

Module Manual M.Sc. Econometrics

Please note that you must contact us before the start of the semester (till March 15 for the upcoming summer term and till September 15 for the upcoming winter term) if you wish to take courses that may be relevant to the Master's degree program but are not listed in the course catalog. Please contact econometrics-assessment@statistik.tu-dortmund.de in this regard.

Overview of the program:

NAME		Courses	Credit Points
STATISTICAL THEORY	ME1	Statistical Theory and Asymptotic Theory	13.5
ECONOMETRIC THEORY	ME2	Econometric Theory or Recent Developments in Econometrics	9
ADVANCED CASE STUDIES	ME3	Advanced Case Studies	8
TIME SERIES ANALYSIS	ME4	Time Series Analysis	9
COMPULSORY ELECTIVES:	ME EM1-EM46	Different courses	50,5
ECONOMICS	ME EM1-EM13	Different courses	At least 11
APPLIED ECONOMETRICS	ME EM14-EM33	Different courses	At least 11
ECONOMETRIC METHODS	ME EM34-EM46	Different courses	At least 11
MASTER THESIS	ME5	Master Thesis, Disputation	30

Preliminary remarks

Many of the modules to be described below sharpen students' general skills such as presenting work, programming etc. To avoid redundancies in the module descriptions, we sketch such broad skills here. Aspects that are specific to individual modules will be presented in the corresponding descriptions. The overarching goal of the Master of Econometrics is to train students in applying and developing methods to suitably model and analyze complex problems involving economic data. Students are not just to apply modern statistical techniques in a cookbook manner, but to thoroughly understand their common foundations and properties. Only then, we believe, will they be able to make meaningful contributions to both econometric methodology and applications.

Like with most learning goals, but certainly like with any quantitative technique, understanding of econometric methods cannot be achieved through repetitive memorizing. Likewise, while lectures are a useful starting point to introduce new topics, learning ultimately must be an active act rather than only passive consumption of a lecture. Such understanding therefore should be and will be fostered through steady and extensive active work on exercises and concrete applications. Regular tutorials hence are a core and crucial part of the program. Consequently, all of our modules complement lectures (if any) with such exercise sessions.

Next to a deeper understanding of the course material, such tutorials also provide students with effective learning and research strategies. First, experienced PhD students, post docs and professors share their tested approaches to solving complex problems. Second, students come to appreciate that working through concrete problems is an effective way to foster their grasp of different methodologies. Third, writing down their solutions develops students' skills in formulating mathematical, statistical and econometric relationships, as well as, fourth, verbal and written communication skills more generally.

The importance of such exercises is reflected in regular checks at given times during the semester. Meeting such deadlines helps students develop time management skills and a steady work routine. At the same time, the corrected exercises provide students with timely feedback to what extent their learning progress is in line with the progression of the corresponding course.

The study regulations aim for different types of assessments so as to reflect the variety of tasks a successful econometrician needs to fulfil in his or her later career. Specifically, students can acquire credits, next to the problem sets described above, through, e.g., oral presentations, term papers and oral exams. These train students' written and oral communication skills. Written exams ask students to actively apply the methods discussed in the various modules.

Modern statistical and econometric work is inconceivable without hands-on application of the methods in statistical computing languages such as R. Our assessments will therefore also regularly ask students to demonstrate that they know how to translate abstract methodology to real-world applications using real data.

Finally, econometric (like most other) research ultimately flourishes most when done, shared and communicated with others. We therefore provide students with regular opportunities to work in groups, e.g. asking them to jointly discuss a suitable line of attack to an empirical problem. Similarly, peer-learning formats help students develop and support each other.

A semester abroad also serves to develop such general, interdisciplinary skills. Students are encouraged to take some courses at a foreign partner university. In particular, the 3rd semester is suitable in this regard. Such international exchanges are for example supported by the ERASMUS programme.

Econometrics (M.Sc.) – Description of the modules

Module ME1: Statistical Theory					
Degree program: M.Sc. Econometrics					
Interval: Annual		Duration: 2 semester		Study phase: 1st – 3rd semester	
				CP 13.5	Workload 405 h
1	Module structure:				
	No.	Element / course	Type	CP	Weekly contact hours
	1	Statistical Theory	L + T	9	4+2
	2	Asymptotic Theory	L + T	4.5	2+1
	3	Partial Assessment course No.1	PA		
4	Partial Assessment course No.2	PA			
2	Language of instruction: English				
3	Teaching content: The Statistical Theory module covers the courses ‘Statistical Theory’ and ‘Asymptotic Theory’. The course Statistical Theory consists of the two blocks ‘Probability Theory’ and ‘Decision Theory’. The block ‘Probability Theory’ gives an introduction to measure theory and stochastics necessary to formalize the questions discussed in statistical theory. The block ‘Decision Theory’ introduces the basic concepts associated with statistical tests. Possible topics include: decision rules, Bayes estimator, exponential families, the Neyman-Pearson lemma, two-tailed tests, Wald-tests, conditional tests, sequential hypothesis testing. The course ‘Asymptotic Theory’ deals with asymptotic properties of statistical methods and presents various central limit theorems used in statistics. The course ‘Asymptotic Theory’ usually takes place in the summer semester.				
4	Competencies: Participants learn to use the formal language of statistics and gain knowledge of fundamental concepts in stochastics, decision theory and mathematical statistics, which are required in order to analyze, apply and further develop statistical procedures.				
5	Examinations: Two partial assessments.				
6	Types of examinations and performances: Two graded written exams relating to the two individual courses ‘Statistical Theory’ and ‘Asymptotic Theory’.				
7	Recommended knowledge:				
8	Formal requirements: - none -				
9	Module type and applicability of the module: Compulsory module in M.Sc. Econometrics				
10	Module coordinator: Prof. Dr. M. Demetrescu, Prof. Dr. C. Jentsch			Responsible department: TU Dortmund University, Department of Statistics	
11	Literature:				
12	Further Information:				

Module ME2: Econometric Theory																				
Degree program: M.Sc. Econometrics																				
Interval: Each semester		Duration: 1 semester	Study phase: 1st - 2nd semester	CP 9	Workload 270 h															
1	Module structure: <table><tr><td>No.</td><td>Element / course</td><td>Type</td><td>CP</td><td>Weekly contact hours</td></tr><tr><td>1</td><td>Econometric Theory</td><td>L + T</td><td>9</td><td>4 + 2</td></tr><tr><td>or</td><td>Recent Developments in Econometrics</td><td>L + T</td><td>9</td><td>4 + 2</td></tr></table>					No.	Element / course	Type	CP	Weekly contact hours	1	Econometric Theory	L + T	9	4 + 2	or	Recent Developments in Econometrics	L + T	9	4 + 2
No.	Element / course	Type	CP	Weekly contact hours																
1	Econometric Theory	L + T	9	4 + 2																
or	Recent Developments in Econometrics	L + T	9	4 + 2																
2	Language of instruction: English																			
3	The lecture deals with a wide range of fundamental econometric methods. Special emphasis is placed on asymptotic results to allow for a general discussion of the statistical properties of these methods. The main focus lies on a formally precise description of the concepts. Topics include the linear regression model, the generalized linear regression model, maximum likelihood estimation and inference, asymptotic theory, endogenous regressors, instrumental variables, generalized method of moments and regression models for time series, among others. Students can choose between 'Econometric Theory' and 'Recent Developments in Econometrics'. <i>*Students, who already took the course 'Econometric Theory' during the completion of a Bachelor degree at TU Dortmund University, are required to take a course from election area ME EM38 – ME EM39 to achieve the necessary credits for module ME2.</i>																			
4	Competencies: Participants learn to use the fundamental concepts in econometrics, which are required in order to further develop and to successfully apply the suitable methods for analyzing economic data.																			
5	Examinations: Graded written exam. The lecturer may include further Formal requirements necessary to attend the final exam. These formal requirements will be announced at the beginning of the course.																			
6	Types of examinations and performances: Covering the entire module																			
7	Recommended knowledge:																			
8	Formal requirements: - none -																			
9	Module type and applicability of the module: Compulsory module in M.Sc. Econometrics																			
10	Module coordinator: Prof. Dr. M. Demetrescu / Prof. Dr. C. Hanck			Responsible department: TU Dortmund University, Department of Statistics, University of Duisburg-Essen, Department of Business Administration and Economics																
11	Literature:																			
12	Further Information:																			

