

Faculty of Business and Economics
Modules open to Erasmus students
Master´s Level
Winter Semester 2025/2026

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Business Administration	4
Advanced International Financial Reporting	4
Aktuelle Themen der Betrieblichen Umweltökonomie.....	5
Applied Technologies in Logistics	6
Beschaffungsmanagement.....	7
Elektrizitätswirtschaft / Power System Economics	8
Financial Technology	10
Finanzderivate und Optionen.....	11
Inventory Management.....	12
Logistik mit SAP	13
Managing for Sustainability	14
Managing People and Organizations	15
Marketing Literature Review	16
Marktforschung	17
Multidisciplinary Perspectives of Sustainability	18
Organizational Behavior.....	19
Regulierung und Ökonomie der Rechnungslegung	20
Relationship Marketing	21
Risikocontrolling und Risikomanagement	22
Risikoquantifizierung und -management in der Energiewirtschaft	23
Simulation und Modellierung.....	24
Strategic Sustainability Management.....	25
Strategisches Controlling	26
Studienprojekte im Nachhaltigkeitsmanagement.....	27
Technology Management	28
Trends in Organization and Management Studies.....	29
Wirtschaftswissenschaftliche Anwendungen mit R.....	30
Economics	31
Advanced Topics in International Economics.....	31
Aktuelle Fragen der Ökonometrie	32
Computable General Equilibrium Analysis	33
Current Topics in Empirical Economic Research.....	34
Current Topics in International Monetary Economics	35
Empirical Economics	36
Empirical Labor Economics.....	37
Exchange Rates.....	38

International Public Economics	39
Microeconometrics	40
Microeconomic Perspectives on Development Economics.....	41
Principles of Economic Theory	42
Principles of Public and International Economics	43
Spieltheorie	44
Theory of Taxation	45
Topics in Economic Policy	46
Topics in Policy Evaluation	47
Business Education and Management Training	48
Aktuelle Herausforderungen des Personalmanagements	48
Aktuelle Themen der Wirtschaftspädagogik	49
Lernen im Prozess der Arbeit	50
Multimediales Lernen	52
Neuere Theorien des Lehrens und Lernens.....	53
Spezielle Themen des Personalmanagements	54
Wirtschaftsdidaktik im Spannungsfeld von Theorie und Praxis	55
Business Information Systems	56
Aktuelle Themen der Informationssysteme in Industrie und Handel	56
Aktuelle Themen des Informationsmanagements	57
Case Study Research.....	58
Digital Business Engineering	59
Digital Health	60
Foreign Languages.....	62
German Language Skills Basics	62
German Language Skills Beginners	63
Supplementary Qualifications	64
Cost-Benefit Evaluation of Infrastructure Projects and Traffic Law	64
Methoden des Operations Research.....	65
Methods in Data Analytics	66
Spatial Economics and the Environment	67
Theoretical Multivariate Statistics	68
Transport Ecology	70

Module number	Module name	Responsible lecturer
WW-D-107-AIFR WW-MA-107-AIFR WW-MA-PIE-IFR	Advanced International Financial Reporting	Prof. Dr. Michael Dobler wus@mailbox.tu-dresden.de
Qualification objectives	Students have in-depth specialist knowledge of international financial reporting. In particular, you will be able to present and explain the Inter-national Financial Reporting Standards (IFRS) including specific develop-ment and application problems and will be able to apply this knowledge in a problem-oriented manner as a preparer and user of financial reports in an international context. They can distinguish between the various normative concepts and are familiar with English as the language of sci-ence.	
Contents	The content of the module is the economic, institutional and legal foundations of international accounting as well as selected accounting problems of individual company, group and industry-specific accounting in an international context, mainly according to IFRS.	
Teaching and learning methods	Lecture: 2 hours per week Independent study The language of the module is English.	
Prerequisites for participation	Basic knowledge of accounting and annual financial statements as well as accounting according to IFRS at Bachelor's level is required. The following literature is suitable for preparation: Weygandt, J.J.; Kimmel, P.D.; Kieso, D.E.: Financial Accounting: IFRS. John Wiley and Sons, latest edition.	
Usability	MA BWL: Field Business Administration MA WiPäd, D WiInf, D WiIng: Field Business Administration and Economics MA PIE The selection must be made in accordance with the examination regulations.	
Examination	More than three registered students: written exam, 60 minutes Up to three registered students: non-public oral examination, 20 minutes duration as an individual examination	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-102-ATBU WW-MA-102-ATBU	Aktuelle Themen der Betrieblichen Umweltökonomie	Prof. Dr. Remmer Sassen Lehre_bu@mailbox.tu-dresden.de
Qualification objectives	Students are familiar with current issues in business environmental economics from theory and practice. They are able to prepare, present, analyze, and discuss these issues using scientific methods.	
Contents	The module examines current topics in sustainability management and corporate environmental economics in order to evaluate them in terms of sustainability-related aspects and integrate them into business decisions.	
Teaching and learning methods	Lecture: 1 hour per week Project: 1 hour per week Independent study The language of the module can be German or English and is determined at the beginning of each semester and announced in the usual manner.	
Prerequisites for participation	Knowledge of business administration, organization, marketing, and sustainable corporate management at the bachelor's degree level is required. Furthermore, English language skills at level B2+ of the Common European Framework of Reference for Languages are required.	
Usability	MA BWL: Field Business Administration MA WiPäd, D WiInf, D WiIng: Field Business Administration and Economics The selection must be made in accordance with the examination regulations.	
Examination	Term paper, 90 hours	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-112-ATIL WW-MA-112-ATIL	Applied Technologies in Logistics	Prof. Dr. Rainer Lasch logistik@mailbox.tu-dresden.de
Qualification objectives	Students have in-depth knowledge of scientific work and have insights into current research issues as well as project-specific problems in logistics.	
Contents	The content of the module is current topics in the areas of logistics, procurement and supply chain management.	
Teaching and learning methods	Seminar: 3 hours per week Independent study The language of the module is English. The seminar is limited to 12 participants, selection based by lottery.	
Prerequisites for participation	Basic knowledge of scientific and practical work is required.	
Usability	MA BWL: Field Business Administration MA WiPäd, D WiInf, D WiIng: Field Business Administration and Economics The selection must be made in accordance with the examination regulations.	
Examination	Complex assesment, 120 hours	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-112-BEMA WW-MA-112-BEMA	Beschaffungsmanagement	Prof. Dr. Rainer Lasch logistik@mailbox.tu-dresden.de
Qualification objectives	Students will be able to present and discuss the basics and instruments of procurement management. You will be able to apply and compare procedures from supplier management and program- and consumption-oriented material requirements calculation. In addition, they can use models of deterministic and stochastic warehousing and compare them in an explanatory way. Furthermore, students can discuss, select and apply the procedures of quality assurance. They can also use presentation and rhetoric techniques.	
Contents	The contents of the module are the basics of procurement management, methods of material requirements calculation, deterministic and stochastic warehousing as well as quality assurance.	
Teaching and learning methods	Lecture: 2 hours per week Practical: 2 hours per week Independent study The language of the module is German.	
Prerequisites for participation	Knowledge of accounting, business administration, organization, market-ing, sustainable corporate management, annual financial statements, investment, financing, production and logistics at Bachelor's level is re-quired.	
Usability	MA BWL: Field Business Administration MA WiPäd, D WiInf, D WiIng: Field Business Administration and Economics The selection must be made in accordance with the examination regulations.	
Examination	Complex assesment, 15 hours	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-114-ELWI WW-MA-114-ELWI WW-MA-PIE-EWI	Elektrizitätswirtschaft / Power System Economics	Prof. Dr. Dominik Möst ee2@mailbox.tu-dresden.de
Qualification objectives	Students will be able to reproduce basic terms, definitions, concepts and methods of the electricity industry and name relevant parameters of the electricity industry. The students are able to explain market relationships (e.g. merit order concept), to present the trade in electricity and related problems and concepts and to transfer them to expected questions as well as to answer quantitative problems in a group with the help of model-ling. Students are able to mathematically set up and implement basic op-timization models from the field of operations research.	
Contents	The contents of the module are, on the one hand, the European liberalisa-tion process in the energy industry and the associated theoretical basic concepts of a competitively organised market, pricing mechanisms and investment decisions on liberalised electricity markets, the different mar-kets within the electricity industry (e.g. intra-day electricity market, emis-sion certificate market) and market power in the electricity sector. In addi-tion, the regulatory framework and the regulation of the electricity grids are part of the module. On the other hand, the module contains the basics of modelling in the energy industry, which are particularly incorporated into the project work.	
Teaching and learning methods	Lecture: 2 hours per week Practical: 2 hours per week Seminar: 2 hours per week Independent study The language of the module can be German or English and is determined at the beginning of each semester and announced in the usual manner.	
Prerequisites for participation	Knowledge of energy economics at Bachelor's level is required.	
Usability	MA BWL: Fields Business Administration, Supplementary Qualifications MA WiPäd, D WiInf, D WiIng: Fields Business Administration and Economics, Supplementary Qualifications MA PIE Students must choose according to the respective examination regulations. The choice is only permitted for one of the fields mentioned.	
Examination	Portfolio, 90 hours	

Workload and Credit points	300 hours, 10 credit points
Frequency	Offered each winter semester
Duration	One semester

