
16	Bibliography	

1	Module name 84573	Japanisch Japanese	5 ECTS
2	Courses / lectures	No courses / lectures available for this module!	
3	Lecturers	No lecturers available since there are no courses / lectures for this module!	

4	Module coordinator	
5	Contents	no content description available!
6	Learning objectives and skills	no learning objectives and skills description available!
7	Prerequisites	None
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Foreign language skills Master of Science Economics 20212 Foreign language skills II Master of Science Economics 20212
10	Method of examination	Variable Written examination (90 minutes) Variable Variable Written examination (90 minutes) Written examination (90 minutes) Variable Written examination (90 minutes)
11	Grading procedure	Variable (50%) Written examination (100%) Variable (100%) Variable (100%) Written examination (100%) Written examination (100%) Variable (50%) Written examination (100%)
12	Module frequency	no Module frequency information available!
13	Workload in clock hours	Contact hours: ?? h (keine Angaben zum Arbeitsaufwand in Präsenzzeit hinterlegt) Independent study: ?? h (keine Angaben zum Arbeitsaufwand im Eigenstudium hinterlegt)
14	Module duration	?? semester (no information for Module duration available)
15	Teaching and examination language	german
16	Bibliography	

1	Module name 84590	Norwegisch Norwegian	5 ECTS
2	Courses / lectures	No courses / lectures available for this module!	
3	Lecturers	No lecturers available since there are no courses / lectures for this module!	

4	Module coordinator	
5	Contents	no content description available!
6	Learning objectives and skills	no learning objectives and skills description available!
7	Prerequisites	None
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Foreign language skills Master of Science Economics 20212 Foreign language skills II Master of Science Economics 20212
10	Method of examination	Variable Variable Variable Variable Written examination (90 minutes) Written examination (90 minutes) Written examination (90 minutes) Written examination (90 minutes)
11	Grading procedure	Variable (100%) Variable (50%) Variable (100%) Variable (50%) Written examination (100%) Written examination (100%) Written examination (100%) Written examination (100%)
12	Module frequency	no Module frequency information available!
13	Workload in clock hours	Contact hours: ?? h (keine Angaben zum Arbeitsaufwand in Präsenzzeit hinterlegt) Independent study: ?? h (keine Angaben zum Arbeitsaufwand im Eigenstudium hinterlegt)
14	Module duration	?? semester (no information for Module duration available)
15	Teaching and examination language	german
16	Bibliography	

1	Module name 84592	Norwegisch Norwegian	5 ECTS
2	Courses / lectures	No courses / lectures available for this module!	
3	Lecturers	No lecturers available since there are no courses / lectures for this module!	

4	Module coordinator	
5	Contents	no content description available!
6	Learning objectives and skills	no learning objectives and skills description available!
7	Prerequisites	None
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Foreign language skills Master of Science Economics 20212 Foreign language skills II Master of Science Economics 20212
10	Method of examination	Variable Variable Variable Variable Written examination (90 minutes) Written examination (90 minutes) Written examination (90 minutes) Written examination (90 minutes)
11	Grading procedure	Variable (100%) Variable (50%) Variable (100%) Variable (50%) Written examination (100%) Written examination (100%) Written examination (100%) Written examination (100%)
12	Module frequency	no Module frequency information available!
13	Workload in clock hours	Contact hours: ?? h (keine Angaben zum Arbeitsaufwand in Präsenzzeit hinterlegt) Independent study: ?? h (keine Angaben zum Arbeitsaufwand im Eigenstudium hinterlegt)
14	Module duration	?? semester (no information for Module duration available)
15	Teaching and examination language	german
16	Bibliography	

1	Module name 84601	Arabisch Arabic	5 ECTS
2	Courses / lectures	No courses / lectures available for this module!	
3	Lecturers	No lecturers available since there are no courses / lectures for this module!	