Module ME3: Advanced Case Studies					
Degree program: M.Sc. Econometrics					
Interval: Each semester		Duration: 1 semester		Study phase: 2nd - 3rd semester	
			CP 8		Workload 240 h
1	Module structure:				
	No.	Element / course	Type	CP	Weekly contact hours
	1	Advanced Case Studies	P	8	4
2	Language of instruction: English				
3	Teaching content: In the course 'Advanced Case Studies' participants work on statistical problems in one or two larger projects, usually using raw economic data. Working in groups, they independently choose appropriate statistical methods and adapt them to the problem at hand, in order to carry out a comprehensive analysis of the data. The initial research question, methods, analysis and results are to be presented in a detailed written report and an oral presentation. A special focus is put on the "translation" of the initial question into a statistical/data-analytic problem. After completion of the latter, the results are used to provide an answer to the research question. Both the methodological approach and the results regarding the research question are discussed together with the other participants. Alternatively, by agreement, this course may be replaced by an extra-curricular internship specialized in statistical advisory work, during which students participate in the analysis of raw data in a project within an institution or firm. Subsequently the statistical analysis is summarized in a written report on the internship.				
4	Competencies: Participants gain practice in independent scientific research as well as in the presentation of the statistical results in written and oral form. They expand methodological skills and various interdisciplinary qualifications such as teamwork, presentation techniques or communication skills. Working on larger projects trains the skills in project management. Furthermore, the course serves to enhance the counseling competence of the students.				
5	Examinations: Graded oral presentation and written report. Details will be announced at the beginning of the course. Attendance at the presentations may be compulsory. This is the decision of the lecturer if s/he deems it to be necessary to achieve the learning goals of the course.				
6	Types of examinations and performances: Covering the entire module				
7	Recommended knowledge:				
8	Formal requirements: If there are requirements in case of conditional admission (any of modules ME Req1 to ME Req4), these have to be fulfilled by the start of the course "Case Studies" or the external internship.				
9	Module type and applicability of the module: Compulsory module in M.Sc. Econometrics				
10	Module coordinator: Lecturers from TU Dortmund University, Department of Statistics			Responsible department: TU Dortmund University, Department of Statistics	
11	Literature:				
12	Further Information:				

Module ME4: Time Series Analysis															
Degree program: M.Sc. Econometrics															
Interval: Summer semester		Duration: 1 Semester		Study phase: 2nd - 3rd semester											
				CP 9											
				Workload 270 h											
1 Module structure:															
<table><tr><td>No.</td><td>Element / course</td><td>Type</td><td>CP</td><td>Weekly contact hours</td></tr><tr><td>1</td><td>Time Series Analysis</td><td>L + T</td><td>9</td><td>4 + 2</td></tr></table>						No.	Element / course	Type	CP	Weekly contact hours	1	Time Series Analysis	L + T	9	4 + 2
No.	Element / course	Type	CP	Weekly contact hours											
1	Time Series Analysis	L + T	9	4 + 2											
2 Language of instruction: English															
3 Teaching content: The course first covers methods of descriptive time series analysis. Then, structural theory and estimation of time series models are discussed. Core topics include approximation and elimination of trends, the theory of linear filters, ‘naive’ forecasting, exponential smoothing, stationary stochastic processes, optimal linear forecasts, ARMA-processes, the autocorrelation function, model identification and parameter estimation in the time domain.															
4 Competencies: Participants gain insight on the most common methods for time-dependent data and are able to apply these methods to understand the dynamics of given time series and to construct forecasts.															
5 Examinations: Graded written exam. The lecturer may include further Formal requirements necessary to attend the final exam. These formal requirements and the form of the examination will be announced at the beginning of the course.															
6 Types of examinations and performances: Covering the entire module															
7 Recommended knowledge:															
8 Formal requirements: - none -															
9 Module type and applicability of the module: Compulsory module in M.Sc. Econometrics															
10 Module coordinator: Prof. Dr. M. Demetrescu / Prof. Dr. C. Jentsch				Responsible department: TU Dortmund University, Department of Statistics											
11 Literature:															
12 Further Information:															

Module ME5: Master Thesis																				
Degree program: M.Sc. Econometrics																				
Interval: Each semester		Duration: 1 semester		Study phase: 4th semester																
				CP 30																
				Workload 900 h																
1	Module structure: <table><tr><td>No.</td><td>Element / course</td><td>Type</td><td>CP</td><td>Weekly contact hours</td></tr><tr><td>1</td><td>Master Thesis</td><td></td><td>22.5</td><td>15</td></tr><tr><td>2</td><td>Disputation</td><td></td><td>7.5</td><td>5</td></tr></table>					No.	Element / course	Type	CP	Weekly contact hours	1	Master Thesis		22.5	15	2	Disputation		7.5	5
No.	Element / course	Type	CP	Weekly contact hours																
1	Master Thesis		22.5	15																
2	Disputation		7.5	5																
2	Language of instruction: English																			
3	Teaching content: The master thesis demonstrates that students are able to independently apply and adapt scientific methods to an econometric problem within a given period of time. The thesis needs to be completed within six months. Topics are offered each semester by the entire faculty of the program, so that students can choose from a variety of topics. They are also welcome to make their own suggestions for topics. The thesis can also be written at - or on collaboration with - an external public or private institution. The results are to be presented in form of a disputation in a time span around the submission.																			
4	Competencies: With the successful completion of the Master thesis, the students show that they have the ability to independently conduct econometric research.																			
5	Examinations: Master Thesis (75%) and disputation (25%).																			
6	Types of examinations and performances: Covering the entire module																			
7	Recommended knowledge:																			
8	Formal requirements: At least 39.5 credit points in the compulsory area (ME1 to ME4) as well as 28 credit points in the elective area (ME EM1 to ME EM46). To participate in the disputation, the Master Thesis must have been passed with at least the grade "sufficient" (4.0).																			
9	Module type and applicability of the module: Compulsory module in M.Sc. Econometrics																			
10	Module coordinator: Lecturers from the responsible departments			Responsible department: Participating departments from TU Dortmund University, University of Duisburg-Essen and Ruhr-University Bochum																
11	Literature:																			
12	Further Information:																			

Prohibited Combinations of Compulsory Elective Courses

The chosen courses may not coincide with similar courses already chosen within one of the compulsory elective blocks.