Module number	Module name	Responsible lecturer
WW-D-105-FITE WW-MA-105-FITE WW-MA-PIE-FTE	Financial Technology	Prof. Dr. Lars Hornuf arite.schrehardt@tu-dresden.de
Qualification objectives	Students have a comprehensive knowledge of what financial technology is and why it came into being. They understand and can explain the basics of current financial technology developments. Students will be able to evaluate the potential of financial technology and describe why financial services could change in the future. They understand and can explain how technology and regulation interact and impact financial services. Students are familiar with the opportunities and risks of financial technologies and are able to assess them.	
Contents	The lecture gives an introductory overview of current developments in the field of financial technology. These developments include cryptocurrencies and blockchain technology, mobile and digital payment systems, social trading and robo advice, marketplace lending and crowdfunding.	
Teaching and learning methods	Lecture: 2 hours per week Independent study The language of the module is English.	
Prerequisites for participation	Knowledge of annual financial statements, investment and financing at Bachelor's level is required.	
Usability	MA BWL: Field Business Administration MA WiPäd, D WiInf, D WiIng: Field Business Administration and Economics MA PIE The selection must be made in accordance with the examination regulations.	
Examination	Written exam, 60 minutes	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-105-FDOP WW-MA-105-FDOP	Finanzderivate und Optionen	Prof. Dr. Lars Hornuf arite.schrehardt@tu-dresden.de
Qualification objectives	Students know the theoretical basics of financial derivatives and options and can carry out an assessment independently. They are able to implement this knowledge when implementing trading strategies.	
Contents	The content of the module is the theoretical basics of various financial derivatives and options. Students first repeat the basics of portfolio management. They then learn about symmetrical derivatives and options, their valuation and corresponding trading strategies. Afterwards, the trading of derivatives, the regulatory framework and clearing are discussed.	
Teaching and learning methods	Lecture: 2 hours per week Practical: 2 hours per week Independent study The language of the module is German.	
Prerequisites for participation	Knowledge of annual financial statements, investment and financing at Bachelor's level is required.	
Usability	MA BWL: Field Business Administration MA WiPäd, D WiInf, D WiIng: Field Business Administration and Economics The selection must be made in accordance with the examination regulations.	
Examination	Written exam, 60 minutes	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-103-INMA WW-MA-103-INMA	Inventory Management	Prof. Dr. Udo Buscher bwlim@tu-dresden.de
Qualification objectives	The students are familiar with the tasks and functions that have to be fulfilled within the framework of industrial inventory management and they are able to make design recommendations for the most efficient control of the flow of goods, taking into account the production and transfer processes. You can apply different warehousing policies and determine the decision variables optimally.	
Contents	The contents of the module are deterministic and stochastic order quantity models, safety stock planning, periodic inventory management, integrated transport and batch size planning and dynamic order quantity planning.	
Teaching and learning methods	Lecture: 2 hours per week Practical: 2 hours per week Independent study The language of the module is English.	
Prerequisites for participation	Knowledge of business production theory and logistics at Bachelor's level is required. Furthermore, English language skills at level B2 of the Common European Framework of Reference for Languages are required.	
Usability	MA BWL: Field Business Administration MA WiPäd, D WiInf, D WiIng: Fields Business Administration and Economics The selection must be made in accordance with the examination regulations.	
Examination	More than three registered students: written exam, 90 minutes Up to three registered students: non-public oral examination, 20 minutes duration as an individual examination	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-112-LSAP WW-MA-112-LSAP	Logistik mit SAP	Prof. Dr. Rainer Lasch logistik@mailbox.tu-dresden.de
Qualification objectives	Students have basic knowledge of SAP S/4HANA and are familiar with its specific applications in the field of logistics. They are able to solve potential problems in real-world business situations.	
Contents	The module covers standard business software, special applications in the field of logistics, and the processing of practical business management issues.	
Teaching and learning methods	Seminar: 4 hours per week Independent study The language of the module is German. The module is limited to 24 participants, selection based by lottery.	
Prerequisites for participation	Knowledge of production logistics, distribution logistics, and supply chain management at the bachelor's level is required.	
Usability	MA BWL: Field Business Administration MA WiPäd, D WiInf, D WiIng: Field Business Administration and Economics The selection must be made in accordance with the examination regulations.	
Examination	Complex assessment, 50 hours	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-121-MASU WW-MA-121-MASU	Managing for Sustainability	Jun.-Prof. Dr. Samanthi Dijkstra-Silva Sustainability@tu-dresden.de
Qualification objectives	Students critically examine current scientific issues in the context of management and sustainability. They are able to read and reflect on scientific texts and extract key findings. In a further step, students are able to pose a critical research question and then investigate it.	
Contents	The module covers aspects of current research on sustainability and management theory.	
Teaching and learning methods	Seminar: 2 hours per week Independent study The language of the module can be German or English and is determined at the beginning of each semester and announced in the usual manner. The seminar is limited to 20 participants, selection based on the order	
Prerequisites for participation	Business management knowledge and a basic understanding of sustainability management at bachelor's level are required. English language skills at level B2+ of the Common European Framework of Reference for Languages are also required.	
Usability	MA BWL: Field Business Administration MA WiPäd, D WiInf, D WiIng: Field Business Administration and Economics The selection must be made in accordance with the examination regulations.	
Examination	Term paper, 90 hours	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-111-MPAO WW-MA-111-MPAO	Managing People and Organizations	Prof. Dr. Stefan Razinskas orga.wiwi@tu-dresden.de
Qualification objectives	Students know and understand the central problem areas of the management of organizations and the leadership of their employees. They have in-depth knowledge of the key theories and concepts of management, leadership and formal and informal organization at an individual and group level. Students can work on complex issues in teams using the theoretical concepts they have learned and present and explain the results in an understandable way.	
Contents	Fundamentals of individual and group dynamic processes in organizations as well as the reciprocal influence between these processes and the structural and cultural framework conditions of organizations.	
Teaching and learning methods	Lecture: 1 hour per week, Seminar: 2 hours per week, Independent study The language of the module is English. Participation is limited to 30 participants; selection based on the order of enrollment.	
Prerequisites for participation	Basic knowledge of business administration, in particular organization and personnel management at Bachelor's level; English language skills at B2 level.	
Usability	MA BWL: Field Business Administration MA WiPäd, D WiInf, D WiIng: Field Business Administration and Economics The selection must be made in accordance with the examination regulations.	
Examination	Complex assessment, 90 hours	
Workload and Credit points	5 credit points, 150 hours	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-104-MLIR WW-MA-104-MLIR	Marketing Literature Review	Prof. Dr. Florian Ulrich Siems florian.siems@tu-dresden.de
Qualification objectives	Students are able to understand articles from English-language journals in the field of marketing research and to reproduce and critically discuss their content in English.	
Contents	The contents of the module are the presentation of selected topics of market research in literature.	
Teaching and learning methods	Seminar: 2 hours per week Independent study The language of the module is English. The seminar is limited to 15 participants, selection based by lottery.	
Prerequisites for participation	Knowledge of marketing at Bachelor's level as well as the skills to be acquired in the market research module are required.	
Usability	MA BWL: Field Business Administration MA WiPäd, D WiInf, D WiIng: Field Business Administration and Economics The selection must be made in accordance with the examination regulations.	
Examination	Complex assesment, 90 hours	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-104-MAFO WW-MA-104-MAFO	Marktforschung	Prof. Dr. Florian Siems florian.siems@tu-dresden.de
Qualification objectives	Students will gain an overview of the basics of market research as well as selected methods of data analysis. They are able to apply, classify, evaluate and interpret selected data analysis methods. Furthermore, they solve given facts using the statistical software SPSS.	
Contents	The contents of the module are the basics of market research as well as methods of data analysis (in particular multivariate analysis methods).	
Teaching and learning methods	Lecture: 2 hours per week Practical: 1 hour per week Independent study The language of the module is German. The module is limited to 100 participants, selection based on the order of enrollment.	
Prerequisites for participation	Basic knowledge of statistics (statistical parameters such as median/mode/variance as well as basics of stochastics) at Bachelor's level is required. Furthermore, English language skills at level B2 of the Common European Framework of Reference for Languages are required.	
Usability	MA BWL: Field Business Administration MA WiPäd, D WiInf, D WiIng: Field Business Administration and Economics The selection must be made in accordance with the examination regulations.	
Examination	Written exam, 60 minutes	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-121-MPSU WW-MA-121-MPSU	Multidisciplinary Perspectives of Sustainability	Jun.-Prof. Dr. Samanthi Dijkstra-Silva Sustainability@tu-dresden.de
Qualification objectives	The students are familiar with current issues of sustainability management and the resource nexus. They are able to prepare, present, analyse and discuss these questions using scientific methods.	
Contents	The content of the module is the consideration and application of tools and strategies that could contribute to the achievement of the United Nations Sustainable Development Goals (SDGs).	
Teaching and learning methods	Seminar: 2 hours per week Independent study The language of the module is English. The seminar is limited to 20 participants, selection based on the order of enrollment.	
Prerequisites for participation	Knowledge of marketing and sustainable business management at Bachelor's level is required. Furthermore, English language skills at level B2+ of the Common European Framework of Reference for Languages are required.	
Usability	MA BWL: Field Business Administration MA WiPäd, D WiInf, D WiIng: Field Business Administration and Economics The selection must be made in accordance with the examination regulations.	
Examination	Term paper, 90 hours	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-123-ORBE WW-MA-123-ORBE	Organizational Behavior	Jun.-Prof. Dr. Sebastian Störmer sebastian.stoermer@tu-dresden.de
Qualification objectives	Students know the basics of the interdisciplinary research field of Organizational Behavior. They can critically reflect on and analyse the fundamentals and apply them in an organizational context, particularly in personnel management and employee leadership.	
Contents	Issues and concepts of Organizational Behavior as well as the basics of the study of human behavior in organizations.	
Teaching and learning methods	Lecture: 2 hours per week, Independent study The language of the module is English. Participation is limited to 50 participants; selection based on the order of enrollment.	
Prerequisites for participation	Knowledge of the organization at Bachelor's level; English language skills at B2 level.	
Usability	MA BWL: Field Business Administration MA WiPäd, D WiInf, D WiIng: Field Business Administration and Economics The selection must be made in accordance with the examination regulations. The module creates the prerequisites for the module Researching International Organizational Behavior.	
Examination	Written exam, 90 minutes	
Workload and Credit points	5 credit points, 150 hours	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-107-RÖRL WW-MA-107-RÖRL	Regulierung und Ökonomie der Rechnungslegung	Prof. Dr. Michael Dobler wus@mailbox.tu-dresden.de
Qualification objectives	Students have in-depth knowledge of the interplay of regulations and incentives in external accounting. They are able to assess rule-making processes, the design of accounting regulations and their effect on accounting legends and capital markets on the basis of economic concepts. They can combine approaches and theories for explaining and measuring lobbying, voluntary publicity and balance sheet policy and thus derive a problem-aware analysis of external accounting.	
Contents	The content of the module is the interplay of norms and incentives in external accounting, in particular with regard to standard-setting, purposes, accounting policy and publicity, as well as their analysis on the basis of conceptual, analytical and empirical approaches.	
Teaching and learning methods	Lecture: 2 hours per week Practical: 1 hour per week Independent study The language of the module is German.	
Prerequisites for participation	Basic knowledge of accounting, annual financial statements, investment and financing as well as linear algebra at Bachelor's level is required.	
Usability	MA BWL: Field Business Administration MA WiPäd, D WiInf, D WiIng: Field Business Administration and Economics The selection must be made in accordance with the examination regulations.	
