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Compulsory Area

Module number	Module name	Responsible lecturer
WW-MA-PIE-ACW	Academic Writing	Prof. Dr. Christian Leßmann christian.lessmann@tu-dresden.de
Qualification objectives	The students can compile a literature review according to the principles of scientific work. They manage to research relevant literature, work with literature databases, and cite correctly.	
Contents	Literature research and management, reading strategies, structuring text, argumentation, and writing process design.	
Teaching and learning methods	Workshop: 2 hours per week Independent study The language of the module is English.	
Prerequisites for participation	None	
PIE Usability	Compulsory module	
Examination	Complex assessment, 100 hours	
Workload and Credit points	180 hours, 6 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.	
PIE Usability	Compulsory module	
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-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.	
PIE Usability	Compulsory module	
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-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/ .	
PIE Usability	Compulsory module	
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-MA-PIE-RSD	Research Design	Prof. Dr. Christian Leßmann christian.lessmann@tu-dresden.de
Qualification objectives	Students have in-depth conceptual and application-oriented knowledge of general and task-specific research methods in economics. They can reflect on the relationships between research questions and methodology and are able to independently formulate an economics research project, treat it with appropriate scientific methods, and discuss the results.	
Contents	The content of the module is chosen by the student and includes economic theory, economic policy, public finance, monetary economics, international economics, or empirical economic research.	
Teaching and learning methods	Seminar: 2 hours per week Independent study The courses are to be selected from the Research Design catalog of courses to the extent specified; this will be announced at the beginning of the semester in the usual manner. The language of the module is English.	
Prerequisites for participation	The skills to be acquired in the modules Principles of Public and International Economics, Microeconometrics, Empirical Economics, and Academic Writing are required.	
PIE Usability	Compulsory module	
Examination	Complex assesment, 40 hours	
Workload and Credit points	300 hours, 10 credit points	
Frequency	Offered each semester	
Duration	One semester	

Elective Area

Core Electives

Module number	Module name	Responsible lecturer
WW-D-401-CPTR WW-MA-401-CPTR WW-MA-PIE-CPT	Cost and Prices in Transport	Dr. Stefan Tscharaktschiew stefan.tscharaktschiew@tu-dresden.de
Qualification objectives	Students understand the relationship between costs and prices in the transport sector and can assess the adequacy of typical regulations imposed on transport companies. Students are able to identify existing and future inefficiencies in various areas of the transport sector Students are able to identify existing and future inefficiencies in various areas of the transport sector and develop suitable solutions to eliminate them. Students have knowledge of welfare-optimal pricing of transport services – private transport, local public transport – as well as pricing of transport infrastructure facilities. Students have knowledge of welfare-optimal pricing of transport services – private transport, local public transport – as well as the pricing of transport infrastructure facilities. Based on this comprehensive knowledge, students have the ability to act in a socially responsible manner, as they are able to develop solutions for improving the overall social situation. Based on this comprehensive knowledge, students have the ability to act in a socially responsible manner by being able to identify, develop, and communicate solutions for improving the overall social situation in the transport sector.	
Contents	The module covers both analytical and quantitative methods required for the analysis of a wide range of transport economics and transport policy issues in the areas of individual road transport, local public transport, and air transport. This is discussed with reference to current research. The module covers both analytical and quantitative methods required for the analysis of a wide range of transport economics and transport policy issues in the areas of individual road transport, local public transport, and air transport. This is discussed with reference to current research.	
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	Students enrolled in the diploma programs in Business Informatics and Industrial Engineering, as well as the master's programs in Business Administration, Public and International Economics, and Business Education, are expected to have bachelor's-level skills in empirical methods of transportation economics. For students in the Master's program in Transportation Economics, the skills to be acquired in the Methods in Transportation Policy module are required.
PIE Usability	Core Elective
Examination	Written exam, 120 minutes
Workload and Credit points	150 hours, 5 credit points
Frequency	Offered each summer semester
Duration	One semester