4	Module coordinator	
5	Contents	no content description available!
6	Learning objectives and skills	no learning objectives and skills description available!
7	Prerequisites	None
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Foreign language skills Master of Science Economics 20212 Foreign language skills II Master of Science Economics 20212
10	Method of examination	Variable Variable Variable Written examination (90 minutes) Variable Variable Variable Variable Written examination (90 minutes) Written examination (90 minutes) Variable Variable Variable Variable Variable Variable Variable Variable Variable
11	Grading procedure	Variable (100%) Variable (50%) Variable (100%) Written examination (100%) Variable (50%) Variable (100%) Variable (50%) Variable (50%) Written examination (100%) Written examination (100%) Variable (150%) Variable (150%) Variable (100%) Variable (100%) Variable (100%)

		Variable (100%) Variable (100%) Variable (50%)
12	Module frequency	no Module frequency information available!
13	Workload in clock hours	Contact hours: ?? h (keine Angaben zum Arbeitsaufwand in Präsenzzeit hinterlegt) Independent study: ?? h (keine Angaben zum Arbeitsaufwand im Eigenstudium hinterlegt)
14	Module duration	?? semester (no information for Module duration available)
15	Teaching and examination language	german
16	Bibliography	

1	Module name 84610	Chinesisch Chinesische	5 ECTS
2	Courses / lectures	Übung: Chinesisch: Elementarkurs 1a (4 SWS)	5 ECTS
		Übung: Chinesisch: Elementarkurs 1b (4 SWS)	5 ECTS
		Übung: Chinesisch: Elementarkurs 1d (4 SWS)	5 ECTS
		Übung: Chinesisch: Elementarkurs 1c (4 SWS)	5 ECTS
		Übung: Chinesisch: Elementarkurs 2 (3 SWS)	5 ECTS
3	Lecturers	Xiaoqing Li-Hosenfeldt	
		Linhong Song	

4	Module coordinator	
5	Contents	no content description available!
6	Learning objectives and skills	no learning objectives and skills description available!
7	Prerequisites	None
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Foreign language skills Master of Science Economics 20212 Foreign language skills II Master of Science Economics 20212
10	Method of examination	Written examination (90 minutes) Written examination (90 minutes) Variable Written examination (90 minutes) Written examination (90 minutes) Written examination (90 minutes) Variable Variable Written examination (90 minutes) Variable
11	Grading procedure	Written examination (100%) Written examination (100%) Variable (50%) Written examination (100%) Written examination (100%) Written examination (100%) Variable (50%) Variable (100%) Written examination (100%) Variable (100%)
12	Module frequency	no Module frequency information available!
13	Workload in clock hours	Contact hours: ?? h (keine Angaben zum Arbeitsaufwand in Präsenzzeit hinterlegt) Independent study: ?? h (keine Angaben zum Arbeitsaufwand im Eigenstudium hinterlegt)

14	Module duration	?? semester (no information for Module duration available)
15	Teaching and examination language	german
16	Bibliography	

1	Module name 84670	Schwedisch Swedish	5 ECTS
2	Courses / lectures	No courses / lectures available for this module!	
3	Lecturers	No lecturers available since there are no courses / lectures for this module!	

4	Module coordinator	
5	Contents	no content description available!
6	Learning objectives and skills	no learning objectives and skills description available!
7	Prerequisites	None
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Foreign language skills Master of Science Economics 20212 Foreign language skills II Master of Science Economics 20212
10	Method of examination	Variable Written examination (90 minutes) Variable Variable Written examination (90 minutes) Written examination (90 minutes) Variable Variable Written examination (90 minutes)
11	Grading procedure	Variable (100%) Written examination (100%) Variable (50%) Variable (100%) Written examination (100%) Written examination (100%) Variable (50%) Variable (50%) Written examination (100%)
12	Module frequency	no Module frequency information available!
13	Workload in clock hours	Contact hours: ?? h (keine Angaben zum Arbeitsaufwand in Präsenzzeit hinterlegt) Independent study: ?? h (keine Angaben zum Arbeitsaufwand im Eigenstudium hinterlegt)
14	Module duration	?? semester (no information for Module duration available)
15	Teaching and examination language	german
16	Bibliography	

1	Module name 84672	Schwedisch Swedish	5 ECTS
2	Courses / lectures	No courses / lectures available for this module!	
3	Lecturers	No lecturers available since there are no courses / lectures for this module!	