Examination	More than three registered students: written exam, 60 minutes Up to three registered students: non-public oral examination, 20 minutes duration as an individual examination	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-104-REMA WW-MA-104-REMA	Relationship Marketing	Prof. Dr. Florian Siems florian.siems@tu-dresden.de
Qualification objectives	Students will gain an overview of the theoretical foundations of relationship marketing, understand the connections with other disciplines (especially classical marketing) and understand analysis and management methods relevant to relationship marketing (especially in the area of customer satisfaction). You will apply relationship marketing-relevant analysis and management methods and will be able to classify and understand current scientific work in this area.	
Contents	The contents of the module are the origin and theoretical foundations of relationship marketing. Furthermore, analysis and management methods related to relationship marketing (especially in the area of customer satisfaction management) are part of the module.	
Teaching and learning methods	Lecture: 2 hours per week Independent study The language of the module is German.	
Prerequisites for participation	Knowledge of marketing at Bachelor's level is required. Furthermore, English language skills at level B2 of the Common European Framework of Reference for Languages are required.	
Usability	MA BWL: Field Business Administration MA WiPäd, D WiInf, D WiIng: Field Business Administration and Economics The selection must be made in accordance with the examination regulations.	
Examination	Written exam, 60 minutes	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-106-RCRM WW-MA-106-RCRM	Risikocontrolling und Risikomanagement	Prof. Dr. Thomas Günther lehrstuhl.controlling@tu-dresden.de
Qualification objectives	Students understand the tasks and objectives of risk control and risk management. They have an overview of the various subsystems of risk management, risk management systems, risk assessment, risk modeling, and risk reporting.	
Contents	The module covers the basics of risk management, risk management systems, risk assessment, risk modeling, and risk reporting. The module is designed for managers and executives who are responsible for risk management in their organizations. The module is also suitable for employees who are involved in risk management processes.	
Teaching and learning methods	Lecture: 1 hour per week Practical: 1 hour per week Independent study The language of the module is German.	
Prerequisites for participation	Business administration knowledge at bachelor's level is required, as taught, for example, in the module on annual financial statements, investment, and financing.	
Usability	MA BWL: Field Business Administration MA WiPäd, D WiInf, D WiIng: Field Business Administration and Economics The selection must be made in accordance with the examination regulations.	
Examination	Non-public oral examination as a group examination of 15 minutes for the individual examination supervisor	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-114-RMEW WW-MA-114-RMEW	Risikoquantifizierung und -management in der Energiewirtschaft	Prof. Dr. Dominik Möst ee2@mailbox.tu-dresden.de
Qualification objectives	Students are able to reproduce basic terms, definitions, concepts and methods of risk quantification and risk management and identify relevant parameters. Students are able to apply and reproduce financial mathematical models in the energy industry. The students are able to apply methods of risk controlling and management and to transfer them to new issues and to distinguish between different risks and to evaluate them.	
Contents	The module covers the basics of risk management and related instruments (including forwards and options). In addition, portfolio management and risk hedging are part of the module. Against the background of the energy industry, the module also includes risk measurement and management, risk assessment and risks in project financing.	
Teaching and learning methods	Lecture: 1 hour per week Practical: 1 hour per week Independent study The language of the module can be German or English and is determined at the beginning of each semester and announced in the usual manner.	
Prerequisites for participation	Knowledge of the requirements of liberalised energy markets at Bachelor's level is required.	
Usability	MA BWL: Field Business Administration MA WiPäd, D WiInf, D WiIng: Field Business Administration and Economics The selection must be made in accordance with the examination regulations.	
Examination	More than ten registered students: written exam, 90 minutes Up to ten registered students: non-public oral examination, 45 minutes duration as an individual examination	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-103-SIMO WW-MA-103-SIMO	Simulation und Modellierung	Prof. Dr. Udo Buscher bwlim@tu-dresden.de
Qualification objectives	The students are familiar with methods of discrete event simulation, can apply them and understand their advantages and disadvantages. They are able to model production systems using appropriate software and optimize them with the help of simulation methods. The students can build the experimental design of a simulation study for a given problem and interpret and evaluate its results.	
Contents	The contents of the module are the basics of discrete event simulation, the modeling of queue systems using appropriate software, the setup and interpretation of simulation studies as well as the analysis and optimization of industrial systems with the help of appropriate tools.	
Teaching and learning methods	Lecture: 2 hours per week Practical: 1,5 hours per week Independent study The language of the module is German. The practical is limited to 25 participants, selection based on the order of enrollment.	
Prerequisites for participation	Knowledge of programming as well as calculus and linear algebra at Bachelor's level is required.	
Usability	MA BWL, MA WiPäd, D WiInf, D WiIng: Field Methods and Procedures The selection must be made in accordance with the examination regulations.	
Examination	Complex assesment, 90 hours	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-102-STSM WW-MA-102-STSM WW-MA-PIE-SSM	Strategic Sustainability Management	Dr. Remmer Sassen lehre_bu@mailbox.tu-dresden.de
Qualification objectives	Students have a basic understanding of strategic sustainability management. You will understand the roles and responsibilities of sustainable and strategic leadership and will be able to apply strategic corporate management tools in relation to sustainability issues.	
Contents	The content of the module is the determinants of strategic sustainability management, roles and responsibilities of sustainable and strategic leadership, as well as instruments of strategic corporate management and problems of sustainability.	
Teaching and learning methods	Lecture: 1 hour per week Tutorial: 1 hour per week Independent study The language of the module is English.	
Prerequisites for participation	Knowledge of accounting, annual financial statements, investment and financing as well as marketing and sustainable corporate management at Bachelor's level is required. The following literature is suitable for preparation: Hahn, R: Sustainability Management. Block Services, latest edition.	
Usability	MA BWL: Field Business Administration MA WiPäd, D WiInf, D WiIng: Field Business Administration and Economics MA PIE The selection must be made in accordance with the examination regulations.	
Examination	Combined term paper, 90 hours	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-106-STCO WW-MA-106-STCO	Strategisches Controlling	Prof. Dr. Thomas Günther lehrstuhl.controlling@tu-dresden.de
Qualification objectives	Students know and master the fundamentals of strategic management and strategic controlling. They are able to design business and corporate strategies and manage their implementation.	
Contents	The module covers the fundamentals of strategic management and strategic controlling.	
Teaching and learning methods	Lecture: 2 hours per week Practical: 1 hour per week Independent study The language of the module is German. The module is limited to 70 participants, selection based on the order of enrollment.	
Prerequisites for participation	Business management knowledge at bachelor's level is required.	
Usability	MA BWL: Field Business Administration MA WiPäd, D WiInf, D WiIng: Field Business Administration and Economics The selection must be made in accordance with the examination regulations.	
Examination	Non-public oral examination as a group examination of 15 minutes for the individual examination supervisor	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-102-SPNM WW-MA-102-SPNM	Studienprojekte im Nachhaltigkeitsmanagement	Prof. Dr. Remmer Sassen Lehre_bu@mailbox.tu-dresden.de
Qualification objectives	After completing the module, students will be able to independently answer complex questions of sustainable corporate management as well as risk management or resource economics scientifically and to create and apply their own practice-oriented concepts for the integration of ecological, economic and social aspects in decisions. In addition, students can solve problems independently in groups and pre-sent their proposed solutions in written form.	
Contents	The content of the module is the processing of a practice-relevant problem on sustainability management with a practice partner.	
Teaching and learning methods	Seminar: 4 hours per week Independent study The language of the module can be German or English and is determined at the beginning of each semester and announced in the usual manner. The seminar is limited to 30 participants, selection based on the orde	
Prerequisites for participation	Knowledge of business administration and organization as well as marketing and sustainable corporate management at Bachelor's level is required. Furthermore, English language skills at level B2+ of the Common European Framework of Reference for Languages are required.	
Usability	MA BWL: Field Business Administration MA WiPäd, D WiInf, D WiIng: Field Business Administration and Economics MA PIE The selection must be made in accordance with the examination regulations.	
Examination	Term paper, 90 hours	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-113-TEMA WW-MA-113-TEMA WW-MA-PIE-TMA	Technology Management	Prof. Dr. Michael Schefczyk mandy.windisch@tu-dresden.de
Qualification objectives	The students have a sound knowledge of the basics and possible applications in the field of technology management. They can apply this knowledge independently to practice-related issues in a situation-appropriate manner. In addition, they are able to work in teams to analyze complex issues in the areas of the fundamentals of technology management, intellectual property rights and market transactions as well as the internationalization of technologies, to develop solutions in a targeted manner and to implement them during the event.	
Contents	The central contents of the module include the basics of technology management, intellectual property rights and market transactions as well as the internationalization of technologies. Other areas of focus can be: forecasting and evaluating technologies, technology procurement, use and licensing.	
Teaching and learning methods	Seminar: 2 hours per week Independent study The language of the module can be German or English and is determined at the beginning of each semester and announced in the usual manner.	
Prerequisites for participation	Knowledge of business administration, organization, marketing, sustain-able corporate management, annual financial statements, investment and financing at bachelor's level as well as basic knowledge of innovation and product management are required.	
Usability	MA BWL: Field Business Administration MA WiPäd, D WiInf, D WiIng: Field Business Administration and Economics MA PIE The selection must be made in accordance with the examination regulations.	
Examination	Complex assesment, 90 hours	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-111-TOMS WW-MA-111-TOMS	Trends in Organization and Management Studies	Prof. Dr. Stefan Razinskas orga.wiwi@tu-dresden.de
Qualification objectives	<p>Students are familiar with current issues in modern organizational and management theory. They are able to prepare, present, analyze, and discuss these issues in teams using scientific methods.</p> <p>Students have key qualifications in the areas of rhetoric, presentation and presentation techniques, as well as social skills and teamwork.</p>	
Contents	<p>The module covers theoretical and empirical research contributions of a fundamental and application-oriented nature on current issues in organizational and management theory that change annually.</p>	
Teaching and learning methods	<p>Seminar: 3 hours per week Independent study The language of the module is English. The module is limited to 20 participants, selection based on the order of enrollment.</p>	
Prerequisites for participation	<p>The module requires basic knowledge of scientific work and business administration, in particular organization and human resource management at bachelor's level. Furthermore, English language skills at level B2 of the Common European Framework of Reference for Languages are required.</p>	
Usability	<p>MA BWL: Fields Business Administration, Presenting and Discussing D WiInf, D WiIng: Fields Business Administration and Economics, Presenting and Discussing MA WiPäd: Field Business Administration and Economics Students must choose according to the respective examination regulations. The choice is only permitted for one of the fields mentioned.</p>	
Examination	Complex assessment, 90 hours	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-103-WANR WW-MA-103-WANR	Wirtschaftswissenschaftliche Anwendungen mit R	Prof. Dr. Udo Buscher bwlim@tu-dresden.de
Qualification objectives	The students are able to structure, analyze, model and evaluate problems on the basis of the problem data, as well as to process them graphically.	
Contents	The contents of the module are the basics and structure of the R language in particular as well as its application.	
Teaching and learning methods	Seminar: 2 hours per week Independent study The language of the module is German. The seminar is limited to 30 participants, selection based on the order of enrollment.	
Prerequisites for participation		
Usability	MA BWL: Fields Business Administration, Methods and Procedures MA WiPäd, D WiIng: Fields Business Administration and Economics, Methods and Procedures D WiInf: Fields Business Administration and Economics, Business Information Systems, Methods and Procedures Students must choose according to the respective examination regulations. The choice is only permitted for one of the fields mentioned.	
Examination	Written exam, 90 minutes	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each semester	
Duration	One semester	