Module number	Module name	Responsible lecturer
WW-D-401-CBAT WW-MA-401-CBAT WW-MA-PIE-CAT	Cost-Benefit Analysis in Transport	Dr. Stefan Tscharaktschiew stefan.tscharaktschiew@tu-dresden.de
Qualification objectives	Students are able to present the economic theory of the welfare-based assessment of transportation projects, including the multitude of cost and benefit components, and to understand these using practical examples. This enables students to systematically and theoretically analyze socio-politically relevant issues beyond the Area of transport, which strengthens their ability to make decisions and act responsibly for society as a whole.	
Contents	Detailed presentation of the possibilities of measuring and evaluating costs and benefits as well as the associated problems and difficulties. The module also addresses the question of how the measurement and evaluation of costs and benefits change when central framework conditions in the transport sector change. Current research results in transport economics are also part of the module, as are basic approaches to formalizing analyses.	
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	Competencies in empirical methods of transportation economics at Bachelor's level.	
PIE Usability	Core Elective	
Examination	Written exam, 120 minutes	
Workload and Credit points	5 credit points, 150 hours	
Frequency	Offered each summer semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-205-CTAE WW-MA-205-CTAE WW-MA-PIE-CTE	Current Topics in Applied Econometrics	Prof. Dr. Kamila Cygan-Rehm wiwi-econometrics@tu-dresden.de
Qualification objectives	Students are introduced to modern econometric methods and learn how to solve typical challenges in data analysis in an economic policy and scientific context. They are able to analyze specific issues, propose suitable analysis methods, critically evaluate key assumptions, and assess the quality of empirical studies. In addition to conceptual content, data literacy is taught with the help of statistical software, thereby promoting students' programming skills.	
Contents	The module deals with current developments in selected methods of applied econometrics, in particular causal analysis (matching, shift-share instrumental variables, robust difference-in-differences, etc.). The relevant methods are illustrated using examples from current research on economic policy issues.	
Teaching and learning methods	Lecture: 2 hours per week Practical: 1 hour per week Independent study The language of the module is English. Participation is limited to 40 participants, selection based by lottery.	
Prerequisites for participation	Basic knowledge of econometrics at master's level, as taught in the Empirical Economics and Micro-econometrics modules, is required. Furthermore, English language skills at level B2 of the Common European Framework of Reference for Languages are required.	
PIE Usability	Core Elective	
Examination	Written exam, 90 minutes	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each summer semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-203-DEVC WW-MA-203-DEVC WW-MA-PIE-DEV	Development Economics	Prof. Dr. Christian Leßmann christian.lessmann@tu-dresden.de
Qualification objectives	Students are familiar with relevant models of modern growth theory as well as models of comparative development research. With the help of the models, they are able to explain the causes of intra- and international income differences. In addition, they are proficient in the analysis and interpretation of the effects of population change, fertility and migration.	
Contents	The module focuses on traditional and alternative explanatory approaches to growth and development, inequality, population growth and migration as determinants of development.	
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.	
PIE Usability	Core Elective	
Examination	Written exam, 90 minutes	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each summer semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-201-EMIG WW-MA-201-EMIG WW-MA-PIE-MIG	Economics of Migration	Prof. Dr. Alexander Kemnitz alexander.kemnitz@tu-dresden.de
Qualification objectives	Students are familiar with the economic causes and consequences of cross-border mobility of individuals and households. They are able to analyse and evaluate economic aspects of the migration debate and can communicate specialist knowledge in English.	
Contents	Contents of the module are individual economic migration incentives, global and nationstate effects of migration, migration and the welfare state, illegal immigration and questions of international policy coordination.	
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.	
PIE Usability	Core Elective	
Examination	Written exam, 90 minutes	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each summer semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-207-EWST WW-MA-207-EWST WW-MA-PIE-EWS	Economics of the Welfare State	Prof. Dr. Marcel Thum marcel.thum@tu-dresden.de
Qualification objectives	The students understand the mode of operation of social security systems and their dependence on economic and demographic developments. They are in a position to competently discuss and evaluate reform proposals	
Contents	The contents of the module are the functions and effects of social security systems. This includes normative reasons for the assumption of social security by the state as well as its design in the areas of health insurance as well as old-age and income security. The focus is on central model approaches, especially in the field of insurance economics.	
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.	
PIE Usability	Core Elective	
Examination	Written exam, 90 minutes	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each summer semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-MA-401-ERSE WW-D-401-ERSE WW-MA-PIE-ERS	Empirical Research in Spatial and Environmental Economics	Prof. Dr. Georg Hirte georg.hirte@tu-dresden.de
Qualification objectives	Students have advanced knowledge of the methods of empirical regional and environmental economic research and are able to apply them. The 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 are strengthened in their personality.	
Contents	Contents of the module are the basics of regression analysis as well as the presentation of methods of spatial economics specifically used in regional research of spatial economics. Using software and concrete regional and specific regional data, individual questions are analyzed using various methods with reference to current research.	
