

# English Course Catalogue

Department of Business and  
Economics

TU Dortmund University

**Winter 2022/2023**

**Erasmus Departmental Coordinator**

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## Bachelor Courses - Winter Term 2022/2023

### General Notes and Guidelines:

- Most courses offer 7.5 Credit Points – Credit Points can be found in the course description.
- If there are no further restrictions mentioned, exchange students may take both Bachelor and Master courses regardless of the study level at their home university.
- In the case of lectures/exercises, there are usually no restrictions regarding the capacities and individual requirements.
- Seminars and courses with separate application/registration processes cannot be confirmed in advance (contact the departmental coordinator before your stay).
- The examination period usually takes place in the first three weeks after the lecture period (for the winter semester in February and for the summer semester in August). Please take this into consideration for planning your travel dates.
- In general, the curriculum for the summer and winter semesters is the same each year. However, there may be slight changes in the course program (due to organizational changes etc.)
- Up-to-date overview can be found here: <https://wiwi.tu-dortmund.de/en/international/international-students/incoming-exchange-students/before-your-stay/english-course-catalog-winter-semester-1/>

**Department:** Department of Business and Economics

**Contact:** Dr. Debra Hanning, [Erasmus.WiWi@tu-dortmund.de](mailto:Erasmus.WiWi@tu-dortmund.de)

**Degree program:** Bachelor

**Course type:** Lecture and Exercise

**Credit Points:** 7,5

**Professorship:** Digital Transformation

**Requirements:** none

**Course description:**

Proliferation and dramatically fast developments of information technology continue to increase the importance of digital business models in today's economy. At the core of this information economy are information goods, which are exchanged on digital markets. In this course, students will learn about designing such information goods for the information economy. In particular, this course will cover the fundamental characteristics of information goods, including price and cost structure as well as versioning and rights management. Based on these characteristics, different types of digital markets, such as e-commerce, search, auctions, and multi-sided markets including platforms, will be covered. Finally, this course will discuss how organizations can act on digital markets given requirements imposed by policies, standards, and regulations.

**Competences**

After completion of this course, students will be able to analyze organizations that use digital business models. They understand the specific characteristics of information goods and can describe different forms of digital markets. Students will be able to analyze strategies for designing information products for digital markets, considering regulatory and industry requirements. The concepts covered in the lectures will be applied to a practical example in the accompanying case exercise.

<https://dt.wiwi.tu-dortmund.de/en/teaching/lectures/winter-term-2022-23/bachelor-digital-business/>

**Proofs of academic achievement:**

Module examination, consisting of an oral exam (20 minutes) or a graded written exam (60 minutes) (counts for 60 % of the grading), both of them in combination with the preparation and presentation of case studies (count for 40 % of the grading) (mode will be announced in time).

Innovation and Growth Management

Language: English

**Department:** Faculty of Business and Economics

**Contact:** Dr. Debra Hanning, [Erasmus.WiWi@tu-dortmund.de](mailto:Erasmus.WiWi@tu-dortmund.de), +49 (0) 2317555278

**Degree program:** Bachelor

**Course type:** Lecture + Exercise

**Credit Points:** 7,5

**Teacher/Lecturer:** Prof. Dr. Steffen Strese

**Requirements:** -none-

**Course description:**

Companies should regularly adapt their future strategy since technological, societal, or economic forces may lead to the decline of entire industries or to the advent of completely new businesses. This lecture addresses this challenge and presents various tools which companies can apply in order to detect future innovation and growth opportunities for long-term survival. This includes customer-related tools, environment-related tools, and firm-related tools. Among others, the technology-opportunity matrix, big data approach, and innovation crowdsourcing will be discussed and applied in detail. The lecture builds on current insights from both academic and practitioner literature.

**Competences:**

Students receive an in-depth understanding of why innovation and growth management is crucial for the long-term survival of companies. They learn where opportunities for innovation and growth originate from. Moreover, they will get acquainted with the most important and most recent tools to detect such opportunities. Last, students learn how to evaluate and prioritize interesting innovation and growth opportunities.

<https://im.wiwi.tu-dortmund.de/en/teaching/summer-term/course-2-2-1-1/>

**Proofs of academic achievement:** Written and graded exam covering the entire module (90 minutes)

International Management

Language: English

**Department:** Faculty of Business and Economics

**Contact:** Dr. Debra Hanning, [Erasmus.WiWi@tu-dortmund.de](mailto:Erasmus.WiWi@tu-dortmund.de), +49 (0) 2317555278

**Degree program:** Bachelor

**Course type:** Lecture + Exercise

**Credit Points:** 7,5

**Teacher/Lecturer:** Prof. Dr. Lorenz Graf-Vlachy

**Requirements:** -none-

**Course description:**

This module discusses the foundational concepts of international management. It covers various issues related to globalization, formal institutions of different countries (i.e., economic, political, and legal systems), informal institutions (such as culture and languages), firms' foreign investment options, as well as internationalization and market entry strategies. It further addresses the challenges of crafting strategy in an international context, as well as implementation-related issues like organization structures of multinational companies.