Economics

Module number	Module name	Responsible lecturer
WW-D-203-ADTI WW-MA-203-ADTI WW-MA-PIE-AIE	Advanced Topics in International Economics	Prof. Dr. Christian Leßmann christian.lessmann@tu-dresden.de
Qualification objectives	Students are familiar with current theoretical and empirical research in international economics. They can apply theoretical models and empirical methods, discuss the consequences of methodological differences, and write academic papers in the field.	
Contents	Advanced questions of international economics, theoretical and empirical contributions and methods of scientific research and selected approaches to address specific research questions.	
Teaching and learning methods	Seminar: 2 hours per week Independent study The language of the module is English. The seminar is limited to 20 participants; selection based on the order of enrollment.	
Prerequisites for participation	Microeconomics and macroeconomics at the Bachelor's level. Literature for preparation: Varian, H: Microeconomic Analysis. Norton, latest edition, Blanchard, O.: Macroeconomics. Pearson, latest edition.	
Usability	MA BWL: Fields Supplementary Qualifications, Presenting and Discussing D WiInf, D WiIng: Fields Business Administration and Economics, Presenting and Discussing MA WiPäd: Field Business Administration and Economics MA PIE Students must choose according to the respective examination regulations. The choice is only permitted for one of the fields mentioned.	
Examination	Complex assessment, 90 hours	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-208-AFÖK WW-MA-208-AFÖK	Aktuelle Fragen der Ökonometrie	Prof. Dr. Bernhard Schipp econometrics@tu-dresden.de
Qualification objectives	Students are familiar with current issues in empirical econometrics and their application. They are able to analyze and discuss them.	
Contents	The module focuses on current research issues in the field of theoretical and empirical econometrics.	
Teaching and learning methods	Seminar: 2 hours per week Independent study The language of the module is German.	
Prerequisites for participation	Knowledge of econometrics at Bachelor's level is required.	
Usability	MA BWL, MA WiPäd, D WiInf, D WiIng: Field Supplementary Qualifications The selection must be made in accordance with the examination regulations.	
Examination	Complex assesment, 90 hours	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-241-CGEA WW-MA-241-CGEA	Computable General Equilibrium Analysis	Prof. Dr. Artem Korzhenevych artem.korzhenevych@tu-dresden.de
Qualification objectives	Students are familiar with the method of applied equilibrium modeling and understand its microeconomic and macroeconomic foundations. You can create simple models with the help of the GAMS software and analyze the results. They are able to fill a CGE model with data, in particular to create a "social accounting matrix" from the national accounts data. Students are able to analyse different policy measures with the help of CGE models. You are familiar with English as a language of science.	
Contents	Contents of the module are theoretical foundations, data requirements, and application of the method of applied equilibrium modeling.	
Teaching and learning methods	Lecture: 2 hours per week Practical: 2 hours per week Independent study The language of the module is English. The practical is limited to 40 participants, selection based on the order of enrollment.	
Prerequisites for participation	English language skills at CEFR B2 level and knowledge of micro- and macroeconomics at Bachelor's level are required.	
Usability	MA BWL, MA WiPäd, D WiInf, D WiIng: Field Methods and Procedures The selection must be made in accordance with the examination regulations.	
Examination	Complex assesment, 75 hours	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-221-CTER WW-MA-221-CTER WW-MA-PIE-TER	Current Topics in Empirical Economic Research	Jun.-Prof. Dr. Valentin Lindlacher valentin.lindlacher@tu-dresden.de
Qualification objectives	Students are able to analyse quantitative, research-oriented literature in economics as well as to grasp and evaluate relevant problems and re-search questions of empirical economic research and to classify them in further interdependencies.	
Contents	The contents of the module are current issues of empirical economic re-search and basic methods of application-oriented research.	
Teaching and learning methods	Seminar: 2 hours per week Independent study The language of the module is English. The seminar is limited to 25 participants, selection based on the order of enrollment.	
Prerequisites for participation	Knowledge of microeconomics, macroeconomics and econometrics at Bachelor's level is required. The following literature is suitable for preparation: Varian, H: Microeconomic Analysis. Norton, most recent edition, Blanchard, O.: Macroeconomics. Pearson, most recent edition, Gujarati, D. N.; Porter, D. C.: Basic Econometrics. McGraw-Hill, latest edition.	
Usability	MA BWL: Fields Supplementary Qualifications, Presenting and Discussing D WiInf, D WiIng: Fields Business Administration and Economics, Presenting and Discussing MA WiPäd: Field Business Administration and Economics MA PIE Students must choose according to the respective examination regulations. The choice is only permitted for one of the fields mentioned.	
Examination	Complex assesment, 25 hours	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-204-CTME WW-MA-204-CTME WW-MA-PIE-TME	Current Topics in International Monetary Economics	Prof. Dr. Stefan Eichler stefan.eichler@tu-dresden.de
Qualification objectives	Students are able to answer current questions in the field of financial crises, such as currency, banking and debt crises. They are able to analyse these questions from a theoretical, empirical and economic policy perspective.	
Contents	The contents of the module are theoretical and empirical economic policy research contributions of a fundamental and application-oriented nature to current applied problems of international monetary economics.	
Teaching and learning methods	Seminar: 2 hours per week Independent study The language of the module is English. The seminar is limited to 20 participants, selection based by lottery.	
Prerequisites for participation	Knowledge of microeconomics and macroeconomics at Bachelor's level is required. The following literature is suitable for preparation: Varian, H: Microeconomic Analysis. Norton, most recent edition, Blanchard, O.: Macroeconomics. Pearson, most recent edition, Gujarati, D. N.; Porter, D. C.: Basic Econometrics. McGraw-Hill, latest edition.	
Usability	MA BWL: Fields Supplementary Qualifications, Presenting and Discussing D WiInf, D WiIng: Fields Business Administration and Economics, Presenting and Discussing MA WiPäd: Field Business Administration and Economics MA PIE Students must choose according to the respective examination regulations. The choice is only permitted for one of the fields mentioned.	
Examination	Combined term paper, 90 hours	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-203-EMEC WW-MA-203-EMEC WW-MA-PIE-EEC	Empirical Economics	Prof. Dr. Christian Leßmann christian.lessmann@tu-dresden.de
Qualification objectives	Students are familiar with the application of modern empirical methods of economics. They are able to use them independently.	
Contents	The contents of the module are the basics and methods of empirical economic research as well as the use of statistical software. Based on regression models, methods that allow causal interpretations are further contents of the module.	
Teaching and learning methods	Lecture: 2 hours per week Tutorial: 1,5 hour per week Independent study The language of the module is English. The module is limited to 60 participants, selection based by lottery.	
Prerequisites for participation	Knowledge of mathematics, especially calculus, stochastics and inferen-tial statistics at Abitur level, basic course, is required.	
Usability	MA BWL, A WiPäd, D WiInf, D WiIng: Field Methods and Procedures The selection must be made in accordance with the examination regulations. The module creates the prerequisites for the module Advanced Topics in Applied Econometrics.	
Examination	Complex assesment, 25 hours	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-205-ELEC WW-MA-205-ELEC WW-MA-PIE-ELE	Empirical Labor Economics	Dr. Andreas Leibing andreas.leibing@tu-dresden.de
Qualification objectives	Students will learn about the suitability and application of various microeconomic methods in the field of labor market economics. Using current research papers, students will learn about common quantitative methods and their assumptions, as well as the state of research in empirical labor market economics.	
Contents	The module covers the various determinants of inequality in the labor market, both on the demand side and on the supply side. The methods used include standard microeconomic techniques for identifying causal effects.	
Teaching and learning methods	Lecture: 2 hours per week, Independent study The language of the module is English.	
Prerequisites for participation	Knowledge of econometrics, as taught in the Empirical Economics module, for example, is required.	
Usability	MA BWL: Fields Methods and Procedures, Supplementary Qualifications, MA WiPäd, D WiInf, D WiIng: Fields Business Administration and Economics, Methods and Procedures, Supplementary Qualifications MA PIE Students must choose according to the respective examination regulations. The choice is only permitted for one of the fields mentioned.	
Examination	Written exam, 90 minutes	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-204-EXCR WW-MA-204-EXCR WW-MA-PIE-EXC	Exchange Rates	Prof. Dr. Stefan Eichler stefan.eichler@tu-dresden.de
Qualification objectives	Students are familiar with the functioning and structure of foreign exchange markets. They are familiar with theoretical and empirical questions of interest rate and purchasing power parity and understand the short- and long-term dynamics of exchange rates. They can explain the development of foreign exchange markets and their institutional structure.	
Contents	The contents of the module are the basics of exchange rates and foreign exchange markets, in particular structure, pricing and liquidity on the foreign exchange market, purchasing power and interest rate parity, the Mundell-Fleming model and the monetary model of exchange rate formation.	
Teaching and learning methods	Lecture: 2 hours per week Practical: 1 hour per week Independent study The language of the module is English.	
Prerequisites for participation	Knowledge of microeconomics, macroeconomics and econometrics at Bachelor's level is required. The following literature is suitable for preparation: Varian, H: Microeconomic Analysis. Norton, most recent edition, Blanchard, O.: Macroeconomics. Pearson, most recent edition, Gujarati, D. N.; Porter, D. C.: Basic Econometrics. McGraw-Hill, latest edition.	
Usability	MA BWL: Field Supplementary Qualifications MA WiPäd, D WiInf, D WiIng: Field Business Administration and Economics MA PIE The selection must be made in accordance with the examination regulations.	
Examination	Written exam, 60 minutes	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-207-IPEC WW-MA-207-IPEC WW-MA-PIE-IPE	International Public Economics	Prof. Dr. Marcel Thum marcel.thum@tu-dresden.de
Qualification objectives	Students are able to place fundamental concepts of finance in a global context. In particular, they understand the strategic interaction between states and are able to analyse and evaluate policy measures in a globalised world.	
Contents	The content of the module is the motivation and effects of national policy measures in an international context in the absence of a so-called world government. The focus is on the strategic interaction between states in the design of economic policy instruments, modelled with the help of cooperative and non-cooperative concepts of game theory.	
Teaching and learning methods	Lecture: 2 hours per week Practical: 1 hour per week Independent study The language of the module is English.	