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	Students acquire skills in the microeconomic fundamentals of spatial economics and the new economic geography Economic Geography and basic knowledge of statistics at Bachelor's level are required. For preparation, see for example: Heumann, C., Schomaker Shalab, M.: Introduction to Statistics and Data Analysis, Springer, 2016.	
PIE Usability	Core Elective	
Examination	Term paper, 75 hours	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each summer 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.	
PIE Usability	Core Elective	
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-204-SRFM WW-MA-204-SRFM WW-MA-PIE-RFM	Financial Stability and Regulation of Financial Markets	Prof. Dr. Thilo Liebig yvonne.bludau@tu-dresden.de
Qualification objectives	The students are familiar with the problem of systemic risk and its effects on financial market stability. They understand the essential tasks, institutions and instruments of banking, insurance, securities and macroprudential supervision at national and international level. They are able to analyse the causes and effects of financial crises in a well-founded manner and to discuss suitable regulatory mechanisms.	
Contents	The content of the module is the basics of financial stability in micro- and macroprudential dimensions. This includes various indicators to measure financial stability and models to explain financial crises and their impact.	
Teaching and learning methods	Lecture: 2 hours 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.	
PIE Usability	Core Elective	
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-IFIM WW-MA-204-IFIM WW-MA-PIE-IFM	International Financial Markets	Prof. Dr. Stefan Eichler stefan.eichler@tu-dresden.de
Qualification objectives	Students are familiar with the functioning and structure of international financial markets. They are able to analyse pricing on international financial markets, balance of payments problems and monetary policy issues and to derive practical conclusions.	
Contents	The contents of the module are the basics of international financial markets. This includes the various actors in the financial market, the instruments used to settle transactions, the pricing of equities and bonds, monetary policy, and the macroeconomic implications of capital and current account imbalances.	
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.	
PIE Usability	Core Elective	
Examination	Written exam, 60 minutes	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each summer 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.	
PIE Usability	Core Elective	
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-IGIS WW-MA-221-IGIS WW-MA-PIE-GIS	Introduction to Geographic Information Systems	Jun.-Prof. Dr. Valentin Lindlacher valentin.lindlacher@tu-dresden.de
Qualification objectives	Students are familiar with the software of Geographic Information Systems and are able to apply the software to problem cases in economics. You can collect, edit and analyze data through Geographic Information Systems and process it on the basis of a research or application question of economics.	
Contents	The contents of the module are the properties and application areas of Geographic Information Systems as well as the Geographic Information Systems software.	
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	Basic programming and IT skills at Abitur level are required.	
PIE Usability	Core Elective	
Examination	Complex assesment, 25 hours	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each summer 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.	
PIE Usability	Core Elective	
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-207-REEC WW-MA-207-REEC WW-MA-PIE-REC	Resource Economics	Prof. Dr. Marcel Thum marcel.thum@tu-dresden.de
Qualification objectives	Students learn dynamic optimization tools to determine pricing in markets for exhaustible and renewable resources.	
Contents	Economic relationships in global resource markets and economic principles that govern the distribution of different categories of scarce natural resources among competing uses.	
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. The following literature is suitable for preparation: Varian, H: Microeconomic Analysis. Norton, latest edition, Blanchard, O.: Macroeconomics. Pearson, latest edition, Gujarati, D. N.; Porter, D. C.: Basic Econometrics. McGraw-Hill, latest edition.	
PIE Usability	Core Elective	
Examination	Written exam, 90 minutes	
Workload and Credit points	5 credit points, 150 hours	
Frequency	Offered each summer 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.	
PIE Usability	Core Elective	
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-MA-401-UBEC WW-D-401-UBEC WW-MA-PIE-UEC	Urban Economics	Prof. Dr. Georg Hirte georg.hirte@tu-dresden.de
Qualification objectives	Students have a sound understanding of the key approaches and issues in urban economics. They have the ability to numerically examine and analyze urban economic issues within the framework of these approaches. Students have key qualifications in the areas of rhetoric, presentation, and presentation techniques, as well as social skills and teamwork. The knowledge acquired The knowledge acquired promotes students' ability to act in a socially responsible manner by enabling them to classify possible urban economic measures on a scientific basis and evaluate their potential contribution to improving the overall social situation. Furthermore, students' personalities are strengthened. The program is designed to promote the development of students' personalities.	
Contents	The module covers the theoretical foundations of urban economics and the analysis of the effects of policy measures in the urban environment. The focus is on housing construction and land use regulation, transport in urban areas, agglomeration effects, external caused by emissions, environmental effects, and urban economic issues in the context of developing countries. These socially relevant issues are addressed in a scientific context with reference to research.	
Teaching and learning methods	Lecture: 2 hours per week Practical: 2 hour per week Independent study The language of the module is German.	
Prerequisites for participation	Competencies in microeconomic fundamentals of spatial economics and the New Economic Geography.	
PIE Usability	Core Elective	
Examination	Term paper, 75 hours	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each summer semester	