**Competences**

By completing in this module, students become acquainted with the basic concepts and tools of international management. The exercises will allow students to deepen their understanding of said concepts and tools and appreciate their utility and limitations.

<https://uf.wiwi.tu-dortmund.de/en/teaching/winter-term/international-management/>

**Proofs of academic achievement:** Written and graded exam covering the entire module (90 minutes).

Role of the Government

Language: English

**Department:** Faculty of Business and Economics

**Contact:** Dr. Debra Hanning, [Erasmus.WiWi@tu-dortmund.de](mailto:Erasmus.WiWi@tu-dortmund.de), +49 (0) 2317555278

**Degree program:** Bachelor

**Course type:** Lecture + Exercise

**Credit Points:** 7,5

**Teacher/Lecturer:** Prof. Galina Zudenkova, Ph.D.

**Requirements:** -none-

**Course description:**

This course focuses on the role of the government in the economy. The aim is to provide an understanding of the reasons for government intervention in the economy, analyzing the benefits of possible government policies, and the response of economic agents to the government's actions. The course covers social insurance programs, externalities, public goods, environmental protection, and the interaction between different levels of government.

**Competences:**

Students learn theoretical and empirical tools for analyzing public finance questions. Students acquire knowledge on reasons for government intervention in the economy and effects of those interventions on economic outcomes. The course should prove useful for any student interested in analysis of redistribution, public good provision and taxation.

<https://of.wiwi.tu-dortmund.de/lehre/wintersemester/role-of-the-government/>

**Proofs of academic achievement:** Written and graded exam covering the entire module (90 minutes).

## Master Courses - Winter Term 2020/2021

### General Notes and Guidelines:

- Most courses offer 7,5 Credit Points – Credit Points can be found in the course description.
- If there are no further restrictions mentioned, exchange students may take both Bachelor and Master courses regardless of the study level at their home university.
- In the case of lectures/exercises, there are usually no restrictions regarding the capacities and individual requirements.
- Seminars and courses with separate application/registration processes cannot be confirmed in advance (contact the departmental coordinator before your stay).
- The examination period usually takes place after the lecture period (for the winter semester in February and for the summer semester in August). Please take this into consideration for planning your travel dates
- In general, the curriculum for the summer and winter semesters is the same each year. However, there may be slight changes in the course program (due to organizational changes etc.)
- Up-to-date overview can be found here: <https://wiwi.tu-dortmund.de/en/international/international-students/incoming-exchange-students/before-your-stay/english-course-catalog-winter-semester-1/>



Dynamic Macroeconomics

Language: English

**Department:** Faculty of Business and Economics, TU Dortmund

**Contact:** Dr. Debra Hanning, [Erasmus.WiWi@tu-dortmund.de](mailto:Erasmus.WiWi@tu-dortmund.de), +49 (0) 23317555278

**Degree program:** Master

**Course type:** Lecture + Exercise

**Credit Points:** 7,5

**Teacher/Lecturer:** Prof. Dr. Philip Jung

**Requirements:** -none-

**Course description:**

This course is taught in English. There are no explicit requirements in order to take this course. A general interest in macroeconomic questions and a solid background in math are sufficient as the course is completely self-contained. To deepen our understanding of the economic ideas and theories taught in four lecturing and the according exercise each week, this course is accompanied by two hours of an additional exercise in which we will discuss solution techniques and their numerical implication. In each part of this course we will try to highlight the connections to current research in order to provide further reading in case you are interested in a specific topic.

**Organisation:**

Note that the additional exercise starts the same day the lecture an exercise starts. As the first sessions of the additional exercise are a pure introduction to Julia its first sessions do not depend on any content of the lecture. This will change very quickly as the additional exercise aims to map theory into its numerical analogue. The tutorial (as well as the lecture) will take place in the computer pool such that we have access to Julia which is a relatively accessible programming language and suits well the needs of our lecture.

**Competencies:**

The module provides tools and main results in modern dynamic macroeconomics on an advanced level to enable students to conduct their own research in macroeconomics.

<https://makro.wiwi.tu-dortmund.de/en/teaching/winter-term/dynamic-macroeconomics/>

**Proofs of academic achievement:** Graded written exam (90 minutes)

Economic growth and historical development

Language: English

Department: Faculty of Business and Economics, TU Dortmund

Contact: Dr. Debra Hanning, [Erasmus.WiWi@tu-dortmund.de](mailto:Erasmus.WiWi@tu-dortmund.de), +49 (0) 23317555278

Degree program: Master

Course type: Lecture + Exercise

Credit Points: 7,5

Teacher/Lecturer: Prof. Dr. Nina Boberg- Fazlic

Requirements: -none-

**Course description:**

Why are some countries rich and others are poor? This course provides an understanding of long-run development and studies the underlying causes of income differences across countries. The focus of the lectures is the theoretical and conceptual background of proximate and fundamental factors in economic growth and development. In the exercise classes, empirical articles will be discussed with a focus on causal inference based on historical data.