Prerequisites for participation	Knowledge of microeconomics, macroeconomics and econometrics at Bachelor's level is required. The following literature is suitable for preparation: Varian, H: Microeconomic Analysis. Norton, most recent edition, Blanchard, O.: Macroeconomics. Pearson, most recent edition, Gujarati, D. N.; Porter, D. C.: Basic Econometrics. McGraw-Hill, latest edition.	
Usability	MA BWL: Field Supplementary Qualifications MA WiPäd, D WiInf, D WiIng: Fields Business Administration and Economics MA PIE The selection must be made in accordance with the examination regulations.	
Examination	Written exam, 90 minutes	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-208-MIEC WW-MA-208-MIEC WW-MA-PIE-MEC	Microeconometrics	Prof. Dr. Bernhard Schipp econometrics@tu-dresden.de
Qualification objectives	The students are familiar with econometric analysis methods based on individual data. You will be familiar with the current methods of microe-conometrics and will be able to use them to deal with economic issues.	
Contents	The module includes generalized linear models, maximum likelihood estimators, binomial/logit/probit models, multinomial models, regressions with censored and truncated variables, such as tobit models, dwell time models, hazard rate models, and panel data analysis.	
Teaching and learning methods	Lecture: 2 hours per week Practical: 2 hours per week Independent study The language of the module is English.	
Prerequisites for participation	Knowledge of statistics and econometrics, in particular interval estimators and hypothesis tests as well as linear multiple regression models, is required at Bachelor's level. The following literature is suitable for preparation: Gujarati, D. N.; Porter, D. C.: Basic Econometrics. McGraw-Hill, latest edition.	
Usability	MA BWL, MA WiPäd, D WiInf, D WiIng: Field Methods and Procedures MA PIE The selection must be made in accordance with the examination regulations. The module creates the prerequisites for the module Advanced Topics in Applied Econometrics.	
Examination	Written exam, 90 minutes	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-221-MPDE WW-MA-221-MPDE WW-MA-PIE-MDE	Microeconomic Perspectives on Development Economics	Jun.-Prof. Dr. Valentin Lindlacher valentin.lindlacher@tu-dresden.de
Qualification objectives	Students are familiar with relevant topics and models of modern development economics as well as models of comparative development research. They are able to apply the role of various factors, such as health, education and private wealth, to the development of individuals and to critically examine the resulting policy measures.	
Contents	The module covers the role of different types of capital, in particular human, tangible, financial and social capital, coordination failures, models of asymmetric information, simple behavioural models and specific policy measures.	
Teaching and learning methods	Lecture: 2 hours per week Practical: 1 hour per week Independent study The language of the module is English.	
Prerequisites for participation	Knowledge of microeconomics, macroeconomics and econometrics at Bachelor's level is required. The following literature is suitable for preparation: Varian, H: Microeconomic Analysis. Norton, most recent edition, Blanchard, O.: Macroeconomics. Pearson, most recent edition, Gujarati, D. N.; Porter, D. C.: Basic Econometrics. McGraw-Hill, latest edition.	
Usability	MA BWL: Field Supplementary Qualifications MA WiPäd, D WiInf, D WiIng: Field Business Administration and Economics MA PIE The selection must be made in accordance with the examination regulations.	
Examination	Complex assessment, 25 hours	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-201-PECT WW-MA-201-PECT	Principles of Economic Theory	Prof. Dr. Alexander Kemnitz alexander.kemnitz@tu-dresden.de
Qualification objectives	After completing the module, students will be familiar with current mi-cro- and macroeconomic theories and their formal analysis techniques. You will be able to use these instruments in the subsequent modules of the Master's programme to deal with economic issues.	
Contents	Contents of the module are household and production theory, game theory, imperfect competition, international trade, growth and general equilibrium as well as static and dynamic optimization.	
Teaching and learning methods	Lecture: 2 hours per week Tutorial: 1 hour per week Independent study The language of the module is English.	
Prerequisites for participation	Knowledge of basic economic terms such as economic cycle, economic and market forms, economic analysis methods such as equilibrium analysis and comparative statics at Bachelor's level is required, as discussed for example in The Core Team (Ed.). 2017. The Economy. Oxford University Press, as well as knowledge of calculus, stochastics and inferential statistics at basic course Abitur level.	
Usability	MA BWL, MA WiPäd, D WiInf, D WiIng: Field Methods and Procedures The selection must be made in accordance with the examination regulations.	
Examination	Complex assesment, 25 hours	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-MA-PIE-PPI	Principles of Public and International Economics	Prof. Dr. Alexander Kemnitz alexander.kemnitz@tu-dresden.de
Qualification objectives	Students are familiar with current theories and formal analysis techniques of finance and foreign trade. They are able to use these tools to deal with economic issues.	
Contents	Contents of the module are budget and production theory, game theory, imperfect competition, international trade, growth and general equilibrium as well as applied computer-based modeling.	
Teaching and learning methods	Lecture: 4 hours per week Practical: 1 hour per week Tutorial: 2 hours per week Independent study The language of the module is English.	
Prerequisites for participation	Knowledge of basic economic concepts, in particular economic cycle, economic forms, market forms, and economic analysis methods, in particular equilibrium analysis, comparative statics at Bachelor's level, as well as mathematics, in particular analysis, stochastics and inferential statistics at Abitur level, basic course, is required. The following literature is suitable for preparation: . https://www.core-econ.org/the-economy/ .	
Usability		
Examination	Complex assesment, 50 hours	
Workload and Credit points	360 hours, 12 credit points	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-201-SPIL WW-MA-201-SPIL	Spieltheorie	Prof. Dr. Alexander Kemnitz alexander.kemnitz@tu-dresden.de
Qualification objectives	Students are familiar with basic and advanced concepts of game theory. They can present and explain the strategic behavior of players and their interactions, independently model conflict situations in different economic contexts and are able to analyze them adequately.	
Contents	The contents of the module are static and dynamic games with complete and incomplete information as well as evolutionary and experimental game theory with applications in business, economics and political science contexts.	
Teaching and learning methods	Lecture: 2 hours per week Independent study The language of the module is German.	
Prerequisites for participation	Knowledge of game theory at Bachelor's level is required.	
Usability	MA BWL, MA WiPäd, D WiInf, D WiIng: Field Methods and Procedures The selection must be made in accordance with the examination regulations.	
Examination	Written exam, 120 minutes	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-207-TTAX WW-MA-207-TTAX WW-MA-PIE-TAX	Theory of Taxation	Prof. Dr. Marcel Thum marcel.thum@tu-dresden.de
Qualification objectives	Students have an in-depth understanding of central concepts of tax theory. They are able to penetrate and assess the impact of tax policy measures.	
Contents	The module focuses on the basic incentive and incidence effects of direct and indirect taxation as well as the optimal design of tax systems and tax reforms	
Teaching and learning methods	Lecture: 2 hours per week Practical: 1 hour per week Independent study The language of the module is English.	
Prerequisites for participation	Knowledge of microeconomics, macroeconomics and econometrics at Bachelor's level is required. The following literature is suitable for preparation: Varian, H: Microeconomic Analysis. Norton, most recent edition, Blanchard, O.: Macroeconomics. Pearson, most recent edition, Gujarati, D. N.; Porter, D. C.: Basic Econometrics. McGraw-Hill, latest edition.	
Usability	MA BWL: Field Supplementary Qualifications MA WiPäd, D WiInf, D WiIng: Field Business Administration and Economics MA PIE The selection must be made in accordance with the examination regulations.	
Examination	Written exam, 90 minutes	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-201-TECP WW-MA-201-TECP WW-MA-PIE-TEP	Topics in Economic Policy	Prof. Dr. Alexander Kemnitz alexander.kemnitz@tu-dresden.de
Qualification objectives	Students are able to scientifically analyze a current economic policy problem. You will be able to evaluate alternative solutions and be proficient in communicating specialist knowledge in English.	
Contents	The contents of the module are theoretical and empirical economic policy research contributions of a fundamental and application-oriented nature to current applied problems of economic policy.	
Teaching and learning methods	Seminar: 2 hours per week Independent study The language of the module is English. The seminar is limited to 20 participants, selection based by lottery,	
Prerequisites for participation	Knowledge of microeconomics and macroeconomics at Bachelor's level is required. The following literature is suitable for preparation: Varian, H: Microeconomic Analysis. Norton, most recent edition, Blanchard, O.: Macroeconomics. Pearson, most recent edition, Gujarati, D. N.; Porter, D. C.: Basic Econometrics. McGraw-Hill, latest edition.	
Usability	MA BWL: Fields Supplementary Qualifications, Presenting and Discussing D WiInf, D WiIng: Fields Business Administration and Economics, Presenting and Discussing MA WiPäd: Field Business Administration and Economics MA PIE Students must choose according to the respective examination regulations. The choice is only permitted for one of the fields mentioned.	
Examination	Combined term paper, 90 hours	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-205-TPEV WW-MA-205-TPEV WW-MA-PIE-TPV	Topics in Policy Evaluation	Prof. Dr. Kamila Cygan-Rehm wiwi-econometrics@tu-dresden.de
Qualification objectives	Students are familiar with modern methods and applied challenges in empirical policy evaluations. They are able to analytically record the evaluation of concrete policy interventions, propose suitable research designs and critically deal with the central assumptions. In addition, they learn to assess the quality of empirical studies with regard to the study design used, the database and the derived policy recommendations.	
Contents	The module deals with common methods of policy evaluation (random-ized trials, difference-in-differences, regression discussibility, instrument variable estimation, matching, etc.) as well as their applications in the field of labor market, education, social and health policy (with changing focus-es). The current focus will be announced at the beginning of the semester in the usual way.	
Teaching and learning methods	Seminar: 2 hours per week Independent study The language of the module is English. The seminar is limited to 15 participants, selection based on the order of enrollment.	
Prerequisites for participation	English language skills according to level B2 of the Common European Framework of Reference for Languages as well as knowledge of econometrics at Bachelor's level are required.	
Usability	MA BWL: Fields Methods and Procedures, Supplementary Qualifications, Presenting and Discussing D WiInf, D WiIng: Fields Methods and Procedures, Business Administration and Economics, Presenting and Discussing MA WiPäd: Fields Methods and Procedures, Business Administration and Economics MA PIE Students must choose according to the respective examination regulations. The choice is only permitted for one of the fields mentioned.	
Examination	Combined term paper, 100 hours	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each semester	
Duration	One semester	