Duration	One semester
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Presenting and Discussing (also eligible for Core Electives from summer 2025)

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.	
PIE Usability	Presenting and Discussing or Core Elective	
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-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.	
PIE Usability	Presenting and Discussing or Core Elective	
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-CTFS WW-MA-204-CTFS WW-MA-PIE-FSR	Current Topics in Financial Stability and Regulation of Financial Markets	Prof. Dr. Thilo Liebig yvonne.bludau@tu-dresden.de
Qualification objectives	Students are familiar with current theoretical discussions and applied problems in financial market stability and regulation of the financial markets. They can present, analyze, and discuss current issues using scientific methods.	
Contents	Research contributions on current applied problems of financial market stability and regulation of the financial markets.	
Teaching and learning methods	Seminar: 2 hours per week Independent study The language of the module is German.	
Prerequisites for participation	Microeconomics, macroeconomics, and econometrics at the Bachelor's level. Literature for preparation: Varian, H: Microeconomic Analysis. Norton, latest edition, Blanchard, O.: Macroeconomics. Pearson, latest edition, Gujarati, D. N.; Porter, D. C.: Basic Econometrics. McGraw-Hill, latest edition.	
PIE Usability	Presenting and Discussing or Core Elective	
Examination	Combined term paper, 90 hours	
Workload and Credit points	5 credit points, 150 hours	
Frequency	Offered each summer 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.	
PIE Usability	Presenting and Discussing or Core Elective	
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-207-CTPE WW-MA-207-CTPE WW-MA-PIE-TPE	Current Topics in Public Economics	Prof. Dr. Marcel Thum marcel.thum@tu-dresden.de
Qualification objectives	Students are familiar with applied problems in the field of finance as well as the relevant literature in English. They are able to prepare, analyse and evaluate current topics in public finance using scientific methods. They have mastered the methods of scientific work and can present and discuss their results.	
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 in public finance.	
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, 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.	
PIE Usability	Presenting and Discussing or Core Elective	
Examination	Combined term paper, 90 hours	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each summer 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.	
PIE Usability	Presenting and Discussing or Core Elective	
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-203-EMRT WW-MA-203-EMRT WW-MA-PIE-ERT	Empirical Research Task	Prof. Dr. Christian Leßmann christian.lessmann@tu-dresden.de
Qualification objectives	Students are able to comprehensively work on an economic, empirical research question. They can confidently use statistical software, for example R or Stata, set up theory-based hypotheses, formulate an empirical model, test the model econometrically, and communicate and critically question the results.	
Contents	Contents of the module are theory-based hypothesis formation, data pro-cessing methods and the creation and estimation of econometric models.	
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 microeconomics, macroeconomics and econometrics at Bachelor's level is required. The following literature is suitable for prepara-tion: 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.	
PIE Usability	Presenting and Discussing or Core Elective	
Examination	Complex assesment, 150 hours	
Workload and Credit points	300 hours, 10 credit points	
Frequency	Offered each summer semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-421-SUSE WW-MA-421-SUSE WW-MA-PIE-SUS	Sustainability Economics	Prof. Dr. Artem Korzhenevych artem.korzhenevych@tu-dresden.de
Qualification objectives	Students are familiar with current theoretical and applied discussions in the field of sustainability economics. They are able to prepare, present, analyze, and discuss these current topics using scientific methods.	
Contents	Current theoretical and empirical research contributions of a fundamental and application-oriented nature to current applied problems in sustainability economics.	
Teaching and learning methods	Seminar: 2 hour per week Independent study The language of the module is English. The seminar is limited to 16 participants; selection based by lottery.	
Prerequisites for participation	Knowledge of microeconomics and macroeconomics at the bachelor's level. The following literature is suitable for preparation: Varian, H: Microeconomic Analysis. Norton, latest edition.	
PIE Usability	Presenting and Discussing or Core Elective	
Examination	Combined term paper, 90 hours	
Workload and Credit points	5 credit points, 150 hours	
Frequency	Offered each summer 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.	
PIE Usability	Presenting and Discussing or Core Elective	
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-TIEC WW-MA-203-TIEC WW-MA-PIE-TIE	Topics in International Economics	Prof. Dr. Christian Leßmann christian.lessmann@tu-dresden.de
Qualification objectives	Students are able to understand current theoretical and empirical contributions to international business, present their most important aspects in English and place them in a scientific context.	
Contents	The contents of the module are current theoretical and empirical research contributions of a fundamental and application-oriented nature to current applied problems of international business.	
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 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.	
PIE Usability	Presenting and Discussing or Core Elective	
Examination	Combined term paper, 90 hours	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each summer 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.	
PIE Usability	Presenting and Discussing or Core Elective	
Examination	Combined term paper, 100 hours	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each semester	
Duration	One semester	