**Competences:**

Students learn to understand and discuss long-term economic relationships and developments. They also learn to apply their knowledge of empirical methods to articles that conduct quantitative analysis, to discuss and to critically assess these. Understanding past (historical) growth episodes, helps to inform policy on how to achieve economic growth and sustained development.

[https://wiwi.tu-dortmund.de/storages/wiwi/r/Internationales/Dokumente/Master\\_Economic\\_growth\\_and\\_historical\\_development.pdf](https://wiwi.tu-dortmund.de/storages/wiwi/r/Internationales/Dokumente/Master_Economic_growth_and_historical_development.pdf)

New Juniorprofessorship \* course will start in December, page will be updated online, to be found via: <https://wiwi.tu-dortmund.de/en/international/international-students/incoming-exchange-students/before-your-stay/english-course-catalog-winter-semester-1/>

**Proofs of academic achievement:** Graded written exam (90 minutes) or oral exam (15-30 minutes) covering the entire module (mode will be announced in time)

Economics of Migration

Language: English

**Department:** Department of Business and Economics

**Contact:** Dr. Debra Hanning, [Erasmus.WiWi@tu-dortmund.de](mailto:Erasmus.WiWi@tu-dortmund.de)

**Degree program:** Bachelor

**Course type:** Seminar

**Credit Points:** 7,5

**Professorship:** Urbane, Regionale und Internationale Wirtschaftsbeziehungen

**Requirements:** none

**Course description:**

From Brexit to the border wall, closed ports to migrant camps, “bad hombres” to “expats” — the issue of migration is a highly relevant topic. Migrants play an important role both in the country of origin and in the recipient country. Market forces and political conditions significantly influence global migration, and the political response remains a political challenge.

In this seminar, we will explore the causes and effects of migration, both from a microeconomic perspective (e.g. the individual migration decision) and from a macroeconomic perspective (e.g. local labour market conditions and country conditions). Students will learn how to evaluate these current economic policy debates from a scientific perspective.

At the end of the seminar, we expect a written paper and presentation. Students can largely decide which particular topic they find most interesting. However, it is essential that topics are analysed using state-of-the-art scientific literature, as well as empirical analysis. Ultimately, we want to carry out an empirical project in student groups on a topic to be chosen by the students

**Competences**

Students will learn and apply empirical methods in the context of migration research. Combining theoretic considerations, literature research as well as data analysis students will develop the ability to analyse current debates with scientific means. Furthermore, analytical skills as well as critical thinking will be sharpened while using the necessary soft skills such as organization, individual/team work, communication etc. which all are highly relevant for the job market.

<https://uri.wiwi.tu-dortmund.de/en/teaching/economics-of-migration/>

**Proofs of academic achievement:**

Module examination, consisting of a graded written paper, an oral presentation and active participation (attendance is obligatory).

Expectations and Beliefs in Economics and Household Finance

Language: English

Department: Faculty of Business and Economics, TU Dortmund

Contact: Dr. Debra Hanning, [Erasmus.WiWi@tu-dortmund.de](mailto:Erasmus.WiWi@tu-dortmund.de), +49 (0) 2317555278

Degree program: Master

Course type: Seminar

Credit Points: 7,5

Teacher/Lecturer: Prof. Dr. Lukas Buchheim; M. Sc. Marcel Vögele

Requirements: -none-

**Course description:**

The consequences of fundamental economic decisions – long-run consumption and investment choices of households (e.g., housing, retirement saving), the hiring and investment decisions of firms, or the portfolio choice of investors – materialize only in the future. As a consequence, economic agents have to form expectations about future economic development in order to make these decisions. To understand individual decision making – and its potential consequences on economic aggregates like short-run growth, unemployment, and inflation – it is thus fundamental to understand how economic agents form expectations to inform their choices.

It is thus not surprising that studying expectation formation---and the effect of expectations on aggregate economic developments---has a long tradition within economics. Here, the traditional approach (in light of the “rational expectations revolution”) has been to theoretically specify characteristics that the expectations of “rational” economic actors have to fulfill. The empirical literature within this tradition has been mostly confined to test the implications of these predictions.

During the last decade, however, there has been a surge of empirical work that seeks to understand how economic agents form expectations in practice. This literature has found consistent deviations from the rational expectation hypothesis, which an emerging theoretical literature, in turn, seeks to explain. This is currently an active area of empirical and theoretical research in economics, with different perspectives from microeconomics, macroeconomics, and finance.