The prohibited combinations of similar courses are the following:

Stat. Learning Advanced Industrial Organization Advanced R for Econometricians Advanced Bayesian Data Analysis Advanced Statistical Learning Bayesian Econometrics Bayes-Statistik Maschinelles Lernen Labor Economics Mikroökonomie II Applied Time Series Analysis Financial Econometrics Intro. Microeconomics Data Analysis Using R Machine Learning and Programming with Python															
					X	X									Bayesian Econometrics
									X						Entscheidungstheorie
								X							Labour Economics and Public Policy
												X			Mikroökonomie
X															Stat. Modelling of Extremes
				X			X								Stat. Learning
		X												X	Advanced R
						X									Advanced Bayesian Data Analysis
			X			X									Applied Bayesian Data Analysis
X							X							X	Machine Learning for Economic Data
														X	Programming with Python
X						X									Wissensentdeckung in Datenbanken
									X						Applied Economics II
X														X	Finance I
										X					Finance III
	X														Mikroökonomie I (Game Theory)
												X			Makroökonomie IV
							X								Labor Economics
		X													Data Analysis Using R
X															Microeconomics II
Universität Duisburg-Essen - Faculty of Business Administration & Economics TU Dortmund - Faculty of Statistics TU Dortmund - Faculty of Computer Science TU Dortmund - Faculty of Business and Economics Ruhr-Universität Bochum - Faculty of Management & Economics															

Recommended Courses of Study

The recommended course of study for a start in the winter semester is:

1st semester	2nd semester	3rd semester	4th semester
Module ME1: Statistical Theory Statistical Theory (4+2): 9 ECTS; written exam Probability Theory Decision Theory	Asymptotic Theory Asymptotic Theory (2+1): 4.5 ECTS; written exam	Module ME3: Case Studies Case Studies (4P) or external internship (min. 6 weeks): 8 ECTS; written report <i>Note: The module "Case Studies" can be taken every semester.</i>	Module ME5: Master Thesis <u>Prerequisites:</u> successful completion of modules ME1, ME2, ME3, ME4 and successful completion of modules amounting to at least 28 ECTS in compulsory elective areas ME EM1 - ME EM46. module exams: Master Thesis (22.5 ECTS) and Disputation (7.5 ECTS)
Module ME2: Econometric Theory Econometric Theory (4+2): 9 ECTS; written exam <i>Note: The course "Recent Developments in Econometrics" is offered in winter semester at UDE.</i>	Module ME4: Time Series Analysis Time Series Analysis (4+2): 9 ECTS; written exam		
	Compulsory Elective Area Modules in Economics ME EM1 - ME EM13: Elective modules from MHB; at least 11 ECTS; module exams Modules in Applied Econometrics ME EM14 - ME EM33: Elective modules from MHB; at least 11 ECTS; module exams Modules in Econometric Methods ME EM34 - ME EM46: Elective modules from MHB; at least 11 ECTS; module exams <i>Note: In the entire elective area modules with a total of 50.5 ECTS have to be chosen.</i>		
Total: 30 ECTS	Total: 30 ECTS	Total: 30 ECTS	Total: 30 ECTS

The recommended course of study for a start in the summer semester is:

1st semester	2nd semester	3rd semester	4th semester
Module ME2: Econometric Theory Econometric Theory (4+2): 9 ECTS; written exam <i>Note: The course "Recent Developments in Econometrics" is offered in winter semester at UDE.</i>	Module ME1: Statistical Theory Statistical Theory (4+2): 9 ECTS; written exam Probability Theory Decision Theory	Asymptotic Theory Asymptotic Theory (2+1): 4.5 ECTS; written exam	Module ME5: Master Thesis <u>Prerequisites:</u> successful completion of modules ME1, ME2, ME3, ME4 and successful completion of modules amounting to at least 28 ECTS in compulsory elective areas ME EM1 - ME EM46. module exams: Master Thesis (22.5 ECTS) and Disputation (7.5 ECTS)
		Module ME3: Case Studies Case Studies (4P) or external internship (min. 6 weeks): 8 ECTS; written report <i>Note: The module "Case Studies" can be taken every semester.</i>	
		Module ME4: Time Series Analysis Time Series Analysis (4+2): 9 ECTS; written exam	
	Compulsory Elective Area Modules in Economics ME EM1 - ME EM13: Elective modules from MHB; at least 11 ECTS; module exams Modules in Applied Econometrics ME EM14 - ME EM33: Elective modules from MHB; at least 11 ECTS; module exams Modules in Econometric Methods ME EM34 - ME EM46: Elective modules from MHB; at least 11 ECTS; module exams <i>Note: In the entire elective area modules with a total of 50.5 ECTS have to be chosen.</i>		
Total: 30 ECTS	Total: 30 ECTS	Total: 30 ECTS	Total: 30 ECTS

Elective Area

In this elective area, students can specialize by choosing modules from three distinct focus areas: **Economics, Applied Econometrics** and **Econometric Methods**. Each area offers a curated selection of elective modules that deepen methodological, analytical, and applied competencies in empirical research and quantitative analysis.

To successfully complete the elective area, students must acquire **a total of 50.5 ECTS credits** from elective modules. Within this framework, the following rules apply:

Students must earn **at least 11 ECTS credits** in each of the three focus areas (Economics, Applied Econometrics and Econometric Methods). This ensures a balanced yet customizable academic profile. The remaining credits needed to reach the total of 50.5 ECTS can be flexibly distributed between the three areas, depending on the student's individual interests and the availability of modules.

Within each module, students can choose from a range of courses, which are listed in the course catalog for each semester. Once a certain course has been chosen within an elective module, the course is blocked for all other elective modules. This modular and flexible structure allows students to tailor their academic path in alignment with their interests, research orientation, and professional goals.

Overview of the Elective Area:

AREA	ELECTIVE MODULE		Department	Credit Points
ECONOMICS	Economics@TUDo I-III	EM1-EM3	Business and Economics, TU Dortmund University	7.5
	Economics@UDE I-IV	EM4-EM7	Business Administration and Economics, University of Duisburg-Essen	6
	Economics@RUB I-IV	EM8-EM11	Management and Economics, Ruhr-University Bochum	5
	Economics@RUB V-VI	EM12-EM13	Management and Economics, Ruhr-University Bochum	10
APPLIED ECONOMETRICS	Applied Econometrics@TUDo I-IV	EM14-EM17	Statistics, TU Dortmund University	4.5
	Applied Econometrics@TUDo V-VI	EM18-EM19	Statistics, TU Dortmund University	9
	Applied Econometrics@TUDo VII-IX	EM20-EM22	Business and Economics, TU Dortmund University	7.5
	Applied Econometrics@UDE I-IV	EM23-EM26	Business Administration and Economics, University of Duisburg-Essen	6
	Applied Econometrics@RUB I-IV	EM27-EM30	Management and Economics, Ruhr-University Bochum	5
	Applied Econometrics@RUB V-VI	EM31-EM32	Management and Economics, Ruhr-University Bochum	10

	Applied Programming	EM33	Statistics, TU Dortmund University	3
ECONOMETRIC METHODS	Econometric Methods@TUDo I-IV	EM34- EM37	Statistics, TU Dortmund University	4.5
	Econometric Methods@TUDo V-VI	EM38- EM39	Statistics, TU Dortmund University	9
	Econometric Methods@UDE I-IV	EM40- EM43	Business Administration and Economics, University of Duisburg- Essen	6
	Econometric Methods@RUB I-II	EM44- EM45	Management and Economics, Ruhr-University Bochum	10
	Seminar in Econometrics	EM46	Statistics, TU Dortmund University	4

Economics

The elective modules **EM1–EM13** are part of the **Economics Elective Area**. Students must complete **at least 11 ECTS credits** in this area. Descriptions of the individual modules are provided below.