Free Electives

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.	
PIE Usability	Free Elective	
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-402-AMVS WW-MA-402-AMVS WW-MA-PIE-AMS	Applied Multivariate Statistics	Prof. Dr. Ostap Okhrin ostap.okhrin@tu-dresden.de
Qualification objectives	Students are familiar with the most important multivariate statistical methods such as cluster analysis, regression analysis, variance analysis, discriminant analysis, and factor analysis, and can apply them to real data. They also have key qualifications in the areas of rhetoric, presentation, and presentation techniques, and possess social skills and the ability to work in a team. The program is designed to be flexible and adaptable to the needs of the students.	
Contents	The module covers the application of multivariate statistical methods to specific issues in relation to current research, as well as the basics of a free programming language for statistical calculations and graphics.	
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: Sydsæter, 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.	
PIE Usability	Free Elective	
Examination	Complex assessment, 75 hours	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each summer semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-402-DMVS WW-MA-402-DMVS WW-MA-PIE-DDS	Data-Driven Multivariate Statistics	Prof. Dr. Ostap Okhrin ostap.okhrin@tu-dresden.de
Qualification objectives	Students will gain an in-depth understanding of data analysis, particularly of unstructured data and how to handle data sets with missing data. They will acquire strong skills in using statistical software and thus media literacy.	
Contents	The module covers non-trivial regressions, in particular with correlated residuals, non-diagonal covariance matrices, and kernel regressions, Bayesian regressions, classification methods, in particular logistic regressions, support vector machines, decision trees, random forests, boosting and bagging, missing data analysis, including missing at random and EM algorithms, as well as neural networks including deep learning.	
Teaching and learning methods	Lecture: 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: Sydsæter, 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.	
PIE Usability	Free Elective	
Examination	Written exam, 120 minutes	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each summer 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 approach-es 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 engineer-ing.	
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.	
PIE Usability	Free Elective	
Examination	Complex assesment, 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.	
PIE Usability	Free Elective	
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	