Business Education and Management Training

Module number	Module name	Responsible lecturer
WW-D-115-AHPM WW-MA-115-AHPM	Aktuelle Herausforderungen des Personalmanagements	Prof. Dr. Bärbel Fürstenau sekretariat.wipaed@mailbox.tu-dresden.de
Qualification objectives	Students will be able to discuss current challenges in human resource management, analyze theoretical foundations, empirical findings, and methods for different human resources functions and, based on this, select suitable measures for adequately dealing with these challenges. They are able to apply their knowledge and skills to scientific work.	
Contents	The module focuses on current challenges of the various HR functions in the context of human resource management, their theoretical foundations, associated methods and empirical findings.	
Teaching and learning methods	Seminar: 2 hours per week Independent study The language of the module can be German or English and is determined at the beginning of each semester and announced in the usual manner. The seminar is limited to 30 participants, selection based by lottery.	
Prerequisites for participation	The module requires basic knowledge of business administration, in particular human resources management, at the level of a completed bachelor's degree in economics or comparable.	
Usability	MA BWL: Field Business Administration MA WiPäd, D WiInf, D WiIng: Field Business Administration and Economics The selection must be made in accordance with the examination regulations.	
Examination	Complex assesment, 90 hours	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-115-ATWP WW-MA-115-ATWP	Aktuelle Themen der Wirtschaftspädagogik	Prof. Dr. Bärbel Fürstenau sekretariat.wipaed@mailbox.tu- dresden.de
Qualification objectives	The students present current issues in business education from theory and practice using scientific methods, analyze and discuss them.	
Contents	The contents of the module are current issues of business education from theory and practice.	
Teaching and learning methods	Seminar: 2 hours per week Independent study The language of the module can be German or English and is determined at the beginning of each semester and announced in the usual manner. The seminar is limited to 30 participants, selection based by lottery.	
Prerequisites for participation	Basic knowledge of educational psychology, business didactics and commercial education at Bachelor's level is required.	
Usability	MA BWL: Fields Business Administration, Supplementary Qualifications MA WiPäd: Fields Business Education and Management Training, Business Administration and Economics D WiInf, D WiIng: Fields Business Administration and Economics, Supplementary Qualifications Students must choose according to the respective examination regulations. The choice is only permitted for one of the fields mentioned.	
Examination	Complex assesment, 90 hours	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-115-LIPA WW-MA-115-LIPA	Lernen im Prozess der Arbeit	Prof. Dr. Bärbel Fürstenau sekretariat.wipaed@mailbox.tu-dresden.de
Qualification objectives	The students know and understand the term learning as well as the theories and research results on learning in the process of work and critically question them. They understand various factors influencing learning in the process of work, can fathom them and apply the knowledge they have acquired with the aim of analysing and shaping work processes from a learning point of view. They are able to derive possible action measures that can improve learning in the process of working in an organization or make it more effective. They can solve application-oriented (case) studies, present their results and critically question them and the results of fellow students.	
Contents	Contents include theories and current research results on learning in the process of work ("workplace learning"), methods of combining learning and working, work design that promotes learning as well as technical, organizational and personal factors influencing learning in the process of work. Depending on current developments (e.g. in the working environment), topics are added. This content is scientifically analysed and the acquired knowledge is applied in a practical way.	
Teaching and learning methods	Seminar: 2 hours per week Independent study The language of the module can be German or English and is determined at the beginning of each semester and announced in the usual manner. The seminar is limited to 30 participants, selection based by lottery.	
Prerequisites for participation	The module requires sound knowledge of classical learning theories as well as personnel development, organization and management at the level of a completed bachelor's degree in business education or economics or comparable.	
Usability	MA BWL: Fields Business Administration, Supplementary Qualifications MA WiPäd: Fields Business Administration and Economics, Business Education and Management Training D WiInf, D WiIng: Fields Business Administration and Economics, Supplementary Qualifications Students must choose according to the respective examination regulations. The choice is only permitted for one of the fields mentioned.	
Examination	Combined term paper, 90 hours	
Workload and Credit points	150 hours, 5 credit points	