Module ME EM1: Economics@TUDo I					
Degree program: M.Sc. Econometrics					
Interval: Each semester		Duration: 1 semester		Study phase: 1st - 3rd semester	
				CP 7.5	
				Workload 225 h	
1 Module structure:					
No.		Element / course		Type	CP
1		Elective course		L+S/L+T/ L+integrated E/S	7.5
		Module examination		ME	Weekly contact hours 4h
2 Language of instruction: English or German					
3 Teaching content: The module offers a selection of advanced courses in Economics. Students gain exposure to theoretical and applied topics in microeconomics, macroeconomics, and related fields, with emphasis on formal modeling, empirical applications, and current research questions.					
4 Competencies: Participants acquire the ability to understand, analyze, and critically evaluate advanced economic models and methods. They develop skills to apply economic reasoning to complex problems, integrate econometric approaches with economic theory, and engage with contemporary research debates in economics.					
5 Examinations: The type and format of examination depend on the specific course selected within this module. Possible forms include written exams, oral exams, or seminar papers and presentations. The format of examination is announced at the beginning of each course. Students have three attempts for this elective module, regardless of the course. This means that, after an unsuccessful first attempt, students may switch to a different course approved for this module and complete their second attempt there.					
6 Types of examinations and performances: Relating to individual courses.					
7 Recommended knowledge: Specific recommended knowledge for the individual courses are based on the course descriptions of the respective selected courses.					
8 Formal requirements: The entry requirements for the individual courses are based on the course descriptions of the respective selected courses.					
9 Module type and applicability of the module: Compulsory elective modules in M.Sc. Econometrics					
10 Module coordinator: Lecturers from the responsible departments				Responsible department: TU Dortmund University, Department of Business and Economics	
11 Literature:					
12 Further Information:					

Module ME EM2: Economics@TUDo II																				
Degree program: M.Sc. Econometrics																				
Interval: Each semester		Duration: 1 semester		Study phase: 1st - 3rd semester																
				CP 7.5	Workload 225 h															
1	Module structure: <table><tr><td>No.</td><td>Element / course</td><td>Type</td><td>CP</td><td>Weekly contact hours</td></tr><tr><td>1</td><td>Elective course</td><td>L+S/L+T/ L+integrated E/S</td><td>7.5</td><td>4h</td></tr><tr><td></td><td>Module examination</td><td>ME</td><td></td><td></td></tr></table>					No.	Element / course	Type	CP	Weekly contact hours	1	Elective course	L+S/L+T/ L+integrated E/S	7.5	4h		Module examination	ME		
No.	Element / course	Type	CP	Weekly contact hours																
1	Elective course	L+S/L+T/ L+integrated E/S	7.5	4h																
	Module examination	ME																		
2	Language of instruction: English or German																			
3	Teaching content: The module offers a selection of advanced courses in Economics. Students gain exposure to theoretical and applied topics in microeconomics, macroeconomics, and related fields, with emphasis on formal modeling, empirical applications, and current research questions.																			
4	Competencies: Participants acquire the ability to understand, analyze, and critically evaluate advanced economic models and methods. They develop skills to apply economic reasoning to complex problems, integrate econometric approaches with economic theory, and engage with contemporary research debates in economics.																			
5	Examinations: The type and format of examination depend on the specific course selected within this module. Possible forms include written exams, oral exams, or seminar papers and presentations. The format of examination is announced at the beginning of each course. Students have three attempts for this elective module, regardless of the course. This means that, after an unsuccessful first attempt, students may switch to a different course approved for this module and complete their second attempt there.																			
6	Types of examinations and performances: Relating to individual courses.																			
7	Recommended knowledge: Specific recommended knowledge for the individual courses are based on the course descriptions of the respective selected courses.																			
8	Formal requirements: The entry requirements for the individual courses are based on the course descriptions of the respective selected courses.																			
9	Module type and applicability of the module: Compulsory elective modules in M.Sc. Econometrics																			
10	Module coordinator: Lecturers from the responsible departments			Responsible department: TU Dortmund University, Department of Business and Economics																
11	Literature:																			
12	Further Information:																			

Module ME EM3: Economics@TUDo III																							
Degree program: M.Sc. Econometrics																							
Interval: Each semester		Duration: 1 semester	Study phase: 1st - 3rd semester	CP 7.5	Workload 225 h																		
1	Module structure: <table><tr><td>No.</td><td>Element / course</td><td>Type</td><td>CP</td><td colspan="2">Weekly contact hours</td></tr><tr><td>1</td><td>Elective course</td><td>L+S/L+T/ L+integrated E/S</td><td>7.5</td><td colspan="2">4h</td></tr><tr><td colspan="2">Module examination</td><td>ME</td><td colspan="3"></td></tr></table>					No.	Element / course	Type	CP	Weekly contact hours		1	Elective course	L+S/L+T/ L+integrated E/S	7.5	4h		Module examination		ME			
No.	Element / course	Type	CP	Weekly contact hours																			
1	Elective course	L+S/L+T/ L+integrated E/S	7.5	4h																			
Module examination		ME																					
2	Language of instruction: English or German																						
3	Teaching content: The module offers a selection of advanced courses in Economics. Students gain exposure to theoretical and applied topics in microeconomics, macroeconomics, and related fields, with emphasis on formal modeling, empirical applications, and current research questions.																						
4	Competencies: Participants acquire the ability to understand, analyze, and critically evaluate advanced economic models and methods. They develop skills to apply economic reasoning to complex problems, integrate econometric approaches with economic theory, and engage with contemporary research debates in economics.																						
5	Examinations: The type and format of examination depend on the specific course selected within this module. Possible forms include written exams, oral exams, or seminar papers and presentations. The format of examination is announced at the beginning of each course. Students have three attempts for this elective module, regardless of the course. This means that, after an unsuccessful first attempt, students may switch to a different course approved for this module and complete their second attempt there.																						
6	Types of examinations and performances: Relating to individual courses.																						
7	Recommended knowledge: Specific recommended knowledge for the individual courses are based on the course descriptions of the respective selected courses.																						
8	Formal requirements: The entry requirements for the individual courses are based on the course descriptions of the respective selected courses.																						
9	Module type and applicability of the module: Compulsory elective modules in M.Sc. Econometrics																						
10	Module coordinator: Lecturers from the responsible departments		Responsible department: TU Dortmund University, Department of Business and Economics																				
11	Literature:																						
12	Further Information:																						

Module ME EM4: Economics@UDE I					
Degree program: M.Sc. Econometrics					
Interval: Each semester		Duration: 1 semester		Study phase: 1st - 3rd semester	
				CP 6	
				Workload 180 h	
1 Module structure:					
No.		Element / course		Type	CP
1		Elective course		L+S/L+T/ L+integrated E/S	6
		Module examination		ME	Weekly contact hours 4h
2 Language of instruction: English or German					
3 Teaching content: The module offers a selection of advanced courses in Economics. Students gain exposure to theoretical and applied topics in microeconomics, macroeconomics, and related fields, with emphasis on formal modeling, empirical applications, and current research questions.					
4 Competencies: Participants acquire the ability to understand, analyze, and critically evaluate advanced economic models and methods. They develop skills to apply economic reasoning to complex problems, integrate econometric approaches with economic theory, and engage with contemporary research debates in economics.					
5 Examinations: The type and format of examination depend on the specific course selected within this module. Possible forms include written exams, oral exams, or seminar papers and presentations. The format of examination is announced at the beginning of each course. Students have three attempts for this elective module, regardless of the course. This means that, after an unsuccessful first attempt, students may switch to a different course approved for this module and complete their second attempt there.					
6 Types of examinations and performances: Relating to individual courses.					
7 Recommended knowledge: Specific recommended knowledge for the individual courses are based on the course descriptions of the respective selected courses.					
8 Formal requirements: The entry requirements for the individual courses are based on the course descriptions of the respective selected courses.					
9 Module type and applicability of the module: Compulsory elective modules in M.Sc. Econometrics					
10 Module coordinator: Lecturers from the responsible departments				Responsible department: University of Duisburg-Essen, Department of Business Administration and Economics	
11 Literature:					
12 Further Information:					