4	Module coordinator	
5	Contents	no content description available!
6	Learning objectives and skills	no learning objectives and skills description available!
7	Prerequisites	None
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Foreign language skills Master of Science Economics 20212 Foreign language skills II Master of Science Economics 20212
10	Method of examination	Variable Written examination (90 minutes) Variable Written examination (90 minutes) Written examination (90 minutes) Written examination (90 minutes)
11	Grading procedure	Variable (100%) Written examination (100%) Variable (100%) Written examination (100%) Written examination (100%) Written examination (100%)
12	Module frequency	no Module frequency information available!
13	Workload in clock hours	Contact hours: ?? h (keine Angaben zum Arbeitsaufwand in Präsenzzeit hinterlegt) Independent study: ?? h (keine Angaben zum Arbeitsaufwand im Eigenstudium hinterlegt)
14	Module duration	?? semester (no information for Module duration available)
15	Teaching and examination language	german
16	Bibliography	

1	Module name 84673	Dänisch Danish	5 ECTS
2	Courses / lectures	No courses / lectures available for this module!	
3	Lecturers	No lecturers available since there are no courses / lectures for this module!	

4	Module coordinator	
5	Contents	no content description available!
6	Learning objectives and skills	no learning objectives and skills description available!
7	Prerequisites	None
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Foreign language skills Master of Science Economics 20212
10	Method of examination	Variable Variable Variable Variable Variable Variable
11	Grading procedure	Variable (100%) Variable (100%) Variable (50%) Variable (50%) Variable (100%) Variable (100%)
12	Module frequency	no Module frequency information available!
13	Workload in clock hours	Contact hours: ?? h (keine Angaben zum Arbeitsaufwand in Präsenzzeit hinterlegt) Independent study: ?? h (keine Angaben zum Arbeitsaufwand im Eigenstudium hinterlegt)
14	Module duration	?? semester (no information for Module duration available)
15	Teaching and examination language	german
16	Bibliography	

1	Module name 84691	Niederländisch Dutch	5 ECTS
2	Courses / lectures	No courses / lectures available for this module!	
3	Lecturers	No lecturers available since there are no courses / lectures for this module!	

4	Module coordinator	
5	Contents	no content description available!
6	Learning objectives and skills	no learning objectives and skills description available!
7	Prerequisites	None
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Foreign language skills Master of Science Economics 20212 Foreign language skills II Master of Science Economics 20212
10	Method of examination	Written examination (90 minutes) Variable Variable
11	Grading procedure	Written examination (100%) Variable (100%) Variable (100%)
12	Module frequency	no Module frequency information available!
13	Workload in clock hours	Contact hours: ?? h (keine Angaben zum Arbeitsaufwand in Präsenzzeit hinterlegt) Independent study: ?? h (keine Angaben zum Arbeitsaufwand im Eigenstudium hinterlegt)
14	Module duration	?? semester (no information for Module duration available)
15	Teaching and examination language	german
16	Bibliography	

1	Module name 84721	Türkisch Turkish	5 ECTS
2	Courses / lectures	No courses / lectures available for this module!	
3	Lecturers	No lecturers available since there are no courses / lectures for this module!	