**Competences:**

The main goal of the seminar is to get students engaged in (beginners-stage) scientific work in preparation for the Masters’ thesis. Notably, there will be (within the first class of topics) to practice empirical analyses via conducting replication analyses. Intensive guidance and supervision will be provided during the seminar.

In terms of content, the participants will be enabled to better understand the expectation formation process of economic agents. This should help for making own forecasts of economic developments both for private decisions as well as decisions within a professional context.

<https://mikro.wiwi.tu-dortmund.de/en/teaching/winter-term/seminar-expectations-and-beliefs-in-economics/>

**Proofs of academic achievement:** Module examination, consisting of a graded written paper, an oral presentation and active participation (attendance is obligatory).

Financial Econometrics

Language: English

**Department:** Faculty of Business and Economics

**Contact:** Dr. Debra Hanning, [Erasmus.WiWi@tu-dortmund.de](mailto:Erasmus.WiWi@tu-dortmund.de), +49 (0)2317555278

**Degree program:** Master

**Course type:** Seminar

**Credit Points:** 7,5

**Teacher/Lecturer:** Prof. Dr. Peter N. Posch

**Requirements:** - -none- **Recommended:** Knowledge in statistical and econometrical methods, prior knowledge in finance, e.g. one of the modules. Due to limited PC-capacities you need to apply for this course.

**Course description:**

This lecture applies modern econometric methods to current questions from the field of finance, risk management and commodity markets. We will both explore the theoretical dimensions of the models used as well as apply the methods to real-life datasets.

**Competencies**

Students learn the basic and advanced methods of financial econometrics. They apply the methods using datasets and thereby learn both the application of econometric methods as well as the caveats associated with real-life data, data gathering and data mining. The use of the industry specific programming language (currently Python) for econometric analysis is an essential part of this course.

<https://finance.wiwi.tu-dortmund.de/en/teaching/lectures/winter-term/financial-econometrics/>

**Proofs of academic achievement:** Exam or graded presentation based on written case study's expose..

Financing and Launching Innovative Products

Language: English

**Department:** Faculty of Business and Economics, TU Dortmund

**Contact:** Dr. Debra Hanning, [Erasmus.WiWi@tu-dortmund.de](mailto:Erasmus.WiWi@tu-dortmund.de),

**Degree program:** Master

**Course type:** Lecture + Exercise

**Credit Points:** 7,5

**Teacher/Lecturer:** Prof. Dr. Steffen Strese, Res. Assoc. Darius Abel

**Requirements:** -none - Due to limited number of topics/ideas, the course is restricted and application is mandatory. Please refer to the course website for detailed information.

**Course description:**

Innovative products are a key driver for the success of many firms in the context of today's fast-paced world. Innovative products are being developed by startups as well by established company. Either way, theory and practice demonstrate that an entrepreneurial mindset is a fruitful starting point for radical innovations. Therefore, this course starts by discussing the culture and mindset of entrepreneurs. Further, students will learn theoretical and practical approaches on how to develop innovations and innovative products, drive them from an idea stage, over the development and financing stage to the market entry.

**Competencies:**

In this course, students will acquire a theoretical and practical understanding on how innovations are developed, turned into marketable products and get financed. At the end of this course, students will understand how to differentiate between ideas and opportunities as well as why recent attention-raising products succeeded or failed. This course asks students to critically reflect innovative products and/or their own ideas based on the discussed theory which also contributes to students' problem solving and structured thinking capabilities. By discussing the mindset, thinking, and heuristic approaches of successful and failed entrepreneurs, students will acquire an understanding on how to recognize and shape entrepreneurial environments that can foster innovation.

<https://im.wiwi.tu-dortmund.de/en/teaching/summer-term/course-2-1-2/>

**Proofs of academic achievement:** Module examination, consisting of an oral exam (counts for 50 % of the grading) in combination with the preparation and presentation of case study group work (counts for 50 % of the grading).

Labor Economics

Language: English

**Department:** Faculty of Business and Economics

**Contact:** Dr. Debra Hanning, [Erasmus.WiWi@tu-dortmund.de](mailto:Erasmus.WiWi@tu-dortmund.de), +49 (0) 2317555278

**Degree program:** Master

**Course type:** Lecture + Exercise

**Credit Points:** 7,5

**Teacher/Lecturer:** Prof. Michael Böhm, Ph.D.

**Requirements:** None

**Course description:**

This is a first comprehensive course in labor economics at the graduate level. Topics include supply- and demand for labor, wage determination, human capital, technological change, market power, the role of firms and inequality. There will be a special focus on evidence accompanying the theory as well as the causal and quantitative empirical methods used in applied microeconomics more generally.

**Competences:**

The course fosters participants' skills in (i) the economic modeling of labor market relationships; (ii) their knowledge of microeconomic methods; (iii) hands-on data analysis and communication of empirical results.