Module ME EM5: Economics@UDE II																				
Degree program: M.Sc. Econometrics																				
Interval: Each semester		Duration: 1 semester		Study phase: 1st - 3rd semester																
				CP 6																
				Workload 180 h																
1	Module structure: <table><tr><td>No.</td><td>Element / course</td><td>Type</td><td>CP</td><td>Weekly contact hours</td></tr><tr><td>1</td><td>Elective course</td><td>L+S/L+T/ L+integrated E/S</td><td>6</td><td>4h</td></tr><tr><td></td><td>Module examination</td><td>ME</td><td></td><td></td></tr></table>					No.	Element / course	Type	CP	Weekly contact hours	1	Elective course	L+S/L+T/ L+integrated E/S	6	4h		Module examination	ME		
No.	Element / course	Type	CP	Weekly contact hours																
1	Elective course	L+S/L+T/ L+integrated E/S	6	4h																
	Module examination	ME																		
2	Language of instruction: English or German																			
3	Teaching content: The module offers a selection of advanced courses in Economics. Students gain exposure to theoretical and applied topics in microeconomics, macroeconomics, and related fields, with emphasis on formal modeling, empirical applications, and current research questions.																			
4	Competencies: Participants acquire the ability to understand, analyze, and critically evaluate advanced economic models and methods. They develop skills to apply economic reasoning to complex problems, integrate econometric approaches with economic theory, and engage with contemporary research debates in economics.																			
5	Examinations: The type and format of examination depend on the specific course selected within this module. Possible forms include written exams, oral exams, or seminar papers and presentations. The format of examination is announced at the beginning of each course. Students have three attempts for this elective module, regardless of the course. This means that, after an unsuccessful first attempt, students may switch to a different course approved for this module and complete their second attempt there.																			
6	Types of examinations and performances: Relating to individual courses.																			
7	Recommended knowledge: Specific recommended knowledge for the individual courses are based on the course descriptions of the respective selected courses.																			
8	Formal requirements: The entry requirements for the individual courses are based on the course descriptions of the respective selected courses.																			
9	Module type and applicability of the module: Compulsory elective modules in M.Sc. Econometrics																			
10	Module coordinator: Lecturers from the responsible departments			Responsible department: University of Duisburg-Essen, Department of Business Administration and Economics																
11	Literature:																			
12	Further Information:																			

Module ME EM6: Economics@UDE III					
Degree program: M.Sc. Econometrics					
Interval: Each semester		Duration: 1 semester		Study phase: 1st - 3rd semester	
				CP 6	
				Workload 180 h	
1 Module structure:					
No.		Element / course		Type	CP
1		Elective course		L+S/L+T/ L+integrated E/S	6
		Module examination		ME	Weekly contact hours 4h
2 Language of instruction: English or German					
3 Teaching content: The module offers a selection of advanced courses in Economics. Students gain exposure to theoretical and applied topics in microeconomics, macroeconomics, and related fields, with emphasis on formal modeling, empirical applications, and current research questions.					
4 Competencies: Participants acquire the ability to understand, analyze, and critically evaluate advanced economic models and methods. They develop skills to apply economic reasoning to complex problems, integrate econometric approaches with economic theory, and engage with contemporary research debates in economics.					
5 Examinations: The type and format of examination depend on the specific course selected within this module. Possible forms include written exams, oral exams, or seminar papers and presentations. The format of examination is announced at the beginning of each course. Students have three attempts for this elective module, regardless of the course. This means that, after an unsuccessful first attempt, students may switch to a different course approved for this module and complete their second attempt there.					
6 Types of examinations and performances: Relating to individual courses.					
7 Recommended knowledge: Specific recommended knowledge for the individual courses are based on the course descriptions of the respective selected courses.					
8 Formal requirements: The entry requirements for the individual courses are based on the course descriptions of the respective selected courses.					
9 Module type and applicability of the module: Compulsory elective modules in M.Sc. Econometrics					
10 Module coordinator: Lecturers from the responsible departments				Responsible department: University of Duisburg-Essen, Department of Business Administration and Economics	
11 Literature:					
12 Further Information:					

Module ME EM7: Economics@UDE IV					
Degree program: M.Sc. Econometrics					
Interval: Each semester		Duration: 1 semester		Study phase: 1st - 3rd semester	
				CP 6	
				Workload 180 h	
1 Module structure:					
No.		Element / course		Type	CP
1		Elective course		L+S/L+T/ L+integrated E/S	6
		Module examination		ME	Weekly contact hours 4h
2 Language of instruction: English or German					
3 Teaching content: The module offers a selection of advanced courses in Economics. Students gain exposure to theoretical and applied topics in microeconomics, macroeconomics, and related fields, with emphasis on formal modeling, empirical applications, and current research questions.					
4 Competencies: Participants acquire the ability to understand, analyze, and critically evaluate advanced economic models and methods. They develop skills to apply economic reasoning to complex problems, integrate econometric approaches with economic theory, and engage with contemporary research debates in economics.					
5 Examinations: The type and format of examination depend on the specific course selected within this module. Possible forms include written exams, oral exams, or seminar papers and presentations. The format of examination is announced at the beginning of each course. Students have three attempts for this elective module, regardless of the course. This means that, after an unsuccessful first attempt, students may switch to a different course approved for this module and complete their second attempt there.					
6 Types of examinations and performances: Relating to individual courses.					
7 Recommended knowledge: Specific recommended knowledge for the individual courses are based on the course descriptions of the respective selected courses.					
8 Formal requirements: The entry requirements for the individual courses are based on the course descriptions of the respective selected courses.					
9 Module type and applicability of the module: Compulsory elective modules in M.Sc. Econometrics					
10 Module coordinator: Lecturers from the responsible departments		Responsible department: University of Duisburg-Essen, Department of Business Administration and Economics			
11 Literature:					
12 Further Information:					

Module ME EM8: Economics@RUB I																							
Degree program: M.Sc. Econometrics																							
Interval: Each semester		Duration: 1 semester	Study phase: 1st - 3rd semester		CP 5																		
					Workload 150 h																		
1	Module structure: <table><tr><td>No.</td><td>Element / course</td><td>Type</td><td>CP</td><td colspan="2">Weekly contact hours</td></tr><tr><td>1</td><td>Elective course</td><td>L+S/L+T/ L+integrated E/S</td><td>5</td><td colspan="2">2h</td></tr><tr><td colspan="2">Module examination</td><td colspan="2">ME</td><td colspan="2"></td></tr></table>					No.	Element / course	Type	CP	Weekly contact hours		1	Elective course	L+S/L+T/ L+integrated E/S	5	2h		Module examination		ME			
No.	Element / course	Type	CP	Weekly contact hours																			
1	Elective course	L+S/L+T/ L+integrated E/S	5	2h																			
Module examination		ME																					
2	Language of instruction: English or German																						
3	Teaching content: The module offers a selection of advanced courses in Economics. Students gain exposure to theoretical and applied topics in microeconomics, macroeconomics, and related fields, with emphasis on formal modeling, empirical applications, and current research questions.																						
4	Competencies: Participants acquire the ability to understand, analyze, and critically evaluate advanced economic models and methods. They develop skills to apply economic reasoning to complex problems, integrate econometric approaches with economic theory, and engage with contemporary research debates in economics.																						
5	Examinations: The type and format of examination depend on the specific course selected within this module. Possible forms include written exams, oral exams, or seminar papers and presentations. The format of examination is announced at the beginning of each course. Students have three attempts for this elective module, regardless of the course. This means that, after an unsuccessful first attempt, students may switch to a different course approved for this module and complete their second attempt there.																						
6	Types of examinations and performances: Relating to individual courses.																						
7	Recommended knowledge: Specific recommended knowledge for the individual courses are based on the course descriptions of the respective selected courses.																						
8	Formal requirements: The entry requirements for the individual courses are based on the course descriptions of the respective selected courses.																						
9	Module type and applicability of the module: Compulsory elective modules in M.Sc. Econometrics																						
10	Module coordinator: Lecturers from the responsible departments		Responsible department: Ruhr-University Bochum, Department of Management and Economics																				
11	Literature:																						
12	Further Information:																						

