

MODULE MANUAL

M.Sc. Global Sustainability Economics

Summer semester 2026

last modified: 05.03.26

Compulsory modules

Microeconomics
Introduction to Microeconometrics
International Political Economy
Economics of Inequality
Introduction to Global Sustainability Economics
Macroeconomics
Project Seminar Global Sustainability
Applied Econometrics with R
Environmental Economics

Compulsory elective modules

Applied Microeconomics

Economics of Innovation
Industrial Organization
Network Economics
Seminar Applied Microeconomics

Behavioral and Environmental Economics

Economics of prosocial behavior
Economics of sustainable behavior

Data Science in Economics

Machine Learning and Programming in Python
Master Seminar on Data Science in Economics

Seminar on Data Science in Economics: Growth, Sustainability, and Transformation

Seminar on Data Science in Economics: Topics in Labor Economics

Empirische Entwicklungsökonomie / Empirical Development Economics

Economics, Politics & African Societies

Political Economy of Social Protection

Empirische Makroökonomik / Empirical Macroeconomics

Business cycle analysis and forecasting

Introduction to Empirical Macroeconomics

Empirische Wirtschaftsforschung / Empirical Economics

Data Analysis Using R

Econometric Evaluation of Economic Policies

Economics of Education

Economics of Migration

Empirical Economics: Selected Problems

Labor Economics

Energieökonomik & -politik / Energy Economics and Politics

Advanced Energy Economics, Policy and Technology

Seminar in Advanced Energy Economics, Policy and Technology

Energieökonomik und ang. Ökonometrie / Energy Economics and Applied Econometrics

Empirical Environmental, Resource and Energy Economics

Market and Non-Market Valuation of Environmental Goods

Entwicklungsforschung / Development Research

Economics of Absolute Poverty

Economics of Natural Resources

Economics of Terrorism and Counterterrorism

Growth and Development Economics

Mathematical Bioeconomics and Epidemics - Sustainability and Economic Change

Finanzwissenschaft und Regionalökonomik / Public and Regional Economics

Public Economics

Seminar Public Choice

Health Economics

Current Topics in Health Economics

Seminar on Health Economics and Health Policy

International Monetary Macroeconomics

Exchange Rates

International Macroeconomics

Internationale Wirtschaftsbeziehungen / International Economics

African Economic Development

International Trade and Sustainable Development

Seminar in African Economic Development

Seminar in Development Economics

Seminar in International Economics

Klimawandel und Entwicklung / Climate Change and Development

Adaptation to Climate Change in the Global South

Climate Change and Sustainable Development

Research internship in the Global South

Makroökonomik / Macroeconomics

Advanced Ecological Economics

Advanced Macroeconomic Simulation

Economic Policy and the Media

Macroeconomics and Sustainability

Seminar Quantitative Regional Economics

Module anderer Fakultäten / Modules from other faculties

Seminar in Applied Energy System Analysis and Energy Economics

Sozialpolitik und öffentliche Finanzen / Social Policy and Institutional Economics

Theory of Welfare State

Statistik / Ökonometrie / Statistics / Econometrics

Applied Time Series Analysis

Econometrics

Financial Econometrics

Multivariate Statistical Methods

Seminar in Econometrics

Umwelt-/Ressourcenökonomik und Nachhaltigkeit / Environmental/Resource Economics and Sustainability

Seminar in Advanced Energy and Resource Economics I

Seminar in Advanced Energy and Resource Economics II

Wirtschaftspolitik u. ang. Ökonometrie / Economic Policy and Applied Econometrics

Seminar in Applied Economic Policy

Elective modules

Arbeit, Personal und Führung / Work, Human Resources and Leadership

Regional Innovation

Twin Transformation – Management und Governance von Digitalisierung und Nachhaltigkeit

Betriebswirtschaftliche Steuerlehre / Business Taxation

Introduction to International Taxation

Betriebswirtschaftslehre, insb. Financial Accounting / Business Administration (esp. Financial Accounting)

Accounting for Sustainability in Research and Practice

Advanced Seminar Financial Accounting

Controlling

Wertorientiertes Controlling

Energierecht und -wirtschaft / Energy law and economics

Ausgewählte Probleme der Transformation der Energie- und Infrastruktursysteme

Finanzierung und Kreditwirtschaft / Banking and Finance

Bankenkrisen und -regulierung

Data Science in Finance

Finanzwissenschaft und Regionalökonomik / Public and Regional Economics

Finanzwissenschaft und Regionalökonomik: Forschungsseminar

Makroökonomik / Macroeconomics

Projektseminar Future Skills

Umwelt- und Innovationspolitik / Environmental and Innovation Policy

Spring School „Digitalisierung und Entrepreneurship“

Wirtschaftsrecht / Law of Economics

Einführung in die Energiewirtschaft und das Energiewirtschaftsrecht

Wirtschaftsrecht II

Wirtschaftsrecht IV

Microeconomics					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 223	5 CP	150 h	1.-3. Semester	Winter	1 Semester
Lehrveranstaltungen/ Courses Lecture and tutorials			Kontaktzeit/ Contact time a) Lecture: 2 SWS b) Tutorial: 2 SWS	Selbststudium/ Self-study 90 h	Gruppengröße/ Group size
Unterrichtssprache/ Language English			Teilnahmevoraussetzungen/ Requirements Good knowledge of microeconomics and mathematics at Bachelor's level is recommended.		
Anmeldeverfahren/ Registration The registration for the exam takes place via FlexNow within the deadlines announced by the examination office (Prüfungsamt).					
Verwendung des Moduls/ Module application Global Sustainability Economics MSc. <ul style="list-style-type: none"> • Compulsory module Economic Policy Consulting MSc. <ul style="list-style-type: none"> • Compulsory Module (20 ECTS) Management and Economics MSc. <ul style="list-style-type: none"> • Theoretical & Applied Microeconomics • General Economics Finance, Accounting, Auditing, Controlling, & Taxation MSc. <ul style="list-style-type: none"> • Elective module (max. 15-20 ECTS) Sales Management MSc. <ul style="list-style-type: none"> • Elective module (max. 20-25 ECTS) 					
Lernziele/ Learning targets The module aims to provide students with the analytical and conceptual tools to understand microeconomic models and its applications to applied economic policy. After completing the course students should be able to: <ul style="list-style-type: none"> • understand and explain the core concepts in consumer theory, production theory, competitive market equilibrium and Pareto efficiency; • read and understand microeconomic models in the literature; • understand the building of microeconomic models, the role and importance of the models' assumptions and their consequences for the models' results; • assess and criticise the microeconomic models in the literature. 					
Inhalt/ Contents The module covers standard microeconomic topics at graduate level: consumer choice, production and costs, competitive markets, general equilibrium, efficiency and welfare theorems.					
Lehrformen/ Teaching methods Lecture and tutorials					
Prüfungsformen/ Mode of assessment The module assessment consists of a written exam. The module grade corresponds to the grade of the written exam.					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points Credit points are awarded after successfully passing the written exam.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS) 4,17 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature Learning material: <ul style="list-style-type: none"> • Lecture and tutorial scripts. These are made available in electronic form via the e-learning platform Moodle of the Ruhr-University before each class. Relevant literature: <ul style="list-style-type: none"> • Gravelle & Rees (2004, 3rd Edn) Microeconomics 					

Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)

Modulbeauftragte/r: Prof. Dr. Julio Robledo

Lehrende: Prof. Dr. Julio Robledo and assistants

Microeconomics

Introduction to Microeconometrics					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 000	5 CP	150 h	1.-3. Semester	Summer	1 Semester
Lehrveranstaltungen/ Courses Lecture, tutorial			Kontaktzeit/ Contact time Lecture: 2 SWS Tutorial: 2 SWS	Selbststudium/ Self-study 90 h	Gruppengröße/ Group size
Unterrichtssprache/ Language English			Teilnahmevoraussetzungen/ Requirements Advanced knowledge of empirical research and/or econometrics at a Bachelor's level is recommended.		
Anmeldeverfahren/ Registration see webpage					
Verwendung des Moduls/ Module application Global Sustainability Economics MSc. <ul style="list-style-type: none"> • Compulsory module Economic Policy Consulting MSc. <ul style="list-style-type: none"> • Compulsory Module(20 ECTS) Management and Economics MSc. <ul style="list-style-type: none"> • Data Science & Quantitative Analysis • Statistics & Econometrics • Theoretical & Applied Microeconomics • General Economics Finance, Accounting, Auditing, Controlling & Taxation M.Sc. <ul style="list-style-type: none"> • Elective module (max. 15-20 ECTS) Sales Management MSc. <ul style="list-style-type: none"> • Elective module (max. 20-25 ECTS) 					
Lernziele/ Learning targets By the end of this course, students should be able to understand and evaluate empirical studies based on micro data and to be proficient in the subject-related terminology. They should have the ability to choose the right empirical estimation strategy based on a given dataset/problem. Moreover, students should be able to conduct basic econometric analyses using the software R, to understand program code and to interpret program outputs.					
Inhalt/ Contents This module deals with the advanced econometric methods applicable to micro data. In particular, discrete choice and selection models as well as advanced empirical evaluation methods are covered. Within the lecture, the participants are introduced to the theoretical concepts of the methods. Within the tutorial, problem sets are solved, partly using the software R.					
Lehrformen/ Teaching methods Lecture, tutorial					
Prüfungsformen/ Mode of assessment The final module examinations consist of a written exam. The final grade corresponds to the grade of the written exam.					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points Credit points are awarded after successful completion of the final module examination.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS) 4,17 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature <ul style="list-style-type: none"> • Angrist/Pischke, (2008), Mostly Harmless Econometrics: An Empiricist's Companion. Princeton University Press. • Bauer/Fertig/Schmidt, (2009), Empirische Wirtschaftsforschung – Eine Einführung. Springer Verlag: Berlin. • Cameron/Trivedi (2005), Microeconometrics: Methods and Applications. Cambridge University Press. 					
Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s) Modulbeauftragte/r: Prof. Dr. Thomas Bauer Lehrende: Prof. Dr. Thomas Bauer and teaching assistants					

International Political Economy					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
	5 CP	150 h	1.-3. Semester	Summer	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Interactive lecture and role-playing game			Lecture: 2 SWS	122 h	30
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
English			none		
Anmeldeverfahren/ Registration					
The registration for the examination via FlexNow within the deadlines announced by the examination office.					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc.					
<ul style="list-style-type: none"> • Compulsory module 					
Lernziele/ Learning targets					
Students will learn about theories of international political economy. While the course mainly focuses on economic models, public choice approaches (partly from political science) will also be covered. Participants can analyse and understand international political challenges in selected policy areas, such as climate change, international trade or macroeconomics. They will deepen and apply their knowledge in a role-playing game.					
Inhalt/ Contents					
The course consists of two parts. The first consists of lectures on the theories and approaches in international political economy in selected areas of economics. These include, for example, international environmental policy (above all, climate change), international trade policy or international macroeconomic policies. At the core of the course are international economic issues that affect two or more countries in these three selected areas. In the second part, students will apply their knowledge in a role-playing game. For a particular international political conflict, e.g., international climate change or international trade negotiations, they will be assigned a particular country or institution and have to defend the interest of that negotiating party.					
Lehrformen/ Teaching methods					
Interactive lecture and role-playing game					
Prüfungsformen/ Mode of assessment					
The module grade results from the written position paper for the role-playing game.					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Credit points are awarded after successful completion of the module examination. Participation in the module examination requires that a brief written test on the content of the first part of the course has been successfully completed in advance (at least 50% of the attainable points in the test have been achieved).					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)					
4,17 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature					
Will be announced in the lecture.					
Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)					
Modulbeauftragte/r: Prof. Dr. Thushyanthan Baskaran					
Lehrende: Prof. Dr. Thushyanthan Baskaran / Prof. Dr. Matthias Busse					

Economics of Inequality					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
	5 CP	150 h	1.-3. Semester	Winter	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time Lecture: 2 SWS	Selbststudium/ Self-study 122 h	Gruppengröße/ Group size
Unterrichtssprache/ Language English			Teilnahmevoraussetzungen/ Requirements At least one course in econometrics at the Bachelor's level.		
Anmeldeverfahren/ Registration The registration for the examination via FlexNow within the deadlines announced by the examination office.					
Verwendung des Moduls/ Module application Global Sustainability Economics MSc. <ul style="list-style-type: none"> • Compulsory module 					
Lernziele/ Learning targets By enrolling in this course, participants understand the drivers of economic inequality in and across countries. Participants can analyse and evaluate the empirical evidence from various econometric studies focusing on economic inequality from different points of view.					
Inhalt/ Contents The main objective of this course is to analyse the complex reasons for the ongoing changes in income and wealth inequality worldwide. We will cover both theoretical models and empirical evidence. The course will examine inequality between and within countries, covering developed and developing countries. Topics covered will, among others, include the fundamental determinants of economic growth, the impact of international trade, technological change, education and financial markets on the distribution of income and wealth.					
Lehrformen/ Teaching methods Interactive lecture					
Prüfungsformen/ Mode of assessment The module grade results from the written module examination (90 minutes).					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points Credit points are awarded after successful completion of the module examination.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS) 4,17 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature Will be announced in the lecture.					
Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s) Modulbeauftragte/r: Prof. Dr. Matthias Busse Lehrende: Prof. Dr. Matthias Busse / Prof. Dr. Thomas Bauer					

Introduction to Global Sustainability Economics					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
	5 CP	150 h	1.-3. Semester	Every semester	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Seminar with group discussions and some lectures, self-study with mentoring.			a) Global Sustainable Development: 2 SWS b) Personal and Intercultural Competence: 2 SWS	105 h	30
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
English			none		
Anmeldeverfahren/ Registration					
The registration for the examination takes place via FlexNow within the deadlines announced by the examination office.					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc.					
<ul style="list-style-type: none"> • Compulsory module 					
Lernziele/ Learning targets					
Students					
<ul style="list-style-type: none"> • can explain the concept of global sustainable development, discuss the problems of the idea and identify trade-offs and tensions • can explain why a systemic perspective is necessary to deal with sustainability issues and can apply basic concepts of system thinking to sustainable development • know what personal competence and intercultural competence are and why they are essential in a global context • know tools and approaches to improve personal and intercultural skills 					
Inhalt/ Contents					
<p>The module introduces students to global sustainability economics, covering key issues, main concepts and approaches. The course consists of two different short courses. The first one, Global Sustainable Development, focuses on the different aspects of sustainability and the evolution of the concept over time. The U.N. Sustainable Development Goals (SDGs) will be discussed with a special focus on the tensions and tradeoffs between the goals. Planetary boundaries are another important concept introduced in class, which will be discussed in relation to economic growth.</p> <p>The second course, Personal and Intercultural Competence, offers a broad range of personal and intercultural skills in a global context. This course is mainly taught by self-study, but also in a workshop and by personal mentoring. At the beginning of the second course, all students must take the introductory unit on competencies and future skills. Then, they must choose at least four from the available units (two each on personal and intercultural skills). The units regarding personal skills will cover time management, problem-solving, critical thinking, organisation and personal project management, creativity, self-motivation, and self-reflection. In contrast, the units for intercultural skills include communication, cooperation and collaboration, cultural awareness, empathy, ability to change perspective, and tolerance.</p>					
Lehrformen/ Teaching methods					
Seminar with group discussions and some lectures, self-study with mentoring.					
Prüfungsformen/ Mode of assessment					
Short essay with presentation and discussion in class. Self-reflection report with personal development plan.					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Credit points are received when the final module examination has been successfully completed.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)					
4,17 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature					
Will be provided in the Moodle course.					

Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)

Modulbeauftragte/r: Prof. Dr. Michael Roos / Prof. Dr. Matthias Busse / Prof. Dr. Wilhelm Löwenstein

Lehrende: Prof. Dr. Michael Roos / Prof. Dr. Matthias Busse / Prof. Dr. Wilhelm Löwenstein

Introduction to Global Sustainability Economics

Macroeconomics					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 242	CP	150 h	1.-3. Semester	Summer	1 Semester
Lehrveranstaltungen/ Courses Lecture, tutorial			Kontaktzeit/ Contact time Lecture: 2 SWS Tutorial: 2 SWS	Selbststudium/ Self-study 105 h	Gruppengröße/ Group size 40
Unterrichtssprache/ Language English			Teilnahmevoraussetzungen/ Requirements Students will need excellent English skills and the willingness to deal with mathematical economic models. Knowledge of macroeconomic models and concepts at the principles to intermediate level is expected. A compulsory requirement to take part in the course is the reading of: - Chapter 1, "The demand side." - Chapter 2, "The supply side." From the textbook: Carlin W., Soskice D., (2015) Macroeconomics. Institutions, Instability, and the Financial System. Oxford University Press. We recommend this reading before the start of the course as to familiarize with the style of the book and to make a recap of the most crucial concepts needed to progress on the course.		
Anmeldeverfahren/ Registration The (voluntary) course registration takes place via the learning platform Moodle of the Ruhr-University Bochum. The registration for the examination takes place via FlexNow within the deadlines announced by the examination office.					
Verwendung des Moduls/ Module application Global Sustainability Economics MSc. <ul style="list-style-type: none"> • Compulsory module Economic Policy Consulting MSc. <ul style="list-style-type: none"> • Compulsory module (20 ECTS) Management and Economics MSc. <ul style="list-style-type: none"> • Entrepreneurship, Innovation & Transformation • Development Economics • Data Science & Quantitative Analysis • General Economics Finance, Accounting, Auditing, Controlling & Taxation M.Sc. <ul style="list-style-type: none"> • Elective module (max. 15-20 ECTS) Sales Management MSc. <ul style="list-style-type: none"> • Elective module (max. 20-25 ECTS) 					
Lernziele/ Learning targets Students <ul style="list-style-type: none"> • Learn how to work with macroeconomic models at an intermediate to advanced level. • Get an overview of critical macroeconomic topics and facts. • Acquire knowledge that is necessary to understand financial crises, their unfolding, and possible solutions. • Acquire sound theoretical foundations for macroeconomic policy analysis. 					
Inhalt/ Contents This module covers theoretical models on business cycle fluctuations and growth, inflation and unemployment at an intermediate to advanced level. It provides an overview of the most important macroeconomic topics and introduces students to concepts that are important for more advanced studies of macroeconomics and practical work in this field. The focus of this module is on aggregate models without microfoundations. We use the theoretical models to introduce and to discuss important issues of macroeconomic policy concerning growth and macroeconomic stabilization. Particular attention will be devoted to the analysis of the financial system and the conditions that lead to a financial crisis.					
Lehrformen/ Teaching methods Lectures, tutorial					
Prüfungsformen/ Mode of assessment <ul style="list-style-type: none"> • Written exam (100% of the grade) 					

- Mid-term exam (not graded)

Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points

Students have to pass the mid-term and the final exam to get credit points.

Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)

4,17 %

Lernmaterialien und Literaturangaben/ Learning material and relevant literature

Carlin W., Soskice D., (2015) Macroeconomics. Institutions, Instability, and the Financial System. Oxford University Press.

Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)

Modulbeauftragte/r: Prof. Dr. Michael Roos

Lehrende: Prof. Dr. Michael Roos and assistants

Macroeconomics

Project Seminar Global Sustainability					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
	10 CP	300 h	3. Semester	Every semester	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Seminar with group discussions and some lectures, self-study with mentoring.			Project seminar with online self-study elements: 1 SWS	270 h	10
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
English			none		
Anmeldeverfahren/ Registration					
The registration for the examination takes place via FlexNow within the deadlines announced by the examination office.					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc.					
<ul style="list-style-type: none"> • Compulsory module 					
Lernziele/ Learning targets					
<ul style="list-style-type: none"> • Students can analyze complex global sustainability issues from a systemic perspective. • Students can identify and describe trade-offs between different policy goals. • Students can identify and describe distributional and ethical problems. • Student can propose and discuss viable, just and sustainable policy recommendations. 					
Inhalt/ Contents					
The module covers various sustainability problems in the global context, e.g. climate change, poverty, deforestation, desertification, food security, water stress, energy etc. All these problems have economic causes and consequences. The focus topics vary from semester to semester depending on the lecturers' main expertise. Students will learn that all of these problems are interconnected and have multiple implications for economic development, international trade and international migration. Furthermore, the problems have always an ecological, a social and an economics dimension, which all must be considered to find viable, just and sustainable solutions. It is hence necessary to analyze these problems systemically. The goal of the project seminar is to integrate the knowledge and competences that students have acquired in the other core modules. Students use the research methods that have learned to analyze a specific global sustainability problem from an economic perspective. Building on the economic analysis, they identify distributional and ethical issues and develop policy recommendations in line with the sustainable development goals.					
Lehrformen/ Teaching methods					
Lectures, self-study, mentoring					
Prüfungsformen/ Mode of assessment					
The module grade results from the project paper.					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Two presentations on project progress.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)					
8,33 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature					
Will be provided in the Moodle course.					
Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)					
Modulbeauftragte/r: Prof. Dr. Michael Roos Lehrende: All professors of the Chairs of Economics					

Applied Econometrics with R					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
074 080	5 CP	150 h	1.-3. Semester	Winter	1 Semester
Lehrveranstaltungen/ Courses a) Lecture b) Tutorial			Kontaktzeit/ Contact time Lecture: 2 SWS Tutorial: 2 SWS	Selbststudium/ Self-study 98 h	Gruppengröße/ Group size
Unterrichtssprache/ Language English			Teilnahmevoraussetzungen/ Requirements		
Anmeldeverfahren/ Registration Information concerning registrations is provided through the chair's website. Registration for examination through FlexNow within the time span announced by the examination office.					
Verwendung des Moduls/ Module application Global Sustainability Economics MSc. <ul style="list-style-type: none"> • Compulsory module Economic Policy Consulting MSc. <ul style="list-style-type: none"> • Compulsory module (20 ECTS) Management and Economics MSc. <ul style="list-style-type: none"> • International Finance • Data Science & Quantitative Analysis • Statistics & Econometrics • General Economics • General Management Finance, Accounting, Auditing, Controlling, & Taxation MSc <ul style="list-style-type: none"> • Elective module (max. 15-20 ECTS) Sales Management MSc. <ul style="list-style-type: none"> • Elective module (max. 20-25 ECTS) 					
Lernziele/ Learning targets Participants should be enabled to distinguish different econometric models and explain their respective properties. They should apply these models to various economic and other data sets and interpret the results. In a situation where violations of certain assumptions are found, they should choose an appropriate approach and decide how to implement it. In the programming exercises, which use the software package R, students are supposed to apply code from pre-existing packages and develop new code based on the methodology studied in the course. Participants should be able to analyze and interpret their program outputs.					
Inhalt/ Contents Econometrics allows to analyze data sets characterizing economic problems in a quantitative manner. To that end, economic models are cast into econometric models, which can then be applied to the economic data at hand. Two of the most important econometric models are the univariate and multivariate linear regression models, whose properties and underlying assumptions are discussed in detail. Remedies for violations of the assumptions are likewise discussed. A short overview of time series models is likewise given. These models are then implemented in the software package R, using existing and creating new code, and applied to artificially created and actual data sets. Results are analyzed and described.					
Lehrformen/ Teaching methods Lecture and tutorial					
Prüfungsformen/ Mode of assessment Final grade is the grade of the final exam.					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points Credit points are awarded if a passing grade has been reached in the final exam.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS) 8,3 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature Lecture slides and exercises are made available on Moodle. Literature references are provided in the lecture.					

Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)

Modulbeauftragte/r: Prof. Dr. Vasyl Golosnoy

Lehrende: Prof. Dr. Vasyl Golosnoy / Dr. Miriam Seifert

Applied Econometrics with R

Environmental Economics					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 560	5 CP	150 h	1.-3. Semester	Winter	1 Semester
Lehrveranstaltungen/ Courses Lecture and exercises			Kontaktzeit/ Contact time a) Lecture: 2 SWS b) Exercises: 2 SWS	Selbststudium/ Self-study 94 h	Gruppengröße/ Group size
Unterrichtssprache/ Language English			Teilnahmevoraussetzungen/ Requirements		
Anmeldeverfahren/ Registration The (voluntary) course registration takes place via the learning platform Moodle of the Ruhr-University, the registration for the examination via FlexNow within the deadlines announced by the examination office.					
Verwendung des Moduls/ Module application Global Sustainability Economics MSc. <ul style="list-style-type: none"> • Compulsory module Economic Policy Consulting MSc. <ul style="list-style-type: none"> • Umweltmanagement, Ressourcen und Energie • Elective module Management and Economics MSc. <ul style="list-style-type: none"> • Energy and Environmental Economics • General Economics Finance, Accounting, Auditing, Controlling, & Taxation MSc. <ul style="list-style-type: none"> • Elective module (max. 15-20 ECTS) Sales Management MSc. <ul style="list-style-type: none"> • Elective module (max. 20-25 ECTS) 					
Lernziele/ Learning targets The module aims to provide students with the analytical and conceptual tools to understand and address environmental and sustainability challenges from an economic perspective. It strengthens their ability to critically assess policy instruments, evaluate environmental impacts economically, and situate these issues within broader global sustainability frameworks. After completing the course, students will in particular be able to: • Explain core concepts such as efficiency, optimality, and sustainability, and place them in the context of environmental and resource economics ; • Analyze the interactions between economic activity and the natural environment, identifying key drivers such as population, affluence, and technology; • Evaluate global sustainability challenges, considering the argument that economic growth is limited by environmental factors and reflecting on the concept of sustainable development; • apply ethical frameworks, such as utilitarianism, and distinguish between weak and strong sustainability in environmental policy contexts; • Understand the conditions for efficient allocation, recognize market failures, and justify the need for government intervention; • Explain the characteristics of public goods and the rationale for environmental policy interventions based on welfare economics.					
Inhalt/ Contents The lecture "Environmental Economics" explores the environmental consequences of economic activity in the context of global sustainability. A particular emphasis is placed on the environmental impacts of the energy system, such as air pollution and greenhouse gas emissions, which play a central role in climate change. The course introduces key concepts from welfare economics as they apply to environmental issues and discusses how sustainability challenges emerge from the interaction between economic behavior and ecological systems. It examines how environmental policy goals are formulated and implemented using various instruments to address environmental and sustainability challenges from both a local and global perspective. Furthermore, the course analyzes the economic costs and societal benefits of environmental regulation, including methods for evaluating environmental impacts and promoting					

sustainable development pathways. Through this lens, environmental economics is presented as a framework for addressing urgent ecological issues in an interconnected and resource-constrained world.

Lehrformen/ Teaching methods

Lecture and exercises

Prüfungsformen/ Mode of assessment

A single grade is awarded based on the final exam.

Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points

Credit points are awarded upon successful completion of the module examination.

Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)

4,17 %

Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)

Modulbeauftragte/r: Prof. Dr. Andreas Löschel

Lehrende: Prof. Dr. Andreas Löschel / Dr. Christoph Feldhaus

Environmental Economics

Economics of Innovation					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 230	10 CP	300 h	1.-3. Semester	Winter	1 Semester
Lehrveranstaltungen/ Courses a) Lecture b) Tutorial			Kontaktzeit/ Contact time Lecture: 2 SWS Tutorial: 2 SWS	Selbststudium/ Self-study 105 h	Gruppengröße/ Group size 30
Unterrichtssprache/ Language English			Teilnahmevoraussetzungen/ Requirements Good knowledge of microeconomics and mathematics. Good command of English.		
Anmeldeverfahren/ Registration The (voluntary) course registration takes place via the e-learning platform Moodle of the Ruhr-University, the (compulsory) registration for the final exam takes place via FlexNow within the deadlines announced by the examination office (Prüfungsamt).					
Verwendung des Moduls/ Module application Global Sustainability Economics MSc. <ul style="list-style-type: none"> • Compulsory elective Economic Policy Consulting MSc <ul style="list-style-type: none"> • Entrepreneurship, Innovation und Transformation • Elective module Management and Economics MSc. <ul style="list-style-type: none"> • Entrepreneurship, Innovation & Transformation • Theoretical & Applied Microeconomics • General Economics Finance, Accounting, Auditing, Controlling, & Taxation MSc. <ul style="list-style-type: none"> • Elective module (max. 15) Sales Management MSc. <ul style="list-style-type: none"> • Elective module (max. 20 ECTS) 					
Lernziele/ Learning targets Students learn about the crucial role of innovation and technical progress from a microeconomic perspective. The focus is not on perfect competition via prices, but on the competition of ideas (Schumpeter's "creative destruction"). The modul analyses the role of industry structure for innovation incentives. The students should be able to understand the trade off in patent policy between setting ex ante the right incentives to innovate and the ex post deadweight welfare loss due to monopoly. The role of government in setting patent policy is explained. In the follow up semester, there is usually a seminar on the economics of innovation. In order to attend the seminar, it is a necessary condition to have attended and passed this module, because the content of this module is a prerequisite to understand the models of the seminar.					
Inhalt/ Contents Market structure and the incentive to innovate, competition and innovation, patent policy (optimal patent length and optimal patent breadth), patent races.					
Lehrformen/ Teaching methods Lecture and tutorials					
Prüfungsformen/ Mode of assessment The module assessment consists of a written seminar paper and a seminar presentation at the end of semester. A minimum grade of 4,0 in the written seminar paper is a prerequisite for the seminar presentation.					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points Credit points are awarded after successful passing of the seminar paper.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS) 8,3 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature Learning material: Lecture and tutorial scripts. These are made available in electronic form via the e-learning platform Moodle of the Ruhr-University before each class. Relevant literature: <ul style="list-style-type: none"> • Suzanne Scotchmer (2004) Innovation and Incentives • Belleflamme & Peitz (2010) Industrial Organization: Markets and Strategies 					

- Pepall, Richards, and Norman (2011) Contemporary Industrial Organisation - A Quantitative Approach
Further papers given in the module.

Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)

Modulbeauftragte/r: Prof. Dr. Julio Robledo

Lehrende: Prof. Dr. Robledo and assistants

Economics of Innovation

Industrial Organization					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 225	5 CP	150 h	1.-3. Semester	Summer	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
a) Lecture b) Tutorial			a) Lecture: 2 SWS b) Tutorial: 2 SWS	105 h	
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
English			Good knowledge of microeconomics and mathematics. Good command of English.		
Anmeldeverfahren/ Registration					
The (voluntary) course registration takes place via the e-learning platform Moodle of the Ruhr-University, the (compulsory) registration for the final exam takes place via FlexNow within the deadlines announced by the examination office (Prüfungsamt).					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc.					
<ul style="list-style-type: none"> • Compulsory elective 					
Economic Policy Consulting MSc.					
<ul style="list-style-type: none"> • Elective module 					
Management and Economics MSc.					
<ul style="list-style-type: none"> • Theoretical & Applied Microeconomics • General Economics 					
Finance, Accounting, Auditing, Controlling, & Taxation MSc.					
<ul style="list-style-type: none"> • Elective module (max. 15) 					
Sales Management MSc.					
<ul style="list-style-type: none"> • Elective module (max. 20 ECTS) 					
Lernziele/ Learning targets					
This module is an introduction to industrial organization (IO) and its applications to applied economic policy at graduate level. Students learn the standard modelling techniques. After attending this module, students should be able to read and understand IO oriented scientific literature.					
Inhalt/ Contents					
The module covers standard IO topics at graduate level: monopoly, oligopoly, price discrimination, horizontal and vertical product differentiation, bundling and tying.					
Lehrformen/ Teaching methods					
Lecture and tutorials					
Prüfungsformen/ Mode of assessment					
The module final grade is determined entirely by the grade of the final exam.					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Credit points are awarded after successful passing of the final exam.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)					
4,17 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature					
Learning material: Lecture and tutorial scripts. These are made available in electronic form via the e-learning platform Moodle of the Ruhr-University before each class. Relevant literature:					
<ul style="list-style-type: none"> • Belleflamme & Peitz (2010) Industrial Organization: Markets and Strategies • Pepall, Richards, and Norman (2011) Contemporary Industrial Organisation - A Quantitative Approach • Tirole (1988) Theory of Industrial Organization • Gravelle & Rees (2004) Microeconomics 					
Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)					
Modulbeauftragte/r: Prof. Dr. Julio Robledo Lehrende: Prof. Dr. Julio Robledo and assistants					

Sonstige Informationen/ Further information

If you have successfully completed the module "Microeconomics II", you cannot take this module.

Industrial Organization

Network Economics					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 221	5 CP	150 h	1.-3. Semester	Summer	1 Semester
Lehrveranstaltungen/ Courses a) Lecture b) Tutorial			Kontaktzeit/ Contact time a) Lecture: 2 SWS b) Tutorial: 2 SWS	Selbststudium/ Self-study 105 h	Gruppengröße/ Group size
Unterrichtssprache/ Language English			Teilnahmevoraussetzungen/ Requirements Good knowledge of microeconomics and mathematics. Good command of English.		
Anmeldeverfahren/ Registration The (voluntary) course registration takes place via the e-learning platform Moodle of the Ruhr-University, the (compulsory) registration for the final exam takes place via FlexNow within the deadlines announced by the examination office (Prüfungsamt).					
Verwendung des Moduls/ Module application Global Sustainability Economics MSc. <ul style="list-style-type: none"> • Compulsory elective Economic Policy Consulting MSc. <ul style="list-style-type: none"> • Entrepreneurship, Innovation und Transformation • Elective module Management and Economics MSc. <ul style="list-style-type: none"> • Theoretical & Applied Microeconomics • General Economics Finance, Accounting, Auditing, Controlling, & Taxation MSc. <ul style="list-style-type: none"> • Elective module (max. 15) Sales Management MSc. <ul style="list-style-type: none"> • Elective module (max. 20 ECTS) 					
Lernziele/ Learning targets This module is an introduction to network markets and its applications to applied economic policy. Students learn the standard modelling techniques. After attending this module, students should be able to read and understand network oriented scientific literature.					
Inhalt/ Contents This module analyses competition on network markets with the tools of industrial economics. Topics are complementarities, compatibility, network externalities, switching costs etc. The focus is on the hardware and software industry, telecommunication, informational goods, bank networks, etc. Previous knowledge in industrial organization is helpful, but it not a prerequisite, since we will briefly review the main concepts. The students should obtain a sound knowledge in network economics that allows them to read and understand original papers in the literature.					
Lehrformen/ Teaching methods Lecture and tutorials					
Prüfungsformen/ Mode of assessment The module final grade is determined entirely by the grade of the final exam.					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points Credit points are awarded after successful passing of the final exam.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS) 4,17 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature Learning material: Lecture and tutorial scripts. These are made available in electronic form via the e-learning platform Moodle of the Ruhr-University before each class. Relevant literature: <ul style="list-style-type: none"> • Oz Shy (2001) The Economics of Network Industries 					
Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s) Modulbeauftragte/r: Prof. Dr. Julio Robledo Lehrende: Prof. Dr. Julio Robledo and assistants					

Seminar Applied Microeconomics					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 228	5 CP	150 h	1.-3. Semester	Sommer	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Seminar			Seminar: 2 SWS	127,5 h	30
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
English					
Anmeldeverfahren/ Registration					
The (voluntary) course registration takes place via the e-learning platform Moodle of the Ruhr-University, the (compulsory) registration for the final exam takes place via FlexNow within the deadlines announced by the examination office (Prüfungsamt).					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc.					
<ul style="list-style-type: none"> • Compulsory elective 					
Economic Policy Consulting MSc.					
<ul style="list-style-type: none"> • Elective module 					
Management and Economics MSc.					
<ul style="list-style-type: none"> • Theoretical & Applied Microeconomics • General Economics 					
Finance, Accounting, Auditing, Controlling, & Taxation MSc.					
<ul style="list-style-type: none"> • Elective module (max. 15) 					
Sales Management MSc.					
<ul style="list-style-type: none"> • Elective module (max. 20 ECTS) 					
Lernziele/ Learning targets					
The seminar is aimed for advanced graduate students. The students are required to read and understand modern papers published in leading economics journals. They should write their own paper and present it in class. We will offer support regarding the literature, the structuring of your own paper and the presentation. The aim of the module is that students read, understand and explain original papers. Thus the module is a good exercise for research projects like master's thesis.					
Inhalt/ Contents					
The topics vary from semester to semester, but they are usually related to our other advanced master modules.					
Lehrformen/ Teaching methods					
Introductory session and presentations (block event).					
Prüfungsformen/ Mode of assessment					
The module final grade is determined by the grade of the seminar work.					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Credit points are awarded after successfully passing the seminar.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)					
4,17 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature					
Learning material: A seminar script will be available in electronic form via the e-learning platform Moodle of the Ruhr-University during the seminar. Relevant literature: The relevant literature will depend on the seminar topics.					
Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)					
Modulbeauftragte/r: Prof. Dr. Julio Robledo Lehrende: Prof. Dr. Julio Robledo and assistants					

Economics of prosocial behavior					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 540	5 CP	150 h	1.-3. Semester	irregular	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Seminar			Seminar: 2 SWS	127,5 h	
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
English			Knowledge in empirical economic research and/or econometrics is recommended.		
Anmeldeverfahren/ Registration					
Application for the seminar by e-mail to Mark.Andor@rwi-essen.de If accepted, Mark Andor will register you at the examination office.					
Verwendung des Moduls/ Module application					
Globals Sustainability Economics MSc.					
<ul style="list-style-type: none"> • Compulsory elective 					
Economic Policy Consulting MSc.					
<ul style="list-style-type: none"> • Environmental, Resource and Energy Economics • Elective module 					
Management and Economics MSc.					
<ul style="list-style-type: none"> • Energy and Environmental Economics • General Economics 					
Finance, Accounting, Auditing, Controlling & Taxation MSc.					
<ul style="list-style-type: none"> • Elective module (max. 15 ECTS) 					
Sales Management MSc.					
<ul style="list-style-type: none"> • Elective module (max. 20 ECTS) 					
Lernziele/ Learning targets					
<p>Students improve their ability to understand and evaluate scientific literature. They also deepen their knowledge of behavioral, experimental and econometric methods by studying the methodology of relevant peer-reviewed papers. During the seminar, students learn about current topics in the fields of behavioral economics, experimental economics and the economics of prosocial behavior, learn how to write a term paper and improve their presentation skills. In particular, students will understand how scientific papers are written, how to identify weaknesses in the current literature and how to develop their own research ideas. Students should be enabled to conduct their own research, an important prerequisite for writing their master's thesis.</p>					
Inhalt/ Contents					
<p>The aim of this seminar is to prepare students to critically assess topics in behavioral economics, experimental economics and the economics of prosocial behavior, in particular from an empirical perspective. Seminar participants are expected to make a presentation and write a term paper on a topic agreed upon with the instructor. Beyond summarizing and evaluating the literature, the studies and empirical methods should be examined and critiqued to identify where gaps in knowledge exist. In particular, students are expected to develop and outline their own research idea.</p>					
Lehrformen/ Teaching methods					
Seminar					
Prüfungsformen/ Mode of assessment					
Term paper (65%) with presentation (35%). It may be possible to earn bonus points. Participation in the seminar is mandatory.					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Credit points are awarded after the successful completion of the presentation and the term paper.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)					
4,17 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature					
Relevant literature, such as peer-reviewed journal articles, will be announced before the beginning of the seminar.					

Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)
Modulbeauftragte/r: Prof. Dr. Mark A. Andor
Lehrende: Prof. Dr. Mark A. Andor

Economics of prosocial behavior

Economics of sustainable behavior					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 236	5 CP	150 h	1.-3. Semester	irregular	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Seminar (around 25% of the meetings are potentially virtual)			Seminar: 2 SWS	127,5 h	20
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
English			Knowledge in empirical economic research and/or econometrics is recommended.		
Anmeldeverfahren/ Registration					
Application for the seminar by e-mail to Mark.Andor@rwi-essen.de If accepted, Mark Andor will register you at the examination office.					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc.					
<ul style="list-style-type: none"> • Compulsory elective module 					
Economic Policy Consulting MSc.					
<ul style="list-style-type: none"> • Environmental, Resource and Energy Economics • Elective module 					
Management and Economics MSc.					
<ul style="list-style-type: none"> • Energy and Environmental Economics • General Economics 					
Finance, Accounting, Auditing, Controlling & Taxation MSc.					
<ul style="list-style-type: none"> • Elective module (max. 15-20 ECTS) 					
Sales Management MSc.					
<ul style="list-style-type: none"> • Elective module (max. 20-25 ECTS) 					
Lernziele/ Learning targets					
Students improve their ability to understand and evaluate scientific literature. They also deepen their knowledge of behavioral, experimental and econometric methods by studying the methodology of relevant peer-reviewed papers. During the seminar, students learn about current topics in behavioral, experimental and sustainability economics, learn to write a term paper and improve their presentation skills. In particular, students will understand how scientific papers are written, how to identify weaknesses in the current literature and how to develop their own research ideas. Students should be enabled to conduct their own research, an important prerequisite for writing their master's thesis.					
Inhalt/ Contents					
The aim of this seminar is to prepare students to critically assess topics in behavioral, experimental and sustainability economics, in particular from an empirical perspective. Seminar participants are expected to make a presentation and write a term paper on a topic agreed upon with the instructor. Beyond summarizing and evaluating the literature, the studies and empirical methods should be examined and critiqued to identify where gaps in knowledge exist. In particular, students are expected to develop and outline their own research idea.					
Lehrformen/ Teaching methods					
Seminar					
Prüfungsformen/ Mode of assessment					
Term paper (65%) with presentation (35%). It may be possible to earn bonus points. Participation in the seminar is mandatory.					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Credit points are awarded after the successful completion of the presentation and the term paper.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)					
4,17 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature					
Relevant literature, such as peer-reviewed journal articles, will be announced before the beginning of the seminar.					

Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)
Modulbeauftragte/r: Prof. Dr. Mark A. Andor
Lehrende: Prof. Dr. Mark A. Andor

Economics of sustainable behavior

Machine Learning and Programming in Python					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 155	5 CP	150 h	3.-6. Semester	Winter	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Lecture			Lecture: 2 SWS	127,5 h	25
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
English					
Anmeldeverfahren/ Registration					
In order to get credit points for this course, 2 steps are required: 1. Application by email at the Chair by following the guidelines as outlined in the Course Syllabus which is provided in Moodle, and 2. Registration for the exam via FlexNow within the deadlines announced by the examination office. The deadlines for application and registration are announced in the course syllabus which can be found in Moodle.					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc.					
<ul style="list-style-type: none"> • Compulsory elective 					
Economic Policy Consulting M.Sc.					
<ul style="list-style-type: none"> • Entrepreneurship, Innovation und Transformation • International and Spatial Economics • Umweltmanagement, Ressourcen und Energy • Empirical Economics 					
Management and Economics M.Sc.					
<ul style="list-style-type: none"> • Entrepreneurship, Innovation & Transformation • Data Science & Quantitative Analysis • Development Economics • Statistics & Econometrics • Energie- & Umweltökonomik • General Economics 					
Finance, Accounting, Auditing, Controlling & Taxation M.Sc.					
<ul style="list-style-type: none"> • Elective module (max. 15-20 ECTS) 					
Sales Management M.Sc.					
<ul style="list-style-type: none"> • Elective module (max. 20-25 ECTS) 					
Lernziele/ Learning targets					
In this module, students get to know basic and advanced models and methods from data science/ machine learning and their relevance in Economics. The techniques are applied using the programming language Python. After successfully completing the module, students are able i. to understand a wide variety of methods of machine learning/ artificial intelligence, ii. to develop models that implement procedures in Python, iii. to analyse numerical datasets and text data, and iv. to understand applications of machine learning models in Economics.					
Inhalt/ Contents					
The module deals with basic and advanced models and methods from data science/ machine learning. Students learn to apply modern methods of artificial intelligence. The focus is on applications of the methods in the field of Economics. Using the programming language Python, numerical datasets and text data are analysed and machine learning models are developed. Students learn about the packages NumPy, Pandas, Matplotlib, Scikit-learn in Python.					
• Complexity of models					
• Bias-variance trade-off					
• Regularisation					
• Supervised learning					
• Regression					
• Classification					
• Logistic Regression					
• Decision trees, random forests					
• Model evaluation					
• Unsupervised learning					
• K-means clustering, principal component analysis					

Lehrformen/ Teaching methods Lecture and Tutorial
Prüfungsformen/ Mode of assessment The module grade results from the final module exam (duration: 90 minutes).
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points Credit points are awarded if the final module exam has been successfully passed.
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS) 2,77 %
Lernmaterialien und Literaturangaben/ Learning material and relevant literature Materials and literature will be announced during the lecture and via Moodle.
Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s) Modulbeauftragte/r: Prof. Dr. Astrid Krenz Lehrende: Prof. Dr. Astrid Krenz
Sonstige Informationen/ Further information Next dates: <ul style="list-style-type: none"> • Winter semester 25/26 • Winter semester 26/27

Machine Learning and Programming in Python

Master Seminar on Data Science in Economics					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 150	5 CP	150 h	1.-3. Semester	irregularly	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Seminar			2 SWS	127,5 h	20
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
English					
Anmeldeverfahren/ Registration					
The (voluntary) course registration takes place via the e-learning platform Moodle of the RUB. Registration deadlines will be announced during the introductory meeting and in Moodle. The (compulsory) registration for the final exam takes place via FlexNow within the deadlines announced by the examination office (Prüfungsamt).					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc.					
<ul style="list-style-type: none"> • Compulsory elective 					
Economic Policy Consulting MSc.					
<ul style="list-style-type: none"> • Regional, International and Development Economics • Environmental, Resource and Energy Economics • Empirical Economics • Elective module 					
Management and Economics MSc.					
<ul style="list-style-type: none"> • Entrepreneurship, Innovation & Transformation • Data Science & Quantitative Analysis • Development Economics • Energy and Environmental Economics • Statistics & Econometrics • General Economics 					
Finance, Accounting, Auditing, Controlling, & Taxation MSc.					
<ul style="list-style-type: none"> • Elective module (max. 15-20 ECTS) 					
Sales Management MSc.					
<ul style="list-style-type: none"> • Elective module (max. 20-25 ECTS) 					
Lernziele/ Learning targets					
The seminar covers topics of data science applications related to the areas of growth economics, sustainability research and transformation research. Participants receive an overview of developments in this research field. Students will learn to analyse and discuss the relevant literature. The students acquire skills in academic writing and presentation techniques.					
Inhalt/ Contents					
The seminar deals with various current topics from the areas of growth economics, sustainability research and transformation research. We address among others the following questions: What is meant by growth? Why is growth important for the well-being of societies? Which debates exist about growth and degrowth? How is sustainability discussed and analysed in economics? What role does technological change play? How are the digital, ecological and socio-economic transformation related to each other? What role does the digital transformation play for economic growth and sustainability? In the seminar paper, the students show that they can review the relevant literature, analyse it, extract important results from both theoretical models and empirical studies, and to have a solid understanding of the methods/ techniques from Data Science/ Empirical Economics. The students demonstrate their skills in academic writing and motivate a topic in their seminar paper, explain the methods and arguments from the relevant theoretical and empirical literature in a concise and structured way, and critically examine them. A focus has to be given on methods used from Data Science or Empirical Economics. During the presentation, the students demonstrate that they can grasp complex theoretical models and empirical studies and present them in a compact manner.					
Lehrformen/ Teaching methods					
Introductory session and presentations (block event).					
Prüfungsformen/ Mode of assessment					
The final module exam consists of a written assignment (seminar paper). Participation in the final module examination requires that the students give a presentation in advance and take part in the discussions on the presentations of other					

students. Bonus points can be gained for the presentation and for the contributions to the discussions. For the seminar paper a maximum of 75 bonus points can be achieved, for the presentation and discussions in total a maximum of 25 bonus points can be achieved. The module grade results from a point scale ranging from 0 to 100 points. The bonus points are only credited if the seminar paper would have been passed without the bonus points.

Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points

Credit points are awarded after successfully passing the seminar. Participation in the introductory meeting and for the presentations is obligatory.

Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)

4,17 %

Lernmaterialien und Literaturangaben/ Learning material and relevant literature

Learning materials and literature will be announced during the introductory meeting and via Moodle.

Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)

Modulbeauftragte/r: Prof. Dr. Astrid Krenz

Lehrende: Prof. Dr. Astrid Krenz and assistants

Master Seminar on Data Science in Economics

Seminar on Data Science in Economics: Growth, Sustainability, and Transformation					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 156	5 CP	150 h	1.-3. Semester	irregularly	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Seminar			Seminar: 2 SWS	127,5 h	20
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
English					
Anmeldeverfahren/ Registration					
In order to get credit points for this course, 2 steps are required: 1. Application for a seminar place by email at the Chair by following the guidelines as outlined in the Course Syllabus which is provided in Moodle, and 2. Registration in FlexNow within the deadlines announced by the examination office. The deadlines for application and registration are announced during the introductory meeting and in the course syllabus which can be found in Moodle.					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc					
<ul style="list-style-type: none"> • Compulsory elective module 					
Economic Policy Consulting MSc.					
<ul style="list-style-type: none"> • International and Spatial Economics • Umweltmanagement, Ressourcen und Energie • Empirical Economics • Elective module 					
Management and Economics MSc.					
<ul style="list-style-type: none"> • Entrepreneurship, Innovation & Transformation • Data Science & Quantitative Analysis • Development Economics • Energy and Environmental Economics • Statistics & Econometrics • General Economics 					
Finance, Accounting, Auditing, Controlling, & Taxation MSc.					
<ul style="list-style-type: none"> • Elective module (max. 15 ECTS) 					
Sales Management MSc.					
<ul style="list-style-type: none"> • Elective module (max. 20 ECTS) 					
Lernziele/ Learning targets					
The seminar covers topics from the areas of growth economics, sustainability research and transformation research. Participants receive an overview of developments in this research field. Students will learn to analyse and discuss the relevant literature. The students acquire skills in academic writing and presentation techniques.					
Inhalt/ Contents					
The seminar deals with various current topics from the areas of growth economics, sustainability research and transformation research. We address among others the following questions: What is meant by growth? Why is growth important for the well-being of societies? Which debates exist about growth and degrowth? How is sustainability discussed and analysed in economics? What role does technological change play? How are the digital, ecological and socio-economic transformation related to each other? What role does the digital transformation play for economic growth and sustainability? In the seminar paper, the students show that they can review the relevant literature, analyse it and extract important results from it. The students demonstrate their skills in academic writing and motivate a topic in their seminar paper, explain the methods and arguments in the literature in a structured manner, and critically examine them. During the presentation, the students demonstrate that they can grasp complex theoretical models and empirical studies and present them in a compact manner.					
Lehrformen/ Teaching methods					
Introductory session and presentations (block event).					
Prüfungsformen/ Mode of assessment					
The final module examination consists of two parts: 1. a written seminar paper, 2. a presentation and taking part in the discussion of other students' presentations. Bonus points can be earned for the presentation and discussion contributions. A maximum of 75 points can be achieved in the seminar paper, and a maximum of 25 bonus points can be achieved through the oral presentation and discussion. The module grade is based on a point scale that ranges from 0 to					

100 points. The bonus points will only be credited if the seminar paper would have been passed without the bonus points.

Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points

Credit points are awarded if the final module examination has been successfully completed. Participation in the introductory event and for the presentations is mandatory.

Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)

4,17 %

Lernmaterialien und Literaturangaben/ Learning material and relevant literature

Materials and literature will be announced during the lecture and via Moodle.

Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)

Modulbeauftragte/r: Prof. Dr. Astrid Krenz

Lehrende: Prof. Dr. Astrid Krenz and assistants

Seminar on Data Science in Economics: Growth, Sustainability, and Transformation

Seminar on Data Science in Economics: Topics in Labor Economics					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 150	5 CP	150 h	3.-6. Semester	irregularly	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Seminar			Seminar: 2 SWS	127,5 h	20
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
English					
Anmeldeverfahren/ Registration					
In order to get credit points for this course, 2 steps are required: 1. Application for a seminar place by email at the Chair by following the guidelines as outlined in the Course Syllabus which is provided in Moodle, and 2. Registration in FlexNow within the deadlines announced by the examination office. The deadlines for application and registration are announced during the introductory meeting and in the course syllabus which can be found in Moodle.					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc					
<ul style="list-style-type: none"> • Compulsory elective 					
Economic Policy Consulting M.Sc.					
<ul style="list-style-type: none"> • International and Spatial Economics • Umweltmanagement, Ressourcen und Energy • Empirical Economics • Elective module 					
Management and Economics M.Sc.					
<ul style="list-style-type: none"> • Entrepreneurship, Innovation & Transformation • Data Science & Quantitative Analysis • Development Economics • Statistics & Econometrics • Energie- & Umweltökonomik • General Economics 					
Finance, Accounting, Auditing, Controlling & Taxation M.Sc.					
<ul style="list-style-type: none"> • Elective module (max. 15-20 ECTS) 					
Sales Management M.Sc.					
<ul style="list-style-type: none"> • Elective module (max. 20-25 ECTS) 					
Lernziele/ Learning targets					
The seminar covers topics in the field of labor economics, broadly defined. Participants receive an overview of developments in this research area. Students develop their skills in applying their knowledge of economics and empirical methods to understanding and explaining a published academic paper, as well as to analyzing and discussing the relevant literature. Students will have the opportunity to improve their academic writing and presentation skills.					
Inhalt/ Contents					
The seminar deals with various current topics from labor economics, with a particular focus on rigorous theory-grounded empirical methodology.					
We address, among others, the following questions: What can explain differences across individuals and firms in terms of various labor market outcomes (wages, hours of work, employment, unemployment, turnover, etc.)? Do labor market outcomes ensure the most efficient use of resources? Are labor market outcomes fair? Is there discrimination in the labor market? Do employers have labor market power? How does technological change affect the future of work? How does migration affect labor market outcomes? How do labor market policies affect incentives and labor market outcomes?					
How do labor market policies affect efficiency and fairness? How should labor market policies be rethought in light of technological, demographic, and societal change?					
The students are assigned a published paper in economics. In the seminar paper, the students show that they can (1) carefully read, understand, explain the methodology and results of their assigned paper and (2) evaluate them in light of the related literature.					
The students (1) demonstrate their skills in academic writing, (2) clearly and concisely explain the key points of their assigned paper, (3) develop and show a good understanding of the conceptual and methodological challenges as well as theoretical and empirical findings in the related literature, and (4) structure their arguments.					

Lehrformen/ Teaching methods

Introductory session and presentations (block event)

Prüfungsformen/ Mode of assessment

The final module examination consists of two parts: 1. a written seminar paper, 2. a presentation and taking part in the discussion of other students' presentations. Bonus points can be earned for the presentation and discussion contributions. A maximum of 75 points can be achieved in the seminar paper, and a maximum of 25 bonus points can be achieved through the oral presentation and discussion. The module grade is based on a point scale that ranges from 0 to 100. The bonus points will only be credited if the seminar paper would have been passed without the bonus points.

Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points

Credit points are awarded if the final module examination has been successfully completed. Participation in the introductory event and for the presentations is mandatory.

Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)

4,17 %

Lernmaterialien und Literaturangaben/ Learning material and relevant literature

Materials and literature will be announced during the lecture and via Moodle.

Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)

Modulbeauftragte/r: Prof. Dr. Astrid Krenz

Lehrende: Prof. Dr. Astrid Krenz and assistants

Seminar on Data Science in Economics: Topics in Labor Economics

Economics, Politics & African Societies					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
-	5 CP	150 h	1.-3. Semester	irregular	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Seminar			Seminar: 2 SWS	127,5 h	12
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
English			Module African Economic Development Knowledge in empirical economic research and/or econometrics is recommended		
Anmeldeverfahren/ Registration					
The registration is made via FlexNow within the period announced by the examination office.					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc.					
<ul style="list-style-type: none"> • Compulsory elective module 					
Economic Policy Consulting MSc.					
<ul style="list-style-type: none"> • International and Spatial Economics • Empirical Economics • Elective module 					
Management and Economics MSc.					
<ul style="list-style-type: none"> • Development Economics • Statistics & Econometrics • Theoretical & Applied Microeconomics • General Economics 					
Finance, Accounting, Auditing, Controlling, & Taxation MSc.					
<ul style="list-style-type: none"> • Elective module (max. 15-20 ECTS) 					
Sales Management MSc.					
<ul style="list-style-type: none"> • Elective module (max. 20-25 ECTS) 					
Lernziele/ Learning targets					
<p>The goal of this course is to provide students with a comprehensive understanding of the lenses through which economics and political science have tried to explain "African development". It will try to undo some of the learnings weaved through that lenses and identify ground for fertile new research ideas, which also prepares them for writing a master thesis.</p> <ul style="list-style-type: none"> • Students learn about the most recent empirical literature from economic and political science on developments in Africa. • Students are encouraged to critically assess existing research and develop new ideas. • Students get exposed to the econometric toolkit. • Students will learn how to synthesize research findings and how to relate them to the most recent literature by writing a seminar paper putting forward a proposal for future research. • Students practice to present and discuss ideas in front of an academic audience. 					
Inhalt/ Contents					
<p>The course provides and overview over the most recent literature on development in Sub-Saharan Africa. It contrasts the way economists study African societies to that of anthropologists, and offers a few self-reflections about the biases that researchers carry with themselves. Students are also introduced to state-of-the-art empirical methods used in this field. They will learn how to critically reflect on data and methods. Students will assess an identified relationship or new claim emerging from the recent literature and discussion The term paper consists of presenting a new research idea base on an identified and clearly documented gap in the literature. Prior to the submission of the term paper, the idea will be presented to the group in a short pitch-talk for feedback.</p>					
Lehrformen/ Teaching methods					
Seminar					
Prüfungsformen/ Mode of assessment					
Pitch talk of the research idea (5 minutes) and research proposal (10 pages).					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Credit points will be awarded after the successful completion of the pitch talk and research proposal.					

Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS) 4,17 %
Lernmaterialien und Literaturangaben/ Learning material and relevant literature Literature will be announced prior to the seminar via Moodle.
Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s) Modulbeauftragte/r: Prof. Dr. Renate Hartwig Lehrende: Prof. Dr. Renate Hartwig

Economics, Politics & African Societies

Political Economy of Social Protection					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 300	5 CP	150 h	1.-3. Semester	irregular	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Seminar			Lecture: 2 SWS Tutorial: 2 SWS	124 h	40
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
English			Knowledge in empirical economic research and/or econometrics is recommended		
Anmeldeverfahren/ Registration					
The registration is made via FlexNow within the period announced by the examination office.					
Verwendung des Moduls/ Module application					
Global Sustainability Economics M.Sc.					
<ul style="list-style-type: none"> • Compulsory elective 					
Economic Policy Consulting MSc.					
<ul style="list-style-type: none"> • International and Spatial Economics • Empirical Economics • Elective module 					
Management and Economics MSc.					
<ul style="list-style-type: none"> • Development Economics • Statistics & Econometrics • Theoretical & Applied Microeconomics • General Economics 					
Finance, Accounting, Auditing, Controlling, & Taxation MSc.					
<ul style="list-style-type: none"> • Elective module (max. 15-20 ECTS) 					
Sales Management MSc.					
<ul style="list-style-type: none"> • Elective module (max. 20-25 ECTS) 					
Lernziele/ Learning targets					
The goal of this course is to provide students with a comprehensive understanding of the political economy surrounding social protection policies. By the end of the course, students will be able to:					
<ul style="list-style-type: none"> • Describe the key concepts and ideas in the debate around social protection policies • Compare and contrast different social protection instruments • Understand the importance of institutions, bureaucracy and resulting or remaining inefficiencies • Discuss financing alternatives of social protection policies • Critically evaluate different approaches used for targeting social protection policies • Discuss and assess empirical research papers on the topic 					
Inhalt/ Contents					
This will give an overview of the political economy of social protection policies. Students will be introduced to the role of different actors and institutions relevant to shaping social protection policies. It discusses the latest research and methodological advances in the field. The course will cover: Origins of social protection policies; concepts, actors, instruments; the role of institutions and bureaucracy; political accountability; financing and taxation; targeting and recent advances; gender and social networks. The tutorial will deepen and extend the knowledge and skills acquired during the lecture. A particular focus will be on hands-on exercises applying the latest methodological techniques (incl. machine learning) for targeting and data analysis.					
Lehrformen/ Teaching methods					
Lecture and tutorial					
Prüfungsformen/ Mode of assessment					
Policy brief (10 pages)					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Credit points will be awarded after the successful submission of a policy brief.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)					
4,17 %					

Lernmaterialien und Literaturangaben/ Learning material and relevant literature

Literature will be announced prior to the seminar via Moodle.

Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)

Modulbeauftragte/r: Prof. Dr. Renate Hartwig

Lehrende: Prof. Dr. Renate Hartwig

Political Economy of Social Protection

Business cycle analysis and forecasting					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 013	10 CP	300 h	1.-3. Semester	Summer	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Lecture			Lecture: 2 SWS		100
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
English			Background in macroeconomics and econometrics.		
Anmeldeverfahren/ Registration					
see webpage					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc.					
<ul style="list-style-type: none"> • Compulsory elective 					
Economic Policy Consulting MSc.					
<ul style="list-style-type: none"> • Empirical Economics • Elective module 					
Management and Economics MSc.					
<ul style="list-style-type: none"> • Data Science & Quantitative Analysis • Statistics & Econometrics • General Economics 					
Finance, Accounting, Auditing, Controlling, & Taxation MSc.					
<ul style="list-style-type: none"> • Elective module (max. 15) 					
Sales Management MSc.					
<ul style="list-style-type: none"> • Elective module (max. 20 ECTS) 					
Lernziele/ Learning targets					
Analytical and logical thinking, critical reflection on the methods used.					
Inhalt/ Contents					
Business cycle forecasting is an important contribution to effective planning, e.g. in businesses and government agencies. For this reason, this course covers essential techniques for forecasting economic variables. Students will learn to identify important properties of the data that have to be included in the forecasting model. In addition, elementary forecasting techniques and econometric models will be introduced in this course. Students in this class will learn the skills to do business cycle forecasting, to estimate different econometric models, to compare forecasting models and to assess the forecasting performance of a model. Finally, we discuss approaches to modify and adjust model-based forecasts using expert knowledge.					
Lehrformen/ Teaching methods					
Lecture					
Prüfungsformen/ Mode of assessment					
Written exam					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Credit points are awarded when the final module examination has been successfully completed.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)					
8,3 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature					
Lecture slides will be provided, further reading recommendations will be given in the lecture.					
Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)					
Modulbeauftragte/r: Prof. Dr. Torsten Schmidt					
Lehrende: Prof. Dr. Torsten Schmidt					

Introduction to Empirical Macroeconomics					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 010	10 CP	300 h	1.-3. Semester	Winter	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Lecture			Lecture: 2 SWS		
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
English			Background in macroeconomics and econometrics.		
Anmeldeverfahren/ Registration					
see webpage					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc.					
<ul style="list-style-type: none"> • Compulsory elective 					
Economic Policy Consulting MSc.					
<ul style="list-style-type: none"> • Empirical Economics • Elective module 					
Management and Economics MSc.					
<ul style="list-style-type: none"> • Data Science & Quantitative Analysis • Statistics & Econometrics • General Economics 					
Finance, Accounting, Auditing, Controlling, & Taxation MSc.					
<ul style="list-style-type: none"> • Elective module (max. 15) 					
Sales Management MSc.					
<ul style="list-style-type: none"> • Elective module (max. 20 ECTS) 					
Lernziele/ Learning targets					
Analytical and logical thinking, critical reflection on the methods used.					
Inhalt/ Contents					
<p>Macroeconomics is about analyzing and forecasting economic developments at the national and international level. Related to this, it is often of great importance to quantify the effects of economic shocks and economic policy measures on macroeconomic variables, like GDP and employment. A crucial topic is therefore the identification and quantification of relationships between macroeconomic variables. The primary objective of this course is to provide an overview of methods suitable for this task. It is necessary to start with an introduction to the main macroeconomic models and the related data. However, the main focus is on the application of econometric methods.</p>					
Lehrformen/ Teaching methods					
Lecture					
Prüfungsformen/ Mode of assessment					
Written exam (90 min)					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Credit points are awarded when the final module examination has been successfully completed.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)					
8,3 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature					
All course materials will be provided in the respective Moodle course. The password for the course will be communicated in the first lecture.					
Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)					
Modulbeauftragte/r: Prof. Dr. Torsten Schmidt					
Lehrende: Prof. Dr. Torsten Schmidt					

Data Analysis Using R					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 028	10 CP	300 h	1.-3. Semester	Winter	Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Seminar			2 SWS	277,5 h	24
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
English			Basic knowledge of the statistical software R is assumed but not required. Course materials for an introduction to R are provided and can be studied on your own.		
Anmeldeverfahren/ Registration					
Via Moodle, for detailed information please see the chair's webpage .					
Verwendung des Moduls/ Module application					
Global Sustainability Economics M.Sc.					
<ul style="list-style-type: none"> • Compulsory elective 					
Economic Policy Consulting M.Sc.					
<ul style="list-style-type: none"> • Empirical Economics • Elective module 					
Management and Economics M.Sc.					
<ul style="list-style-type: none"> • Data Science & Quantitative Analysis • Statistics & Econometrics • Theoretical & Applied Microeconomics • General Economics 					
Finance, Accounting, Auditing, Controlling & Taxation M.Sc.					
<ul style="list-style-type: none"> • Elective module (max. 15-20 ECTS) 					
Sales Management M.Sc.					
<ul style="list-style-type: none"> • Elective module (max. 20-25 ECTS) 					
Lernziele/ Learning targets					
<p>The module aims to enable students to conduct their own empirical projects using the statistical software R. By the end of the module, the students will be equipped with the necessary skills to independently conduct and manage empirical projects outside of this course, such as a master thesis. Students will also learn how to use git repositories for version control and collaboration, preparing them for possible careers in data analytics after graduation. By presenting the results of the project to their fellow students, the students can further improve their skills in scientific presentation and time management.</p>					
Inhalt/ Contents					
<p>The module is divided into two parts. In the first half of the semester, students learn the basics and core components of data analysis with R in a lecture. The lecture covers the most important steps of data analysis projects: from importing and preparing raw data, explorative data analysis and visualization, formulating the empirical model to communicating the results. Practical examples will show how these steps can be implemented using a set of R packages known as the <i>tidyverse</i>. In addition, it will be shown how to generate reports in R using the open-source scientific and technical publishing system Quarto. A special focus of the lecture is to introduce students to collaboration via version-controlled remote repositories. For this purpose, students will be shown how to create and manage a repository using GitHub. In the second half of the semester, students will work independently in groups on their own data analysis project. Based on the content of the lecture, a GitHub repository will be created in group work, which the students will use to prepare a data set and perform an econometric analysis. At the end of the semester, the students will share the results of their work in a presentation created with Quarto.</p>					
Lehrformen/ Teaching methods					
Seminar					
Prüfungsformen/ Mode of assessment					
The final module examination consists of a presentation and the submitted code repository. Both, presentation and code, count equally towards the final grade.					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Credit points are awarded when the final module examination has been successfully completed.					

Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS) 8,3 %
Lernmaterialien und Literaturangaben/ Learning material and relevant literature <ul style="list-style-type: none">• Wickham/Grolemund (2017): R for Data Science. O'Reilly.• Wickham (2019): Advanced R. 2nd Edition. Chapman and Hall/CRC. Further literature announced in the course.
Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s) Modulbeauftragte/r: Prof. Dr. Thomas Bauer Lehrende: Prof. Dr. Thomas Bauer and research assistants

Econometric Evaluation of Economic Policies					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 012	5 CP	150 h	1.-3. Semester	Summer	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Lecture / Seminar			Lecture / Seminar: 2 SWS	127,5 h	30
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
English			Advanced knowledge of empirical research and/or econometrics is recommended.		
Anmeldeverfahren/ Registration see webpage					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc.					
<ul style="list-style-type: none"> • Compulsory elective 					
Economic Policy Consulting MSc.					
<ul style="list-style-type: none"> • Empirical Economics • Elective module 					
Management and Economics MSc.					
<ul style="list-style-type: none"> • Data Science & Quantitative Analysis • Statistics & Econometrics • Theoretical & Applied Microeconomics • General Economics 					
Finance, Accounting, Auditing, Controlling, & Taxation MSc.					
<ul style="list-style-type: none"> • Elective module (max. 15) 					
Sales Management MSc.					
<ul style="list-style-type: none"> • Elective module (max. 20 ECTS) 					
Lernziele/ Learning targets					
After participation, the students should be able to understand the newest econometric techniques developed for the evaluation of economic policies. They should understand their basic identification strategy, the necessary data to implement these strategies as well as the main problems of these strategies. The module aims to give the students the necessary skills to read and understand the scientific literature in this area and to give a critical assessment of empirical evaluation studies.					
Inhalt/ Contents					
Tight public budgets increase the need to learn more about the effectiveness and efficiency of public policy measures. The empirical evaluation of these policies, however, is connected with difficult methodological problems. This module discusses the newest developments in the literature on the empirical evaluation of economic policy measures. A lecture introduces the basic concepts. Central contributions to the literature will be presented by the students themselves and discussed by the participants in a detailed way.					
Lehrformen/ Teaching methods					
Lecture, Seminar					
Prüfungsformen/ Mode of assessment					
The final module examination consists of a presentation or a written exam. The final grade corresponds to the grade of the presentation or the written exam.					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Credit points are awarded when the final module examination has been successfully completed.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)					
4,17 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature					
List of literature (journal articles) will be provided in the course.					

Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)

Modulbeauftragte/r: Prof. Dr. Thomas Bauer / Prof. Dr. Schmidt

Lehrende: Prof. Dr. Thomas Bauer / Prof. Dr. Schmidt and teaching assistants

Econometric Evaluation of Economic Policies

Economics of Education					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 003	5 CP	150 h	1.-3. Semester	Summer	Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Blocked Seminar			Blocked Seminar: 2 SWS	63,75 h	27
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
English			none		
Anmeldeverfahren/ Registration					
Via Moodle, for detailed information please see the chair's webpage .					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc.					
<ul style="list-style-type: none"> • Compulsory elective 					
Economic Policy Consulting M.Sc.					
<ul style="list-style-type: none"> • Empirical Economics • Elective module 					
Management and Economics M.Sc.					
<ul style="list-style-type: none"> • Theoretical & Applied Microeconomics • General Economics 					
Finance, Accounting, Auditing, Controlling & Taxation M.Sc.					
<ul style="list-style-type: none"> • Elective module (max. 15-20 ECTS) 					
Sales Management M.Sc.					
<ul style="list-style-type: none"> • Elective module (max. 20-25 ECTS) 					
Lernziele/ Learning targets					
After completing the seminar, students should be able to critically assess the economics of education across different schooling levels. They will gain an understanding of the economic theories that explain educational outcomes and the returns to education. Students should also be familiar with the main identification strategies and data sources used to evaluate educational policies and their economic impacts. The seminar will equip students with the necessary tools to analyze and interpret empirical research in the field.					
Inhalt/ Contents					
The economics of education is crucial for understanding how education affects individual and societal outcomes, such as income, inequality, and social mobility. This seminar introduces students to the key economic theories and empirical methods used to analyze education systems, focusing on different schooling levels from early education to higher education. Topics include the economic returns to education, the role of education in shaping economic outcomes, and the evaluation of educational policies. Students will deepen their knowledge through the analysis and replication of key studies in the field, using real-world data and econometric techniques.					
Lehrformen/ Teaching methods					
Blocked Seminar					
Prüfungsformen/ Mode of assessment					
Oral presentation of one scientific study (30 min) and submission of term paper (10 pages).					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Credit points will be awarded after the successful completion of the presentation and the term paper.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)					
4,17 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature					
Will be provided in the introductory lecture.					
Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)					
Modulbeauftragte/r: Prof. Dr. Thomas Bauer					
Lehrende: Friederike Hertweck PhD (RWI – Leibniz Institute for Economic Research) plus PhD students					

Economics of Migration					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 014	5 CP	150 h	1.-3. Semester	irregular	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Seminar			Seminar: 2 SWS	127,5 h	25
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
English			Advanced knowledge of empirical research and/or econometrics is recommended.		
Anmeldeverfahren/ Registration					
see webpage					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc.					
<ul style="list-style-type: none"> • Compulsory elective module 					
Economic Policy Consulting MSc.					
<ul style="list-style-type: none"> • Elective module 					
Management and Economics MSc.					
<ul style="list-style-type: none"> • Statistics & Econometrics • Theoretical & Applied Microeconomics • General Economics 					
Finance, Accounting, Auditing, Controlling, & Taxation MSc.					
<ul style="list-style-type: none"> • Elective module (max. 15) 					
Sales Management MSc.					
<ul style="list-style-type: none"> • Elective module (max. 20 ECTS) 					
Lernziele/ Learning targets					
After participation, the students should be able to understand the most important theoretical models in the economics of migration as well as the empirical evidence concerning issues in this area. The module aims to give the students the necessary skills to read and understand the scientific literature in this area and to give a critical assessment of empirical studies and policy measures.					
Inhalt/ Contents					
Whether immigration can solve the problems connected to the demographic change, the problem of the economic and social integration of immigrants or whether the EU-enlargement will lead to dramatic East-West migration flows are very important topics on the political agenda in almost all developed countries and source of heated public debates. This module aims to introduce the participants to the economics of migration. In a basic lecture, the participants are introduced to the basic theoretical and empirical concepts of the three main topics of the economics of migration: (i) the migration decision; (ii) the economic and social integration of migrants; and (iii) the economic effects of migration on natives. The students will then be assigned to present major publications on the economics of migration in order to deepen the knowledge obtained through the lecture.					
Lehrformen/ Teaching methods					
Blockseminar					
Prüfungsformen/ Mode of assessment					
The final module examination consists of a presentation or a written exam. The final grade corresponds to the grade of the presentation or the written exam.					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Credit points are awarded when the final module examination has been successfully completed.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)					
4,17 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature					
List of literature (journal articles) will be provided in the course.					
Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)					
Modulbeauftragte/r: Prof. Dr. Thomas Bauer					
Lehrende: Prof. Dr. Thomas Bauer and teaching assistants					

Empirical Economics: Selected Problems					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 010	5 CP	150 h	1.-3. Semester	every semester	Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Lecture			Lecture: 2 SWS	127,5 h	
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
English			Passing three of the five courses: „Angewandte Statistik am Beispiel der Unstatistik“, „Introductory Econometrics“, „Statistik I“, „Statistik II“, „Statistik III“.		
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc.					
<ul style="list-style-type: none"> • Compulsory elective 					
Economic Policy Consulting MSc.					
<ul style="list-style-type: none"> • Empirical Economics • Entrepreneurship, Innovation und Transformation • Elective module 					
Management and Economics MSc.					
<ul style="list-style-type: none"> • Data Science & Quantitative Analysis • Statistics & Econometrics • Theoretical & Applied Microeconomics • General Economics 					
Finance, Accounting, Auditing, Controlling, & Taxation MSc.					
<ul style="list-style-type: none"> • Elective module (max. 15) 					
Sales Management MSc.					
<ul style="list-style-type: none"> • Elective module (max. 20 ECTS) 					
Lernziele/ Learning targets					
The aim of the course is for the students to get accustomed to contemporary issues in their field and to interpret the corresponding findings. Theoretical considerations will be accompanied by empirical results. This should enable them to make well-grounded statements concerning the field of study covered in the lecture.					
Inhalt/ Contents					
This module deals with the advanced analysis of specific topics in the field of empirical economics (e.g., labor economics, health economics, or education economics). In the lecture, the participants of the course are introduced to the theoretical and empirical concepts of the respective topic in order to get a comprehensive understanding of the current state of research in their field.					
Lehrformen/ Teaching methods					
Lecture					
Prüfungsformen/ Mode of assessment					
The final module examination consists of a written exam. The final grade corresponds to the grade of the written exam.					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Credit points are awarded when the final module examination has been successfully completed.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)					
4,17 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature					
List of literature (journal articles) will be provided in the course.					
Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)					
Modulbeauftragte/r: Prof. Dr. Thomas Bauer					
Lehrende: Prof. Dr. Thomas Bauer and postdoctoral candidates from the RWI					

Labor Economics					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 005	5 CP	150 h	1.-3. Semester	Summer	1 Semester
Lehrveranstaltungen/ Courses a) Lecture b) Tutorial			Kontaktzeit/ Contact time Lecture: 2 SWS Tutorial: 2 SWS	Selbststudium/ Self-study 115 h	Gruppengröße/ Group size
Unterrichtssprache/ Language English			Teilnahmevoraussetzungen/ Requirements		
Verwendung des Moduls/ Module application Global Sustainability Economics MSc. <ul style="list-style-type: none"> • Compulsory elective module Economic Policy Consulting MSc. <ul style="list-style-type: none"> • Empirical Economics Management and Economics MSc. <ul style="list-style-type: none"> • Statistics & Econometrics • Theoretical & Applied Microeconomics • General Economics Finance, Accounting, Auditing, Controlling, & Taxation MSc. <ul style="list-style-type: none"> • Elective module (max. 15) Sales Management MSc. <ul style="list-style-type: none"> • Elective module (max. 20 ECTS) 					
Lernziele/ Learning targets The aim of this module is to develop an understanding of the distinctive features of labor markets and the ways in which they operate. Among other things, we will analyze labor supply, labor demand, human capital, and the role of different labor market institutions and labor market policies for wages and employment. The students learn to interpret the implications and consequences of different labor market policies. Throughout the module, we attempt to integrate theoretical issues and empirical evidence in order to apply the theoretical models to real world problems. Also, questions of policy concentrating on European issues will be addressed.					
Inhalt/ Contents The labor market affects the daily lives and the welfare of every individual directly. Hence, the analysis of labor markets is of importance and interest not only to economists but to the population at large. Labor economics is a very challenging and a stimulating area in economics due to the special characteristics of the labor market. For example, different to capital workers are not commodities with fixed characteristics and make decisions about the nature of their participation in the labor market. Institutions affect the labor market much more than any other market. The aim of this module is to give an understanding of the distinctive features of labor markets and the ways in which they operate. Among other things, we will analyze labor supply, labor demand, human capital, and the role of different labor market institutions and labor market policies for wages and employment. Throughout the module, we attempt to integrate theoretical issues and empirical evidence, and to address questions of policy. The latter will concentrate on European issues.					
Lehrformen/ Teaching methods Lecture, Tutorial					
Prüfungsformen/ Mode of assessment The final grade of the module is determined by the grade of the final examination. An additional academic achievement can be obtained in the form of a presentation of a research paper as part of the exercise. Up to 5 bonus points can be earned, which are then credited towards the points achieved in the final exam. The bonus points will also be credited if the final exam would not have been passed without the bonus points.					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points Credit points are awarded when the final module examination has been successfully completed.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS) 4,17 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature Cahuc/Zylberberg (2004), Labor Economics. Cambridge: The MIT Press. Further current sources and materials will be announced at the beginning of each semester.					

Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)

Modulbeauftragte/r: Prof. Dr. Thomas Bauer

Lehrende: Prof. Dr. Thomas Bauer and teaching assistants

Labor Economics

Advanced Energy Economics, Policy and Technology					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 126	5 CP	150 h	1.-3. Semester	Winter	Semester
Lehrveranstaltungen/ Courses Lectures and coursework			Kontaktzeit/ Contact time Lecture: 3 SWS	Selbststudium/ Self-study	Gruppengröße/ Group size 36
Unterrichtssprache/ Language English			Teilnahmevoraussetzungen/ Requirements Calculation of fixed and variable costs for different processes is an important part of the course and requires adequate mathematical ability. As an indication students should have at least a 2,7 grade in micro-economics and/or mathematical subjects in their bachelor studies.		
Anmeldeverfahren/ Registration Participation is limited to 36 students. Students can register on the moodle. In the event of excess numbers, priority will be given to students with higher grades in relevant subjects.					
Verwendung des Moduls/ Module application Global Sustainability Economics MSc. <ul style="list-style-type: none"> • Compulsory elective module Economic Policy Consulting MSc. <ul style="list-style-type: none"> • Umweltmanagement, Ressourcen und Energie Management and Economics MSc. <ul style="list-style-type: none"> • Energy and Environmental Economics • General Economics Finance, Accounting, Auditing, Controlling, & Taxation MSc. <ul style="list-style-type: none"> • Elective module (max. 15) Sales Management MSc. <ul style="list-style-type: none"> • Elective module (max. 20 ECTS) 					
Lernziele/ Learning targets Understanding all factors (economic and policy) which determine what drives the energy industry – demand by sector, fuel mix, price trends and environmental emissions. How short-term operational and long-term investment decisions are made.					
Inhalt/ Contents This course aims to explain the practical aspects of energy economics based on my practical experience from the oil industry (ExxonMobil), in energy consultancy (covering all forms of energy across Europe), as Chief Economist of Germany's largest power generator - RWE AG , and as senior advisor to the Energy Transitions Commission . It focusses on how decisions driven by economics and policy and enabled by technology developments determine energy demand, the fuel mix, energy prices and greenhouse gas emissions. Important features are: <ul style="list-style-type: none"> • The interaction between economics, policy, and technology • Calculation of fixed and variable costs for energy plants and with taxes how prices are determined in wholesale and retail markets • How and where competition takes place along the supply chain (e.g. tendering for new plants, wholesale markets, energy exchanges and at the retail level). The course covers the essential properties of different forms of energy with emphasis on renewables, electrification, and hydrogen. It is intended to inform students about the economic reality of the energy transition and as a step towards a career in the energy industry, or in energy/environmental administration. The lectures are as follows: <ol style="list-style-type: none"> 1. Introduction to course and basics of energy: 2. Impact of the war and turning economics on its head 3. Rudiments of energy technology inc. fossil fuel production 4. How to move the world to zero-carbon energy – regulations, incentives, societal pressures, and corporate responsibility 5. Decision-taking – short-run and long-run costs to build plants. Life-cycle costs and emissions. Includes discount rates, NPV. 6. Energy prices and markets along chain and role of taxation / includes OPEC and transport costs 7. Energy efficiency and reducing demand 8. Carbon pricing and emissions trading. 					

9. Fossil fuel production and pricing *
10. Renewable technology, costs, integration, and support schemes
11. Power markets and renewables / firm capacity remuneration (inc. impact of carbon pricing) *
12. Hydrogen technology and costs
13. Energy storage and costs; Batteries, gas, oil, pumped storage, H2 tanks along supply chain.
14. Completing the task: Decarbonising three end-use sectors *

* Double-length lectures

Lehrformen/ Teaching methods

Lectures and coursework

Prüfungsformen/ Mode of assessment

A single grade is awarded based mainly on the exam but with bonus points for the coursework.

Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points

Completion of the coursework and the exam.

Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)

4,17 %

Lernmaterialien und Literaturangaben/ Learning material and relevant literature

No textbooks are required but students will be directed to relevant publications from the European Commission and other sources.

Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)

Modulbeauftragte/r: Prof. Graham Weale

Lehrende: Prof. Graham Weale

Seminar in Advanced Energy Economics, Policy and Technology					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 125	5 CP	150 h	1.-3. Semester	Summer	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Seminar			Seminar: 2 SWS		
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
English			Knowledge from the lecture "Advanced Environmental, Energy and Resource Economics" is beneficial.		
Anmeldeverfahren/ Registration					
see webpage					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc.					
<ul style="list-style-type: none"> • Compulsory elective module 					
Economic Policy Consulting MSc.					
<ul style="list-style-type: none"> • Umweltmanagement, Ressourcen und Energie • Elective module 					
Management and Economics MSc.					
<ul style="list-style-type: none"> • Energy and Environmental Economics • General Economics 					
Finance, Accounting, Auditing, Controlling, & Taxation MSc.					
<ul style="list-style-type: none"> • Elective module (max. 15-20 ECTS) 					
Sales Management MSc.					
<ul style="list-style-type: none"> • Elective module (max. 20-25 ECTS) 					
Lernziele/ Learning targets					
To demonstrate competence in analysing a practical issue in modern energy economics, undertaking a literature search and providing interesting insights and well-reasoned conclusions.					
Inhalt/ Contents					
Examples: (i) carbon taxes – price and quantitative approach, role of subsidies in energy policy; (ii) Decarbonising – roles of energy efficiency and low-carbon energy; (iii) Electric cars – economics, incentives, CO2 footprint; (iv) Retail electricity market – price formation, competition and impact on demand; (v) Necessary conditions for a hydrogen market to develop; (vi) Renewables – factors explaining build-out rates in different countries, past and future					
Lehrformen/ Teaching methods					
Lectures and coursework					
Prüfungsformen/ Mode of assessment					
Term paper (20-25 pages) with presentation (45 Min)					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Lectures and four items of homework as requirement to register for the exam.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)					
4,17 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature					
Will be supplied in course.					
Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)					
Modulbeauftragte/r: Prof. Graham Weale					
Lehrende: Prof. Graham Weale					

Empirical Environmental, Resource and Energy Economics					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 015	5 CP	150 h	1.-3. Semester	irregular	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Seminar			Seminar: 2 SWS	116,25 h	
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
English			Knowledge in empirical economic research and/or econometrics is recommended.		
Anmeldeverfahren/ Registration					
See http://www.wiwi.ruhr-uni-bochum.de/energy/index.html					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc					
<ul style="list-style-type: none"> • Compulsory elective module 					
Economic Policy Consulting MSc.					
<ul style="list-style-type: none"> • Empirical Economics • Umweltmanagement, Ressourcen und Energie • Elective module 					
Management and Economics MSc.					
<ul style="list-style-type: none"> • Statistics & Econometrics • Energy and Environmental Economics • General Economics 					
Finance, Accounting, Auditing, Controlling, & Taxation MSc.					
<ul style="list-style-type: none"> • Elective module (max. 15) 					
Sales Management MSc.					
<ul style="list-style-type: none"> • Elective module (max. 20 ECTS) 					
Lernziele/ Learning targets					
Students enhance their ability to understand and assess scientific literature. They also strengthen their knowledge of econometric methods by examining the methodology employed by relevant peer-reviewed papers. During the seminar, students get to know current issues in environmental, resource and energy economics, learn to write a seminar paper and improve their presentation skills.					
Inhalt/ Contents					
The aim of this seminar is to prepare students to critically assess topics in environmental, energy, and resource economics from an empirical perspective. Seminar participants are expected to make a presentation and write a term paper on a topic agreed upon with the instructor. Both the presentation and the paper should draw on publications from the peer-reviewed literature. Beyond summarizing and assessing the literature, empirical methods should be examined and critiqued, with an eye toward identifying where knowledge gaps exist, as well as topics for future research.					
Lehrformen/ Teaching methods					
Seminar					
Prüfungsformen/ Mode of assessment					
Term paper (10 pages) with presentation (15 min)					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Credit points are awarded after the successful completion of the seminar paper and the presentation.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)					
4,17 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature					
Relevant literature, such as peer-reviewed journal articles, will be announced before the beginning of the seminar.					
Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)					
Modulbeauftragte/r: Prof. Dr. Manuel Frondel					
Lehrende: Prof. Dr. Manuel Frondel and postgraduates of RWI					

Market and Non-Market Valuation of Environmental Goods					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 016	5 CP	150 h	1.-3. Semester	irregular	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Seminar			Seminar: 2 SWS	116,25 h	20
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
English			Knowledge in empirical economic research and/or econometrics is recommended.		
Anmeldeverfahren/ Registration					
See https://www2.wiwi.rub.de/lehrestuehle/energieoekonomik-und-angewandte-oekonometrie/					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc.					
<ul style="list-style-type: none"> • Compulsory elective module 					
Economic Policy Consulting MSc.					
<ul style="list-style-type: none"> • Empirical Economics • Umweltmanagement, Ressourcen und Energie • Elective module 					
Management and Economics MSc.					
<ul style="list-style-type: none"> • Statistics & Econometrics • Energy and Environmental Economics • General Economics 					
Finance, Accounting, Auditing, Controlling, & Taxation MSc.					
<ul style="list-style-type: none"> • Elective module (max. 15) 					
Sales Management MSc.					
<ul style="list-style-type: none"> • Elective module (max. 20 ECTS) 					
Lernziele/ Learning targets					
Students acquire knowledge on empirical methods to estimate the value of environmental goods and amenities. Furthermore, they improve their ability to understand and assess scientific literature, learn to write a seminar paper and to present their work.					
Inhalt/ Contents					
The valuation of environmental goods and amenities is often complicated by the lack of market prices. This seminar will deal with empirical methods to estimate the value of environmental goods and amenities. Methods to be covered include both market and non-market valuation methods, such as hedonic pricing, contingent-valuation and revealed-preference methods to elicit willingness-to-pay and willingness-to-accept.					
Lehrformen/ Teaching methods					
Seminar					
Prüfungsformen/ Mode of assessment					
Term paper (10 pages) with presentation (15 min)					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Credit points are awarded after the successful completion of the seminar paper and the presentation.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)					
4,17 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature					
Relevant literature, such as peer-reviewed journal articles, will be announced before the beginning of the seminar.					
Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)					
Modulbeauftragte/r: Prof. Dr. Manuel Frondel Lehrende: Prof. Dr. Manuel Frondel and postgraduates of RWI					

Economics of Absolute Poverty					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 267	5 CP	150 h	1.-3. Semester	Winter	1 Semester
Lehrveranstaltungen/ Courses a) Lecture b) Tutorial			Kontaktzeit/ Contact time Lecture: 2 SWS	Selbststudium/ Self-study 94 h	Gruppengröße/ Group size
Unterrichtssprache/ Language English			Teilnahmevoraussetzungen/ Requirements Having been exposed to the Solow-Swan mode of economic growth at bachelor's level. Due to its focus on low- and middle-income economies, the module relates to Growth and Development Economics as well as to the Economics of Inequality. All three modules do not build on each other but focus on different aspects of sustainable economic development.		
Anmeldeverfahren/ Registration he (voluntary) course registration takes place via the e-learning platform Moodle of the Ruhr-University, the (compulsory) registration for the final exam takes place via FlexNow within the deadlines announced by the examination office (Prüfungsamt).					
Verwendung des Moduls/ Module application Global Sustainability Economics MSc. <ul style="list-style-type: none"> • Compulsory elective Economic Policy Consulting MSc. <ul style="list-style-type: none"> • International and Spatial Economics • Elective module Management and Economics MSc. <ul style="list-style-type: none"> • Development Economics • General Economics Finance, Accounting, Auditing, Controlling, & Taxation MSc. <ul style="list-style-type: none"> • Elective module (max. 15-20 ECTS) Sales Management MSc. <ul style="list-style-type: none"> • Elective module (max. 20-25 ECTS) 					
Lernziele/ Learning targets Upon completion of the module, participants understand that the conditions of consumption and production under which the absolute poor operate are not gradually but fundamentally different from those the poverty-free parts of the population are exposed to. Against these insights, <ul style="list-style-type: none"> • they can analyse different macroeconomic conceptualisations of the growth-to-(absolute) poverty nexus and evaluate related empirical evidence as well as implied recommendations, • they can rationalise seemingly irrational economic behaviour of absolute poor households, self-employed workers and own-account household enterprises, • and they can analyse and evaluate econometric papers on the effectiveness of governmental interventions in reducing absolute poverty. 					
Inhalt/ Contents Introduction: Historical narratives from Europe, differentiating between absolute poverty and inequality, international poverty lines, global incidence of absolute poverty, challenges of integrating absolute poverty into economic models. 1) The macroeconomics of absolute poverty: The growth-to-poverty nexus based on one-sector models (growth brings about a rise in productivity and income for all, including the poor) and on multiple-sector models (growth results from structural transformation that leaves the poor behind). Empirical evidence, puzzles and open questions. 2) The microeconomics of absolute poverty: Subsistence farming and deforestation. Giffen behaviour and food insecurity. Why parents send their kids to work and not to school. How effective are labour market interventions, social protection schemes, or cash transfers in reducing absolute poverty?					
Lehrformen/ Teaching methods Interactive lecture					
Prüfungsformen/ Mode of assessment The module grade results from the written module examination (90 minutes).					

Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points

Credit points are awarded after successful completion of the module examination.

Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)

4,17 %

Lernmaterialien und Literaturangaben/ Learning material and relevant literature

Lecture slides will be made available on moodle. Relevant literature will be announced in the lecture.

Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)

Modulbeauftragte/r: Prof. Dr. Wilhelm Löwenstein

Lehrende: Prof. Dr. Wilhelm Löwenstein and assistants

Economics of Absolute Poverty

Economics of Natural Resources					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 270	5 CP	150 h	1.-3. Semester	summer	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Lecture			Lecture: 1 SWS	138,75	30
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
English			Good knowledge of microeconomics and mathematics (Analysis).		
Anmeldeverfahren/ Registration					
The (voluntary) course registration takes place via the learning platform Moodle of the Ruhr-Universität, the registration for the examination via FlexNow within the deadlines announced by the examination office.					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc.					
<ul style="list-style-type: none"> • Compulsory elective 					
Economic Policy Consulting MSc.					
<ul style="list-style-type: none"> • Empirical Economics • International and Spatial Economics • Umweltmanagement, Ressourcen und Energie • Elective module 					
Management and Economics MSc.					
<ul style="list-style-type: none"> • Development Economics • Theoretical & Applied Microeconomics • Energy and Environmental Economics • General Economics 					
Finance, Accounting, Auditing, Controlling, & Taxation MSc.					
<ul style="list-style-type: none"> • Elective module (max. 15-20 ECTS) 					
Sales Management MSc.					
<ul style="list-style-type: none"> • Elective module (max. 20-25 ECTS) 					
Lernziele/ Learning targets					
The lecture enables students the understanding of dynamic optimization and basic applications of the calculus of variations and optimal control theory in economic modeling.					
Inhalt/ Contents					
The lecture delves into the underlying principles of the economics of the natural resources. After gaining an overview of the taxonomy of the natural resources, the students will be made familiar with the basics of the optimal control theory. The lecture contemplates both normative and positive economics of the nonrenewable natural resources such as fossil fuels and non-fuel minerals and renewable natural resources such as fisheries and renewable energy sources. To illustrate the relevance of the individual lecture blocks for the planning and management in the context of the sustainable resource management and environmental policies, each lecture ends with a discussion of a pertinent case study. Content: Introduction -					
<ul style="list-style-type: none"> • Taxonomy of natural resources • Nonrenewable resources und intergenerational justice • A Brief Introduction into the Optimal Control Theory 					
Pricing of Nonrenewable Natural Resources -					
<ul style="list-style-type: none"> • The Concept of differential rent • Gray's r-Percentage-Rule • Hotelling's Rule 					
The Structure of the Resource Markets -					
<ul style="list-style-type: none"> • Competitive and monopolistic markets • Oligopoly • Economic behavior of a cartel 					
Production with Nonrenewable Natural Resources -					
<ul style="list-style-type: none"> • Efficient Resource Extraction • Optimal resource extraction 					
Utilitarian social welfare function -					
<ul style="list-style-type: none"> • Rawls criterion 					

- Shift to a Backstop Technology

Theory

- Case studies (Conventional oil vs shale oil)
- Nonrenewable Resources and Recycling
 - Recycling in the theory of natural resources
 - Environmental aspects of recycling
 - Renewable Natural Resources
 - Gordon-Schaefer Modell
 - Beverton-Holt-Modell

Resource Revenue Management -

- Natural resources and economic growth
- Hartwick's rule
- Lewis' dual economy model with extractive sector
- The role of institutional quality and EITI

Sovereign stabilization funds and their macroeconomic impact

Lehrformen/ Teaching methods

Lecture

Prüfungsformen/ Mode of assessment

The final module grade results from the grade of the final written seminar paper.

Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points

Credit points are awarded after successful completion of the final module examination.

Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)

4,17 %

Lernmaterialien und Literaturangaben/ Learning material and relevant literature

Essential readings will be announced in the first session of the course.

Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)

Modulbeauftragte/r: Prof. Dr. Helmut Karl

Lehrende: Dr. Elkhani Richard Sadik-Zada

Economics of Terrorism and Counterterrorism					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 072	5 CP		1.-3. Semester	Summer	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Lecture			Lecture: 2 SWS	127,5 h	100
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
English			Good command of English		
Anmeldeverfahren/ Registration					
The (voluntary) registration is done through the e-learning platform moodle. The registration for the exam takes place through FlexNow within the deadlines as published by the Examination Office.					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc.					
<ul style="list-style-type: none"> • Compulsory elective module 					
Economic Policy Consulting MSc.					
<ul style="list-style-type: none"> • Empirical Economics • International and Spatial Economics • Umweltmanagement, Ressourcen und Energie • Elective module 					
Management and Economics MSc.					
<ul style="list-style-type: none"> • International Finance • Data Science & Quantitative Analysis • Development Economics • Theoretical & Applied Microeconomics • General Economics 					
Finance, Accounting, Auditing, Controlling, & Taxation MSc.					
<ul style="list-style-type: none"> • Elective module (max. 15) 					
Sales Management MSc.					
<ul style="list-style-type: none"> • Elective module (max. 20 ECTS) 					
Inhalt/ Contents					
<p>The module focuses on the applications of game theory to the analysis of the transnational terrorism and counterterrorism. To this end, in the introductory part, the lecture delves into the notions related to homeland security, forms of terrorism, changing nature of terrorism, organizational forms of modern terrorism, and categories of counterterrorism policies. To address the economic and political ramifications of terrorism and counterterrorism the students are introduced to the state of the art of the empirical literature on terrorism. In the subsequent lectures, the students are made familiar with the game theoretic approaches and their applications to the analysis of terrorism. Further, the lecture dwells on the liberal democracies' vulnerabilities and resilience to terrorism and the consequences of terrorism incidents for the effectiveness of international development aid.</p>					
Prüfungsformen/ Mode of assessment					
The module grade is determined by the grade of the written exam.					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Credit points are awarded after successful completion of the exam.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)					
4,17 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature					
<ul style="list-style-type: none"> • Enders, W., Sandler, T. (2012). The Political Economy of Terrorism. Cambridge: Cambridge University Press. • Duffield, M. (2005). Global Governance and the New Wars. The Merging Development and Security. London & New York: Zed Books. • Fisher, J., Anderson, D.M. (2015). Authoritarianism and the securitization of development in Africa. International Affairs 91(1), 131-151. • Fleck, R.K., & Kilby, C. (2010). Changing aid regimes? U.S. foreign aid from the Cold War to the War on Terror. Journal of Development Economics, 91(2), 185-197. 					

- Gaibulloev, Kh. (2019). What we have learned about terrorism since 9/11. *Journal of Economic Literature* 57(2), 275-328.
- Sandler, T. (2014). Terrorism and counterterrorism: an overview. *Oxford Economic Papers* 67(1), 1-20.
- Schneider, F., Brück, T., Meierriecks, D. (2011). The Economics of Terrorism and Counter-Terrorism: A Survey (PartII). *Economics of Security Working Paper No. 45*. Available from: https://www.econstor.eu/bitstream/10419/119374/1/diw_econsec0045.pdf
- Selten, R. 1976. A simple model of kidnapping. *Working Paper of the Institute of Mathematical Economics* 45. Available from <https://pub.uni-bielefeld.de/publication/2909646>
- Rezazadeh, A., Talarico, L., Reniers, G. (2019). Applying game theory for securing oil and gas pipelines against terrorism. *Reliability Engineering and System Safety* 191, 1-14.

Further readings will be provided in Moodle.

Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)

Modulbeauftragte/r: Prof. Dr. Wilhelm Löwenstein

Lehrende: Dr. Sadik-Zada

Sonstige Informationen/ Further information

summer semester 2026: to be confirmed

Growth and Development Economics					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 022	5 CP	150 h	1.-3. Semester	Summer	1 Semester
Lehrveranstaltungen/ Courses a) Lecture b) Tutorial			Kontaktzeit/ Contact time Lecture: 2 SWS Tutorial: 2 SWS	Selbststudium/ Self-study 94 h	Gruppengröße/ Group size
Unterrichtssprache/ Language English			Teilnahmevoraussetzungen/ Requirements Good knowledge of macroeconomics. Due to its focus on low- and middle-income economies, the module relates to the Economics of Absolute Poverty as well as to the Economics of Inequality. All three modules do not build on each other but focus on different aspects of sustainable economic development.		
Anmeldeverfahren/ Registration The (voluntary) registration is done through the e-learning platform moodle. The registration for the exam takes place through FlexNow within the deadlines as published by the Examination Office.					
Verwendung des Moduls/ Module application Global Sustainability Economics MSc. <ul style="list-style-type: none"> • Compulsory elective module Economic Policy Consulting MSc. <ul style="list-style-type: none"> • International and Spatial Economics • Elective module Management and Economics MSc. <ul style="list-style-type: none"> • Development Economics • General Economics Finance, Accounting, Auditing, Controlling, & Taxation MSc. <ul style="list-style-type: none"> • Elective module (max. 15-20 ECTS) Sales Management MSc. <ul style="list-style-type: none"> • Elective module (max. 20-25 ECTS) 					
Lernziele/ Learning targets Upon completion of this module, participants can explain and critically assess diverse growth theories and their relevance for developing economies. They understand how crucial assumptions are shaping the propositions that flow from different growth models and how they are predetermining the sets of variables used in growth regressions. Participants can evaluate econometric approaches and related empirical evidence and discuss the theories' contributions to describe growth patterns for different country samples and time periods.					
Inhalt/ Contents Introduction 1) Post-Keynesian growth theory: Historical background, Keynesian roots, the Harrod-Domar model for closed economies, growth patterns. The Two-Gap model for open developing economies. Empirical evidence. 2) Introduction to neoclassical growth theory: Solow's critique of the HD-model, the Solow-Swan model for closed economies. Transitional and steady-state growth, exogenous technical progress, growth and functional distribution of income. Human capital and growth. Empirical evidence. Brief notes on endogenous growth: AK model and Romer model. 3) Extensions and puzzles of neoclassical growth theories: Global income disparities, convergence, divergence and low-income traps. Empirical evidence. Puzzles. 4) Growth in partially modernised economies: Growth conditions in developing economies characterised by partial modernisation and widespread poverty. Modern/informal sector interactions on the labour market. Equilibrium growth path. Income disparities, no convergence expectations. Empirical evidence.					
Lehrformen/ Teaching methods Lecture					
Prüfungsformen/ Mode of assessment The module grade is determined by the grade of the written exam (90 min).					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points Credit points are awarded after successful completion of the exam.					

Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)
4,17 %

Lernmaterialien und Literaturangaben/ Learning material and relevant literature
Lecture slides will be made available on moodle. Relevant literature will be announced in the lecture.

Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)
Modulbeauftragte/r: Prof. Dr. Wilhelm Löwenstein
Lehrende: Prof. Dr. Wilhelm Löwenstein and assistants

Growth and Development Economics

Mathematical Bioeconomics and Epidemics - Sustainability and Economic Change					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 266	5 CP	150 h	1.-3. Semester	Summer	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Lecture			Lecture: 1 SWS	138,75	15
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
English			Good knowledge of mathematics and microeconomics		
Anmeldeverfahren/ Registration					
Course registration is done via Moodle, exam registration via FlexNow.					
Lernziele/ Learning targets					
<p>The aim of this course is to familiarize students with the key analytical models used to address bioeconomic and epidemiological problems, and to enable them to apply these models independently for economically sound decision-making. Building on a rigorous yet application-oriented approach, students learn how biological dynamics (e.g., population growth, stock regeneration, infection dynamics) interact with economic incentives, constraints, and policy instruments. By the end of the module, students should be able to:</p> <ul style="list-style-type: none"> • formulate and interpret core bioeconomic and epidemic models using mathematical tools (e.g., dynamic systems, equilibrium analysis); • analyze efficiency, stability, and welfare implications of alternative management and inter-vention strategies; • derive and compare optimal decisions under different institutional settings (open access, regulation, cooperation); • assess strategic behavior and incentives in renewable-resource use and disease control con-texts; • transfer model insights to real-world policy questions in fisheries, forestry, and epidemic management. 					
Inhalt/ Contents					
Bioeconomic Foundations Introduction to Dynamic Optimization (Optimal Control Theory) Economic Models of Epidemics Fisheries Economics The Backward-Bending Supply Curve Regulatory Systems Strategic Behavior in Fisheries Cohort Models Forestry Economics Multi-Species Systems					
Lehrformen/ Teaching methods					
Lecture and group work					
Prüfungsformen/ Mode of assessment					
Written assignment					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Credit points are awarded upon successful completion of the module final examination.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)					
4,17 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature					
<ul style="list-style-type: none"> • Troy, Tassier. 2013. The Economics of Epidemiology. Springer Verlag UK. • Wacker, Blank. 1998. Ressourcenökonomik. Band I: Regenerative natürliche Ressourcen. Oldenbourg Verlag München. • Clark, C.W. Mathematical Bioökonomics. 2010. The Mathematics of Conservation. Wiley. 					
Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)					
Modulbeauftragte/r: Prof. Dr. Wilhelm Löwenstein Lehrende: Dr. Elkhani Richard Sadik-Zada					

Public Economics					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 070	10 CP	300 h	1.-3. Semester	Summer	1 Semester
Lehrveranstaltungen/ Courses a) Lecture b) Tutorial			Kontaktzeit/ Contact time Lecture: 4 SWS Tutorial: 2 SWS	Selbststudium/ Self-study 228 h	Gruppengröße/ Group size
Unterrichtssprache/ Language English			Teilnahmevoraussetzungen/ Requirements Good knowledge of microeconomics and econometrics as well as an interest in combining microeconomic theory with empirical research.		
Anmeldeverfahren/ Registration The (voluntary) course registration takes place via the learning platform Moodle of the Ruhr-University, the registration for the exam via FlexNow within the deadlines announced by the examination office.					
Verwendung des Moduls/ Module application Global Sustainability Economics MSc. <ul style="list-style-type: none"> • Compulsory elective module Economic Policy Consulting MSc. <ul style="list-style-type: none"> • Empirical Economics • Elective module Management and Economics MSc. <ul style="list-style-type: none"> • Theoretical & Applied Microeconomics • General Economics Finance, Accounting, Auditing, Controlling, & Taxation MSc. <ul style="list-style-type: none"> • Elective module (max. 15-20 ECTS) Sales Management MSc. <ul style="list-style-type: none"> • Elective module (max. 20-25 ECTS) 					
Lernziele/ Learning targets Students are enabled to explain basic theoretical and empirical concepts of the modern public economics literature. They are in the position to understand and critically assess modern theoretical and empirical work in this field. They are furthermore familiar with empirical policy evaluation and can implement these methods in Stata.					
Inhalt/ Contents The course provides an overview over advanced theoretical models and empirical results of the modern public economics literature. Topics covered are taxation (efficiency, incidence and optimal taxation), public debt (normative justifications for public debt, political economy considerations, the European debt crisis), the role of government institutions, public good provision, externalities, social insurance (adverse selection and moral hazard), redistribution and social welfare as well as international aspects of public economics (international tax and systems competition). The course also provides a brief introduction to micro-econometric methods used in modern empirical public economics.					
Lehrformen/ Teaching methods Lecture and Tutorial					
Prüfungsformen/ Mode of assessment 100% written exam					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points Credit points are awarded after successful completion of the module final exam.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS) 8,3 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature Will be made available via Moodle.					
Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s) Modulbeauftragte/r: Prof. Dr. Thushyanthan Baskaran Lehrende: Prof. Dr. Thushyanthan Baskaran					

Seminar Public Choice					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 072	5 CP	150 h	1.-3. Semester	irregularly	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Seminar			Seminar: 2 SWS	127,5 h	20
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
English					
Anmeldeverfahren/ Registration					
See chair website					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc.					
<ul style="list-style-type: none"> • Compulsory elective 					
Economic Policy Consulting MSc.					
<ul style="list-style-type: none"> • International and Spatial Economics • Empirical Economics • Elective module 					
Management and Economics MSc.					
<ul style="list-style-type: none"> • Statistics & Econometrics • General Economics 					
Finance, Accounting, Auditing, Controlling, & Taxation MSc.					
<ul style="list-style-type: none"> • Elective module (max. 15 ECTS) 					
Sales Management MSc.					
<ul style="list-style-type: none"> • Elective module (max. 20 ECTS) 					
Lernziele/ Learning targets					
The seminar aims to improve the understanding of political institutions and decision making in democracies from a theoretical and empirical perspective. During the seminar, students get to know current issues in public choice, learn to write a seminar paper and improve their presentation skills.					
Inhalt/ Contents					
After a kick-off meeting at the beginning of the semester, students are expected to write a term paper on current topics in public choice and present their results in a block seminar. They critically assess empirical research in this area. Further course details will be given in the introductory meeting.					
Lehrformen/ Teaching methods					
Seminar					
Prüfungsformen/ Mode of assessment					
The final module examination consists of a term paper (70% of the final grade) and an oral examination (30% of the final grade). You must receive at least a grade of 4,0 both for the term paper and the oral examination to pass the module examination.					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Credit points are awarded after successful completion of the final module examination. Participation in the final module examination requires that the student has previously completed an examination in the form of a presentation in which at least 50% of the attainable points have been achieved.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)					
4,17 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature					
Will be announced on the chair's website and in the Moodle-course.					
Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)					
Modulbeauftragte/r: Prof. Dr. Thushyanthan Baskaran					
Lehrende: Prof. Dr. Thushyanthan Baskaran					

Current Topics in Health Economics					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 275	5 CP	150 h	1.-3. Semester	Summer	Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Seminar			Seminar: 2 SWS	116,25 h	20
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
English			None: However, sufficient proficiency in microeconomics and microeconometrics in order to be able to read and understand the current international theoretical or empirical literature is strongly recommended.		
Anmeldeverfahren/ Registration					
See: https://www.wiwi.ruhr-uni-bochum.de/health/lehre/index.html.de					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc.					
<ul style="list-style-type: none"> • Compulsory elective module 					
Economic Policy Consulting MSc.					
<ul style="list-style-type: none"> • Empirical Economics • Elective module 					
Management and Economics MSc.					
<ul style="list-style-type: none"> • Statistics & Econometrics • Theoretical & Applied Microeconomics • General Economics 					
Finance, Accounting, Auditing, Controlling, & Taxation MSc.					
<ul style="list-style-type: none"> • Elective module (max. 15 ECTS) 					
Sales Management MSc.					
<ul style="list-style-type: none"> • Elective module (max. 20 ECTS) 					
Lernziele/ Learning targets					
Students enhance their ability to understand and assess scientific literature. They also strengthen their knowledge of econometric methods by examining the methodology employed by relevant peer-reviewed papers. During the seminar, students get to know current issues in health economics, learn to write a seminar paper and improve their presentation skills.					
Inhalt/ Contents					
In this seminar students will prepare a term paper based on current themes in the field of health economics. The topics will cover both empirical and theoretical contributions. Students will prepare their seminar papers in the first half of the semester and present their papers in the second half of the semester. Further course details will be given at the introductory meeting.					
Prüfungsformen/ Mode of assessment					
Term paper and presentation					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Credit points are awarded after the successful completion of the seminar paper and the presentation.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)					
4,17 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature					
Relevant literature, such as peer-reviewed journal articles, will be announced before the beginning of the seminar.					
Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)					
Modulbeauftragte/r: Prof. Dr. Ansgar Wübker Lehrende: Prof. Dr. Ansgar Wübker and postgraduates at RWI					

Seminar on Health Economics and Health Policy					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 274	5 CP	150 h	1.-3. Semester	Winter	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Seminar			Seminar: 2 SWS	116,25 h	20
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
English			Students should have sufficient proficiency in microeconomics and microeconometrics in order to be able to read and understand the current international theoretical and empirical literature. Moreover, students should be interested in health policy issues.		
Anmeldeverfahren/ Registration					
See: https://www.wiwi.ruhr-uni-bochum.de/health/lehre/index.html.de					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc.					
<ul style="list-style-type: none"> • Compulsory elective module 					
Economic Policy Consulting MSc.					
<ul style="list-style-type: none"> • Empirical Economics • Elective module 					
Management and Economics MSc.					
<ul style="list-style-type: none"> • Statistics & Econometrics • Theoretical & Applied Microeconomics • General Economics 					
Finance, Accounting, Auditing, Controlling, & Taxation MSc.					
<ul style="list-style-type: none"> • Elective module (max. 15 ECTS) 					
Sales Management MSc.					
<ul style="list-style-type: none"> • Elective module (max. 20 ECTS) 					
Lernziele/ Learning targets					
Students enhance their ability to understand and assess scientific literature. They also strengthen their knowledge of econometric methods by examining the methodology employed by relevant peer-reviewed papers. During the seminar, students get to know current issues in health economics, learn to write a seminar paper and improve their presentation skills.					
Inhalt/ Contents					
The German population is projected to contract by more than 10% by 2050. This makes Germany relatively unique among larger EU countries, which are forecast to face less dramatic decline (Italy) or even grow slightly (France, Spain, UK) over the same period. While the German population will decline overall, the number of elderly people will continue to grow as the population ages. An increasing old-age dependency ratio creates enormous challenges for health insurance, health care and long-term care (LTC) in Germany. Moreover, the changing size and composition of the population is not affecting all parts of Germany in a uniform way: this process is known as geo-demographic change. Some regions are thus facing particular challenges due to a rapidly ageing population and dwindling human resources in the care sector. In this seminar students will prepare a term paper based on selected challenges imposed by population aging and the geo-demographic change. The topics will cover both empirical and theoretical contributions. Students will thus have the possibility to acquire important knowledge and methodological skills for the successful completion of a master thesis in health economics and related fields. Students will prepare their seminar papers in the first half of the semester and present their papers in the second half of the semester. Further course details will be given at the introductory meeting.					
Lehrformen/ Teaching methods					
Seminar					
Prüfungsformen/ Mode of assessment					
Term paper with presentations and active participation in the course					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Credit points are awarded after the successful completion of the seminar paper and the presentation.					

Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS) 4,17 %
Lernmaterialien und Literaturangaben/ Learning material and relevant literature Relevant literature, such as peer-reviewed journal articles, will be announced before the beginning of the seminar.
Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s) Modulbeauftragte/r: Prof. Dr. Ansgar Wübker Lehrende: Prof. Dr. Ansgar Wübker and postgraduates at RWI

Seminar on Health Economics and Health Policy

Exchange Rates					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 340	5 CP	150 h	1.-3. Semester	Winter	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Lecture and Tutorial			Lecture: 2 SWS Tutorial: 1 SWS	116,25 h	
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
English			none		
Anmeldeverfahren/ Registration					
The registration is made via FlexNow within the period announced by the examination office.					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc					
<ul style="list-style-type: none"> • Compulsory elective 					
Economic Policy Consulting MSc.					
<ul style="list-style-type: none"> • International and Spatial Economics • Elective module 					
Management and Economics MSc.					
<ul style="list-style-type: none"> • International Finance • General Economics 					
Finance, Accounting, Auditing, Controlling, & Taxation MSc.					
<ul style="list-style-type: none"> • Elective module (max. 15-20 ECTS) 					
Sales Management MSc.					
<ul style="list-style-type: none"> • Elective module (max. 20-25 ECTS) 					
Lernziele/ Learning targets					
The participants understand and apply the analysis of foreign exchange markets. They are familiar with theoretical and empirical issues of interest rate parity and purchasing power parity and understand the short and long-term dynamics of exchange rates. The participants are able to apply advanced theories of exchange rate economics. They are able to discuss the development of foreign exchange markets and their institutional structure.					
Inhalt/ Contents					
This course offers an advanced foundation of the key concepts in international finance and a solid understanding of selected topics on exchange rates. The course provides an overview of the institutional characteristics of the foreign exchange market and proceeds to examine how exchange rates are related to the prices of goods and services, capital flows, and interest rates across countries. The course reviews theoretical models that describe the fundamental determinants of exchange rate dynamics, and the empirical evidence regarding exchange rate movements. Emphasis will be given to the implications of monetary and fiscal policy in an open economy for exchange rates.					
Prüfungsformen/ Mode of assessment					
The module grade results from the written module examination (duration: 90 minutes).					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Credit points are awarded after successful completion of the module examination.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)					
4,17 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature					
Will be announced in the lecture.					
Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)					
Modulbeauftragte/r: Jun.-Prof. Dr. Jantke de Boer Lehrende: Jun.-Prof. Dr. Jantke de Boer					

International Macroeconomics					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 025	5 CP	150 h	1.-3. Semester	Summer	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
a) Lecture b) Tutorial			Lecture: 2 SWS Tutorial: 1 SWS	116,25 h	
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
English			none		
Anmeldeverfahren/ Registration					
The registration is made via FlexNow within the period announced by the examination office.					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc.					
<ul style="list-style-type: none"> • Compulsory elective module 					
Economic Policy Consulting MSc.					
<ul style="list-style-type: none"> • International and Spatial Economics • Elective module 					
Management and Economics MSc.					
<ul style="list-style-type: none"> • International Finance • General Economics 					
Finance, Accounting, Auditing, Controlling, & Taxation MSc.					
<ul style="list-style-type: none"> • Elective module (max. 15) 					
Sales Management MSc.					
<ul style="list-style-type: none"> • Elective module (max. 20 ECTS) 					
Lernziele/ Learning targets					
The participants understand and apply advanced theories of international monetary economics. They are able to analyse and explain the determinants of exchange rates, to evaluate the impact of different exchange rate systems and to explain the setup and functioning of international financial institutions.					
Inhalt/ Contents					
This module offers a broad and advanced study of international monetary economics. The theory presented covers a comprehensive range of topics including exchange rate determination, monetary and fiscal policies in open economies and an introduction to international financial institutions. International financial markets and institutions affect everyday life, involve very large flows of funds, and influence the production of goods and services of almost every single country. The insights provided by the theoretical frameworks will enable students to discuss topics related to international financial markets such as the single currency in Europe.					
Prüfungsformen/ Mode of assessment					
The module grade results from the written module examination (duration: 90 minutes).					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Credit points are awarded after successful completion of the module examination.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)					
4,17 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature					
Will be announced in the lecture.					
Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)					
Modulbeauftragte/r: Jun.-Prof. Dr. Jantke de Boer Lehrende: Jun.-Prof. Dr. Jantke de Boer / Jun.-Prof. Joscha Beckmann					

African Economic Development					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 030	5 CP	150 h	1.-3. Semester	Winter	1 Semester
Lehrveranstaltungen/ Courses a) Lecture b) Tutorial			Kontaktzeit/ Contact time Lecture: 2 SWS Tutorial: 1 SWS	Selbststudium/ Self-study 116,25 h	Gruppengröße/ Group size
Unterrichtssprache/ Language English			Teilnahmevoraussetzungen/ Requirements Some prior coursework in development economics (Bachelor or Master level), knowledge of econometrics recommended.		
Anmeldeverfahren/ Registration The registration is made via FlexNow within the period announced by the examination office.					
Verwendung des Moduls/ Module application Global Sustainability Economics MSc. <ul style="list-style-type: none"> • Compulsory elective module Economic Policy Consulting MSc. <ul style="list-style-type: none"> • International and Spatial Economics • Elective module Management and Economics MSc. <ul style="list-style-type: none"> • Development Economics • General Economics Finance, Accounting, Auditing, Controlling, & Taxation MSc. <ul style="list-style-type: none"> • Elective module (max. 15) Sales Management MSc. <ul style="list-style-type: none"> • Elective module (max. 20 ECTS) 					
Lernziele/ Learning targets By enrolling in this course, participants demonstrate an understanding of high poverty rates and low economic growth rates in many sub-Saharan African countries. Participants are able to analyse and evaluate the empirical evidence from various econometric studies that address African economic development from different points of view.					
Inhalt/ Contents The main goal of this course is to analyse the reasons for the continued widespread poverty and relatively low economic growth rates in most parts of sub-Saharan Africa. The course stresses the heterogeneity of African economies and emphasises the importance of a detailed grasp of economic history as a basis for critically assessing the debate on African economic development. Topics covered include, among others, human capital, geography and health, trade and foreign direct investment, HIV/AIDS, institutions and governance, colonialism and slavery, ethnic and linguistic divisions, conflicts, and foreign aid.					
Prüfungsformen/ Mode of assessment The module grade results from the written module examination (duration: 90 minutes).					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points Credit points are awarded after successful completion of the module examination.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS) 4,17 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature Will be announced in the lecture.					
Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s) Modulbeauftragte/r: Prof. Dr. Matthias Busse Lehrende: Prof. Dr. Matthias Busse with assistants					

International Trade and Sustainable Development					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
-	10 CP	300 h	1.-3. Semester	irregularly	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time Lecture: 4 SWS Tutorial: 2 SWS	Selbststudium/ Self-study 216 h	Gruppengröße/ Group size 30
Unterrichtssprache/ Language English			Teilnahmevoraussetzungen/ Requirements None		
Anmeldeverfahren/ Registration The registration is made via FlexNow within the period announced by the examination office.					
Verwendung des Moduls/ Module application Global Sustainability Economics MSc. <ul style="list-style-type: none"> • Compulsory elective module Economic Policy Consulting MSc. <ul style="list-style-type: none"> • International and Spatial Economics • Elective module Management and Economics MSc. <ul style="list-style-type: none"> • Development Economics • General Economics Finance, Accounting, Auditing, Controlling, & Taxation MSc. <ul style="list-style-type: none"> • Elective module (max. 15-20 ECTS) Sales Management MSc. <ul style="list-style-type: none"> • Elective module (max. 20-25 ECTS) 					
Lernziele/ Learning targets By the end of the course, students will be able to: <ul style="list-style-type: none"> • Understand fundamental international trade theories, that is, the determinants of trade between countries and the effects of trade on output and welfare levels. Analyse and explain the effects of various government restrictions (trade policy) on international trade flows and welfare levels. • Explain the theoretical linkages between international trade and sustainable development. • Critically analyse international trade agreements and their sustainability provisions. • Evaluate the environmental and social impacts of trade policies using empirical evidence and case studies. • Apply sustainability frameworks to assess the effects of global value chains. • Conduct independent research on international trade and sustainability issues. • Present complex arguments clearly in oral form to an academic audience. 					
Inhalt/ Contents The course is structured in two parts. In the first part, students are introduced to international trade theory at an advanced and analytical level. Topics include the fundamental gains from trade, the role of imperfect competition in shaping trade patterns and welfare, firm-level heterogeneity in trade and investment, and the rationale behind trade-restrictive policies. Attention is also given to the institutional framework of global trade, with a focus on the World Trade Organization (WTO) as well as regional and bilateral trade agreements. In the second part, students develop and present case studies on the intersections of trade and sustainability. Case study themes may include income distribution, labour and environmental standards, enabling students to link theoretical insights with real-world policy challenges.					
Lehrformen/ Teaching methods Lecture, tutorial and presentations by students					
Prüfungsformen/ Mode of assessment The module grade results from a midterm (45 minutes), a final exam (90 minutes) and a presentation.					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points Credit points are awarded after successful completion of the module examination.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS) 8,33 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature Will be announced in the lecture.					

Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)

Modulbeauftragte/r: Prof. Dr. Matthias Busse

Lehrende: Prof. Dr. Matthias Busse with assistants

International Trade and Sustainable Development

Seminar in African Economic Development					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 055	5 CP	150 h	1.-3. Semester	irregular	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Seminar			Seminar: 2 SWS	127,5 h	16
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
English			Module African Economic Development		
Anmeldeverfahren/ Registration					
The registration is made via FlexNow within the period announced by the examination office.					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc.					
<ul style="list-style-type: none"> • Compulsory elective module 					
Economic Policy Consulting MSc.					
<ul style="list-style-type: none"> • International and Spatial Economics • Elective module 					
Management and Economics MSc.					
<ul style="list-style-type: none"> • Development Economics • General Economics 					
Finance, Accounting, Auditing, Controlling, & Taxation MSc.					
<ul style="list-style-type: none"> • Elective module (max. 15) 					
Sales Management MSc.					
<ul style="list-style-type: none"> • Elective module (max. 20 ECTS) 					
Lernziele/ Learning targets					
Seminar participants will broaden and deepen their knowledge of development economics with a special focus on issues relevant for countries in Sub-Saharan Africa. By writing a seminar paper on a specific topic and country, they will deepen and broaden their knowledge and methodological skills in the area of development economics.					
Inhalt/ Contents					
The main goal of the seminar is to analyse economic issues relevant to countries in sub-Saharan Africa. Building on the theories and policy issues covered in the module "African Economic Development", students will use advanced analytical tools to examine specific topics in selected African countries.					
Lehrformen/ Teaching methods					
Seminar (writing of seminar paper, presentations and discussions)					
Prüfungsformen/ Mode of assessment					
The module examination consists of a written seminar paper and the presentation of the paper (max. 50 points each). The module score is then calculated on a point scale from zero to 100 points. Students can achieve bonus points for active class participation.					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Credit points are awarded after successfully passing the module examination (written seminar paper and presentation). Students must achieve at least 50% of the attainable points to obtain credit points for the module.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)					
4,17 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature					
Will be announced in the seminar.					
Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)					
Modulbeauftragte/r: Prof. Dr. Matthias Busse Lehrende: Prof. Dr. Matthias Busse with assistants					

Seminar in Development Economics					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 093	5 CP	150 h	1.-3. Semester	Summer	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Seminar			Seminar: 2 SWS	127,5 h	16
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
English			Prior coursework in development economics suggested.		
Anmeldeverfahren/ Registration					
The registration is made via FlexNow within the period announced by the examination office.					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc.					
<ul style="list-style-type: none"> • Compulsory elective module 					
Economic Policy Consulting MSc.					
<ul style="list-style-type: none"> • International and Spatial Economics • Elective module 					
Management and Economics MSc.					
<ul style="list-style-type: none"> • International Finance • Development Economics • General Economics 					
Finance, Accounting, Auditing, Controlling, & Taxation MSc.					
<ul style="list-style-type: none"> • Elective module (max. 20) 					
Sales Management MSc.					
<ul style="list-style-type: none"> • Elective module (max. 20 ECTS) 					
Lernziele/ Learning targets					
Seminar participants will broaden and deepen their knowledge of development economics (development finance). By writing a seminar paper on a specific development finance topic, they will analyse specific economic issues and derive policy implications from the analysis.					
Inhalt/ Contents					
This seminar will deal with specific issues in development economics. Usually, it has a strong focus on development finance topics from a management and economics perspective. Students will apply analytical tools to understand these issues in developing countries, to examine empirical evidence, and to evaluate policy options for governments in to promote development.					
Lehrformen/ Teaching methods					
Seminar (writing of seminar paper, presentations and discussions)					
Prüfungsformen/ Mode of assessment					
The module examination consists of a written seminar paper and the presentation of the paper (max. 50 points each). The module score is then calculated on a point scale from zero to 100 points. Students can achieve bonus points for active class participation.					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Credit points are awarded after successfully passing the module examination (written seminar paper and presentation). Students must achieve at least 50% of the attainable points to obtain credit points for the module.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)					
4,17 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature					
Will be announced in the seminar.					
Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)					
Modulbeauftragte/r: Prof. Dr. Matthias Busse / Koch					
Lehrende: Dr. Thomas Koch					

Seminar in International Economics					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 113	5 CP	150 h	1.-3. Semester	irregular	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Seminar			Seminar: 2 SWS	127,5 h	16
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
English			Depending on the seminar topic, either module "International Trade" or "International Macroeconomics".		
Anmeldeverfahren/ Registration					
The registration is made via FlexNow within the period announced by the examination office.					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc.					
<ul style="list-style-type: none"> • Compulsory elective module 					
Economic Policy Consulting MSc.					
<ul style="list-style-type: none"> • International and Spatial Economics • Elective module 					
Management and Economics MSc.					
<ul style="list-style-type: none"> • International Finance • Development Economics • General Economics 					
Finance, Accounting, Auditing, Controlling, & Taxation MSc.					
<ul style="list-style-type: none"> • Elective module (max. 15) 					
Sales Management MSc.					
<ul style="list-style-type: none"> • Elective module (max. 20 ECTS) 					
Lernziele/ Learning targets					
Seminar participants will broaden and deepen their knowledge of international economics. By writing a seminar paper on a specific topic, they will apply either international trade or international macro theories. They will also analyse specific economic issues and derive policy implications from the analysis.					
Inhalt/ Contents					
The main goal of the seminar is to analyse current international economic policy issues. Depending on the specific topic of the seminar, students will use advanced analytical tools to understand the causes and consequences of global economic integration, examine empirical evidence on how the globalisation of markets for capital, goods and services affects macroeconomic performance in developed and developing economies, and/or assess the choices available to countries regarding fiscal, monetary, trade, and other policies.					
Lehrformen/ Teaching methods					
Seminar (writing of seminar paper, presentations and discussions)					
Prüfungsformen/ Mode of assessment					
The module examination consists of a written seminar paper and the presentation of the paper (max. 50 points each). The module score is then calculated on a point scale from zero to 100 points. Students can achieve bonus points for active class participation.					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Credit points are awarded after successfully passing the module examination (written seminar paper and presentation). Students must achieve at least 50% of the attainable points to obtain credit points for the module.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)					
4,17 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature					
Will be announced in the seminar.					
Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)					
Modulbeauftragte/r: Prof. Dr. Matthias Busse					
Lehrende: Prof. Dr. Matthias Busse or Prof. Dr. Beckmann with assistants					

Adaptation to Climate Change in the Global South					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 700	5 CP	150 h	1.-3. Semester	summer	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Seminar			Seminar: 2 SWS	105 h	24
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
English			Knowledge in empirical economic research and/or econometrics is recommended.		
Anmeldeverfahren/ Registration					
via Moodle					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc.					
<ul style="list-style-type: none"> • Compulsory elective module 					
Economic Policy Consulting MSc.					
<ul style="list-style-type: none"> • International and Spatial Economics • Empirical Economics 					
Management and Economics MSc.					
<ul style="list-style-type: none"> • Development Economics • Statistics & Econometrics • Theoretical & Applied Microeconomics • General Economics 					
Finance, Accounting, Auditing, Controlling & Taxation MSc.					
<ul style="list-style-type: none"> • Elective module (max. 15-20 ECTS) 					
Sales Management MSc.					
<ul style="list-style-type: none"> • Elective module (max. 20-25 ECTS) 					
Lernziele/ Learning targets					
Students will acquire knowledge on instruments of climate adaptation in the Global South. They will enhance their methodological skills and learn about various methods of quantitative impact evaluation. Lastly, students acquire skills for critically discussing scientific studies with regard to study design and causal inference, which prepares them for writing a master thesis.					
Inhalt/ Contents					
The seminar deals with adaptation to climate change in the Global South. The focus will be on recent innovations, such as parametric climate insurance for farm households and forecast-based humanitarian aid delivered in the context of extreme weather events. Taking an applied micro-economic perspective, we will discuss how economic research can evaluate the effectiveness of climate adaptation instruments with quantitative methods. Various study designs will be introduced, including randomized controlled trials and quasi-experimental methods, and their strengths and limitations will be compared. Students will read and discuss selected peer-reviewed journal articles on climate adaptation. The examination consists of an oral presentation and a written term paper.					
Lehrformen/ Teaching methods					
Seminar					
Prüfungsformen/ Mode of assessment					
Oral presentation of one scientific study (30 minutes) and submission of term paper (10 pages)					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
It is an (ungraded) prerequisite for students to submit three questions on the article scheduled for discussion via Moodle the day before each seminar. Credit points will be awarded after the successful completion of the presentation and the term paper.					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature					
Literature will be announced at the first day of the seminar.					
Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)					
Modulbeauftragte/r: Prof. Dr. Kati Krähnert Lehrende: Prof. Dr. Kati Krähnert and assistant					

Climate Change and Sustainable Development					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 701	5 CP	150 h	1.-3. Semester	irregular	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Seminar			Seminar: 2 SWS	105 h	28
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
English			Knowledge in empirical economic research and/or econometrics is recommended.		
Anmeldeverfahren/ Registration					
via Moodle					
Verwendung des Moduls/ Module application					
Global Sustainability Economics M.Sc.					
<ul style="list-style-type: none"> • Compulsory elective module 					
Economic Policy Consulting M.Sc.					
<ul style="list-style-type: none"> • Environmental, Resource and Energy Economics • International and Spatial Economics • Empirical Economics 					
Management and Economics M.Sc.					
<ul style="list-style-type: none"> • Development Economics • Statistics & Econometrics • Theoretical & Applied Microeconomics • Energy and Environmental Economics • General Economics 					
Finance, Accounting, Auditing, Controlling & Taxation M.Sc.					
<ul style="list-style-type: none"> • Elective module (max. 15 ECTS) 					
Sales Management M.Sc.					
<ul style="list-style-type: none"> • Elective module (max. 20 ECTS) 					
Lernziele/ Learning targets					
Students will acquire knowledge on the economics of climate change and concepts of sustainable development. They will enhance their methodological skills in applied econometrics. Students will gain skills for reading and critically discussing empirical studies in economics with regard to study design and causal inference.					
Inhalt/ Contents					
Climate change is becoming a major obstacle for development, particularly for individuals in the Global South. This seminar deals with the socio-economic impacts of climate change and how these interfere with sustainable development. The thematic focus is on the impacts of climate change on poverty, quality of life and the health of individuals in the Global South. Key concepts, such as the Sustainable Development Goals and the measurement of wealth and poverty, will be discussed and how these are applied in empirical economic research. Students will read and discuss selected peer-reviewed articles that analyze micro data with econometric methods. The examination consists of an oral presentation and a written term paper.					
Lehrformen/ Teaching methods					
Seminar					
Prüfungsformen/ Mode of assessment					
Presentation of one scientific study (30 minutes) and term paper (10 pages).					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Credit points will be awarded after the successful completion of the presentation and the term paper.					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature					
Literature will be announced at the first day of the seminar.					
Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)					
Modulbeauftragte/r: Prof. Dr. Kati Krähnert Lehrende: Prof. Dr. Kati Krähnert and assistants					

Research internship in the Global South					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
-	10 CP	300 h	1.-3. Semester	irregularly	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Internship			3 monts full-time	210 h	2
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
English			Knowledge in empirical economic research and development economics.		
Anmeldeverfahren/ Registration					
Via FlexNow upon successful application.					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc					
<ul style="list-style-type: none"> • Compulsory elective 					
Economic Policy Consulting MSc.					
<ul style="list-style-type: none"> • Empirical Economics • International and Spatial Economics 					
Management and Economics MSc.					
<ul style="list-style-type: none"> • Development Economics • Statistics & Econometrics • Theoretical & Applied Microeconomics • General Economics 					
Finance, Accounting, Auditing, Controlling & Taxation MSc.					
<ul style="list-style-type: none"> • Elective module (max. 15 ECTS) 					
Sales Management MSc.					
<ul style="list-style-type: none"> • Elective module (max. 20 ECTS) 					
Lernziele/ Learning targets					
Students will acquire hands-on experience with implementing quantitative household surveys in the Global South. They will learn about sampling design, designing survey items, piloting, training of enumerators, survey implementation, and data analysis.					
Inhalt/ Contents					
In applied development economics, household survey data from the Global South are an important resource. Such household survey data are used, for instance, in research that investigates the impacts of shocks on human well-being or the effectiveness of policies. The research internship offers selected students the opportunity to join ongoing research projects in which quantitative household surveys are implemented in selected countries in the Global South. The research internship lasts three months, of which at least two months will be spend abroad. Students will assist the team of researchers with various aspects of designing, implementing, and analyzing household surveys. Tasks may include contributing to designing survey items, conducting expert interviews to inform the design of specific survey modules, conducting background search to adjust survey items to the local cultural context, preparing training material for the local enumerators, observing and analyzing results from the pilot survey, observing the implementation of survey interviews, and data analysis with descriptive and econometric methods. The internship is only offered when suitable research projects are being implemented. Possible countries in which household surveys are planned include Vietnam, Ghana, and Mongolia.					
Lehrformen/ Teaching methods					
3 months full-time research internship, of which at least 2 months will be spend abroad.					
Prüfungsformen/ Mode of assessment					
Oral examination					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Credit points will be awarded after an oral exam at the end of the internship.					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature					
Literature will be provided during the internship.					
Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)					
Modulbeauftragte/r: Prof. Dr. Kati Krähnert					

Lehrende: Prof. Dr. Kati Krähnert and assistants

Sonstige Informationen/ Further information

Open internship positions will be announced on the webpage of Prof. Krähnert. Interested students may submit their application via Email, consisting of a motivation letter, a detailed CV, and a complete academic record.

Research internship in the Global South

Advanced Ecological Economics					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 260	5 CP	150 h	1.-3. Semester	Winter	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
<ul style="list-style-type: none"> The lecture provides an overview of topics in ecological economics and presents model examples from the literature. The seminar is the most important element of the module, as it is here that students present their own modeling ideas and discuss them with their peers and supervisors. The exercises are optional and provide an opportunity to refresh and deepen skills in system dynamics modeling and the use of the Vensim software. 			a) Seminar: 2 SWS b) Lecture: 2 SWS c) Exercises (optional): 2 SWS	100 h	15
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
english					
Anmeldeverfahren/ Registration					
Preregistration until the first session in Moodle course. Binding registration in FlexNow during the normal registration period necessary for credits.					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc					
<ul style="list-style-type: none"> Compulsory elective 					
Economic Policy Consulting MSc.					
<ul style="list-style-type: none"> Environmental, Resource and Energy Economics Empirical Economics Elective module 					
Management and Economics MSc.					
<ul style="list-style-type: none"> Energy and Environmental Economics General Economics 					
Finance, Accounting, Auditing, Controlling, & Taxation MSc.					
<ul style="list-style-type: none"> Elective module (max. 15-20 ECTS) 					
Sales Management MSc.					
<ul style="list-style-type: none"> Elective module (max. 20-25 ECTS) 					
Lernziele/ Learning targets					
After completing this module, students can					
<ul style="list-style-type: none"> use system dynamics to model simple socio-ecological systems; analyze system dynamics models; identify important leverage points to make systems more sustainable; formulate policy implications and recommendations based on formal analyses. 					
Inhalt/ Contents					
Ecological economics is concerned with socio-ecological systems. In other words, it analyzes the relationship of the economy to other social and natural systems from a systems perspective. Economic activity is always embedded in a larger context. Production requires resources and energy that are taken from nature and produces waste that ends up in the natural environment. In addition, the economy is influenced by values, opinions and beliefs that shape economic policies and institutions. From the perspective of ecological economics, sustainability can only be discussed with a systemic view. Therefore, systems thinking is a critical skill that will be trained in this module. We start with simple dynamic models of the economy, which are then extended to include aspects of social and natural systems. We use the software Vensim for this purpose. These extended socio-ecological models will be used to discuss sustainability policies.					
Lehrformen/ Teaching methods					
<ul style="list-style-type: none"> The lecture provides an overview of topics in ecological economics and presents model examples from the literature. The seminar is the most important element of the module, as it is here that students present their own modeling ideas and discuss them with their peers and supervisors. 					

- The exercises are optional and provide an opportunity to refresh and deepen skills in system dynamics modeling and the use of the Vensim software.

Prüfungsformen/ Mode of assessment

Seminar paper and presentation.

Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points

To be allowed to write the seminar paper, students must demonstrate that they can work with system dynamics models in Vensim.

Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)

4,17 %

Lernmaterialien und Literaturangaben/ Learning material and relevant literature

Will be provided in the Moodle course.

Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)

Modulbeauftragte/r: Prof. Dr. Michael Roos

Lehrende: Prof. Dr. Michael Roos und Assistenten

Advanced Ecological Economics

Advanced Macroeconomic Simulation					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 515	5 CP	150 h	1.-3. Semester	Summer	1 Semester
Lehrveranstaltungen/ Courses Lectures, self-study, practical programming exercises			Kontaktzeit/ Contact time <ul style="list-style-type: none"> Lecture (1 SWS) Seminar (2 SWS) Lab session (2 SWS) Online self-study course 	Selbststudium/ Self-study 75 h	Gruppengröße/ Group size 12
Unterrichtssprache/ Language English			Teilnahmevoraussetzungen/ Requirements		
Anmeldeverfahren/ Registration Registration in FlexNow system during the registration period.					
Verwendung des Moduls/ Module application Global Sustainability Economics MSc. <ul style="list-style-type: none"> Compulsory elective Economic Policy Consulting MSc. <ul style="list-style-type: none"> Empirical Economics Environmental, Resource and Energy Economics Elective module Management and Economics MSc. <ul style="list-style-type: none"> Data Science & Quantitative Analysis Energy and Environmental Economics General Economics Finance, Accounting, Auditing, Controlling, & Taxation MSc. <ul style="list-style-type: none"> Elective module (max. 15-20 ECTS) Sales Management MSc. <ul style="list-style-type: none"> Elective module (max. 20-25 ECTS) 					
Lernziele/ Learning targets Students can <ul style="list-style-type: none"> design an own small macroeconomic model; implement the model as an agent-based model in a team; simulate the model with specialized computer software; analyze the model; evaluate the model, its insights and limitations; communicate the model and its result in written form. 					
Inhalt/ Contents <p>Macroeconomic outcomes result from the interaction of millions of heterogeneous individual and firms. At the same time, the individual behavior at the microeconomic level is influenced and constrained by emergent structures at the macro level such as habits or social norms.</p> <p>Modeling these interactions between many heterogeneous agents and the interaction between different levels of the economy is very challenging with mathematical equilibrium models. The new field of emergent macroeconomics uses agent-based modeling as a modern computer simulation approach to macroeconomics. The lecture provides background information on this approach, presents current research and introduces students to economic modeling with agents. In the lab sessions, students learn how to program in an agent-based modeling software and how to analyze the implemented models. In the seminar, students will present their ideas for their own model, show the progress of their work, and receive feedback from their peers and the instructors. They will also present their final results in the seminar. Students will work in groups of three to develop, implement and analyze their models. Because simulation work is usually done in teams of specialists. Teamwork is a key social skill that will be developed in this module.</p>					

Lehrformen/ Teaching methods Seminar
Prüfungsformen/ Mode of assessment Project paper with oral presentation.
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points <ul style="list-style-type: none"> • Test on proficiency with the computer software • 2 seminar presentations • Grading of coding exercises
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS) 4,17 %
Lernmaterialien und Literaturangaben/ Learning material and relevant literature Will be provided in the Moodle course.
Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s) Modulbeauftragte/r: Prof. Dr. Michael Roos Lehrende: Prof. Dr. Michael Roos

Advanced Macroeconomic Simulation

Economic Policy and the Media					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 510	5 CP	150 h	1.-3. Semester	Summer	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Seminar			Seminar: 2 SWS	116,25 h	20
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
English			Basic knowledge of the major fields of economic policy (e.g. monetary, fiscal, tax, trade, competition, labor, social protection...). General interest in current issues.		
Anmeldeverfahren/ Registration					
The registration is made via FlexNow within the period announced by the examination office.					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc.					
<ul style="list-style-type: none"> • Compulsory elective 					
Economic Policy Consulting MSc.					
<ul style="list-style-type: none"> • Elective module 					
Management and Economics MSc.					
<ul style="list-style-type: none"> • General Economics 					
Finance, Accounting, Auditing, Controlling, & Taxation MSc.					
<ul style="list-style-type: none"> • Elective module (max. 15 ECTS) 					
Sales Management MSc.					
<ul style="list-style-type: none"> • Elective module (max. 20 ECTS) 					
Lernziele/ Learning targets					
The seminar enables students to analyze the dynamics involved in the setting of the economic policy agenda.					
Inhalt/ Contents					
<p>The seminar focusses on the interplay between politics, the market and the media. Which economic policy issues rise to the top of the public agenda, and which ones don't? Which ones are being prioritized, and which ones neglected? Whose interests are highlighted, and whose are largely ignored? Studying these questions may be just a sideshow in standard economics. However, they are at the core of the practical conduct of economic policy. The seminar offers concepts to systematically evaluate current policy issues and their public perception. Special attention is devoted to the news media, who play an outsized role in setting the economic policy agenda setting. The first part of the seminar (online) introduces the students to some core concepts, in particular:</p> <ul style="list-style-type: none"> • What we talk about, and how we do it: Agenda Setting, Framing, Issue Attention Cycles, and the News Value of Economic Issues • Picking Priorities: Economic developments and their public perception – public discourse as a means to discover facts and ideas (Hayek) and to reconcile interests (Habermas). • Media economics: What makes the news and why. • The hypermediated political economy: How Social Media have disrupted public spheres, political communication, and the role of journalistic media • Narratives, Economics and Policy 					
Lehrformen/ Teaching methods					
Lecture, students' presentations					
Prüfungsformen/ Mode of assessment					
Subsequently, participants are asked to write a 15-to-20-pages term papers, that apply these approaches to specific current economic policy issues. In a final session (presence) the results are presented and discussed.					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Credit points are awarded after successful completion of the final module examination.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)					
4,17 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature					
Essential readings will be announced in the first session of the course.					

Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)

Modulbeauftragte/r: Prof. Dr. Michael Roos, Prof. Dr. Henrik Müller (TU Dortmund)

Lehrende: Prof. Dr. Michael Roos, Prof. Dr. Henrik Müller (TU Dortmund)

Economic Policy and the Media

Macroeconomics and Sustainability					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 250	7.5 CP	225 h	1-3. Semester	Summer	1 Semester
Lehrveranstaltungen/ Courses Group work, self-study, mentoring			Kontaktzeit/ Contact time Project seminar with online self study elements: 3 SWS	Selbststudium/ Self-study 180 h	Gruppengröße/ Group size 20
Unterrichtssprache/ Language English			Teilnahmevoraussetzungen/ Requirements 20 CP's from other economics modules; module "Advanced Ecological Economics" is recommended.		
Anmeldeverfahren/ Registration Registration in FlexNow system during the registration period.					
Verwendung des Moduls/ Module application Global Sustainability Economics MSc. <ul style="list-style-type: none"> • Compulsory elective module (min. 30 ECTS) Economic Policy Consulting MSc. <ul style="list-style-type: none"> • International and Spatial Economics • Umweltmanagement, Ressourcen und Energie • Elective module Management and Economics MSc. <ul style="list-style-type: none"> • Energy and Environmental Economics • General Economics Finance, Accounting, Auditing, Controlling, & Taxation MSc. <ul style="list-style-type: none"> • Elective module (max. 15-20 ECTS) Sales Management MSc. <ul style="list-style-type: none"> • Elective module (max. 20-25 ECTS) 					
Lernziele/ Learning targets Students can <ul style="list-style-type: none"> • self-organize to acquire methodological skills; • collaborate in a group to work on a group challenge; • apply critical thinking and creativity techniques; • improve their future literacy and acquire future skills; • develop ideas to achieve sustainability; • present their results. The development of self-management skills and as social skills is an important goal of this module.					
Inhalt/ Contents This module covers the different dimensions of a sustainable economy, i.e. material well-being, social justice and inclusion, and ecological sustainability, from a macroeconomic perspective. Pursuing these goals may involve trade-offs which generate difficult problems for economic policy. We analyze how current economic systems deal with these trade-offs and reflect on alternative models to organize the economy. In particular, we discuss the concepts of limits to growth, green growth, post-growth and degrowth and their macroeconomic and societal consequences. An important topic of the module is how to deal with the uncertain future and how to acquire future literacy, which is closely linked to the question of sustainability. The module covers methods of futures research like scenario thinking, which are widely used in government agencies and large companies. Finally, we discuss how the transition toward a more sustainable economy can be achieved.					
Lehrformen/ Teaching methods Group work, self-study, mentoring					
Prüfungsformen/ Mode of assessment Project paper (50%) and oral presentation (50%)					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points Homework assignments and group work in class (both ungraded).					

Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS) 4,17 %
Lernmaterialien und Literaturangaben/ Learning material and relevant literature Will be provided in the Moodle course.
Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s) Modulbeauftragte/r: Prof. Dr. Michael Roos Lehrende: Prof. Dr. Michael Roosl

Macroeconomics and Sustainability

Seminar Quantitative Regional Economics					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 550	5 CP	150 h	1.-3. Semester	every semester	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Seminar			Seminar: 1 SWS	138,75 h	15
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
English			Basic knowledge of the programming language R		
Anmeldeverfahren/ Registration					
The course registration takes place via the learning platform Moodle of the Ruhr-University, and the registration for the examination is via FlexNow within the deadlines announced by the examination office.					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc.					
<ul style="list-style-type: none"> • Compulsory elective 					
Economic Policy Consulting MSc.					
<ul style="list-style-type: none"> • Empirical Economics • International and Spatial Economics • Elective module 					
Management and Economics MSc.					
<ul style="list-style-type: none"> • Data Science & Quantitative Analysis • Statistics & Econometrics • General Economics 					
Finance, Accounting, Auditing, Controlling, & Taxation MSc.					
<ul style="list-style-type: none"> • Elective module (max. 15) 					
Sales Management MSc.					
<ul style="list-style-type: none"> • Elective module (max. 20 ECTS) 					
Lernziele/ Learning targets					
By the end of the course, students will be proficient in conducting regional economic research and presenting their findings professionally and coherently. Students should be able to develop and investigate an individual research question using a region as the observation unit. They will gain an overview of regional economics and learn suitable econometric methods, research theory and literature, obtain data, and analyze this information focused on their research question. Additionally, they will learn to code the necessary analyses in R, visualize the results, and present their findings effectively. The entire process will be showcased in a final presentation, from developing a research question to researching literature and data, analyzing and visualizing results, and discussing the conclusions. Understanding should be demonstrated by generating the code and compiling everything into a dynamic document.					
Inhalt/ Contents					
Developing an individual research question and application of spatial econometric and comparable methods to assess panel and cross-sectional data, including a comprehensive presentation of the work.					
<ul style="list-style-type: none"> • Developing a theoretically founded research question • Researching and obtaining data • Applying statistical methods in R • Describing, processing, and analyzing data in R • Regression analyses in R • Visualizing of results • Creating a dynamic document (containing both program code (R) and text (e.g., LaTeX)) • Presenting the research question, methods, and results 					
Lehrformen/ Teaching methods					
Seminar					
Prüfungsformen/ Mode of assessment					
The final module grade results from the grade of an individually held presentation which contains the development, processing and the results of the chosen research question.					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Credit points are awarded after an obligatory hand-in of the data used and the functioning dynamic document's code before the exam and successful completion of the final module examination.					

Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)

4,17 %

Lernmaterialien und Literaturangaben/ Learning material and relevant literature

- Fahrmeir, Kneib, Lang 2009: Regression: Models, Methods, and Applications.
- Kleiber, Zeileis 2008: Applied Econometrics with R.
- Etc.

Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)

Modulbeauftragte/r: Prof. Dr. Michael Roos

Lehrende: Dr. Imke Rhoden

Sonstige Informationen/ Further information

The course will take place roughly every two weeks. Please check the Moodle course for details. Laptops with internet access must be brought to the sessions; the preferred OS is MS Windows.

Seminar Quantitative Regional Economics

Seminar in Applied Energy System Analysis and Energy Economics					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
	5 CP	150 h	1.-3. Semester	Winter	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Seminar			Seminar: 2 SWS	150 h	
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
Englisch			-		
Anmeldeverfahren/ Registration					
The (voluntary) course registration takes place via the learning platform Moodle of the Ruhr-University, the registration procedure for the examination will be announced in the first seminar meeting.					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc.					
<ul style="list-style-type: none"> • Compulsory elective 					
Economic Policy Consulting MSc.					
<ul style="list-style-type: none"> • Elective module 					
Management and Economics MSc.					
<ul style="list-style-type: none"> • Elective module 					
Finance, Accounting, Auditing and Taxation (FAACT)					
<ul style="list-style-type: none"> • Elective module (max. 15-20 ECTS) 					
Sales Management					
<ul style="list-style-type: none"> • Elective module (max. 20-25 ECTS) 					
Lernziele/ Learning targets					
Students shall become familiar with current topics in energy system analysis and energy economics and learn how to conduct scientific research. Students will learn how to address specific research questions by applying different scientific methods, such as literature reviews, energy system modelling or empirical analyses. They will learn how to present their insights within a term paper and an oral presentation.					
Inhalt/ Contents					
In this module, methods in energy system analysis and energy economics are linked to current energy policy issues. Students will independently address specific research questions and report their findings within a term paper. The papers will be presented in the seminar and defended in a subsequent discussion with all peers in class.					
Lehrformen/ Teaching methods					
Seminar					
Prüfungsformen/ Mode of assessment					
The final module examination consists of a term paper, a presentation and participation in the discussion. Details will be announced at the beginning of the semester.					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Credit points are awarded after successful completion of the final module examination and an obligatory presentation of the papers according to the seminar topics.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)					
4,17 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature					
Will be provided during the first meeting of the course and via the e-learning platform Moodle of the Ruhr-University.					
Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)					
Modulbeauftragte/r: Prof. Dr. Valentin Bertsch					
Lehrende: Prof. Dr. Valentin Bertsch, Dr. Jonas Finke, Dr. Silke Johandeiter					

Theory of Welfare State					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
-	5 CP	150 h	1.-3. Semester	irregular	Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Lecture			Lecture: 2 SWS	127,5 h	50
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
English			none		
Anmeldeverfahren/ Registration					
(Voluntary) registration via the e-learning platform Moodle hosted by the Ruhr University; registration for the final examination via FlexNow within the registration period announced by the Examination Office.					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc.					
<ul style="list-style-type: none"> • Compulsory elective 					
Economic Policy Consulting MSc.					
<ul style="list-style-type: none"> • Elective module 					
Management and Economics MSc.					
<ul style="list-style-type: none"> • Theoretical & Applied Microeconomics • General Economics 					
Finance, Accounting, Auditing, Controlling, & Taxation MSc.					
<ul style="list-style-type: none"> • Elective module (max. 15) 					
Sales Management MSc.					
<ul style="list-style-type: none"> • Elective module (max. 20 ECTS) 					
Lernziele/ Learning targets					
<p>Participants will be able to label different types of social protection systems, to describe important characteristics of these systems and to illustrate them with relevant examples. Participants will also be able to explain economic mechanisms which are important for the design of instruments of social protection in different fields of social policy. They will be enabled to understand and compare assessments of the effects of relevant policy interventions as well as to criticize the underlying theories. They will also be enabled to discuss the possible effects of changes in the design of social-protection measures and to develop analytical approaches for empirical investigations of these effects.</p>					
Inhalt/ Contents					
<p>The welfare state is a permanent companion throughout the life-course of individuals in developed economies, though with some diversity across countries in terms of instruments applied and levels of cover provided. Understanding the economic rationale for, and the economic consequences of, a broad array of measures of social policy is thus of some significance. Major branches of the welfare state covered in the lecture are old-age provision, health care and cover for health costs, poverty and redistribution. Issues in organizing and financing social protection are addressed in a comparative perspective across typical arrangements in developed countries. A sound understanding of economic theory (micro and macro level) is required.</p>					
Lehrformen/ Teaching methods					
Lecture; work on exercise sheets during self-study hours					
Prüfungsformen/ Mode of assessment					
The grade obtained for the module is based on the grade attained in the final written examination.					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Credit points will be awarded based on successful participation in the module examination.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)					
4,17 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature					
Barr, N. (2020), The Economics of the Welfare State, 6th ed., Oxford, New York: Oxford University Press. Further literature (textbooks, journal articles, etc.) will be indicated in the course.					
Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)					
Modulbeauftragte/r: Prof. Dr. Martin Werding					
Lehrende: Prof. Dr. Martin Werding					

Applied Time Series Analysis					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
074 030	10 CP	150 h	1.-3. Semester	Summer	1 Semester
Lehrveranstaltungen/ Courses a) Lecture b) Tutorial			Kontaktzeit/ Contact time Lecture: 2 SWS Tutorial: 2 SWS	Selbststudium/ Self-study 255 h	Gruppengröße/ Group size 100
Unterrichtssprache/ Language English			Teilnahmevoraussetzungen/ Requirements At least one graduate course in Econometrics.		
Anmeldeverfahren/ Registration (Voluntary) registration through Moodle, registration for examination through FlexNow within the time span announced by the examination office.					
Verwendung des Moduls/ Module application Global Sustainability Economics MSc. <ul style="list-style-type: none"> • Compulsory elective Economic Policy Consulting MSc. <ul style="list-style-type: none"> • Empirical Economics Management and Economics MSc. <ul style="list-style-type: none"> • International Finance • Data Science & Quantitative Analysis • Statistics & Econometrics • General Economics • General Management Finance, Accounting, Auditing, Controlling, & Taxation MSc. <ul style="list-style-type: none"> • Elective module (max. 15) Sales Management MSc. <ul style="list-style-type: none"> • Elective module (max. 20 ECTS) 					
Lernziele/ Learning targets Participants should understand and make use of modern time series techniques in empirical research.					
Inhalt/ Contents This course provides the review of time series models widely applied in economics and finance. Starting from univariate linear ARMA models we consider a broad class of linear and non-linear time series approaches (including ARIMA, GARCH, VARMA, etc.) with focusing on estimation and forecasts.					
Lehrformen/ Teaching methods Lecture and tutorial					
Prüfungsformen/ Mode of assessment Final grade is the grade of the final exam.					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points Credit points are awarded if a passing grade has been reached in the final exam.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS) 8,3 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature Lecture slides and exercises are made available on Moodle. Literature references are provided in the lecture.					
Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s) Modulbeauftragte/r: Prof. Dr. Vasyl Golosnoy Lehrende: Prof. Dr. Vasyl Golosnoy					

Econometrics					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
074 040	10 CP	150 h	1.-3. Semester	Summer	1 Semester
Lehrveranstaltungen/ Courses a) Lecture b) Tutorial			Kontaktzeit/ Contact time Lecture: 2 SWS Tutorial: 2 SWS	Selbststudium/ Self-study 255 h	Gruppengröße/ Group size 100
Unterrichtssprache/ Language English			Teilnahmevoraussetzungen/ Requirements Bachelor courses in Inferential Statistics and Basic Econometrics.		
Anmeldeverfahren/ Registration (Voluntary) registration through Moodle, registration for examination through FlexNow within the time span announced by the examination office.					
Verwendung des Moduls/ Module application Global Sustainability Economics MSc. <ul style="list-style-type: none"> • Compulsory elective Economic Policy Consulting MSc. <ul style="list-style-type: none"> • Empirical Economics • Elective module Management and Economics MSc. <ul style="list-style-type: none"> • Data Science & Quantitative Analysis • Statistics & Econometrics • General Economics • General Management Finance, Accounting, Auditing, Controlling, & Taxation MSc. <ul style="list-style-type: none"> • Elective module (max. 15) Sales Management MSc. <ul style="list-style-type: none"> • Elective module (max. 20 ECTS) 					
Lernziele/ Learning targets Participants should be enabled to understand the setup of the linear regression model, distinguish different violations of the basic assumptions, and know how to choose and apply appropriate remedies in such cases. Furthermore, they should be able to make use of basic techniques for time series analysis.					
Inhalt/ Contents This course is the first graduate course in econometrics, which concentrates primarily on the linear regression model, its estimation, inference and diagnostics. A short introduction in time series analysis would conclude the course. It provides a sound theoretical background in Econometrics for successful participation in more advanced Econometrics courses.					
Lehrformen/ Teaching methods Lecture and tutorial					
Prüfungsformen/ Mode of assessment Final grade is the grade of the final exam.					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points Credit points are awarded if a passing grade has been reached in the final exam.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS) 8,3 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature Lecture slides and exercises are made available on Moodle. Literature references are provided in the lecture.					
Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s) Modulbeauftragte/r: Prof. Dr. Vasyl Golosnoy Lehrende: Prof. Dr. Vasyl Golosnoy					

Financial Econometrics					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
074 050	10 CP	300 h	1.-3. Semester	Winter	1 Semester
Lehrveranstaltungen/ Courses a) Lecture b) Tutorial			Kontaktzeit/ Contact time Lecture: 2 SWS Tutorial: 2 SWS	Selbststudium/ Self-study 255 h	Gruppengröße/ Group size 100
Unterrichtssprache/ Language English			Teilnahmevoraussetzungen/ Requirements At least one graduate course in Econometrics.		
Anmeldeverfahren/ Registration (Voluntary) registration through Moodle, registration for examination through FlexNow within the time span announced by the examination office.					
Verwendung des Moduls/ Module application Global Sustainability Economics MSc. <ul style="list-style-type: none"> • Compulsory elective Economic Policy Consulting MSc. <ul style="list-style-type: none"> • Empirical Economics • Elective module Management and Economics MSc. <ul style="list-style-type: none"> • International Finance • Data Science & Quantitative Analysis • Statistics & Econometrics • General Economics • General Management Finance, Accounting, Auditing, Controlling, & Taxation MSc. <ul style="list-style-type: none"> • Elective module (max. 15) Sales Management MSc. <ul style="list-style-type: none"> • Elective module (max. 20 ECTS) 					
Lernziele/ Learning targets Participants should understand and make use of modern econometric techniques for modelling financial processes.					
Inhalt/ Contents This course provides the review of empirical methods applied in a quickly growing field of financial econometrics. The course concentrates on describing and modelling stylized facts found in return and volatility time series. The important financial models (CAPM, APT) are discussed from the empirical point of view as well.					
Lehrformen/ Teaching methods Lecture and tutorial					
Prüfungsformen/ Mode of assessment Final grade is the grade of the final exam.					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points Credit points are awarded if a passing grade has been reached in the final exam.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS) 8,3 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature Lecture slides and exercises are made available on Moodle. Literature references are provided in the lecture.					
Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s) Modulbeauftragte/r: Prof. Dr. Vasyl Golosnoy Lehrende: Prof. Dr. Vasyl Golosnoy					

Multivariate Statistical Methods					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
074 035	10 CP	300 h	1.-3. Semester	Winter	1 Semester
Lehrveranstaltungen/ Courses a) Lecture b) Tutorial			Kontaktzeit/ Contact time Lecture: 2 SWS Tutorial: 2 SWS	Selbststudium/ Self-study 255 h	Gruppengröße/ Group size 100
Unterrichtssprache/ Language English			Teilnahmevoraussetzungen/ Requirements Basic knowledge of regression analysis and analytical statistics.		
Anmeldeverfahren/ Registration (Voluntary) registration through Moodle, registration for examination through FlexNow within the time span announced by the examination office.					
Verwendung des Moduls/ Module application Global Sustainability Economics MSc. <ul style="list-style-type: none"> • Compulsory elective Economic Policy Consulting MSc. <ul style="list-style-type: none"> • Empirical Economics • Elective module Management and Economics MSc. <ul style="list-style-type: none"> • Data Science & Quantitative Analysis • Statistics & Econometrics • General Economics • General Management Finance, Accounting, Auditing, Controlling, & Taxation MSc. <ul style="list-style-type: none"> • Elective module (max. 15) Sales Management MSc. <ul style="list-style-type: none"> • Elective module (max. 20 ECTS) Economics MSc. <ul style="list-style-type: none"> • Wahlbereich Economics (min. 75 ECTS) • Wahlbereich Management (max. 15 ECTS) Management MSc. <ul style="list-style-type: none"> • Operations and Service Management • Wahlbereich Management (min. 60 ECTS) • Wahlbereich Economics (max. 30 ECTS) 					
Lernziele/ Learning targets Participants should understand and make use of different multivariate statistical methods and apply them to economic and other data sets. In the written exercises, methods are applied, compared and evaluated. In the programming exercises, which use the software package R, students are supposed to apply code from pre-existing packages and develop new code based on the methodology studied in the course. Participants should be able to analyze and interpret their program outputs.					
Inhalt/ Contents This course provides the review of multivariate statistical methods, e.g. principal component analysis, factor analysis and discriminant analysis, which are of great importance in empirical economic research.					
Lehrformen/ Teaching methods Lecture and tutorial					
Prüfungsformen/ Mode of assessment Final grade is the grade of the final exam.					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points Credit points are awarded if a passing grade has been reached in the final exam.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS) 8,3 %					

Lernmaterialien und Literaturangaben/ Learning material and relevant literature

Lecture slides and exercises are made available on Moodle. Literature references are provided in the lecture.

Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)

Modulbeauftragte/r: Prof. Dr. Vasyl Golosnoy / Dr. Markus Pape

Lehrende: Prof. Dr. Vasyl Golosnoy / Dr. Markus Pape

Multivariate Statistical Methods

Seminar in Econometrics					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
074 045	10 CP	300 h	1.-3. Semester	every semester	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Seminar			Seminar: 2 SWS	277,5 h	20
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
English			At least one graduate course in Econometrics.		
Anmeldeverfahren/ Registration					
Attendance of the first meeting is mandatory for participation. Students must register for the examination in FlexNow. Registration deadlines are announced by the examination office.					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc.					
<ul style="list-style-type: none"> • Compulsory elective 					
Economic Policy Consulting MSc.					
<ul style="list-style-type: none"> • Empirical Economics • Elective module 					
Management and Economics MSc.					
<ul style="list-style-type: none"> • International Finance • Data Science & Quantitative Analysis • Statistics & Econometrics • General Economics • General Management 					
Finance, Accounting, Auditing, Controlling, & Taxation MSc.					
<ul style="list-style-type: none"> • Elective module (max. 15) 					
Sales Management MSc.					
<ul style="list-style-type: none"> • Elective module (max. 20 ECTS) 					
Economics MSc.					
<ul style="list-style-type: none"> • Wahlbereich Economics (min. 75 ECTS) • Wahlbereich Management (max. 15 ECTS) 					
Management MSc.					
<ul style="list-style-type: none"> • Wahlbereich Management (min. 60 ECTS) • Wahlbereich Economics (max. 30 ECTS) 					
Lernziele/ Learning targets					
Participants should learn to comprehend, compare and summarize one or multiple sources on a particular topic, which can either be parts of textbooks or original research articles. They should rephrase and organize the main aspects of the topic, and, in a possible application, analyze a data set or discover the properties of a particular statistical or econometric approach, as well as evaluate their results.					
Inhalt/ Contents					
The seminar provides a broad range of topics to choose from, primarily (but not exclusively!) in the fields of macroeconomics, financial econometrics and time series econometrics. Participants are supposed to write a term paper of at most 20 pages and to present it at the end of the semester.					
Lehrformen/ Teaching methods					
Seminar					
Prüfungsformen/ Mode of assessment					
Oral examination. Participation in the oral examination requires that a term paper is submitted until the due date, and that the submitted term paper would suffice to receive a passing grade.					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Students must receive a passing grade in the oral examination to receive credit points.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)					
8,3 %					

Lernmaterialien und Literaturangaben/ Learning material and relevant literature Will be announced during the first meetings.
Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s) Modulbeauftragte/r: Prof. Dr. Vasyl Golosnoy Lehrende: Prof. Dr. Vasyl Golosnoy

Seminar in Econometrics

Seminar in Advanced Energy and Resource Economics I					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 562	5 CP	150 h	1.-3. Semester	Winter	Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Seminar			Seminar: 2 SWS	127,5 h	20
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
English					
Anmeldeverfahren/ Registration					
Registration for the seminar takes place via Moodle. In addition, registration via FlexNow is required within the deadlines announced by the Examination Office.					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc.					
<ul style="list-style-type: none"> • Compulsory elective module 					
Economic Policy Consulting MSc.					
<ul style="list-style-type: none"> • Umweltmanagement, Ressourcen und Energie • Elective module 					
Management and Economics MSc.					
<ul style="list-style-type: none"> • Energy and Environmental Economics • General Economics 					
Finance, Accounting, Auditing, Controlling, & Taxation MSc.					
<ul style="list-style-type: none"> • Elective module (max. 15-20 ECTS) 					
Sales Management MSc.					
<ul style="list-style-type: none"> • Elective module (max. 20-25 ECTS) 					
Lernziele/ Learning targets					
The seminar imparts the skills for the scientific treatment of economic questions in the realm of energy and resource economics. Through the independent processing of a specific research question, the students shall develop their competences in working out new knowledge scientifically and presenting their knowledge to peers (e.g. knowledge of political instruments for the reduction of greenhouse gas emissions). Students will also deepen and broaden their knowledge of resource and energy economics. Finally, they learn to name, classify and discuss central issues of environmental economics and current problems from politics and economics (e.g. regulation of air pollutants).					
Inhalt/ Contents					
In this module, advanced contents of resource economics and energy economics are linked to current problems from politics and economics in the field of environmental and climate economics and are worked on by the students in the form of a seminar paper. The seminar papers will be presented in the seminar and defended in a subsequent discussion with all peers in class.					
Lehrformen/ Teaching methods					
Seminar					
Prüfungsformen/ Mode of assessment					
The final module examination consists of a term paper. By giving a presentation and participating in the discussion, bonus points can be awarded, which amount to a maximum of 25% of the maximum total number of points. A maximum of 75 points can be achieved through the seminar paper, a maximum of 20 bonus points through the presentation and a maximum of 5 bonus points for participation in the discussion. The module score then results from a scale of points ranging from zero to 100 points. Bonus points earned have no influence on the examination result if it is "not passed" (5.0) without the bonus points.					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Credit points are awarded after successful completion of the final module examination and an obligatory presentation of the papers according to the seminar topics.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)					
4,17 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature					

Will be provided during the first meeting of the course.

Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)

Modulbeauftragte/r: Prof. Dr. Andreas Löschel

Lehrende: Prof. Dr. Andreas Löschel

Seminar in Advanced Energy and Resource Economics I

Seminar in Advanced Energy and Resource Economics II					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 233	5 CP	150 h	1.-3. Semester	Summer	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Seminar			Seminar: 2 SWS	127,5 h	
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
English					
Anmeldeverfahren/ Registration					
Registration for the seminar takes place via Moodle. In addition, registration via FlexNow is required within the deadlines announced by the Examination Office.					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc.					
<ul style="list-style-type: none"> • Compulsory elective module 					
Economic Policy Consulting MSc.					
<ul style="list-style-type: none"> • Umweltmanagement, Ressourcen und Energie • Elective module 					
Management and Economics MSc.					
<ul style="list-style-type: none"> • Energy and Environmental Economics • General Economics 					
Finance, Accounting, Auditing, Controlling, & Taxation MSc.					
<ul style="list-style-type: none"> • Elective module (max. 15-20 ECTS) 					
Sales Management MSc.					
<ul style="list-style-type: none"> • Elective module (max. 20-25 ECTS) 					
Lernziele/ Learning targets					
The seminar imparts the skills for the scientific treatment of economic questions in the realm of energy and resource economics. Through the independent processing of a specific research question, the students shall develop their competences in working out new knowledge scientifically and presenting their knowledge to peers (e.g. knowledge of political instruments for the reduction of greenhouse gas emissions). Students will also deepen and broaden their knowledge of resource and energy economics. Finally, they learn to name, classify and discuss central issues of environmental economics and current problems from politics and economics (e.g. regulation of air pollutants).					
Inhalt/ Contents					
In this module, advanced contents of resource economics and energy economics are linked to current problems from politics and economics in the field of environmental and climate economics and are worked on by the students in the form of a seminar paper. The seminar papers will be presented in the seminar and defended in a subsequent discussion with all peers in class.					
Lehrformen/ Teaching methods					
Seminar					
Prüfungsformen/ Mode of assessment					
The final module examination consists of a term paper. By giving a presentation and participating in the discussion, bonus points can be awarded, which amount to a maximum of 25% of the maximum total number of points. A maximum of 75 points can be achieved through the seminar paper, a maximum of 20 bonus points through the presentation and a maximum of 5 bonus points for participation in the discussion. The module score then results from a scale of points ranging from zero to 100 points. Bonus points earned have no influence on the examination result if it is "not passed" (5.0) without the bonus points.					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Credit points are awarded after successful completion of the final module examination and an obligatory presentation of the papers according to the seminar topics.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)					
4,17 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature					

Will be provided during the first meeting of the course.

Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)

Modulbeauftragte/r: Prof. Dr. Andreas Löschel

Lehrende: Prof. Dr. Andreas Löschel

Seminar in Advanced Energy and Resource Economics II

Seminar in Applied Economic Policy					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 220	5 CP	150 h	1.-3. Semester	every semester	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Blockseminar			Blockseminar: 2 SWS	127,5 h	12
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
English			Sound understanding of basic econometrics		
Anmeldeverfahren/ Registration					
https://www2.wiwi.rub.de/en/chairs/wirtschaftspolitik-und-angewandte-oekonometrie-en/					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc.					
<ul style="list-style-type: none"> • Compulsory elective 					
Economic Policy Consulting MSc.					
<ul style="list-style-type: none"> • Empirical Economics • Elective module 					
Management and Economics MSc.					
<ul style="list-style-type: none"> • Statistics & Econometrics • General Economics 					
Finance, Accounting, Auditing, Controlling, & Taxation MSc.					
<ul style="list-style-type: none"> • Elective module (max. 15) 					
Sales Management MSc.					
<ul style="list-style-type: none"> • Elective module (max. 20 ECTS) 					
Lernziele/ Learning targets					
The aim of the seminar is to improve the understanding of current economic problems and to provide insights into the theoretical and empirical analysis of political decisions. Students should learn to develop concrete research questions independently and to understand and evaluate empirical strategies for answering politically relevant questions. The seminar is intended to enable students to independently produce scientific papers and to give them the opportunity to practice their presentation skills.					
Inhalt/ Contents					
After one kick-off meeting at the beginning of the semester, the students should work independently (and in consultation with their supervisors) on current economic policy topics. They should present the relevant research in this area and understand the empirical strategies involved in answering policy-relevant questions. The results of their research should be presented and discussed in a two-day block seminar, and summarized in a seminar paper, including the discussion results.					
Lehrformen/ Teaching methods					
Seminar					
Prüfungsformen/ Mode of assessment					
The final module examination consists of a term paper. By giving a presentation and participating in the discussion, bonus points can be awarded, which amount to a maximum of 25% of the maximum total number of points. A maximum of 75 points can be achieved through the seminar paper, a maximum of 20 bonus points through the presentation and a maximum of 5 bonus points for participation in the discussion. The module score then results from a scale of points ranging from zero to 100 points. Bonus points earned have no influence on the examination result if it is "not passed" (5.0) without the bonus points.					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Credit points are awarded after successful completion of the final module examination. Participation in the final module examination requires that the student has previously completed an examination in the form of a presentation in which at least 50% of the attainable points have been achieved.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)					
4,17 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature					
Will be announced on the chair's website and in the introductory lecture.					

Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)

Modulbeauftragte/r: Prof. Dr. Dr. h. c. Christoph M. Schmidt

Lehrende: Prof. Dr. Dr. h. c. Christoph M. Schmidt

Seminar in Applied Economic Policy

Regional Innovation					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
074 325	5 CP	150 h	1.-3. Semester	every semester	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Project seminar			Projekt seminar: 2 SWS	127,5 h	25
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
English			<ul style="list-style-type: none"> • Bachelor-Degree • Command of English language 		
Anmeldeverfahren/ Registration					
Application via homepage: http://www.apf.ruhr-uni-bochum.de/aup/lehre/wiwi/ri.html.en Please register for the examination via FlexNow within the deadlines announced by the examination office.					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc					
<ul style="list-style-type: none"> • Elective module 					
Economic Policy Consulting MSc.					
<ul style="list-style-type: none"> • Entrepreneurship, Innovation und Transformation 					
Management and Economics MSc.					
<ul style="list-style-type: none"> • Entrepreneurship, Innovation & Transformation • General Management 					
Finance, Accounting, Auditing, Controlling, & Taxation MSc.					
<ul style="list-style-type: none"> • Elective module (max. 15) 					
Sales Management MSc.					
<ul style="list-style-type: none"> • Elective module (max. 20 ECTS) 					
Lernziele/ Learning targets					
The students translate different conceptual approaches of regional analysis using structural and survey data on specific regional challenges in order to provide recommendation for the economic and/or social development of a region. In this context, they understand the importance of regional characteristics for divergent economic development and investigate the underlying mechanisms on the background of regional change and transformation. In case studies, students deepen their knowledge of basic theoretical models and apply scientific methods in their project work. As a result, students develop practice-oriented ideas that are exchanged and transferred with partners during the course of the seminar.					
Inhalt/ Contents					
Regional innovation and transformation confront state actors, regional associations and companies with a sophisticated challenge, as exemplified by structural change in the Ruhr area. The module aims at a better understanding of regional innovation and its supporting and hindering mechanisms. Students will gain a deeper insight into theoretical frameworks of regional innovation systems, regional dynamics and the underlying institutional mechanisms. They learn to understand regions as ecosystems in which universities and/or institutional entrepreneurs play a central role in regional change. The module encourages students to identify their own projects, to develop theoretical and methodological foundations, and to collect and evaluate own data. Following, they can make concrete proposals for further enhancing competitiveness of the Ruhr Area or another region and become experts in regional knowledge transfer. For this, the WorldFactory® provides the platform.					
Lehrformen/ Teaching methods					
Block seminar					
Prüfungsformen/ Mode of assessment					
The final module examination is a poster presentation.					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Credit points are awarded after successful completion of the final examination. Acceptance in the final module examination requires the student having previously completed an academic achievement in form of an exposé, which has at least been assessed as "satisfactory".					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)					
4,17 %					

Lernmaterialien und Literaturangaben/ Learning material and relevant literature

- Cohendet, P., Grandadam, D., & Simon, L. (2010). The anatomy of the creative city. *Industry and Innovation*, 17(1), 91 - 111.
- Cooke, P. (2001). Regional innovation systems, clusters, and the knowledge economy. *Industrial and Corporate Change*, 10(4), 945–974.
- De Villiers Scheepers, M.J.; Mealy E.; Clements, M.; Lawrence, A. (2018): Regional Entrepreneurship Ecosystems Support: South East Queensland as Case Study. In: O'Connor, A., Stam E., Sussan, F., Audretsch, D. (Hg.) *Entrepreneurial Ecosystems. International Studies in Entrepreneurship* (38): 101-130. Cham.
- Florida, R. (2003). Cities and the creative class. In: *City & Community* 2(1), 3 - 19.
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Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)

Modulbeauftragte/r: Prof. Dr. Uta Wilkens

Lehrende: Prof. Dr. Uta Wilkens and Simon Rohde

Regional Innovation

Twin Transformation – Management und Governance von Digitalisierung und Nachhaltigkeit**Twin Transformation – Management and Governance of Digitalization and Sustainability**

Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
074 322	10 CP	300 h	1.-3. Semester	unregelmäßig	1 Semester
Lehrveranstaltungen/ Courses a) Gecoachtes Selbststudium b) Praxiswoche			Kontaktzeit/ Contact time a) Gecoachtes Selbststudium: 4 SWS b) Praxiswoche: 2 SWS	Selbststudium/ Self-study 232,5 h	Gruppengröße/ Group size 15
Unterrichtssprache/ Language Deutsch			Teilnahmevoraussetzungen/ Requirements		
Anmeldeverfahren/ Registration Vor Anmeldung an valentin.langholf@rub.de .					
Verwendung des Moduls/ Module application Global Sustainability Economics MSc. <ul style="list-style-type: none"> • Wahlmodul / Elective module Economic Policy Consulting MSc. <ul style="list-style-type: none"> • Wahlmodul Management and Economics MSc. <ul style="list-style-type: none"> • Entrepreneurship, Innovation & Transformation • General Management Finance, Accounting, Auditing, Controlling, & Taxation MSc. <ul style="list-style-type: none"> • Wahlmodul (max. 15-20 ECTS) Sales Management MSc. <ul style="list-style-type: none"> • Wahlmodul (max. 20-25 ECTS) 					
Lernziele/ Learning targets Die Studierenden sollen sich folgende Kompetenzen aneignen: <ul style="list-style-type: none"> • Unterschiedliche Akteure innerhalb von Organisationen und ihre Rolle bei der Technologienutzung und Arbeitsgestaltung einschätzen können. • Ein Verständnis für die Relevanz von unternehmerischer Nachhaltigkeit aufbringen und die konzeptionellen Grundlagen einer nachhaltigen Entwicklung verstehen und anwenden können. • Unternehmen als wichtigen Teil der globalen nachhaltigen Entwicklung identifizieren und Nachhaltigkeit als strategische Managementaufgabe verstehen. • Die Bedeutung von beruflichen Rollen und Rollenkonzepten in Organisationen ermessen und praktische Methoden zur Berücksichtigung dieser beim Technologieeinsatz ableiten können. • Ethische Aspekte der Technologienutzung im Wechselspiel von Unternehmenszielen und Sozialpartnerschaft betrachten können. • Weiterentwicklungen von Geschäftsmodellen im Kontext eines verantwortlichen Managements einschätzen können. 					
Inhalt/ Contents Die Twin Transformation beschreibt die parallele und miteinander verknüpfte Entwicklung von Digitalisierung und Nachhaltigkeit in Unternehmen und der Wirtschaft insgesamt. Ziel ist es, digitale Technologien gezielt einzusetzen, um nachhaltige Geschäftsmodelle, Prozesse und Produkte zu fördern. Dadurch entstehen Synergien: Digitale Lösungen wie Künstliche Intelligenz, Big Data oder das Internet der Dinge können helfen, Ressourcen effizienter zu nutzen, Emissionen zu senken und nachhaltige Innovationen voranzutreiben. Gleichzeitig stärkt die Integration von Nachhaltigkeit die Zukunftsfähigkeit und Wettbewerbsfähigkeit von Unternehmen. In Unternehmen wird die Twin Transformation daran sichtbar, dass Digitalisierung als Enabler für Nachhaltigkeit auftritt (z.B. durch smarte Energiesteuerung, transparente Lieferketten, etc.). Gleichzeitig fungiert Nachhaltigkeit als Leitbild für die digitale Transformation (z.B. Fokus auf die Entwicklung klimafreundlicher Technologien). Die verknüpfte und aufeinander bezogene digitale und nachhaltige Transformation ist eine anspruchsvolle und komplexe Managementaufgabe, die strategische Unternehmensführung, Governance und Führung gleichermaßen betrifft. In diesem Modul bauen Studierende zunächst ein Verständnis der Herausforderungen im Kontext der digitalen Transformation auf. Dazu gehören Fragen der Befähigung durch Technologienutzung im Gegensatz zu Dequalifizierung durch Technologie. Es werden Methoden vermittelt, Technologie					

arbeitsplatznah in bestehende Workflows zu integrieren und dabei auf die Expertise und Kompetenzen der Technologienutzenden zurückzugreifen. Ebenso lernen sie Möglichkeiten der Technologiegestaltung kennen, die anwenderorientiert und effizienzorientiert zugleich sind. Darüber hinaus beschäftigen sie sich mit Fragen der Unternehmensethik im Wechselspiel mit der sozialpartnerschaftlichen Gestaltung des Technologieeinsatzes. Wird der Blick von der Digitalisierung auf den Veränderungsmotor der Nachhaltigkeit gelenkt, erweitert sich das Verständnis der Twin Transformation um eine ganzheitliche nachhaltige Unternehmensentwicklung angesichts aktueller globaler Herausforderungen, wie dem Klimawandel, wachsenden sozialen Dysbalancen und komplexeren Wirtschaftsbeziehungen. Eine nachhaltige Unternehmensführung bedarf eines strategischen Managementansatzes, der lineare wirtschaftliche Ziellogiken aufbricht und erweitert. Die Studierenden setzen sich mit der erforderlichen Transformation eines verantwortungsvollen Handelns gegenüber Umwelt und Gesellschaft im Einklang mit wirtschaftlichem Erfolg auseinander und erkennen die Notwendigkeit einer nachhaltigen Unternehmensentwicklung unter normativen Bezugsrahmen wie den Sustainable Development Goals. Sie verstehen Nachhaltigkeit als strategische Managementaufgabe und lernen, wie eine unternehmerische Nachhaltigkeitsorientierung systematisch gesteigert werden kann. Zudem identifizieren sie unterschiedliche Funktionsrollen, die eine nachhaltige Entwicklung fördern und verstehen, Zielkonflikte in Veränderungsprozessen zu bearbeiten. Zuletzt erkennen die Studierenden Wirkungshebel im Kontext von Nachhaltigkeitsinnovationen und humanzentrierter Technologienutzung bei der Weiterentwicklung von nachhaltigeren Geschäftsmodellen und wenden die Potenziale des Technologieeinsatzes an.

Lehrformen/ Teaching methods

Gecoachtes Selbststudium, Übung (Praxiswoche)

Prüfungsformen/ Mode of assessment

Die Modulabschlussnote ergibt sich aus der Note der Modulabschlussklausur.

Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points

Kreditpunkte werden vergeben, wenn die Modulabschlussprüfung erfolgreich absolviert wurde und die Praxiswoche absolviert wurde.

Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)

8,3 %

Lernmaterialien und Literaturangaben/ Learning material and relevant literature

Werden in der Einführungsveranstaltung in Form eines Readers bereitgestellt.

Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)

Modulbeauftragte/r: Prof. Dr. Uta Wilkens / Dr. Valentin Langholf

Lehrende: Dr. Valentin Langholf und Frederik Becker

Sonstige Informationen/ Further information

Das Modul ist Bestandteil des berufsbegleitenden Weiterbildungsstudiengangs „Organizational Management“ am Institut für Arbeitswissenschaft. Die Teilnahme am Modul ist daher nur möglich, wenn Kapazitäten frei sind. Die Teilnahme an dem Modul ist nicht möglich, wenn das Modul „Perspektiven auf ein verantwortliches Management - Nachhaltige Unternehmensentwicklung und humanzentrierter Technologieeinsatz“ bereits erfolgreich abgeschlossen wurde.

Introduction to International Taxation					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
074 270	5 CP	150 h	1.-3. Semester	Summer	1 Semester
Lehrveranstaltungen/ Courses a) Lecture b) Exercise session			Kontaktzeit/ Contact time Lecture: 2 SWS Exercise session: 1 SWS	Selbststudium/ Self-study 116,25 h	Gruppengröße/ Group size
Unterrichtssprache/ Language English			Teilnahmevoraussetzungen/ Requirements Knowledge of „Unternehmensbesteuerung I“ is highly recommended.		
Anmeldeverfahren/ Registration See our homepage					
Verwendung des Moduls/ Module application Global Sustainability Economics MSc. <ul style="list-style-type: none"> • Elective module Management and Economics MSc. <ul style="list-style-type: none"> • Business Taxation • General Management Finance, Accounting, Auditing, Controlling, & Taxation MSc. <ul style="list-style-type: none"> • Core module (25 ECTS) • Taxation • Compulsory elective (20 ECTS) • Elective module (max. 15) Sales Management MSc. <ul style="list-style-type: none"> • Elective module (max. 20 ECTS) 					
Lernziele/ Learning targets The study module Introduction to International Taxation deals with tax aspects of cross-border activities of German resident taxpayers in foreign countries and non-resident taxpayers in Germany. In this course, attention is especially given to unilateral and bilateral regulations which shall prevent double taxation and regulations which shall secure the national taxation right. Therefore, emphasis is given to double taxation treaties and the German Foreign Tax Act (AStG). Based on this knowledge the influence of taxation on the structure of foreign investments (location, legal form, financing) is taken into consideration.					
Inhalt/ Contents Besteuerung grenzüberschreitender Unternehmenstätigkeiten, insbesondere gemäß Doppelbesteuerungsabkommen und Außensteuergesetz.					
Lehrformen/ Teaching methods Lecture and Exercise session					
Prüfungsformen/ Mode of assessment Written exam or oral exam					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points Kreditpunkte werden vergeben, wenn die Modulabschlussprüfung erfolgreich absolviert wurde.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS) 4,17 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature Literature will be announced in class or see our homepage.					
Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s) Modulbeauftragte/r: Prof. Dr. Heiko Müller Lehrende: Prof. Dr. Heiko Müller and assistants					

Accounting for Sustainability in Research and Practice					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
074 207	5 CP	150 h	1.-3. Semester	Winter	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Lecture, Tutorial			a) Lecture: 2 SWS b) Tutorial: 2 SWS	105 h	20
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
English					
Anmeldeverfahren/ Registration					
Registration for the assessment via the lecturer within the deadline set by the chair. Detailed information on the registration procedure and assessment will be published on the chair's website. Exam registration in FlexNow during the period published by the examination office.					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc.					
<ul style="list-style-type: none"> • Elective module 					
Economic Policy Consulting MSc.					
<ul style="list-style-type: none"> • Elective module 					
Management and Economics MSc.					
<ul style="list-style-type: none"> • Accounting & Auditing • General Management 					
Finance, Accounting, Auditing, Controlling, & Taxation MSc.					
<ul style="list-style-type: none"> • Accounting • Elective module (max. 15-20 ECTS) 					
Sales Management MSc.					
<ul style="list-style-type: none"> • Elective module (max. 20-25 ECTS) 					
Lernziele/ Learning targets					
<p>After completing the course, students have an excellent knowledge of the role of accounting for the sustainability of businesses. They will develop an understanding of the underlying economics how corporate transparency can help to tackle urgent environmental and social challenges. Moreover, they will be able to contrast voluntary reporting activities with the increasing introduction of mandatory reporting requirements. While the focus of this course will be on reporting requirements in the EU, students will also get an overview of the developments in other jurisdictions such as the US. Collectively, this course is an optimal basis for any potential corporate "ESG expert"—a role which has recently gained a lot of traction in practice. In addition, students learn to critically assess state-of-the-art research in sustainability accounting, preparing them for future academic work in this area.</p>					
Inhalt/ Contents					
<p>While CSR reporting has been voluntary for a long time, more and more countries have made sustainability reporting mandatory in recent years or contemplate to do so. The urgent fight against climate change and health and safety issues in global supply chains are key drivers for this development. In the EU, the Corporate Sustainability Reporting Directive (CSRD) significantly a) extends the scope of firms required to report about their CSR performance, b) broadens and standardizes the contents and c) introduces mandatory assurance. At the same time, the ISSB is developing IFRS Sustainability Disclosure Standards as a global baseline for sustainability reporting. Firms are not only challenged with new reporting requirements, but also encouraged to make their business models more sustainable, to consider sustainability in their management control systems and to establish internal data collection processes. In this course, participants shall gain an in-depth understanding of current developments in sustainability accounting and reporting, both in research and practice. The course is delivered as a lecture with integrated tutorials and guest lectures by practitioners. Teams of master students present and discuss state-of-the-art research on sustainability accounting in class.</p>					
Lehrformen/ Teaching methods					
Lecture, Tutorial, presentations					
Prüfungsformen/ Mode of assessment					
The final module grade is awarded based on a written exam of a duration of 60 minutes. Additional assessment is possible in form of an oral presentation of a research paper of 15 minutes. For this presentation, a maximum of 6 bonus					

points can be obtained. These will be accounted for in the final grade if the module would have been passed also without any bonus points.

Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points

Credit points are awarded after successful completion of the final exam.

Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)

4,17 %

Lernmaterialien und Literaturangaben/ Learning material and relevant literature

All materials will be provided via Moodle. Auxiliary literature that may be helpful:

- Christensen et al (2021) - Mandatory CSR and sustainability reporting: economic analysis and literature review, in: Review of Accounting Studies, Vol. 26, pp. 1176-1248.

Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)

Modulbeauftragte/r: Prof. Dr. Martin Nienhaus

Lehrende: Prof. Dr. Martin Nienhaus and assistants

Accounting for Sustainability in Research and Practice

Advanced Seminar Financial Accounting					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
074 204	5 CP	150 h	1.-3. Semester	jedes Semester	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Seminar			Seminar: 2 SWS	127,5 h	20
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
Deutsch / Englisch					
Anmeldeverfahren/ Registration					
Die (freiwillige) Kursanmeldung erfolgt über die Lernplattform Moodle der Ruhr-Universität, die Anmeldung zur Prüfung über FlexNow innerhalb der vom Prüfungsamt bekanntgegebenen Frist.					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc.					
<ul style="list-style-type: none"> • Elective module 					
Management and Economics MSc.					
<ul style="list-style-type: none"> • Accounting & Auditing • General Management 					
Finance, Accounting, Auditing, Controlling, & Taxation MSc.					
<ul style="list-style-type: none"> • Accounting • Wahlpflichtmodul (20 ECTS) • Wahlmodul (max. 15 ECTS) 					
Sales Management MSc.					
<ul style="list-style-type: none"> • Wahlmodul (max. 20 ECTS) 					
Lernziele/ Learning targets					
Die Veranstaltung dient dazu, die Kompetenzen der Teilnehmer in folgenden Bereichen zu fördern:					
<ul style="list-style-type: none"> • Fachkompetenz: Die Teilnehmenden sollen ausgewählte Themen aus der Rechnungslegung und Nachhaltigkeitsberichterstattung kapitalmarktorientierter Unternehmen vertiefend kennen lernen und ihre Bedeutung für die Praxis kritisch beurteilen können. Dabei vermittelt das Seminar den Teilnehmenden Zusammenhänge zwischen den verschiedenen Gebieten aus dem Finanz- und Rechnungswesen sowie Nachhaltigkeitsberichterstattung. Zudem erlangen die Teilnehmenden Kenntnisse im Verfassen wissenschaftlicher Arbeiten. Damit dient das Seminar als Übung für die Anfertigung der Masterarbeit. • Sozialkompetenz: Die Teilnehmenden sollen in der Lage sein, eine komplexe Aufgabe zu lösen und im Team ihre erarbeiteten Ergebnisse zu präsentieren (Arbeitsorganisation in der Gruppe, Übernahme von Verantwortung für Teilaufgaben, Zeitmanagement, Präsentationstechnik). 					
Inhalt/ Contents					
Im Seminar werden aktuelle Themen zu Finanz- und Rechnungswesen sowie Nachhaltigkeitsberichterstattung behandelt. Teilnehmende verfassen eine eigenständige Seminararbeit und stelle ihre Ergebnisse im Rahmen einer Gruppenpräsentation vor. Siehe detaillierter Syllabus für weitere Informationen. Seminararbeiten können auf Deutsch oder Englisch verfasst werden. Dieser Kurs umfasst u.a. eine schriftliche Hausarbeit die sich für die Accounting-Vertiefung des FAACT Masters qualifiziert.					
Lehrformen/ Teaching methods					
Seminar					
Prüfungsformen/ Mode of assessment					
Die Modulabschlussprüfung besteht in einer Hausarbeit. Es kann eine zusätzliche Studienleistung in Form einer mündlichen Präsentation erbracht werden, für die Bonuspunkte erworben werden können. Mit der Hausarbeit sind maximal 80 Punkte zu erreichen, durch die mündliche Prüfung zusätzlich maximal 20 Punkte. Die Modulnote ergibt sich sodann aus einer Punkteskala, die von Null bis 100 Punkte reicht. Erlangte Bonuspunkte haben keinen Einfluss auf das Prüfungsergebnis, wenn dieses ohne die Bonuspunkte „nicht bestanden“ (5,0) lautet.					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Kreditpunkte werden vergeben, wenn die Modulabschlussprüfung erfolgreich absolviert wurde.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)					
4,17 %					

Lernmaterialien und Literaturangaben/ Learning material and relevant literature

Alle Materialien werden über Moodle zur Verfügung gestellt.

Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)

Modulbeauftragte/r: Prof. Dr. Martin Nienhaus

Lehrende: Prof. Dr. Martin Nienhaus

Advanced Seminar Financial Accounting

Wertorientiertes Controlling					
Value based Management Accounting					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
074 000	5 CP	150 h	1.-3. Semester	Winter	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
a) Vorlesung b) Übung			Vorlesung: 2 SWS Übung: 2 SWS	105 h	60
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
Deutsch					
Anmeldeverfahren/ Registration					
Die (freiwillige) Kursanmeldung erfolgt über die Lernplattform Moodle der Ruhr-Universität, die Anmeldung zur Prüfung über FlexNow innerhalb der vom Prüfungsamt bekanntgegebenen Fristen.					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc.					
<ul style="list-style-type: none"> • Wahlmodul / Elective module 					
Management and Economics MSc.					
<ul style="list-style-type: none"> • Controlling • General Management 					
Finance, Accounting, Auditing, Controlling, & Taxation MSc.					
<ul style="list-style-type: none"> • Kernbereich (25 ECTS) • Controlling • Wahlpflichtbereich 					
Sales Management MSc.					
<ul style="list-style-type: none"> • Wahlmodul (max. 20 ECTS) 					
Lernziele/ Learning targets					
Nach dem Besuch des Moduls sind die Studierenden befähigt, die Relevanz eines wertorientierten Controllings für die unternehmerische Praxis zu erläutern. Sie können für wesentliche Entscheidungssituationen die wertorientierten Implikationen bestimmen und analysieren, Optimierungspotentiale abschätzen und dazu auch geeignete wissenschaftliche Studienergebnisse interpretieren. Die Studierenden sind ferner in der Lage, die Verhaltensimplikationen von Systemen zur Performancemessung sowie von Anreizsystemen zu erklären, zu demonstrieren und deren Gestaltung zu optimieren. Schließlich werden die Studierenden befähigt, neuere Erkenntnisse der Controlling-Forschung auf diese Überlegungen zu transferieren.					
Inhalt/ Contents					
<ul style="list-style-type: none"> • Unternehmenswertmaximierung und Ansätze zur Operationalisierung • Effizienz • Working Capital Management • Mergers & Acquisitions • Nutzen der Fremdfinanzierung • Anreizsysteme 					
Lehrformen/ Teaching methods					
Vorlesung, Übung					
Prüfungsformen/ Mode of assessment					
Die Modulabschlussnote ergibt sich aus der Note der Modulabschlussklausur.					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Kreditpunkt werden vergeben, wenn die Modulabschlussprüfung erfolgreich absolviert wurde.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)					
4,17 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature					
Vorlesungs- und Übungsunterlagen. Diese werden in elektronischer Form über Moodle bereitgestellt.					
<ul style="list-style-type: none"> • Fischer, Thomas M./Möller, Klaus/Schultze, Wolfgang (2015): Controlling, 2. Auflage, Stuttgart. • Horváth, Péter/Gleich, Ronald/Seiter, Mischa (2019): Controlling, 14. Auflage, München. 					

- Küpper, Hans-Ulrich/Friedl, Gunther/Hofmann, Christian/Hofmann, Yvette/Pedell, Burkhard (2013): Controlling, 6. Auflage, Stuttgart.
- Weber, Jürgen/Schäffer, Utz (2020): Einführung in das Controlling, 16. Auflage, Stuttgart.

Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)

Modulbeauftragte/r: Prof. Dr. Thorsten Knauer

Lehrende: Prof. Dr. Thorsten Knauer mit Assistentinnen und Assistenten

Wertorientiertes Controlling

Ausgewählte Probleme der Transformation der Energie- und Infrastruktursysteme**Selected problems of the transformation of energy and infrastructure systems**

Modul-Nr./ Module no. 075 280	Kreditpunkte/ Credit points 5 CP	Arbeitsaufwand/ Workload	Semester/ Term 1.-3. Semester	Turnus/ Frequency jedes Semester	Dauer/ Duration 1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study 150 h	Gruppengröße/ Group size
Unterrichtssprache/ Language Deutsch			Teilnahmevoraussetzungen/ Requirements Vorkenntnisse aus den M.Sc.-Modulen „Einführung in die Energiewirtschaft und das Energiewirtschaftsrecht“ und „Energierrecht“ sind wünschenswert.		
Anmeldeverfahren/ Registration Die (freiwillige) Kursanmeldung erfolgt über die Lernplattform Moodle der Ruhr-Universität, die Anmeldung zur Prüfung über FlexNow innerhalb der vom Prüfungsamt bekanntgegebenen Fristen.					
Verwendung des Moduls/ Module application Global Sustainability Economics MSc. <ul style="list-style-type: none"> • Elective module Economic Policy Consulting MSc. <ul style="list-style-type: none"> • Umweltmanagement, Ressourcen und Energie • Wahlmodul Management and Economics MSc. <ul style="list-style-type: none"> • Energie- & Umweltökonomik • General Economics • General Management Finance, Accounting, Auditing, Controlling & Taxation MSc. <ul style="list-style-type: none"> • Wahlmodul (max. 15 ECTS) Sales Management MSc. <ul style="list-style-type: none"> • Wahlmodul (max. 20 ECTS) 					
Lernziele/ Learning targets Die Teilnehmenden sollen unterschiedliche Problemfelder aus den Bereichen Energierrecht und -wirtschaft analysieren und mit dem Meinungsstand in Literatur und Rechtsprechung verknüpfen. Mögliche Entwicklungsperspektiven sollen diskutiert und einer eigenen kritischen Bewertung unterworfen werden. Idealerweise sind rechtspolitische Ziele bzw. Handlungsempfehlungen für Gesetzgebung und Gesetzesvollzug zu entwickeln.					
Inhalt/ Contents Das Seminar vertieft anhand aktueller und praxisrelevanter Fragestellungen den Stoff aus dem Modul „Einführung in die Energiewirtschaft und das Energiewirtschaftsrecht“.					
Lehrformen/ Teaching methods Blockseminar					
Prüfungsformen/ Mode of assessment Die Modulabschlussprüfung besteht aus einer Hausarbeit. Es können zusätzliche Studienleistungen in Form einer Präsentation erbracht werden, für die Bonuspunkte erworben werden können. In der Hausarbeit sind maximal 80 Punkte zu erreichen, durch die Präsentation zusätzlich maximal 20 Bonuspunkte. Die Modulnote ergibt sich aus sodann aus einer Punkteskala, die von Null bis 100 Punkte reicht. Die Bonuspunkte werden auch angerechnet, wenn die Modulabschlussprüfung ohne die Bonuspunkte nicht bestanden wäre.					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points Kreditpunkte werden vergeben, wenn die Modulabschlussprüfung erfolgreich absolviert wurde.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS) 4,17 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature Aus dem o.g. Modul „Einführung in die Energiewirtschaft und das Energiewirtschaftsrecht“; weitere Hinweise erfolgen in der Seminarvorbesprechung.					

Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)

Modulbeauftragte/r: Prof. Dr. Sven-Joachim Otto

Lehrende: Prof. Dr. Sven-Joachim Otto und Assistent:innen

Sonstige Informationen/ Further information

Die Seminarvorbesprechung sowie die Themenvergabe erfolgen stets in der ersten Vorlesung des Moduls „Einführung in die Energiewirtschaft und das Energiewirtschaftsrecht“.

Ausgewählte Probleme der Transformation der Energie- und Infrastruktursysteme

Bankenkrisen und -regulierung					
Banking Crises and Regulation of Financial Institutions					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
074 075	5 CP	150 h	1.-3. Semester	Sommer	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
a) Vorlesung b) Übung			Vorlesung: 2 SWS Übung: 1 SWS	116,25 h	
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
Deutsch			Kenntnisse aus den Wahlpflichtmodulen „Kapitalmarkttheorie“ und „Finanzielles Risikomanagement“ werden vorausgesetzt.		
Anmeldeverfahren/ Registration					
Die (freiwillige) Kursanmeldung erfolgt über die Lernplattform Moodle der Ruhr-Universität, die Anmeldung zur Prüfung über FlexNow innerhalb der vom Prüfungsamt bekanntgegebenen Fristen.					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc.					
<ul style="list-style-type: none"> • Wahlmodul / Elective module 					
Economic Policy Consulting MSc.					
<ul style="list-style-type: none"> • International and Spatial Economics 					
Management and Economics MSc.					
<ul style="list-style-type: none"> • Banking & Finance • General Management 					
Finance, Accounting, Auditing, Controlling, & Taxation MSc.					
<ul style="list-style-type: none"> • Finance • Wahlpflichtmodul (20 ECTS) • Wahlmodul (max. 15) 					
Sales Management MSc.					
<ul style="list-style-type: none"> • Wahlmodul (max. 20 ECTS) 					
Lernziele/ Learning targets					
Die Studierenden sollen					
<ul style="list-style-type: none"> • aus der Betrachtung von Finanzmarktkrisen ein Verständnis für bankbetriebliches Risikomanagement einerseits, und Bankenregulierung andererseits entwickeln, • vertiefte Einsichten in einzelne Risikokomplexe der Bank erhalten und • vor diesem Hintergrund die Aufsichtsnormen für Finanzdienstleister kritisch beurteilen können 					
Inhalt/ Contents					
<ul style="list-style-type: none"> • Finanzmarktkrisen als Begründung für Regulierung 					
o Krisen- und regulierungstheoretische Grundlagen o Anatomie „moderner“ Bankenkrisen					
<ul style="list-style-type: none"> • Analyse der bankaufsichtlichen Risikobegrenzungsnormen 					
o Neufassung der Bankenregulierung durch Basel II o Quantitative Normen, Basel III, Säule I o Qualitative Aufsicht, Basel III, Säule II o Vorschriften zur Risikopublizität und Marktdisziplinierung, Basel III, Säule III					
<ul style="list-style-type: none"> • Vorhaben zur Eindämmung von Systemrisiken • Reichweite und Organisation der Bankenaufsicht 					
Lehrformen/ Teaching methods					
Vorlesung und Übungen					
Prüfungsformen/ Mode of assessment					
Die Modulabschlussnote ergibt sich aus der Note der Modulabschlussklausur.					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Kreditpunkte werden vergeben, wenn die Modulabschlussprüfung erfolgreich absolviert wurde.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)					
4,17 %					

Lernmaterialien und Literaturangaben/ Learning material and relevant literature

- Als Grundlagenliteratur werden folgende Quellen empfohlen: • Admati, Anat / Hellwig, Martin (2025): The Bankers' New Clothes: What's Wrong with Banking and What to Do about It, Princeton.
- • Allen, Franklin/ Gale, Douglas (Eds.) (2008): Financial Crises, Cheltenham.
- • Barnichon, Regis/Matthes, Christian/Ziegenbein, Alexander (2018): The Financial Crisis at 10: Will We Ever Recover ?, FRBSF Economic Letter.
- • Bieg, Hartmut / Krämer, Gregor / Waschbusch, Gerd (2018): Bankenaufsicht in Theorie und Praxis, 5. Aufl., Frankfurt a. M. (4. Auflage: 81 P 610 / 123,4).
- • Bonn, Joachim K. (1998): Banken Krisen und Bankenregulierung, Wiesbaden.
- • Brealey, Richard/ Myers, Stewart C./ Allen, Franklin (2025): Principles of Corporate Finance, 15. Aufl., Boston u.a.
- • Deutsche Bundesbank (2011): Basel III – Leitfaden zu den neuen Eigenkapital- und Liquiditätsregeln für Banken. Frankfurt am Main.
- • Deutsche Bundesbank (2018): Die Fertigstellung von Basel III, Monatsbericht, Januar 2018.
- • Deutsche Bundesbank (2019): Das europäische Bankenpaket – Die Überarbeitung der EU-Bankenregulierung, Monatsbericht Juni 2019, Frankfurt am Main.
- • Freixas, Xavier / Santomero, Anthony M. (2003): An Overall Perspective on Banking Regulation, Economics and Business, Working Paper No. 664.
- • Gorton, Gary/ Winton, Andrew (2003): Financial Intermediation, in: Constantinides, George/ Harris, Milton/ Stulz, Rene (Eds.): The Handbook of the Economics of Finance: Corporate Finance, NBER Working Paper 8298.
- • Greenbaum, Stuart I./ Thakor, Anjan V. (2007): Contemporary Financial Intermediation, 2nd edition, Amsterdam u.a.
- • Hartmann-Wendels, Thomas/ Pfingsten, Andreas/ Weber, Martin (2019): Bankbetriebslehre, 7. Auflage, Berlin u.a.
- • Haselmann, Rainer/ Krahen, Jan/ Wahrenburg, Mark (2019): Evaluierung gesamt- und finanzwirtschaftlicher Effekte der Reformen europäischer Finanzmarktregulierung im deutschen Finanzsektor seit der Finanzkrise, SAFE Policy Report No. 1, Frankfurt.
- • Koch, Timothy W./ MacDonald, S. Scott (2010): Bank Management, 7th ed., Mason, OH u.a.
- • Kotlikoff, Laurence J. (2018): The Big Con – Reassessing The "Great" Recession And Its "Fix", Working Paper, National Bureau Of Economic Research.
- • Oehler, Andreas/ Unser, Matthias (2002): Finanzwirtschaftliches Risikomanagement, 2. Aufl., Berlin u.a.
- • Paul, Stephan (2011): Mehrere Beiträge in Hofmann, Gerhard (Hrsg.): Basel III und MaRisk, Frankfurt/M.
- • Paul, Stephan et al. (2025): Bankpolitik – Eine marktorientierte Einführung, Stuttgart.
- • Reinhart, Carmen / Rogoff, Kenneth (2010): Dieses Mal ist alles anders: Acht Jahrhunderte Finanzkrisen, München.
- • Schierenbeck, Henner / Lister, Michael / Kirmße, Stefan (2008): Ertragsorientiertes Bankmanagement: Band 2: Risiko-Controlling und integrierte Rendite-/Risikosteuerung, 9. Auflage, Wiesbaden.
- • Tirole, Jean (2006): The Theory of Corporate Finance, Princeton u.a.

Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)

Modulbeauftragte/r: Prof. Dr. Stephan Paul

Lehrende: Prof. Dr. Stephan Paul und Assistentinnen und Assistenten

Bankenkrisen und -regulierung

Data Science in Finance					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
074 077	10 CP	300 h	1.-3. Semester	Sommer	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Blockveranstaltung			Blockveranstaltung: 3 SWS	116,25 h	15
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
Deutsch					
Anmeldeverfahren/ Registration					
Die (freiwillige) Kursanmeldung erfolgt über die Lernplattform Moodle der Ruhr-Universität, die Anmeldung zur Prüfung über FlexNow innerhalb der vom Prüfungsamt bekanntgegebenen Fristen.					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc.					
<ul style="list-style-type: none"> • Wahlmodul / Elective module 					
Management and Economics MSc.					
<ul style="list-style-type: none"> • Banking & Finance • Data Science & Quantitative Analysis • General Management 					
Finance, Accounting, Auditing, Controlling, & Taxation MSc.					
<ul style="list-style-type: none"> • Finance • Wahlpflichtmodul (20 ECTS) 					
Sales Management MSc.					
<ul style="list-style-type: none"> • Wahlmodul (max. 20 ECTS) 					
Lernziele/ Learning targets					
Die Studierenden sollten					
<ul style="list-style-type: none"> • ein vertieftes Verständnis über die Anwendung von Programmiersprachen zur Datenanalyse in der Kreditwirtschaft erlangen, • lernen, strukturierte Lösungsansätze für praxisrelevante Problemstellungen zu entwickeln, • einen Überblick über die Programmiersprache Python sowie deren wichtigsten Data Science Bibliotheken erhalten • und vor dem Hintergrund stetig steigender Datenmengen Best Practice Ansätze zur effizienten Analyse, Auswertung und Visualisierung quantitativer und qualitativer Daten kennenlernen. 					
Inhalt/ Contents					
<ul style="list-style-type: none"> • Motivation zur Nutzung von Programmiersprachen vor dem Hintergrund steigender Datenmengen • Einführung zu elementaren Datentypen sowie Standardrechenoperationen der Programmiersprache Python • Einführung in Funktionen, typische Datenstrukturen, Klassen und Objekte • Regular Expressions und die Analyse qualitativer Daten • Einführung in wichtige Python Bibliotheken für Data Science zur Analyse, Auswertung und Visualisierung umfangreicher Datensätze • Einführung in Natural Language Processing und Machine Learning • Bearbeitung konkreter Anwendungsbeispiele aus den Bereichen Anti-Financial Crime und Compliance in Kooperation mit einem Praxispartner 					
Lehrformen/ Teaching methods					
Blockveranstaltung (integrierte Vorlesungen und Übung)					
Prüfungsformen/ Mode of assessment					
Die Modulabschlussnote ergibt sich aus der Note einer Projektarbeit.					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Kreditpunkte werden vergeben, wenn die Modulabschlussprüfung erfolgreich absolviert wurde.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)					
4,17 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature					
Als Grundlagenliteratur werden folgende Quellen empfohlen:					

- Deitel, Paul J./Harvey Deitel M. (2021): Intro to Python for Computer Science and Data Science: Learning to Program with AI, Big Data and The Cloud

Weitere Literaturhinweise erfolgen in der ersten Veranstaltung.

Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)

Modulbeauftragte/r: Prof. Dr. Stephan Paul

Lehrende: Prof. Dr. Stephan Paul mit Assistentinnen und Assistenten

Data Science in Finance

Finanzwissenschaft und Regionalökonomik: Forschungsseminar Research Seminar in Public and Regional Economics					
Modul-Nr./ Module no. -	Kreditpunkte/ Credit points 5 CP	Arbeitsaufwand/ Workload 150 h	Semester/ Term 1.-3. Semester	Turnus/ Frequency jedes Semester	Dauer/ Duration 1 Semester
Lehrveranstaltungen/ Courses Selbststudium			Kontaktzeit/ Contact time Selbststudium: 1 SWS	Selbststudium/ Self-study 139 h	Gruppengröße/ Group size 20
Unterrichtssprache/ Language Deutsch			Teilnahmevoraussetzungen/ Requirements		
Anmeldeverfahren/ Registration Eine Anmeldung ist bei verfügbaren Themen jederzeit, auch in den Semesterferien, möglich.					
Verwendung des Moduls/ Module application Global Sustainability Economics MSc. <ul style="list-style-type: none"> • Wahlmodul / Elective module Economic Policy Consulting MSc. <ul style="list-style-type: none"> • Wahlmodul Management and Economics MSc. <ul style="list-style-type: none"> • General Economics Finance, Accounting, Auditing, Controlling & Taxation MSc. <ul style="list-style-type: none"> • Wahlmodul (max. 15 ECTS) Sales Management MSc, <ul style="list-style-type: none"> • Wahlmodul (max. 20 ECTS) 					
Lernziele/ Learning targets Erfolgreiche Teilnahme an mindestens einem Mastermodul des Lehrstuhls.					
Inhalt/ Contents Im Forschungsseminar zur Finanzwissenschaft und Regionalökonomik nehmen Studierende an aktuellen Forschungsaktivitäten des Lehrstuhls teil. Sie sollen dabei innerhalb eines abgegrenzten Teilbereichs Forschungsergebnisse klassifizieren und gliedern, die gefundenen Ergebnisse vergleichend kritisieren und die Relevanz der Ergebnisse abschätzen. Die Studierenden sollen im Idealfall eigene Lösungsvorschläge für Forschungsfragen entwickeln und verteidigen können.					
Lehrformen/ Teaching methods Selbststudium					
Prüfungsformen/ Mode of assessment Die Modulabschlussnote ergibt sich aus der Note einer schriftlichen Hausarbeit.					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points Kreditpunkte werden vergeben, wenn die Modulabschlussprüfung erfolgreich absolviert wurde.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS) 4,17 %					
Lernmaterialien und Literaturangaben/ Learning material and relevant literature Lernmaterialien und Literatur werden individuell vereinbart.					
Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s) Modulbeauftragte/r: Prof. Dr. Thushyanthan Baskaran Lehrende: Prof. Dr. Thushyanthan Baskaran mit Assistentinnen und Assistenten					
Sonstige Informationen/ Further information Das Forschungsseminar findet kontinuierlich statt. Soweit Themen und Plätze vorhanden sind, ist ein Einstieg in das Seminar jederzeit, auch in den Semesterferien, möglich. Bei Erbringung der Prüfungsleistung zwischen dem 01.03. und 30.08. eines Jahres wird das Seminar dem Sommersemester zugerechnet, ansonsten dem Wintersemester.					

Projektseminar Future Skills					
Project seminar Future Skills					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 260	5 CP	150 h	1.-3. Semester	unregelmäßig	Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Projektseminar			Projektseminar: 2 SWS	90 h	
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
Deutsch					
Anmeldeverfahren/ Registration					
Die (freiwillige) Kursanmeldung erfolgt über Moodle bzw. in der ersten Sitzung. Die Anmeldung zur Prüfung erfolgt über FlexNow innerhalb der vom Prüfungsamt bekanntgegebenen Fristen. Je nach Studienfach gelten die fakultätsspezifischen Anmeldemodalitäten.					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc.					
<ul style="list-style-type: none"> • Wahlmodul / Elective module 					
Economic Policy Consulting MSc.					
<ul style="list-style-type: none"> • Entrepreneurship, Innovation und Transformation • Umweltmanagement, Ressourcen und Energie • Wahlmodul 					
Management and Economics MSc.					
<ul style="list-style-type: none"> • Entrepreneurship, Innovation & Transformation • General Economics • General Management 					
Finance, Accounting, Auditing, Controlling & Taxation MSc.					
<ul style="list-style-type: none"> • Wahlmodul (max. 15 ECTS) 					
Sales Management MSc.					
<ul style="list-style-type: none"> • Wahlmodul (max. 20 ECTS) 					
Lernziele/ Learning targets					
Studierende sollen sogenannte Future Skills erwerben. Das sind „Kompetenzen, die es Individuen erlauben in hochemergenten Handlungskontexten selbstorganisiert komplexe Probleme zu lösen und (erfolgreich) handlungsfähig zu sein. Sie basieren auf kognitiven, motivationalen, volitionalen sowie sozialen Ressourcen, sind wertebasiert, und können in einem Lernprozess angeeignet werden“ (Ehlers 2020, S. 57). Future Skills kann man unterscheiden in					
<ul style="list-style-type: none"> • entwicklungsbezogene (z.B. Selbstkompetenz, Entscheidungskompetenz, ethische Kompetenz), • objektbezogene (z.B. Innovationskompetenz, Systemkompetenz, Digital-Kompetenzen) und • organisationsbezogene Skills (z.B. Kooperationskompetenz, Zukunfts- und Gestaltungskompetenz). 					
Der Fokus des Moduls liegt stärker auf dem Kompetenz- als dem Wissenserwerb. Die genannten Kompetenzen werden anhand eines Praxisprojekts erworben. Besondere Lernziele sind die effektive Zusammenarbeit in (digitalen) Teams, die Erfahrung von Selbstwirksamkeit und die Kommunikationskompetenz.					
Inhalt/ Contents					
Die Inhalte des Moduls wechseln von Semester zu Semester. Sie bauen auf dem Wissen auf, das in anderen Lehrveranstaltungen des Lehrstuhls vermittelt wurde, z.B. in den Modulen „Macroeconomics & Sustainability“ oder „Complexity Economics and Agent-based Modeling“. Das jeweilige Semesterprojekt steht im engen Zusammenhang mit den Forschungs- und Transferaktivitäten des Lehrstuhls. Details zum Inhalt des Projekts werden in der jeweils aktuellen Kursankündigung bekanntgegeben.					
Lehrformen/ Teaching methods					
Selbststudium, Austausch und Zusammenarbeit mit Dozenten, sowie universitätsexternen und universitätsinternen Beteiligten für Analysen, Reflexionseinheiten, projektorientiertes Arbeiten in Kleingruppen, praktische Übungen, Präsentation					
Prüfungsformen/ Mode of assessment					
Die Modulabschlussprüfung besteht aus einer benoteten Projektarbeit.					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Kreditpunkte werden vergeben, wenn die Modulabschlussprüfung erfolgreich absolviert wurde.					

Lernmaterialien und Literaturangaben/ Learning material and relevant literature

Ehlers, U.D. (2020). Future Skills – Lern der Zukunft – Hochschule der Zukunft. Wiesbaden: Springer VS. Weitere Materialien werden im Moodle-Kurs zur Verfügung gestellt.

Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)

Modulbeauftragte/r: Prof. Dr. Michael Roos

Lehrende: Prof. Dr. Michael Roos und Mitarbeiter:innen

Sonstige Informationen/ Further information

Nächster Termin: SoSe 2025

Projektseminar Future Skills

Spring School „Digitalisierung und Entrepreneurship“**Spring School „Digitization and Entrepreneurship“**

Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
-	5 CP	150 h	1.-3. Semester	Winter	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Selbststudium und Blockveranstaltung			Selbststudium und Blockveranstaltung: 4 SWS	90 h	30
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
Deutsch			Interesse an unternehmerischem Denken und Handeln, Gründungen und Start-Ups, „Hands-On-Mentalität“.		

Anmeldeverfahren/ Registration

Die Bewerbung erfolgt per Mail mit Transcript, Motivationsschreiben und Lebenslauf. Die Anmeldung zur Prüfung erfolgt über FlexNow innerhalb der im moodle-Kurs angegebenen Fristen.

Verwendung des Moduls/ Module application**Global Sustainability Economics MSc.**

- Wahlmodul / Elective module

Economic Policy Consulting MSc.

- Wahlmodul

Management and Economics MSc.

- Entrepreneurship, Innovation & Transformation

Finance, Accounting, Auditing, Controlling & Taxation MSc.

- Wahlmodul (max. 15 ECTS)

Sales Management MSc.

- Wahlmodul (max. 20 ECTS)

Lernziele/ Learning targets

Nach erfolgreicher Modulteilnahme sind die Studierenden befähigt, Geschäftsideen unter Einbeziehung unterschiedlicher (fachlicher) Perspektiven im Team weiterzuentwickeln und zu testen. In dem Zusammenhang können sie die verwendeten Methodiken benennen, erläutern und anwenden. Sie können Primärdaten erheben und ggf. Sekundärdaten für Marktanalysen einsetzen. Abschließend lernen die Studierenden zudem, ihre entwickelten Geschäftsmodelle vor Fachpublikum zu pitchen und zu diskutieren. Darüber hinaus erlernen Sie durch das Arbeiten im Team, ihre soziale Kompetenz hinsichtlich Teamfähigkeit, Konfliktlösungspotenzial und Kommunikationsfähigkeit zu erproben und zu erweitern.

Inhalt/ Contents

Das Modul findet zu wechselnden Oberthemen statt. Die Studierenden beschäftigen sich in interdisziplinären Teams ideen- und lösungsorientiert mit Unternehmensgründungen auf der Basis von Themenstellungen aus der Praxis. Zum Abschluss pitchen die Teams ihre Gründungsidee und ihr Geschäftsmodell, so wie es in der Berufswelt und bei der Investorensuche heute alltäglich ist. Die Methodik der Spring School entspricht den Bedarfen des Arbeitsmarktes, da in Unternehmen immer stärker agile Projektmanagementtechniken angewendet werden, die eine aktive Kommunikation unabhängig von den eigentlichen Professionen erfordern.

Lehrformen/ Teaching methods

Selbststudium im Rahmen von Blended Learning, Austausch und Zusammenarbeit mit Dozent*innen und Gruppenmitgliedern sowie universitätsexternen und universitätsinternen Beteiligten für Analysen, projektorientiertes Arbeiten in Kleingruppen, praktische Anwendungen, Präsentation.

Prüfungsformen/ Mode of assessment

Die Abschlussprüfung erfolgt in Form eines Pitches. Die Gesamtnote setzt sich aus einer Gruppen- und einer Einzelnote zusammen.

Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points

Durchgängige Anwesenheit in der Veranstaltung. Die Kreditpunkte werden für erfolgreiche Bestehen des Pitches vergeben.

Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)

4,17 %

Lernmaterialien und Literaturangaben/ Learning material and relevant literature

Die Lernmaterialien werden bei Annahme über den moodle-Kurs des Moduls bereitgestellt.

Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)

Modulbeauftragte/r: Prof. Dr. Werbeck

Lehrende: Prof. Dr. Nicola Werbeck/Dr. Thomas Ebben und Mitarbeiter:innen

Sonstige Informationen/ Further information

Die Kursankündigung, Hinweise zur Bewerbung sowie die Zugangsdaten zum moodle-Kurs erfolgen über die Website der Professur für Umwelt- und Innovationspolitik von Frau Prof. Werbeck. Aufgrund er Inhalte ist je nach Studiengang die Wahl einer Anrechnung als BWL- oder VWL-Modul möglich. Eine mehrmalige Teilnahme bei erfolgreichem Bestehen ist ausgeschlossen. Ebenso ist es nicht möglich teilzunehmen, wenn das „Innovation & Entrepreneurship Micro Credential“ absolviert wurde.

Spring School „Digitalisierung und Entrepreneurship“

Einführung in die Energiewirtschaft und das Energiewirtschaftsrecht					
Key issues of energy law and industry					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
075 280	5 CP	150 h	1.-3. Semester	Sommer	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Vorlesung			Vorlesung: 2 SWS	127,5 h	80
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
Deutsch			Vorkenntnis aus den wirtschaftsrechtlichen Bachelormodulen sind wünschenswert.		
Anmeldeverfahren/ Registration					
Die (freiwillige) Kursanmeldung erfolgt über die Lernplattform Moodle der Ruhr-Universität, die Anmeldung zur Prüfung über FlexNow innerhalb der vom Prüfungsamt bekanntgegebenen Fristen.					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc					
<ul style="list-style-type: none"> • Elective module 					
Economic Policy Consulting MSc.					
<ul style="list-style-type: none"> • Umweltmanagement, Ressourcen und Energie • Wahlmodul 					
Management and Economics MSc.					
<ul style="list-style-type: none"> • Energie- & Umweltökonomik • General Economics • General Management 					
Finance, Accounting, Auditing, Controlling, & Taxation MSc.					
<ul style="list-style-type: none"> • Wahlmodul (max. 15-20 ECTS) 					
Sales Management MSc.					
<ul style="list-style-type: none"> • Wahlmodul (max. 20-25 ECTS) 					
Lernziele/ Learning targets					
Die Teilnehmenden sollen energierechtliche Grundlagen kennenlernen. Dabei sollen diese auf Problemlagen bezogen und zwischen verschiedenen gesetzlichen Regelungen differenziert werden. Dazu sollen die Teilnehmenden einen Einblick in verschiedene aktuelle politische und wirtschaftliche aber auch rechtliche Konstellationen erhalten. Insoweit ist auch die aktuelle Rechtsprechung in der Vorlesung zu berücksichtigen und ggfs. kritisch zu würdigen. Gleichzeitig sind, gerade im Zuge der hoch dynamisch verlaufenden Energiewende, einzelnen gesetzlichen Regelungen unter verschiedenen Aspekten kritisch zu hinterfragen und rechtspolitische Aspekte zu berücksichtigen und diskutieren. Den Studierenden soll ein Eindruck vermittelt werden, welche Aspekte der dynamischen Energiewende und Energiewirtschaft als problembehaftet, aber auch zukunfts tragend einzuordnen sind. Ein Fokus liegt dabei auf den verschiedenen Strukturen des Energierechts auf internationaler aber auch nationaler Ebene.					
Inhalt/ Contents					
Die Vorlesung thematisiert aktuelle rechtliche und ökonomische Fragen der Energiewirtschaft unter Berücksichtigung der Energiewende in Deutschland. Dabei wird ein Überblick über das Energierecht in verschiedensten Facetten vermittelt. Vertiefend wird auf Praxisbeispiel Bezug genommen. Leitfrage der Vorlesung ist, wie sich Energieunternehmen unter den ständig wandelnden Rahmenbedingungen am Markt positionieren und organisieren können bzw. welche neuen Beteiligungsformen sich anbieten. Auch wird berücksichtigt, wie Unternehmen auf Änderungen reagieren können. Dazu werden die rechtlichen Vorgaben und die aktuelle Rechtsprechung in Bezug genommen und gesetzt.					
Lehrformen/ Teaching methods					
Vorlesung					
Prüfungsformen/ Mode of assessment					
Die Modulabschlussprüfung besteht aus einer schriftlichen Klausur.					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Kreditpunkte werden vergeben, wenn die Modulabschlussprüfung erfolgreich absolviert wurde.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)					

4,17 %

Lernmaterialien und Literaturangaben/ Learning material and relevant literature

Hinweise zu den einschlägigen Rechtsnormen sowie zur Ausbildungs- und Vertiefungsliteratur erfolgen in den jeweiligen Veranstaltungen.

Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)

Modulbeauftragte/r: Prof. Dr. Sven-Joachim Otto

Lehrende: Prof. Dr. Sven-Joachim Otto

Einführung in die Energiewirtschaft und das Energiewirtschaftsrecht

Wirtschaftsrecht II					
Law of Economics II					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
074 111	5 CP	300 h	1.-3. Semester	Sommer	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
a) Vorlesung Kartellrecht b) Vorlesung Deutsches und internationales Handels- und Gesellschaftsrecht			a) 2 SWS b) 2 SWS	255 h	50
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
Deutsch			Vorkenntnisse aus der Vorlesung „Grundlagen des Wirtschaftsrechts“ und den BA-Modulen „Internationales und deutsches Wirtschaftsrecht I/II“ sind wünschenswert.		
Anmeldeverfahren/ Registration					
Die (freiwillige) Kursanmeldung erfolgt über die Lernplattform Moodle der Ruhr-Universität, die Anmeldung zur Prüfung über FlexNow innerhalb der vom Prüfungsamt bekanntgegebenen Fristen.					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc.					
<ul style="list-style-type: none"> • Elective module 					
Economic Policy Consulting MSc.					
<ul style="list-style-type: none"> • Wahlmodul 					
Management and Economics MSc.					
<ul style="list-style-type: none"> • General Economics • General Management 					
Finance, Accounting, Auditing, Controlling, & Taxation MSc.					
<ul style="list-style-type: none"> • Wahlmodul (max. 15-20 ECTS) 					
Sales Management MSc.					
<ul style="list-style-type: none"> • Wahlmodul (max. 20-25 ECTS) 					
Lernziele/ Learning targets					
Die Teilnehmer sollen unterschiedliche Lebenssachverhalte differenzieren und einschlägige rechtliche Regelungen zuordnen können. Zudem sollen die Teilnehmer die gesetzlichen Tatbestände benennen und definieren, um näher zu prüfen, ob sich der jeweilige Lebenssachverhalt unter eine bestimmte Regelung subsumieren lässt. Insoweit ist auch das Skizzieren einschlägiger Rechtsprechung sowie eine kritische Würdigung dieser vorzunehmen. Im Vordergrund steht somit, abstrakte Regelungen auf eine Vielzahl von Lebenssachverhalten anzuwenden, indem rechtliche, teilweise streitige Materien erarbeitet werden, um ggfs. neue Lösungsansätze entwickeln zu können.					
Inhalt/ Contents					
Die Vorlesung Kartellrecht umfasst schwerpunktmäßig und im Allgemeinen das deutsche und europäische Kartellrecht. Hierbei werden vor allem die drei „Säulen“ des Kartellrechts, nämlich Kartelle als grundsätzlich verbotene horizontale und vertikale Unternehmensvereinbarungen sowie die Ausnahmen vom Kartellverbot, die Missbrauchskontrolle und die Fusionskontrolle behandelt. Kollisionen zwischen Gesellschafts- und Kartellrecht sind ebenso Gegenstand der Veranstaltung wie die Fragen privater Rechtsdurchsetzung durch betroffene Unternehmen. Darüber hinaus werden Zuständigkeiten und Maßnahme Möglichkeiten der deutschen und europäischen Kartellbehörden behandelt. Schwerpunkt der Vorlesung Deutsches und internationales Handels- und Gesellschaftsrecht sind beim Handelsrecht der Kaufmannsbegriff, die Firma, die handelsrechtlichen Vertretungsmöglichkeiten, das Handelsregister, die speziellen handelsrechtlichen Vertragsarten und Vertragsverhältnisse nach CISG und anderen internationalen Regelungen. Organisationsformen, Gründungsaufwand, Geschäftsführungs- und Vertretungsregeln sowie die unterschiedlichen Haftungskonstellationen bilden unter Einbeziehung exemplarischer internationaler Gesellschaftsformen den Schwerpunkt des gesellschaftsrechtlichen Teils der Vorlesung.					
Lehrformen/ Teaching methods					
Vorlesung					
Prüfungsformen/ Mode of assessment					
Die Modulabschlussprüfung besteht aus einer schriftlichen Klausur.					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Kreditpunkte werden vergeben, wenn die Modulabschlussprüfung erfolgreich absolviert wurde.					

Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)

4,17 %

Lernmaterialien und Literaturangaben/ Learning material and relevant literature

Obligatorische Gesetzestexte und ergänzende Literatur werden jeweils in der ersten Sitzung vorgestellt.

Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)

Modulbeauftragte/r: Dr. Hoffmann

Lehrende: Dr. Hoffmann und Assistentinnen und Assistenten

Sonstige Informationen/ Further information

Ergänzend wird der Besuch der Module „Recht der öffentlichen Versorgung“ und „Wirtschaftsrecht IV“ empfohlen.

Wirtschaftsrecht II

Wirtschaftsrecht IV					
Law of Economics IV					
Modul-Nr./ Module no.	Kreditpunkte/ Credit points	Arbeitsaufwand/ Workload	Semester/ Term	Turnus/ Frequency	Dauer/ Duration
074 122	5 CP	150 h	1.-3. Semester	Sommer	1 Semester
Lehrveranstaltungen/ Courses			Kontaktzeit/ Contact time	Selbststudium/ Self-study	Gruppengröße/ Group size
Vorlesung			2 SWS	150 h	10
Unterrichtssprache/ Language			Teilnahmevoraussetzungen/ Requirements		
Deutsch			Vorkenntnisse aus der Vorlesung „Grundlagen des Wirtschaftsrechts“, den B.Sc.-Modulen „Internationales und deutsches Wirtschaftsrecht I/II“ sowie dem M.Sc.-Modul „Wirtschaftsrecht I“ sind wünschenswert.		
Anmeldeverfahren/ Registration					
Die (freiwillige) Kursanmeldung erfolgt über die Lernplattform Moodle der Ruhr-Universität, die Anmeldung zur Prüfung über FlexNow innerhalb der vom Prüfungsamt bekanntgegebenen Fristen.					
Verwendung des Moduls/ Module application					
Global Sustainability Economics MSc.					
<ul style="list-style-type: none"> • Elective module 					
Economic Policy Consulting MSc.					
<ul style="list-style-type: none"> • Umweltmanagement, Ressourcen und Energie • Wahlmodul 					
Management and Economics MSc.					
<ul style="list-style-type: none"> • Energie- & Umweltökonomik • General Economics • General Management 					
Finance, Accounting, Auditing, Controlling, & Taxation MSc.					
<ul style="list-style-type: none"> • Wahlmodul (max. 15-20 ECTS) 					
Sales Management MSc.					
<ul style="list-style-type: none"> • Wahlmodul (max. 20-25 ECTS) 					
Lernziele/ Learning targets					
Die Teilnehmer sollen unterschiedliche rechtsökonomische Problemfelder analysieren und mit dem Meinungsstand in Literatur und Rechtsprechung verknüpfen. Mögliche Entwicklungsperspektiven sollen diskutiert und einer eigenen kritischen Bewertung unterworfen werden. Dabei sollen rechtpolitische Überlegungen und Ziele mit in die Überlegungen einfließen.					
Inhalt/ Contents					
Das Seminar vertieft anhand aktueller und praxisrelevanter Fragestellungen den Stoff aus den Vorlesungen zum Modul Wirtschaftsrecht II (Kartellrecht, Internationales Handels- und Gesellschaftsrecht).					
Lehrformen/ Teaching methods					
Hausarbeit					
Prüfungsformen/ Mode of assessment					
Die Modulabschlussprüfung besteht aus einer Hausarbeit. Abschließend findet ein Seminartag statt, an welchem alle Hausarbeiten im Rahmen einer kurzen Präsentation vorgestellt werden.					
Voraussetzungen für die Vergabe von Kreditpunkten/ Requirements for the award of credit points					
Kreditpunkte werden vergeben, wenn die Modulabschlussprüfung erfolgreich absolviert wurde.					
Stellenwert der Note für die Endnote (bei einem Gesamtstudienumfang von 120 ECTS)/ Weight of the mark for the final score (based on a required coursework of 120 ECTS)					
4,17 %					
Modulbeauftragte/r und hauptamtlich Lehrende/ Module coordinator(s) and lecturer(s)					
Modulbeauftragte/r: Dr. Hoffmann					
Lehrende: Dr. Hoffmann und Assistentinnen und Assistenten					