Link will be added here shortly –

<https://wiwi.tu-dortmund.de/internationales/internationale-studierende/austauschstudierende/vor-dem-aufenthalt/kurse-auf-englisch-im-wintersemester-1/>

**Proofs of academic achievement:** Graded written exam (90 minutes) or oral exam (30 minutes) covering the entire module (mode will be announced in time).

Law and Economics

Language: English

**Department:** Faculty of Business and Economics

**Contact:** Dr. Debra Hanning, [Erasmus.WiWi@tu-dortmund.de](mailto:Erasmus.WiWi@tu-dortmund.de), +49 (0) 2317555278

**Degree program:** Master

**Course type:** Lecture + Exercise

**Credit Points:** 7,5

**Teacher/Lecturer:** Prof. Galina Zudenkova, Ph.D.

**Requirements:** The course requires successful participation in microeconomics and game theory courses.

**Course description:**

This course provides an introduction to the economic analysis of law, i.e., the application of economic methods to analysis of legal rules and institutions. It covers the areas of tort law, contract law and criminal law, property law and the Coase Theorem, intellectual property law, among others. The focus of the lectures will be primarily on theoretical work. Practice exercises will be assigned during the semester.

**Competences:**

Students leave the course understanding how microeconomic theory can be used to critically evaluate law and public policy. The course should prove useful for any student interested in analyzing policy issues. It will be particularly valuable background for those students intending to specialize in public economics, political economy, and economic policy.

<https://of.wiwi.tu-dortmund.de/en/teaching/winter-term/law-and-economics/>

**Proofs of academic achievement:** Written and graded exam covering the entire module (90 minutes).



Organization of Innovation and Applying Different Approaches to Organizing Innovation

Language: English

**Department:** Department of Business and Economics

**Contact:** Dr. Debra Hanning, [Erasmus.WiWi@tu-dortmund.de](mailto:Erasmus.WiWi@tu-dortmund.de)

**Degree program:** Bachelor

**Course type:** Seminar

**Credit Points:** 7,5

**Professorship:** Hochschuldidaktik und Hochschulforschung

**Requirements:** none

**Course description:**

Fostering innovation is the goal of many governments as well as organizations in today's knowledge economies. The seminar will introduce and critically discuss organizational models for innovation and provide deeper insights into the main characteristics of innovation. The latest research results will identify the main antecedents of successful innovations and the role of institutional entrepreneurs in the process of innovation. The exercise will provide the space for practical application of the approaches to organizing innovation via the simulation game. This seminar and exercise will inform students about the latest approaches of organizing innovation internationally. Students will critically reflect on the key findings of studies of innovation and will carry out a research project of their own on particular innovation. Simulation game will provide practical skills for organization of innovation.

**Competences**

The seminar will start with the lecture which will cover the main theoretical models for organizing innovation. The topics for assignments and the suggested literature will be presented and students will choose the topics. Each of the seminars will have a presentation from students followed by a discussion.

All students are expected to actively participate in the seminar. Each of the sub-topics covered in the seminar will have compulsory reading. It is expected that students will work on the assignment, present it and participate in the discussions. The assignment will consist of a presentation on a given topic and an individual written 5000 words paper on a given topic. The number of participants of this seminar is limited to 20.

The exercise will include a simulation game during which we will simulate innovation process in a professional organization.

<https://hdhf.zhb.tu-dortmund.de/en/teaching/lectures/organization-of-innovation/>

**Examinations**

Seminar: 4 Credits; task for getting a grade: presentation of the assignment and written paper.

Exercise: 3.5 Credits; task for getting the grade: active participation in the exercise.

Production Planning and Control

Language: English

**Department:** Faculty of Business and Economics

**Contact:** Dr. Debra Hanning, [Erasmus.WiWi@tu-dortmund.de](mailto:Erasmus.WiWi@tu-dortmund.de), +49 (0) 2317555278

**Degree program:** Master

**Course type:** Lecture + Exercise

**Credit Points:** 7,5

**Teacher/Lecturer:** Prof. Dr. Ralf Gössinger

**Requirements:** -none- Recommended: Knowledge about production and operations management on a bachelor level.

**Course description:**

The lectures are focusing on

- a theory-driven economic analysis of production systems,
- the transfer of theoretical knowledge into a theory-based production management,
- quantitative approaches for production planning systems
- computer aided modeling and solving of planning problems.

**Competences:**

A deepened understanding of planning models and solution approaches applied in production planning and control systems (PPC Systems) is supported. The students are enabled to assess the suitability of the different approaches depending on the planning situation. They are able to implement planning models in optimization software and to solve these models by means of a standard solver.