Module ME EM9: Economics@RUB II					
Degree program: M.Sc. Econometrics					
Interval: Each semester		Duration: 1 semester	Study phase: 1st - 3rd semester		CP 5
					Workload 150 h
1	Module structure:				
	No.	Element / course	Type	CP	Weekly contact hours
	1	Elective course	L+S/L+T/ L+integrated E/S	5	2h
		Module examination	ME		
2	Language of instruction: English or German				
3	Teaching content: The module offers a selection of advanced courses in Economics. Students gain exposure to theoretical and applied topics in microeconomics, macroeconomics, and related fields, with emphasis on formal modeling, empirical applications, and current research questions.				
4	Competencies: Participants acquire the ability to understand, analyze, and critically evaluate advanced economic models and methods. They develop skills to apply economic reasoning to complex problems, integrate econometric approaches with economic theory, and engage with contemporary research debates in economics.				
5	Examinations: The type and format of examination depend on the specific course selected within this module. Possible forms include written exams, oral exams, or seminar papers and presentations. The format of examination is announced at the beginning of each course. Students have three attempts for this elective module, regardless of the course. This means that, after an unsuccessful first attempt, students may switch to a different course approved for this module and complete their second attempt there.				
6	Types of examinations and performances: Relating to individual courses.				
7	Recommended knowledge: Specific recommended knowledge for the individual courses are based on the course descriptions of the respective selected courses.				
8	Formal requirements: The entry requirements for the individual courses are based on the course descriptions of the respective selected courses.				
9	Module type and applicability of the module: Compulsory elective modules in M.Sc. Econometrics				
10	Module coordinator: Lecturers from the responsible departments		Responsible department: Ruhr-University Bochum, Department of Management and Economics		
11	Literature:				
12	Further Information:				

Module ME EM10: Economics@RUB III																							
Degree program: M.Sc. Econometrics																							
Interval: Each semester		Duration: 1 semester	Study phase: 1st - 3rd semester	CP 5	Workload 150 h																		
1	Module structure: <table><tr><td>No.</td><td>Element / course</td><td>Type</td><td>CP</td><td colspan="2">Weekly contact hours</td></tr><tr><td>1</td><td>Elective course</td><td>L+S/L+T/ L+integrated E/S</td><td>5</td><td colspan="2">2h</td></tr><tr><td colspan="2">Module examination</td><td>ME</td><td colspan="3"></td></tr></table>					No.	Element / course	Type	CP	Weekly contact hours		1	Elective course	L+S/L+T/ L+integrated E/S	5	2h		Module examination		ME			
No.	Element / course	Type	CP	Weekly contact hours																			
1	Elective course	L+S/L+T/ L+integrated E/S	5	2h																			
Module examination		ME																					
2	Language of instruction: English or German																						
3	Teaching content: The module offers a selection of advanced courses in Economics. Students gain exposure to theoretical and applied topics in microeconomics, macroeconomics, and related fields, with emphasis on formal modeling, empirical applications, and current research questions.																						
4	Competencies: Participants acquire the ability to understand, analyze, and critically evaluate advanced economic models and methods. They develop skills to apply economic reasoning to complex problems, integrate econometric approaches with economic theory, and engage with contemporary research debates in economics.																						
5	Examinations: The type and format of examination depend on the specific course selected within this module. Possible forms include written exams, oral exams, or seminar papers and presentations. The format of examination is announced at the beginning of each course. Students have three attempts for this elective module, regardless of the course. This means that, after an unsuccessful first attempt, students may switch to a different course approved for this module and complete their second attempt there.																						
6	Types of examinations and performances: Relating to individual courses.																						
7	Recommended knowledge: Specific recommended knowledge for the individual courses are based on the course descriptions of the respective selected courses.																						
8	Formal requirements: The entry requirements for the individual courses are based on the course descriptions of the respective selected courses.																						
9	Module type and applicability of the module: Compulsory elective modules in M.Sc. Econometrics																						
10	Module coordinator: Lecturers from the responsible departments		Responsible department: Ruhr-University Bochum, Department of Management and Economics																				
11	Literature:																						
12	Further Information:																						

Module ME EM11: Economics@RUB IV																							
Degree program: M.Sc. Econometrics																							
Interval: Each semester		Duration: 1 semester	Study phase: 1st - 3rd semester	CP 5	Workload 150 h																		
1	Module structure: <table><tr><td>No.</td><td>Element / course</td><td>Type</td><td>CP</td><td colspan="2">Weekly contact hours</td></tr><tr><td>1</td><td>Elective course</td><td>L+S/L+T/ L+integrated E/S</td><td>5</td><td colspan="2">2h</td></tr><tr><td colspan="2">Module examination</td><td>ME</td><td colspan="3"></td></tr></table>					No.	Element / course	Type	CP	Weekly contact hours		1	Elective course	L+S/L+T/ L+integrated E/S	5	2h		Module examination		ME			
No.	Element / course	Type	CP	Weekly contact hours																			
1	Elective course	L+S/L+T/ L+integrated E/S	5	2h																			
Module examination		ME																					
2	Language of instruction: English or German																						
3	Teaching content: The module offers a selection of advanced courses in Economics. Students gain exposure to theoretical and applied topics in microeconomics, macroeconomics, and related fields, with emphasis on formal modeling, empirical applications, and current research questions.																						
4	Competencies: Participants acquire the ability to understand, analyze, and critically evaluate advanced economic models and methods. They develop skills to apply economic reasoning to complex problems, integrate econometric approaches with economic theory, and engage with contemporary research debates in economics.																						
5	Examinations: The type and format of examination depend on the specific course selected within this module. Possible forms include written exams, oral exams, or seminar papers and presentations. The format of examination is announced at the beginning of each course. Students have three attempts for this elective module, regardless of the course. This means that, after an unsuccessful first attempt, students may switch to a different course approved for this module and complete their second attempt there.																						
6	Types of examinations and performances: Relating to individual courses.																						
7	Recommended knowledge: Specific recommended knowledge for the individual courses are based on the course descriptions of the respective selected courses.																						
8	Formal requirements: The entry requirements for the individual courses are based on the course descriptions of the respective selected courses.																						
9	Module type and applicability of the module: Compulsory elective modules in M.Sc. Econometrics																						
10	Module coordinator: Lecturers from the responsible departments		Responsible department: Ruhr-University Bochum, Department of Management and Economics																				
11	Literature:																						
12	Further Information:																						

Module ME EM12: Economics@RUB V																							
Degree program: M.Sc. Econometrics																							
Interval: Each semester		Duration: 1 semester	Study phase: 1st - 3rd semester	CP 10	Workload 300 h																		
1	Module structure: <table><tr><td>No.</td><td>Element / course</td><td>Type</td><td>CP</td><td colspan="2">Weekly contact hours</td></tr><tr><td>1</td><td>Elective course</td><td>L+S/L+T/ L+integrated E/S</td><td>10</td><td colspan="2">4h</td></tr><tr><td colspan="2">Module examination</td><td>ME</td><td colspan="3"></td></tr></table>					No.	Element / course	Type	CP	Weekly contact hours		1	Elective course	L+S/L+T/ L+integrated E/S	10	4h		Module examination		ME			
No.	Element / course	Type	CP	Weekly contact hours																			
1	Elective course	L+S/L+T/ L+integrated E/S	10	4h																			
Module examination		ME																					
2	Language of instruction: English or German																						
3	Teaching content: The module offers a selection of advanced courses in Economics. Students gain exposure to theoretical and applied topics in microeconomics, macroeconomics, and related fields, with emphasis on formal modeling, empirical applications, and current research questions.																						
4	Competencies: Participants acquire the ability to understand, analyze, and critically evaluate advanced economic models and methods. They develop skills to apply economic reasoning to complex problems, integrate econometric approaches with economic theory, and engage with contemporary research debates in economics.																						
5	Examinations: The type and format of examination depend on the specific course selected within this module. Possible forms include written exams, oral exams, or seminar papers and presentations. The format of examination is announced at the beginning of each course. Students have three attempts for this elective module, regardless of the course. This means that, after an unsuccessful first attempt, students may switch to a different course approved for this module and complete their second attempt there.																						
6	Types of examinations and performances: Relating to individual courses.																						
7	Recommended knowledge: Specific recommended knowledge for the individual courses are based on the course descriptions of the respective selected courses.																						
8	Formal requirements: The entry requirements for the individual courses are based on the course descriptions of the respective selected courses.																						
9	Module type and applicability of the module: Compulsory elective modules in M.Sc. Econometrics																						
10	Module coordinator: Lecturers from the responsible departments		Responsible department: Ruhr-University Bochum, Department of Management and Economics																				
11	Literature:																						
12	Further Information:																						