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 modelling. Students are able to mathematically set up and implement basic optimization models from the field of operations research.	
Contents	The contents of the module are, on the one hand, the European liberalisation 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 markets within the electricity industry (e.g. intra-day electricity market, emission certificate market) and market power in the electricity sector. In addition, 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.	
PIE Usability	Free Elective	
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.	
PIE Usability	Free Elective	
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-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.	
PIE Usability	Free Elective	
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	None	
PIE Usability	Free Elective	
Examination	Language test, 105 minutes	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-MA-MMEL WW-D-115-MMEL WW-MA-PIE-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, selection based by lottery.	
Prerequisites for participation	Knowledge of classical learning theories at Bachelor's level is required.	
PIE Usability	Free Elective	
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.	
PIE Usability	Free Elective	
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-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.	
PIE Usability	Free Elective	
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-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.	
PIE Usability	Free Elective	
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-208-TSEC WW-MA-208-TSEC WW-MA-PIE-TSE	Time Series Econometrics	Prof. Dr. Bernhard Schipp econometrics@tu-dresden.de
Qualification objectives	Students can apply and evaluate the methods of time series econometrics. Furthermore, students are able to plan the empirical process for a given research question.	
Contents	Contents of the module are fundamentals of stochastic processes, auto-regressive-integrated-moving-average models, generalized-autoregressive-conditional-heteroskedasticity models, vector auto-regressive models and models in continuous time in the context of economic questions.	
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 at Bachelor's level is required.	
PIE Usability	Free Elective	
Examination	More than ten registered students: written exam, 120 minutes Up to ten 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 summer semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-D-105-TEFI WW-MA-105-TEFI WW-MA-PIE-TEF	Topics in Empirical Finance	Prof. Dr. Lars Hornuf arite.schrehardt@tu-dresden.de
Qualification objectives	Students can develop their own research designs and plan for implementation.	
Contents	The students deal with an annually changing, current research focus in the fields of finance and financial services. They are able to critically evaluate the theoretical foundations, empirical results and methods used in the literature.	
Teaching and learning methods	Seminar: 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.	
PIE Usability	Free Elective	
Examination	Combined term paper, 40 hours	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each summer semester	
Duration	One semester	

Module number	Module name	Responsible lecturer
WW-MA-PIE-ISH	Internship Public and International Economics	Praktikumsbeauftragte bzw. Praktikumsbeauftragter der Fakultät Wirtschaftswissenschaften praktikantenamt.ww@mailbox.tu-dresden.de
Qualification objectives	Students have experience with complex practical problems and are informed about the feasibility of theoretical concepts. They can combine the theoretical knowledge they have acquired with professional practice.	
Contents	Economic policy issues with international reference in professional practice, specific requirements in the profession, particularly the various fields of work and internal activities at the internship site.	
Teaching and learning methods	Internship: 135 hours total, blocked in at least 4 weeks Independent study	
Prerequisites for participation	None	
PIE Usability	Free Elective	
Examination	Ungraded term paper, 10 hours	
Workload and Credit points	150 hours, 5 credit points	
Frequency	Offered each semester	
Duration	One semester	