<https://pl.wiwi.tu-dortmund.de/lehre/wintersemester/ma-ppc-vl/>

**Proofs of academic achievement:** Written and graded exam covering the entire module (90 minutes).

Quantitative Finance

Language: English

**Department:** Faculty of Business and Economics

**Contact:** Dr. Debra Hanning, [Erasmus.WiWi@tu-dortmund.de](mailto:Erasmus.WiWi@tu-dortmund.de), +49 (0) 2317555278

**Degree program:** Master

**Course type:** Lecture and Exercise

**Credit Points:** 7,5

**Teacher/Lecturer:** Prof. Dr. Peter N. Posch

**Requirements:** Recommended: Knowledge in the programming language used (eg. Python) proven eg. by successful examination of Finance III (Financial Econometrics). Due to limited PC-capacities you need to register for this course..

**Course description:**

The course provides the basic concepts of classical as well as modern approaches in financial theory and its implication to the private sector.

The module covers a broad range of highly quantitative topics with a strong application in international financial markets. The theoretical frameworks assess the most recent re-search findings for pricing, network analysis and financial engineering.

**Competences:**

Students learn to discuss and derive theoretical models while promoting innovative and critical thinking. The theoretical framework provided is applied on empirical datasets during the tutorial sessions. The interpretation of empirical results in the light of current academic findings is a key aspect of the tutorials. Controversial findings within the literature are evaluated. The practical sessions are conducted using the industry's programming language (currently python).

<https://www.wiwi2.tu-dortmund.de/wiwi/of/de/lehre/veranstaltungen/wintersemester/seminarmaster4/index.html>

**Proofs of academic achievement:** Written and graded exam covering the entire module (90 minutes) or graded presentation based on written case study's expose. The mode of the exam will be assigned at the beginning of the course.

Regional disparities: Theory and Structural Estimation

Language: English

**Department:** Faculty of Business and Economics, TU Dortmund

**Contact:** Dr. Debra Hanning, [Erasmus.WiWi@tu-dortmund.de](mailto:Erasmus.WiWi@tu-dortmund.de)

**Degree program:** Master

**Course type:** Lecture & Exercise

**Credit Points:** 7,5

**Teacher/Lecturer:** Prof. Dr. Philip Jung

**Requirements:** -none-

**Course description:**

The class offers an introduction to structural (theory based) estimation with applications to regional disparities. The first half of the class will discuss basic tools in causal reasoning. We will discuss notions of causality and cover directed acyclical graphs in the spirit of Judea Pearl (2009), as well as some structural estimation methods based on dynamic discrete choice models.

The second half will introduce students to state of the art research in regional economics with an explicit structural estimation design. The class aims at advanced master students or beginning Ph.D. students.

**Competences:**

Students acquire the ability to discuss the concept of causality. They learn tools to structurally estimate models and apply their knowledge to the field of regional economics. The module is part of the research training group for doctoral students of first year Ph.D. students.

<https://makro.wiwi.tu-dortmund.de/en/teaching/winter-term/regional-disparities/>

**Proofs of academic achievement:** Module examination, oral exam (15-30 minutes) covering the entire module

Seminar Economic Policy

Language: English

**Department:** Faculty of Business and Economics

**Contact:** Dr. Debra Hanning, [Erasmus.WiWi@tu-dortmund.de](mailto:Erasmus.WiWi@tu-dortmund.de), +49 (0) 2317555278

**Degree program:** Master

**Course type:** Seminar

**Credit Points:** 7,5

**Teacher/Lecturer:** Prof. Michael Böhm, Ph.D.

**Requirements:** -

**Course description:**

The seminar covers economic issues that are currently a focus of debate in academia and in the public sphere. Students work on hands-on research questions in the fields of labor markets, industrial economics, and related areas. There will be opportunities to work empirically, theoretically, or to synthesize an existing body of research. Students are also given regular guidance by their advisor and have the opportunity to present their progress on various occasions.

**Competences:**

Students acquire analytical, empirical, and writing skills in applied microeconomics. They are acquainted with the research frontier and current debate in a policy-relevant area. The seminar also prepares students for the master's thesis, to which suitable topics may be extended.

Link will be added here shortly –

<https://wiwi.tu-dortmund.de/internationales/internationale-studierende/austauschstudierende/vor-dem-aufenthalt/kurse-auf-englisch-im-wintersemester-1/>

**Proofs of academic achievement:** Module examination, consisting of a graded written term paper and an oral presentation of the results.

Seminar Public Finance

Language: English

**Department:** Faculty of Business and Economics

**Contact:** Dr. Debra Hanning, [Erasmus.WiWi@tu-dortmund.de](mailto:Erasmus.WiWi@tu-dortmund.de), +49 (0) 2317555278

**Degree program:** Master

**Course type:** Seminar

**Credit Points:** 7,5

**Teacher/Lecturer:** Prof. Galina Zudenkova, Ph.D.

**Requirements:** The course requires successful participation in microeconomics and game theory courses on a bachelor level.