4	Module coordinator	
5	Contents	no content description available!
6	Learning objectives and skills	no learning objectives and skills description available!
7	Prerequisites	None
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Foreign language skills Master of Science Economics 20212 Foreign language skills II Master of Science Economics 20212
10	Method of examination	Written examination Written examination (60 minutes) Written examination (60 minutes) Written examination (60 minutes) Written examination Written examination (60 minutes)
11	Grading procedure	Written examination (50%) Written examination (100%) Written examination (100%) Written examination (100%) Written examination (100%) Written examination (100%)
12	Module frequency	no Module frequency information available!
13	Workload in clock hours	Contact hours: ?? h (keine Angaben zum Arbeitsaufwand in Präsenzzeit hinterlegt) Independent study: ?? h (keine Angaben zum Arbeitsaufwand im Eigenstudium hinterlegt)
14	Module duration	?? semester (no information for Module duration available)
15	Teaching and examination language	german
16	Bibliography	

1	Module name 84730	Tschechisch Czech	5 ECTS
2	Courses / lectures	No courses / lectures available for this module!	
3	Lecturers	No lecturers available since there are no courses / lectures for this module!	

4	Module coordinator	
5	Contents	no content description available!
6	Learning objectives and skills	no learning objectives and skills description available!
7	Prerequisites	None
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Foreign language skills Master of Science Economics 20212 Foreign language skills II Master of Science Economics 20212
10	Method of examination	Variable Variable Variable Written examination (60 minutes) Variable Variable Variable Written examination (60 minutes) Variable
11	Grading procedure	Variable (50%) Variable (50%) Variable (50%) Written examination (50%) Variable (50%) Variable (100%) Variable (50%) Written examination (50%) Variable (100%)
12	Module frequency	no Module frequency information available!
13	Workload in clock hours	Contact hours: ?? h (keine Angaben zum Arbeitsaufwand in Präsenzzeit hinterlegt) Independent study: ?? h (keine Angaben zum Arbeitsaufwand im Eigenstudium hinterlegt)
14	Module duration	?? semester (no information for Module duration available)
15	Teaching and examination language	german
16	Bibliography	

1	Module name 84735	Neugriechisch Modern Greek	5 ECTS
2	Courses / lectures	No courses / lectures available for this module!	
3	Lecturers	No lecturers available since there are no courses / lectures for this module!	

4	Module coordinator	
5	Contents	no content description available!
6	Learning objectives and skills	no learning objectives and skills description available!
7	Prerequisites	None
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Foreign language skills Master of Science Economics 20212 Foreign language skills II Master of Science Economics 20212
10	Method of examination	Variable Variable
11	Grading procedure	Variable (50%) Variable (50%)
12	Module frequency	no Module frequency information available!
13	Workload in clock hours	Contact hours: ?? h (keine Angaben zum Arbeitsaufwand in Präsenzzeit hinterlegt) Independent study: ?? h (keine Angaben zum Arbeitsaufwand im Eigenstudium hinterlegt)
14	Module duration	?? semester (no information for Module duration available)
15	Teaching and examination language	german
16	Bibliography	

1	Module name 84740	Ungarisch Hungarian	5 ECTS
2	Courses / lectures	No courses / lectures available for this module!	
3	Lecturers	No lecturers available since there are no courses / lectures for this module!	

4	Module coordinator	
5	Contents	no content description available!
6	Learning objectives and skills	no learning objectives and skills description available!
7	Prerequisites	None
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Foreign language skills Master of Science Economics 20212 Foreign language skills II Master of Science Economics 20212
10	Method of examination	Written examination (60 minutes) Variable Written examination (60 minutes) Variable Written examination (60 minutes) Written examination (60 minutes) Variable
11	Grading procedure	Written examination (50%) Variable (50%) Written examination (50%) Variable (100%) Written examination (50%) Written examination (50%) Variable (100%)
12	Module frequency	no Module frequency information available!
13	Workload in clock hours	Contact hours: ?? h (keine Angaben zum Arbeitsaufwand in Präsenzzeit hinterlegt) Independent study: ?? h (keine Angaben zum Arbeitsaufwand im Eigenstudium hinterlegt)
14	Module duration	?? semester (no information for Module duration available)
15	Teaching and examination language	german
16	Bibliography	

1	Module name 84750	Polnisch Polish	5 ECTS
2	Courses / lectures	No courses / lectures available for this module!	
3	Lecturers	No lecturers available since there are no courses / lectures for this module!	