Module ME EM13: Economics@RUB VI																							
Degree program: M.Sc. Econometrics																							
Interval: Each semester		Duration: 1 semester	Study phase: 1st - 3rd semester		CP 10	Workload 300 h																	
1	Module structure: <table><tr><td>No.</td><td>Element / course</td><td>Type</td><td>CP</td><td colspan="2">Weekly contact hours</td></tr><tr><td>1</td><td>Elective course</td><td>L+S/L+T/ L+integrated E/S</td><td>10</td><td colspan="2">4h</td></tr><tr><td colspan="2">Module examination</td><td>ME</td><td colspan="3"></td></tr></table>					No.	Element / course	Type	CP	Weekly contact hours		1	Elective course	L+S/L+T/ L+integrated E/S	10	4h		Module examination		ME			
No.	Element / course	Type	CP	Weekly contact hours																			
1	Elective course	L+S/L+T/ L+integrated E/S	10	4h																			
Module examination		ME																					
2	Language of instruction: English or German																						
3	Teaching content: The module offers a selection of advanced courses in Economics. Students gain exposure to theoretical and applied topics in microeconomics, macroeconomics, and related fields, with emphasis on formal modeling, empirical applications, and current research questions.																						
4	Competencies: Participants acquire the ability to understand, analyze, and critically evaluate advanced economic models and methods. They develop skills to apply economic reasoning to complex problems, integrate econometric approaches with economic theory, and engage with contemporary research debates in economics.																						
5	Examinations: The type and format of examination depend on the specific course selected within this module. Possible forms include written exams, oral exams, or seminar papers and presentations. The format of examination is announced at the beginning of each course. Students have three attempts for this elective module, regardless of the course. This means that, after an unsuccessful first attempt, students may switch to a different course approved for this module and complete their second attempt there.																						
6	Types of examinations and performances: Relating to individual courses.																						
7	Recommended knowledge: Specific recommended knowledge for the individual courses are based on the course descriptions of the respective selected courses.																						
8	Formal requirements: The entry requirements for the individual courses are based on the course descriptions of the respective selected courses.																						
9	Module type and applicability of the module: Compulsory elective modules in M.Sc. Econometrics																						
10	Module coordinator: Lecturers from the responsible departments		Responsible department: Ruhr-University Bochum, Department of Management and Economics																				
11	Literature:																						
12	Further Information:																						

PROVISIONAL VERSION!

Applied Econometrics

The elective modules **EM14–EM33** are part of the **Applied Econometrics Elective Area**. Students must complete **at least 11 ECTS credits** in this area. Descriptions of the individual modules are provided below.

Module ME EM14: Applied Econometrics@TUDo I					
Degree program: M.Sc. Econometrics					
Interval: Each semester		Duration: 1 semester		Study phase: 1st - 3rd semester	
				CP 4.5	
				Workload 135 h	
1 Module structure:					
No.		Element / course		Type	CP
1		Elective course		L+S/L+T/ L+integrated E/S	4.5
		Module examination		ME	Weekly contact hours 3h
2 Language of instruction: English or German					
3 Teaching content: The module explores a selection of relevant topics in applied econometrics. It provides an overview of practical econometric approaches used to analyze real-world economic issues. The content is designed to be flexible, reflecting current research trends and applications, and may include case studies, empirical projects, and hands-on data analysis exercises. Students engage with both the interpretation of empirical results and the critical evaluation of methods.					
4 Competencies: Students develop the ability to apply econometric techniques to a variety of empirical economic questions. They learn to analyze and interpret data rigorously, adapt methods to different research contexts, and assess the strengths and limitations of empirical approaches. The module enhances students' problem-solving skills, analytical thinking, and capacity to conduct independent applied research in economics.					
5 Examinations: The type and format of examination depend on the specific course selected within this module. Possible forms include written exams, oral exams, or seminar papers and presentations. The format of examination is announced at the beginning of each course. Students have three attempts for this elective module, regardless of the course. This means that, after an unsuccessful first attempt, students may switch to a different course approved for this module and complete their second attempt there.					
6 Types of examinations and performances: Relating to individual courses.					
7 Recommended knowledge: Specific recommended knowledge for the individual courses are based on the course descriptions of the respective selected courses.					
8 Formal requirements: The entry requirements for the individual courses are based on the course descriptions of the respective selected courses.					
9 Module type and applicability of the module: Compulsory elective modules in M.Sc. Econometrics					
10 Module coordinator: Lecturers from the responsible departments				Responsible department: TU Dortmund University, Department of Statistics	
11 Literature:					
12 Further Information:					

Module ME EM15: Applied Econometrics@TUDo II																							
Degree program: M.Sc. Econometrics																							
Interval: Each semester		Duration: 1 semester	Study phase: 1st - 3rd semester	CP 4.5	Workload 135 h																		
1	Module structure: <table><tr><td>No.</td><td>Element / course</td><td>Type</td><td>CP</td><td colspan="2">Weekly contact hours</td></tr><tr><td>1</td><td>Elective course</td><td>L+S/L+T/ L+integrated E/S</td><td>4.5</td><td colspan="2">3h</td></tr><tr><td colspan="2">Module examination</td><td colspan="4">ME</td></tr></table>					No.	Element / course	Type	CP	Weekly contact hours		1	Elective course	L+S/L+T/ L+integrated E/S	4.5	3h		Module examination		ME			
No.	Element / course	Type	CP	Weekly contact hours																			
1	Elective course	L+S/L+T/ L+integrated E/S	4.5	3h																			
Module examination		ME																					
2	Language of instruction: English or German																						
3	Teaching content: The module explores a selection of relevant topics in applied econometrics. It provides an overview of practical econometric approaches used to analyze real-world economic issues. The content is designed to be flexible, reflecting current research trends and applications, and may include case studies, empirical projects, and hands-on data analysis exercises. Students engage with both the interpretation of empirical results and the critical evaluation of methods.																						
4	Competencies: Students develop the ability to apply econometric techniques to a variety of empirical economic questions. They learn to analyze and interpret data rigorously, adapt methods to different research contexts, and assess the strengths and limitations of empirical approaches. The module enhances students' problem-solving skills, analytical thinking, and capacity to conduct independent applied research in economics.																						
5	Examinations: The type and format of examination depend on the specific course selected within this module. Possible forms include written exams, oral exams, or seminar papers and presentations. The format of examination is announced at the beginning of each course. Students have three attempts for this elective module, regardless of the course. This means that, after an unsuccessful first attempt, students may switch to a different course approved for this module and complete their second attempt there.																						
6	Types of examinations and performances: Relating to individual courses.																						
7	Recommended knowledge: Specific recommended knowledge for the individual courses are based on the course descriptions of the respective selected courses.																						
8	Formal requirements: The entry requirements for the individual courses are based on the course descriptions of the respective selected courses.																						
9	Module type and applicability of the module: Compulsory elective modules in M.Sc. Econometrics																						
10	Module coordinator: Lecturers from the responsible departments		Responsible department: TU Dortmund University, Department of Statistics																				
11	Literature:																						
12	Further Information:																						