Frequency	Offered each winter semester
Duration	One semester

Module number	Module name	Responsible lecturer
WW-MA-MMEL WW-D-115-MMEL WW-MA-115-MML	Multimediales Lernen	Prof. Dr. Bärbel Fürstenau sekretariat.wipaed@mailbox.tu-dresden.de
Qualification objectives	The students know and understand what is meant by multimedia, know and understand the psychological foundations of multimedia learning, the cognitive theory of multimedia learning as well as the principles for the design of multimedia and analyse existing multimedia materials and apply the design principles to materials to be created by them-selves.	
Contents	Contents are central concepts in connection with multimedia learning, learning psychology basics of multimedia learning, theories of multimedia learning as well as theory and practice of the development and analysis of multimedia teaching and learning materials.	
Teaching and learning methods	Seminar: 2 hours per week Project: 1 hour per week Independent study The language of the module can be German or English and is determined at the beginning of each semester and announced in the usual manner. The seminar is limited to 30 participants, se	
Prerequisites for participation	Knowledge of classical learning theories at Bachelor's level is required.	
Usability	MA WiPäd 1 MA WiPäd 2: Field Business Administration and Economics MA BWL: Fields Business Administration, Supplementary Qualifications D WiInf, D WiIng: Fields Field Business Administration and Economics, Supplementary Qualifications MA PIE Students must choose according to the respective examination regulations. The choice is only permitted for one of the fields mentioned.	
Examination	Complex assesment, 90 hours	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-MA-NTLL WW-D-115-NTLL WW-MA-115-NTLL	Neuere Theorien des Lehrens und Lernens	Prof. Dr. Bärbel Fürstenau sekretariat.wipaed@mailbox.tu-dresden.de
Qualification objectives	The students know, understand and reflect on newer theories, models and approaches to teaching and learning as well as current findings from related subject areas and research strands and apply the findings to the design and analysis of practical examples or teaching-learning processes for the corporate and school context.	
Contents	Recent theories, models, and approaches to learning and teaching that are relevant to both the corporate and school context; insights from related subject areas and research strands are taken into account.	
Teaching and learning methods	Seminar: 2 hours per week, Independent study The language of the module can be German or English and is determined at the beginning of each semester and announced in the usual manner. Participation is limited to 30 participants; selection based by lotte	
Prerequisites for participation	Knowledge of classical learning theories as well as didactic approaches and models for the preparation, implementation and follow-up of lessons or training courses at Bachelor level.	
Usability	MA WiPäd MA BWL, D WiInf, D WiIng:Field Supplementary Qualifications The selection must be made in accordance with the examination regulations.	
Examination	Complex assessment, 90 hours	
Workload and Credit points	5 credit points, 150 hours	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-115-STPM WW-MA-115-STPM	Spezielle Themen des Personalmanagements	Prof. Dr. Bärbel Fürstenau sekretariat.wipaed@mailbox.tu-dresden.de
Qualification objectives	Students are able to analyze special topics of human resource management and develop solutions for them based on theory and empirical findings. They are able to independently design specific measures and critically reflect on (potential) results. They can apply their knowledge and skills to scientific work.	
Contents	The contents of the module are theories, empirical findings and measures on special topics of personnel management from the personnel functions of personnel planning and recruitment, personnel selection, personnel deployment and development or staff reduction and redundancy.	
Teaching and learning methods	Seminar: 3 hours per week Independent study The language of the module can be German or English and is determined at the beginning of each semester and announced in the usual manner. The seminar is limited to 30 participants, selection based by lottery.	
Prerequisites for participation	The module requires basic knowledge of business administration, in particular human resources management, at the level of a completed bachelor's degree in economics or comparable.	
Usability	MA BWL: Field Business Administration MA WiPäd, D WiInf, D WiIng: Field Business Administration and Economics The selection must be made in accordance with the examination regulations.	
Examination	Complex assesment, 90 hours	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-115-WDSF WW-MA-115-WDSF	Wirtschaftsdidaktik im Spannungsfeld von Theorie und Praxis	Prof. Dr. Bärbel Fürstenau sekretariat.wipaed@mailbox.tu-dresden.de
Qualification objectives	The students plan the use of teaching-learning environments for commercial education and training, adapt learning objectives, content, methods and media to the target group, the spatio-temporal and situational framework conditions and implement teaching-learning environments in practice. You will critically reflect on the learning environments and their implementation, applying and deepening basic knowledge of learning theory and didactics-methodology.	
Contents	The contents of the module are selected teaching and learning environments for commercial education and training, their teaching-learning theoretical and didactic-methodological foundations as well as framework conditions for practical application in commercial education and/or further education.	
Teaching and learning methods	Seminar: 4 hours per week Independent study The language of the module is German. The seminar is limited to 15 participants, selection based by lottery,	
Prerequisites for participation	Comprehensive didactic and methodological knowledge as well as experience in the preparation, implementation and reflection of courses or lessons as well as sound knowledge of various learning theories, educational policy, organisational and institutional issues of vocational education and training at Bachelor's level are required.	
Usability	MA BWL: Fields Business Administration, Supplementary Qualifications MA WiPäd: Field Business Education and Management Training, Business Administration and Economics D WiInf, D WiIng: Fields Business Administration and Economics, Supplementary Qualifications Students must choose according to the respective examination regulations. The choice is only permitted for one of the fields mentioned.	
Examination	Complex assesment, 90 hours	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-301-ATIH WW-MA-301-ATIH	Aktuelle Themen der Informationssysteme in Industrie und Handel	Prof. Dr. Susanne Strahringer susanne.strahringer@tu-dresden.de
Qualification objectives	Students are familiar with current issues relating to information systems in industry and commerce from theory and practice. They are able to prepare, present, analyse and discuss these questions using scientific or practical methods. You have in-depth practical project management skills as well as in-depth skills in the area of teamwork and (self-)organization.	
Contents	The contents of the module come from the topics of business application systems, IT management or modern information technologies and their operational use.	
Teaching and learning methods	Project: 2 hours per week Independent study The language of the module is German. The project is limited to 15 participants, selection based on the order of enrollment.	
Prerequisites for participation	Knowledge of the interrelationships and methods of economics, business informatics and computer science at Bachelor's level is required.	
Usability	MA BWL, MA WiPäd: Field Supplementary Qualifications D WiInf, D WiIng: Field Field Business Administration and Economics The selection must be made in accordance with the examination regulations.	
Examination	Complex assesment, 120 hours	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-301-ATIM WW-MA-301-ATIM	Aktuelle Themen des Informationsmanagements	Prof. Dr. Susanne Strahringer susanne.strahringer@tu-dresden.de
Qualification objectives	Students understand current issues in information management, can explain them and assess them with regard to their theoretical and practical relevance. They are able to investigate, classify, discuss questions in their practical relevance through the use of scientific methods and to derive scientifically sound statements. They can design solutions and implement solutions that correspond to the state of the art. They can solve tasks of this kind in teamwork and organize them as a project.	
Contents	In a project work, the students deal with current scientific issues of information management in a practical application context.	
Teaching and learning methods	Project: 2 hours per week Independent study The language of the module is English. The project is limited to 15 participants, selection based on the order of enrollment.	
Prerequisites for participation	Knowledge of general project management and methodological basics in the field of scientific work at Bachelor's level is required.	
Usability	MA BWL, MA WiPäd: Field Supplementary Qualifications D WiInf, D WiIng: Field Business Information Systems The selection must be made in accordance with the examination regulations.	
Examination	Complex assesment, 110 hours	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-305-CSRS WW-MA-305-CSRS	Case Study Research	Prof. Dr. Martin Wiener martin.wiener@tu-dresden.de
Qualification objectives	Students are familiar with central concepts, techniques and strategies along the various phases of case study research. They can explain these concepts, techniques and strategies using specific examples and apply them to classify and evaluate case study-based research work.	
Contents	Presentation and discussion of the phases of case study research as well as the analysis and evaluation of corresponding research articles.	
Teaching and learning methods	Seminar: 2 hours per week, Independent study The language of the module is English. The seminar is limited to 18 participants; selection based on the order of enrollment.	
Prerequisites for participation	Basic knowledge of scientific work at Bachelor's level; English language skills at B2 level.	
Usability	MA BWL, D WiInf, D WiIng: Fields Methods and Procedures, Presenting and Discussing MA WiPäd: Field Methods and Procedures Students must choose according to the respective examination regulations. The choice is only permitted for one of the fields mentioned.	
Examination	Complex assessment, 120 hours	
Workload and Credit points	5 credit points, 150 hours	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-305-DBEN WW-MA-305-DBEN WW-MA-PIE-DBE	Digital Business Engineering	Prof. Dr. Martin Wiener martin.wiener@tu-dresden.de
Qualification objectives	The students are familiar with essential questions and central approaches of (digital) business engineering as well as the basic principles for the methodical design of digital services and business models. In addition, they can apply selected methods and techniques to analyze and develop appropriate solutions.	
Contents	The contents of the module are essential questions, basic principles as well as selected methods and techniques of (digital) business engineering.	
Teaching and learning methods	Lecture: 1 hour per week Project: 2 hours per week Independent study The language of the module is English. The project is limited to 20 participants, selection based on the order of enrollment.	
Prerequisites for participation	Knowledge of business informatics at Bachelor's level is required.	
Usability	MA BWL: Fields Business Administration, Supplementary Qualifications MA WIPäd: Fields Business Administration and Economics, Supplementary Qualifications D WiInf, D WiIng: Fields Business Administration and Economics, Business Information Systems MA PIE Students must choose according to the respective examination regulations. The choice is only permitted for one of the fields mentioned.	
Examination	Complex assessment, 60 hours	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-335-DIHE WW-MA-335-DIHE WW-MA-PIE-DIH	Digital Health	Dr. Hannes Schlieter digital-health@tu-dresden.de
Qualification objectives	Students will be able to name the concepts of the design and management of digital health interventions and classify them in the context of information and communication systems in the healthcare sector. They are aware of the specifics of the healthcare industry, such as normative regulations, communication standards or technological limitations. Students will also be familiar with the basic concepts of providing, processing and utilizing health-related information and the associated technologies. They are able to conceptually describe, classify and evaluate systems for the provision of digital health services and integrated care concepts against the background of the overall organizational target corridor.	
Contents	Basic concepts of the design and management of digital health interventions, such as digital health applications (DiGAs), normative regulations and standards of medical informatics as well as central concepts for the design of operational information systems in integrated, patient-centered healthcare networks, such as patient pathways, electronic records, data security concepts, European strategies and digital health applications, such as digital therapeutics.	
Teaching and learning methods	Lecture: 2 hours per week, Seminar: 1 hour per week, Independent study The language of the module is English. Participation is limited to 20 participants; selection based on the order of enrollment.	
Prerequisites for participation	Good knowledge of basic concepts, methods and contexts of economics at Bachelor's level.	
Usability	MA BWL: Fields Business Administration, Supplementary Qualifications MA WiPäd, D WiInf, D WiIng: Fields Business Administration and Economics, Supplementary Qualifications MA PIE Students must choose according to the respective examination regulations. The choice is only permitted for one of the fields mentioned.	
Examination	Non-public oral examination as a group examination lasting 15 minutes per student.	
Workload and Credit points	5 credit points, 150 hours	
Frequency	Offered each winter semester	

Duration	One semester
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Foreign Languages