4	Module coordinator	
5	Contents	no content description available!
6	Learning objectives and skills	no learning objectives and skills description available!
7	Prerequisites	None
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Foreign language skills Master of Science Economics 20212 Foreign language skills II Master of Science Economics 20212
10	Method of examination	Variable Written examination (90 minutes) Variable Written examination (90 minutes) Variable Variable Written examination (90 minutes) Variable
11	Grading procedure	Variable (50%) Written examination (100%) Variable (50%) Written examination (100%) Variable (100%) Variable (100%) Written examination (100%) Variable (100%)
12	Module frequency	no Module frequency information available!
13	Workload in clock hours	Contact hours: ?? h (keine Angaben zum Arbeitsaufwand in Präsenzzeit hinterlegt) Independent study: ?? h (keine Angaben zum Arbeitsaufwand im Eigenstudium hinterlegt)
14	Module duration	?? semester (no information for Module duration available)
15	Teaching and examination language	german
16	Bibliography	

1	Module name 84765	Slowakisch Slovak	5 ECTS
2	Courses / lectures	No courses / lectures available for this module!	
3	Lecturers	No lecturers available since there are no courses / lectures for this module!	

4	Module coordinator	
5	Contents	no content description available!
6	Learning objectives and skills	no learning objectives and skills description available!
7	Prerequisites	None
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Foreign language skills Master of Science Economics 20212
10	Method of examination	Written examination (90 minutes)
11	Grading procedure	Written examination (100%)
12	Module frequency	no Module frequency information available!
13	Workload in clock hours	Contact hours: ?? h (keine Angaben zum Arbeitsaufwand in Präsenzzeit hinterlegt) Independent study: ?? h (keine Angaben zum Arbeitsaufwand im Eigenstudium hinterlegt)
14	Module duration	?? semester (no information for Module duration available)
15	Teaching and examination language	german
16	Bibliography	

1	Module name 84770	Rumänisch Romanian	5 ECTS
2	Courses / lectures	No courses / lectures available for this module!	
3	Lecturers	No lecturers available since there are no courses / lectures for this module!	

4	Module coordinator	
5	Contents	no content description available!
6	Learning objectives and skills	no learning objectives and skills description available!
7	Prerequisites	None
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Foreign language skills Master of Science Economics 20212 Foreign language skills II Master of Science Economics 20212
10	Method of examination	Written examination (90 minutes) Variable Written examination (90 minutes)
11	Grading procedure	Written examination (100%) Variable (100%) Written examination (100%)
12	Module frequency	no Module frequency information available!
13	Workload in clock hours	Contact hours: ?? h (keine Angaben zum Arbeitsaufwand in Präsenzzeit hinterlegt) Independent study: ?? h (keine Angaben zum Arbeitsaufwand im Eigenstudium hinterlegt)
14	Module duration	?? semester (no information for Module duration available)
15	Teaching and examination language	german
16	Bibliography	

1	Module name 84780	Finnisch Finnish	5 ECTS
2	Courses / lectures	No courses / lectures available for this module!	
3	Lecturers	No lecturers available since there are no courses / lectures for this module!	

4	Module coordinator	
5	Contents	no content description available!
6	Learning objectives and skills	no learning objectives and skills description available!
7	Prerequisites	None
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Foreign language skills Master of Science Economics 20212 Foreign language skills II Master of Science Economics 20212
10	Method of examination	Written examination (90 minutes) Variable Variable Variable
11	Grading procedure	Written examination (100%) Variable (100%) Variable (50%) Variable (100%)
12	Module frequency	no Module frequency information available!
13	Workload in clock hours	Contact hours: ?? h (keine Angaben zum Arbeitsaufwand in Präsenzzeit hinterlegt) Independent study: ?? h (keine Angaben zum Arbeitsaufwand im Eigenstudium hinterlegt)
14	Module duration	?? semester (no information for Module duration available)
15	Teaching and examination language	german
16	Bibliography	

1	Module name 84790	Koreanisch Korean	5 ECTS
2	Courses / lectures	No courses / lectures available for this module!	
3	Lecturers	No lecturers available since there are no courses / lectures for this module!	