**Course description:**

In this seminar, we will cover questions related to law and economics (in the winter term) and to political economy and policymaking (in the summer term). We will analyze the recent theoretical, empirical and experimental work on these topics. In the winter term, we will focus on behavioral law and economics. The topics include endowment effect and Coase theorem, bargaining and property rights regimes, deterrence and emotions, enforcement and norms, consumer protection, litigation and breach remedies. In the summer term, we will discuss the role that political actors (voters, candidates, legislatures, interest groups, political parties, and media) play in policy determination. The topics include political and fiscal constitutions, electoral systems, political competition, political accountability, lobby formation, campaign contributions, legislative decision-making, and political parties' impact on policymaking.

**Competences:**

Students will learn to formulate and defend their position and approach to problem solving; they will be able to exchange information, ideas, and solutions with experts of the field. Subject-related skills: profound knowledge of the material presented by the instructor and other students. Analytical skills: analysis of the theoretical, empirical and experimental papers, evaluation of the papers and possible extensions.

<https://of.wiwi.tu-dortmund.de/en/teaching/winter-term/ws-master-seminar-public-finance/>

**Proofs of academic achievement:** Students are responsible for one presentation. Students will also have to write a report (5-6 pages) evaluating the paper they have presented and suggesting extensions as well as further applications. Grades will be based on the seminar presentations and the report: Seminar presentation (50% of the grade) + report (50% of the grade).

Strategic Technology and Innovation Management

Language: English

**Department:** Faculty of Business and Economics, TU Dortmund

**Contact:** Dr. Debra Hanning, [Erasmus.WiWi@tu-dortmund.de](mailto:Erasmus.WiWi@tu-dortmund.de),

**Degree program:** Master

**Course type:** Lecture + Exercise

**Credit Points:** 7,5

**Teacher/Lecturer:** Prof. Dr. Tessa Flatten

**Requirements:** -none

**Course description:**

This class introduces the evolutionary patterns of technologies/innovations and connects these to technological developments. Those patterns are linked to several concepts like the product life cycle or diffusion models. Moreover, the relevance of customer needs regarding new product development is discussed. In order to enable companies to implement efficient processes to handle technologies and innovations this class as well focuses on the design of organizational structures and culture. Additionally, specific problems like organizational ambidexterity or standardization are covered. Furthermore, recent research topics from international journals will be presented within this class.

**Competencies:**

On the one hand this class deepens the students understanding regarding the application of technologies. Students learn how they can support company's strategic management by improving the technology management capabilities. Moreover, students are enabled to understand recent research results, assess the impact of those studies and apply the results to their practical work. As an addition the students are trained to develop their skills regarding the development of own research ideas.

<https://tm.wiwi.tu-dortmund.de/en/teaching/summer-term/course-2-1-2-1-1-1-1/>

**Proofs of academic achievement:** Module examination. Students can choose between two options: Option 1) 90 minutes written exam covering the entire module, Option 2) Preparation and presentation of a case (counts for 1/3 of the grading) and 60 minutes written exam (counts for 2/3 of the grading).





Technology driven Digital innovation in post.covid environments

Language: English

**Department:** Faculty of Business and Economics, TU Dortmund

**Contact:** Dr. Debra Hanning, [Erasmus.WiWi@tu-dortmund.de](mailto:Erasmus.WiWi@tu-dortmund.de)

**Degree program:** Master

**Course type:** Seminar

**Credit Points:** 7,5

**Teacher/Lecturer:** Prof. Dr. Manuel Wiesche

**Requirements:** -none- Application necessary

**Course description:**

In this course, students will learn about technology-driven digital innovation and work on a real-world innovation challenge provided by partner companies. Our partners include companies as well as consultancy firms, like KPS which is a consultancy for digital transformation projects.

**Competencies:**

The students will get to know the design thinking approach and they will be enabled to practice it. Starting with the the phases of Needfinding & Synthesis and Ideation and then, operationalising the ideas with a concept of a Prototype that will be Tested afterward in regards to the suitability to solve the identified problem.

The Students will work in teams to target the partner's challenges in close collaboration with the company partner and they be able to present their ideas and solutions.

<https://dt.wiwi.tu-dortmund.de/en/teaching/lectures/winter-term-2022-23/master-seminar//>

**Application:**

Online application. In addition to your online application, please send your CV, grade transcript, and motivation letters to the secretariat (dt.wiwitu-dortmundde), indicating your previous experience with digital transformation topics and empirical research methods.

**Proofs of academic achievement:** Graded oral presentation, written report/reflection and active participation (attendance is compulsory) in oral presentations.