Module number	Module name	Responsible lecturer
WW-MA-PIE-GLSB2	German Language Skills Basics	Ute Meyer ute.meyer@tu-dresden.de
Qualification objectives	Students have a basic communicative competence in German at level A2 of the Common European Framework of Reference for Languages. They can grasp slowly and clearly articulated concrete information on everyday topics. They understand simple and short texts relating to regular and professional experience in a readable manner in terms of syntax, semantics, lexical and morphology, if the vocabulary is limited to frequently occurring and internationally understandable words. Moreover, they are able to follow short, simple conversations and straightforward presentations to a large extent, react appropriately if the topic is familiar, and describe their environment orally and in writing using simple phrases and sentences.	
Contents	Simple texts on everyday situations and specific topics, especially in a university environment, simple presentations and original documents, e.g., announcements, interviews, short audio and video sequences, relevant reading and listening strategies, simple grammatical structures and appropriate vocabulary and various forms of work with different media.	
Teaching and learning methods	Language course: 4 hours per week Independent study	
Prerequisites for participation	German language skills at level A1 of the Common European Framework of Reference for Languages.	
Usability		
Examination	Language test, 105 minutes	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-MA-PIE-GLSB1	German Language Skills Beginners	Ute Meyer ute.meyer@tu-dresden.de
Qualification objectives	Students have elementary language skills in German at level A1 of the Common European Framework of Reference for Languages. Students can slowly and clearly articulate concrete information on familiar everyday topics, understand simple and short texts in terms of syntax, semantics, lexis and morphology by reading with a focus on keywords, infer the meaning of unknown concrete terms from the context, use simple expressions to talk about their environment and respond appropriately to simple questions.	
Contents	Very simple texts and listening texts on everyday situations, especially in a university environment, elementary oral and written text production and interaction, relevant reading and listening strategies, simple grammatical structures and appropriate vocabulary and various forms of work, also with different media.	
Teaching and learning methods	Language course: 4 hours per week Independent study	
Prerequisites for participation		
Usability		
Examination	Language test, 105 minutes	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each semester	
Duration	One semester	

Supplementary Qualifications

Module number	Module name	Responsible lecturer
WW-D-401-CBIT WW-MA-401-CBIT	Cost-Benefit Evaluation of Infrastructure Projects and Traffic Law	Prof. Dr. Georg Hirte georg.hirte@tu-dresden.de
Qualification objectives	<p>Students are familiar with practical economic valuation methods in the planning of transport facilities. They are able to record legally relevant processes of movement of people, goods, and information/messages and classify them into the relevant legal categories based on the laws and regulations of transport law. Students possess social skills to grasp facts and appropriately enforce or defend claims, particularly in communicating with authorities, courts, clients, and third parties in the field of transport law. Students possess knowledge, skills, and abilities in the field of transport law. They are able to apply their knowledge to resolve minor legal cases in the areas of road traffic law, road traffic law, and railway transport law, and to assess the role of administrative jurisdiction.</p>	
Contents	<p>he module covers the evaluation methods of Federal Transport Infrastructure Planning (BVWP), in particular the standardized evaluation for public transport and the recommendation for economic feasibility studies on roads (EWS). Furthermore, important fundamentals of transport law are covered in the module.</p>	
Teaching and learning methods	<p>Lecture: 4 hours per week Independent study The language of the module is German.</p>	
Prerequisites for participation		
Usability	<p>MA BWL, MA WiPäd, D WiInf, D WiIng: Field Supplementary Qualifications The selection must be made in accordance with the examination regulations.</p>	
Examination	Written exam, 120 minutes	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-403-MTOR WW-MA-403-MTOR	Methoden des Operations Research	Prof. Dr. Jörn Schönberger joern.schoenberger@tu-dresden.de
Qualification objectives	Students will be familiar with a variety of methods and models that can be used to solve diverse optimization problems. Furthermore, students will be able to use optimization software to solve complex problems.	
Contents	The module covers the design and planning of transportation networks, transport planning and shipment design, basic models for vehicle deployment planning, integrated planning of self-provision and outsourcing, and the design of freight rates.	
Teaching and learning methods	Lecture: 2 hours per week Practical: 2 hours per week Independent study The language of the module is English.	
Prerequisites for participation	Knowledge of analysis and linear algebra at the bachelor's level is required.	
Usability	MA BWL, MA WiPäd, D WiInf, D WiIng: Field Methods and Procedures The selection must be made in accordance with the examination regulations.	
Examination	Written exam, 120 minutes	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-551-MDAN WW-MA-551-MDAN	Methods in Data Analytics	Prof. Dr. Pascal Kerschke pascal.kerschke@tu-dresden.de
Qualification objectives	Students will be familiar with basic data analysis methods. Furthermore, they will be able to apply these methods and identify and resolve any problems that may arise.	
Contents	The module covers theoretical concepts and the application of basic data analysis methods relevant to working with traffic-related data.	
Teaching and learning methods	Lecture: 2 hours per week Practical: 2 hours per week Independent study The language of the module is German.	
Prerequisites for participation	Basic knowledge of statistics and data analytics at the bachelor's level is required. The following literature is suitable for preparation: Heumann, C., Schomaker Shalab, M.: Introduction to Statistics and Data Analysis, Springer, 2016.	
Usability	MA BWL, MA WiPäd: Field Supplementary Qualifications D WiInf, D WiIng: Field Business Information Systems The selection must be made in accordance with the examination regulations.	
Examination	Written exam, 90 minutes	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-401-SPEE WW-MA-401-SPEE	Spatial Economics and the Environment	Prof. Dr. Georg Hirte georg.hirte@tu-dresden.de
Qualification objectives	Students gain a sound understanding of the microeconomic structure of spatial economic models, including mobility and external effects, as well as the key models of new economic geography. They acquire the ability to analyze key regional, transport, and environmental economic issues theoretically and numerically within the framework of these approaches. This enables students to assess socially relevant problems in a spatial-economic context and to make decisions and act responsibly for society as a whole. Students have key qualifications in the areas of rhetoric, presentation and presentation techniques, as well as social skills and the ability to work in a team. Furthermore, students' personalities are strengthened. They have basic skills in using mathematical modeling software.	
Contents	The module provides an introduction to the microeconomic fundamentals of spatial economics with reference to the topics of transport, the environment, and agglomeration. Among other things, it covers the modeling of commuting and location decisions as well as external effects. Taking into account the approach of new economic geography, policy options with a spatial reference are discussed. The modeling of complex interregional relationships is carried out within the framework of general equilibrium models using a software-based algebraic modeling language for mathematical optimization. The content is based on current regional economic research findings.	
Teaching and learning methods	Lecture: 2 hours per week Practical: 2 hour per week Independent study The language of the module is English.	
Prerequisites for participation	Knowledge of microeconomics and statistics at bachelor's level is required. The following literature is recommended for preparation: Varian, Hal R.: Intermediate Microeconomics: A Modern Approach, Norton, New York, latest edition.	
Usability	MA BWL, MA WiPäd, D WiInf, D WiIng: Field Supplementary Qualifications The selection must be made in accordance with the examination regulations.	
Examination	Complex assesment, 75 hours	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each winter semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-402-THMS WW-MA-402-THMS WW-MA-PIE-TMS	Theoretical Multivariate Statistics	Prof. Dr. Ostap Okhrin ostap.okhrin@tu-dresden.de
Qualification objectives	Students can apply frequently used methods in practice and describe multivariate data. Students are familiar with and understand the following topics and methods: matrix algebra, regression analysis, simple variance analysis, general and specific multivariate distributions, copulas, theory of multivariate normal distribution, estimation theory, and hypothesis testing. Furthermore, students master mathematical and statistical fundamentals and are able to understand other statistical methods, such as cluster analysis and principal component analysis.	
Contents	The module covers mathematical and statistical fundamentals, methods of theoretical multivariate statistics and their analysis methods such as matrix algebra, regression analysis, simple variance analysis, general and specific multivariate distributions, copulas, theory of multivariate normal distribution, estimation theory and hypothesis testing, as well as cluster analysis and principal component analysis.	
Teaching and learning methods	Lecture: 2 hours per week Practical: 2 hours per week Independent study The language of the module is English.	
Prerequisites for participation	Knowledge of mathematics and statistics at bachelor's level is required. The following literature is suitable for preparation: Sydsaeter, K.; Hammond, P.: Essential Mathematics for Economic Analysis, Financial Times Prentice Hall, Harlow, latest edition. Härdle, W., Okhrin, O., Okhrin, Y.: Basic Elements of Computational Statistics, Springer, 2017.	
Usability	MA BWL, MA WiPäd, D WiInf, D WiIng: Field Methods and Procedures MA PIE The selection must be made in accordance with the examination regulations.	
Examination	Written exam, 120 minutes	
Workload and Credit points	150 hours, 5 credit points	

Frequency	Offered each winter semester
Duration	One semester

Module number	Module name	Responsible lecturer
WW-D-405-TREC WW-MA-405-TREC	Transport Ecology	Prof. Udo J. Becker udo.becker@tu-dresden.de
Qualification objectives	Students can describe the impacts of transport on the environment and identify and classify dynamic effects and interactions. They are able to calculate fuel consumption and CO2 emissions for transport modes and determine noise assessment levels for transport modes. Students can present and evaluate arguments, concepts, and dependencies in the context of internalizing external effects. They can derive appropriate definitions for transport-ecological issues.	
Contents	The module focuses on energy and fuel consumption in transport, air pollution, exhaust emissions, noise emissions, greenhouse gas emissions from transport, environmental assessments, life cycle assessments, and externalities.	
Teaching and learning methods	Lecture: 2 hours per week Seminar: 2 hours per week Independent study The language of the module is German.	
Prerequisites for participation		
Usability	MA BWL, MA WiPäd, D WiInf, D WiIng: Field Supplementary Qualifications The selection must be made in accordance with the examination regulations.	
Examination	Written exam, 90 minutes	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each winter semester	
Duration	One semester	