4	Module coordinator	
5	Contents	no content description available!
6	Learning objectives and skills	no learning objectives and skills description available!
7	Prerequisites	None
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Foreign language skills Master of Science Economics 20212 Foreign language skills II Master of Science Economics 20212
10	Method of examination	Written examination (90 minutes)
11	Grading procedure	Written examination (100%)
12	Module frequency	no Module frequency information available!
13	Workload in clock hours	Contact hours: ?? h (keine Angaben zum Arbeitsaufwand in Präsenzzeit hinterlegt) Independent study: ?? h (keine Angaben zum Arbeitsaufwand im Eigenstudium hinterlegt)
14	Module duration	?? semester (no information for Module duration available)
15	Teaching and examination language	german
16	Bibliography	

1	Module name 84791	Koreanisch Elementarkurs II Korean: Elementary course II	5 ECTS
2	Courses / lectures	No courses / lectures available for this module!	
3	Lecturers	No lecturers available since there are no courses / lectures for this module!	

4	Module coordinator	
5	Contents	no content description available!
6	Learning objectives and skills	no learning objectives and skills description available!
7	Prerequisites	None
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Foreign language skills Master of Science Economics 20212 Foreign language skills II Master of Science Economics 20212
10	Method of examination	Written examination (90 minutes)
11	Grading procedure	Written examination (100%)
12	Module frequency	no Module frequency information available!
13	Workload in clock hours	Contact hours: ?? h (keine Angaben zum Arbeitsaufwand in Präsenzzeit hinterlegt) Independent study: ?? h (keine Angaben zum Arbeitsaufwand im Eigenstudium hinterlegt)
14	Module duration	?? semester (no information for Module duration available)
15	Teaching and examination language	german
16	Bibliography	

1	Module name 84810	Indonesisch Indonesian	5 ECTS
2	Courses / lectures	No courses / lectures available for this module!	
3	Lecturers	No lecturers available since there are no courses / lectures for this module!	

4	Module coordinator	
5	Contents	no content description available!
6	Learning objectives and skills	no learning objectives and skills description available!
7	Prerequisites	None
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Foreign language skills Master of Science Economics 20212 Foreign language skills II Master of Science Economics 20212
10	Method of examination	Written examination (90 minutes)
11	Grading procedure	Written examination (100%)
12	Module frequency	no Module frequency information available!
13	Workload in clock hours	Contact hours: ?? h (keine Angaben zum Arbeitsaufwand in Präsenzzeit hinterlegt) Independent study: ?? h (keine Angaben zum Arbeitsaufwand im Eigenstudium hinterlegt)
14	Module duration	?? semester (no information for Module duration available)
15	Teaching and examination language	german
16	Bibliography	

1	Module name 84820	Thailändisch Thai	5 ECTS
2	Courses / lectures	No courses / lectures available for this module!	
3	Lecturers	No lecturers available since there are no courses / lectures for this module!	

4	Module coordinator	
5	Contents	no content description available!
6	Learning objectives and skills	no learning objectives and skills description available!
7	Prerequisites	None
8	Integration in curriculum	no Integration in curriculum available!
9	Module compatibility	Foreign language skills Master of Science Economics 20212 Foreign language skills II Master of Science Economics 20212
10	Method of examination	Written examination (90 minutes)
11	Grading procedure	Written examination (100%)
12	Module frequency	no Module frequency information available!
13	Workload in clock hours	Contact hours: ?? h (keine Angaben zum Arbeitsaufwand in Präsenzzeit hinterlegt) Independent study: ?? h (keine Angaben zum Arbeitsaufwand im Eigenstudium hinterlegt)
14	Module duration	?? semester (no information for Module duration available)
15	Teaching and examination language	german
16	Bibliography	