**Department:** Faculty of Business and Economics, TU Dortmund

**Contact:** Dr. Debra Hanning, [Erasmus.WiWi@tu-dortmund.de](mailto:Erasmus.WiWi@tu-dortmund.de)

**Degree program:** Master

**Course type:** Lecture & Exercise

**Credit Points:** 7,5

**Teacher/Lecturer:** Prof. Dr. Lorenz Graf-Vlachy

**Requirements:** -none-

**Course description:**

In this module, students will learn to develop a critical attitude and own perspectives towards theory in general, and specifically towards theories in management, technology, and leadership research. To achieve this, they will apply basic social research thinking and methods to construct theory themselves and to closely scrutinize recent scientific studies and research questions. While being primarily rooted in science, the course will also address the questions of what management theory means to practitioners and how to apply current management theory to reflect on and solve real-life managerial challenges.

**Competencies:**

After completing this module, students will have a deep understanding of what theories are and which criteria can be used to evaluate them. Students will further understand the scientific process of theory building and testing, as well as have gained insights into scientific writing and presenting, as well as the scientific discourse and publishing process. Students will also have obtained a basic grasp of various typical qualitative and quantitative research methods. Finally, students will be able to read and critically assess scientific publications in the fields of management, technology, and leadership research.

<https://uf.wiwi.tu-dortmund.de/en/teaching/winter-term/theory-and-methods-in-management/>

**Proofs of academic achievement:** Graded oral presentation, written report/reflection and active participation (attendance is compulsory) in oral presentations.

**Department:** Faculty of Business and Economics, TU Dortmund

**Contact:** Dr. Debra Hanning, [Erasmus.WiWi@tu-dortmund.de](mailto:Erasmus.WiWi@tu-dortmund.de)

**Degree program:** Master

**Course type:** Lecture & Exercise

**Credit Points:** 7,5

**Teacher/Lecturer:** Prof. Dr. Leisyte

**Requirements:** -none-

**Course description:**

The importance of knowledge intensive organizations has been underscored by policy makers across the world. Universities in particular are believed to play a key role for the future of national economies via knowledge production, transfer and commercialization. The seminar will introduce the main higher education governance and management trends in Europe and the US and shed light on the role of universities in national and regional innovation systems. The course will also introduce the key characteristics of university as a professional organization. Drawing on the theoretical models of national and regional innovation systems and organizational theories the course will point out the role of engaged university in fostering regional and national economies. Students will carry out research projects drawing on the latest theoretical and empirical evidence from Higher Education, Science and Technology Studies as well as Innovation Studies.

**Competencies:**

Students will learn about and apply empirical methods studying the role of the university in its regional innovation system. They will get acquainted with the key developments of university governance and management which will enable them to reflect on the role of universities for economic development in national and regional innovation systems. Combining theoretic considerations, literature research as well as data analysis students will develop the ability to analyze national and regional innovation systems with scientific means. Furthermore, analytical skills as well as critical thinking will be developed while using the necessary soft skills such as organization, teamwork, presentation skills which all are highly relevant for the job market.

<https://hdhf.zhb.tu-dortmund.de/en/teaching/lectures/universities-in-innovation-systems/>

**Proofs of academic achievement:** Module examination, consisting of a graded presentation, seminar paper, and active participation (attendance is obligatory).

Women and Diversity in Business: Theory and Methods

Language: English

**Department:** Faculty of Business and Economics, TU Dortmund

**Contact:** Dr. Debra Hanning, [Erasmus.WiWi@tu-dortmund.de](mailto:Erasmus.WiWi@tu-dortmund.de)

**Degree program:** Master

**Course type:** Seminar

**Credit Points:** 7,5

**Teacher/Lecturer:** JProf. Dr. Daniela Gimenez-Jimenez

**Requirements:** -none-

**Course description:**

Women and diversity in business have gained attention in the media, policymakers as well as academia, giving the increasing number of women in entrepreneurship, family businesses, and corporate spheres. Despite this trend, women and other minorities are underrepresented in many industries, and the board of directors, their businesses experience high failure rates, as well as, they prefer to not join family businesses. Due to these patterns, in the last decades, there has been an increasing body of research on the topic, aiming at understanding not only what drives and hinders women and other minorities in the business sphere but also their role in the business and society. In this seminar, we will provide and discuss recent research on women and diversity in businesses. The seminar has two main learning goals: First, the students will acquire a profound knowledge of the field of women and diversity in business, including qualitative and quantitative studies; and second, the students will obtain the skills of scientific working and writing.

**Competences:**

1. Understand state-of-the-art of the research field of women and diversity in business;
2. Analyze the different perspectives for studying women and diversity in business;
3. Comprehend the impact of the field in the business and society;
4. Employ a theoretical framework for studying an empirical phenomenon;
5. Acquire and apply the skills of developing and writing a scientific seminar paper.

<https://es.wiwi.tu-dortmund.de/en/teaching/winter-term/seminar/>

**Proofs of academic achievement:** Graded presentation, seminar paper (reflection) and active participation (attendance is compulsory) in both, seminar sessions and oral presentations.