Module ME EM16: Applied Econometrics@TUDo III					
Degree program: M.Sc. Econometrics					
Interval: Each semester		Duration: 1 semester		Study phase: 1st - 3rd semester	
			CP 4.5		Workload 135 h
1	Module structure:				
	No.	Element / course	Type	CP	Weekly contact hours
	1	Elective course	L+S/L+T/ L+integrated E/S	4.5	3h
		Module examination	ME		
2	Language of instruction: English or German				
3	Teaching content: The module explores a selection of relevant topics in applied econometrics. It provides an overview of practical econometric approaches used to analyze real-world economic issues. The content is designed to be flexible, reflecting current research trends and applications, and may include case studies, empirical projects, and hands-on data analysis exercises. Students engage with both the interpretation of empirical results and the critical evaluation of methods.				
4	Competencies: Students develop the ability to apply econometric techniques to a variety of empirical economic questions. They learn to analyze and interpret data rigorously, adapt methods to different research contexts, and assess the strengths and limitations of empirical approaches. The module enhances students' problem-solving skills, analytical thinking, and capacity to conduct independent applied research in economics.				
5	Examinations: The type and format of examination depend on the specific course selected within this module. Possible forms include written exams, oral exams, or seminar papers and presentations. The format of examination is announced at the beginning of each course. Students have three attempts for this elective module, regardless of the course. This means that, after an unsuccessful first attempt, students may switch to a different course approved for this module and complete their second attempt there.				
6	Types of examinations and performances: Relating to individual courses.				
7	Recommended knowledge: Specific recommended knowledge for the individual courses are based on the course descriptions of the respective selected courses.				
8	Formal requirements: The entry requirements for the individual courses are based on the course descriptions of the respective selected courses.				
9	Module type and applicability of the module: Compulsory elective modules in M.Sc. Econometrics				
10	Module coordinator: Lecturers from the responsible departments			Responsible department: TU Dortmund University, Department of Statistics	
11	Literature:				
12	Further Information:				

Module ME EM17: Applied Econometrics@TUDo IV

Degree program: M.Sc. Econometrics																							
Interval: Each semester		Duration: 1 semester	Study phase: 1st - 3rd semester		CP 4.5	Workload 135 h																	
1	Module structure: <table><tr><td>No.</td><td>Element / course</td><td>Type</td><td>CP</td><td colspan="2">Weekly contact hours</td></tr><tr><td>1</td><td>Elective course</td><td>L+S/L+T/ L+integrated E/S</td><td>4.5</td><td colspan="2">3h</td></tr><tr><td colspan="2">Module examination</td><td colspan="4">ME</td></tr></table>					No.	Element / course	Type	CP	Weekly contact hours		1	Elective course	L+S/L+T/ L+integrated E/S	4.5	3h		Module examination		ME			
No.	Element / course	Type	CP	Weekly contact hours																			
1	Elective course	L+S/L+T/ L+integrated E/S	4.5	3h																			
Module examination		ME																					
2	Language of instruction: English or German																						
3	Teaching content: The module explores a selection of relevant topics in applied econometrics. It provides an overview of practical econometric approaches used to analyze real-world economic issues. The content is designed to be flexible, reflecting current research trends and applications, and may include case studies, empirical projects, and hands-on data analysis exercises. Students engage with both the interpretation of empirical results and the critical evaluation of methods.																						
4	Competencies: Students develop the ability to apply econometric techniques to a variety of empirical economic questions. They learn to analyze and interpret data rigorously, adapt methods to different research contexts, and assess the strengths and limitations of empirical approaches. The module enhances students' problem-solving skills, analytical thinking, and capacity to conduct independent applied research in economics.																						
5	Examinations: The type and format of examination depend on the specific course selected within this module. Possible forms include written exams, oral exams, or seminar papers and presentations. The format of examination is announced at the beginning of each course. Students have three attempts for this elective module, regardless of the course. This means that, after an unsuccessful first attempt, students may switch to a different course approved for this module and complete their second attempt there.																						
6	Types of examinations and performances: Relating to individual courses.																						
7	Recommended knowledge: Specific recommended knowledge for the individual courses are based on the course descriptions of the respective selected courses.																						
8	Formal requirements: The entry requirements for the individual courses are based on the course descriptions of the respective selected courses.																						
9	Module type and applicability of the module: Compulsory elective modules in M.Sc. Econometrics																						
10	Module coordinator: Lecturers from the responsible departments		Responsible department: TU Dortmund University, Department of Statistics																				
11	Literature:																						
12	Further Information:																						
Module ME EM18: Applied Econometrics@TUDo V																							
Degree program: M.Sc. Econometrics																							

Interval: Each semester		Duration: 1 semester	Study phase: 1st - 3rd semester	CP 9	Workload 270 h															
1	Module structure: <table><tr><td>No.</td><td>Element / course</td><td>Type</td><td>CP</td><td>Weekly contact hours</td></tr><tr><td>1</td><td>Elective course</td><td>L+S/L+T/ L+integrated E/S</td><td>9</td><td>6h</td></tr><tr><td></td><td>Module examination</td><td>ME</td><td></td><td></td></tr></table>					No.	Element / course	Type	CP	Weekly contact hours	1	Elective course	L+S/L+T/ L+integrated E/S	9	6h		Module examination	ME		
No.	Element / course	Type	CP	Weekly contact hours																
1	Elective course	L+S/L+T/ L+integrated E/S	9	6h																
	Module examination	ME																		
2	Language of instruction: English or German																			
3	Teaching content: The module explores a selection of relevant topics in applied econometrics. It provides an overview of practical econometric approaches used to analyze real-world economic issues. The content is designed to be flexible, reflecting current research trends and applications, and may include case studies, empirical projects, and hands-on data analysis exercises. Students engage with both the interpretation of empirical results and the critical evaluation of methods.																			
4	Competencies: Students develop the ability to apply econometric techniques to a variety of empirical economic questions. They learn to analyze and interpret data rigorously, adapt methods to different research contexts, and assess the strengths and limitations of empirical approaches. The module enhances students' problem-solving skills, analytical thinking, and capacity to conduct independent applied research in economics.																			
5	Examinations: The type and format of examination depend on the specific course selected within this module. Possible forms include written exams, oral exams, or seminar papers and presentations. The format of examination is announced at the beginning of each course. Students have three attempts for this elective module, regardless of the course. This means that, after an unsuccessful first attempt, students may switch to a different course approved for this module and complete their second attempt there.																			
6	Types of examinations and performances: Relating to individual courses.																			
7	Recommended knowledge: Specific recommended knowledge for the individual courses are based on the course descriptions of the respective selected courses.																			
8	Formal requirements: The entry requirements for the individual courses are based on the course descriptions of the respective selected courses.																			
9	Module type and applicability of the module: Compulsory elective modules in M.Sc. Econometrics																			
10	Module coordinator: Lecturers from the responsible departments			Responsible department: TU Dortmund University, Department of Statistics																
11	Literature:																			
12	Further Information:																			
Module ME EM19: Applied Econometrics@TUDo VI																				

Degree program: M.Sc. Econometrics																							
Interval: Each semester		Duration: 1 semester	Study phase: 1st - 3rd semester		CP 9	Workload 270 h																	
1	Module structure: <table><tr><td>No.</td><td>Element / course</td><td>Type</td><td>CP</td><td colspan="2">Weekly contact hours</td></tr><tr><td>1</td><td>Elective course</td><td>L+S/L+T/ L+integrated E/S</td><td>9</td><td colspan="2">270h</td></tr><tr><td colspan="2">Module examination</td><td colspan="4">ME</td></tr></table>					No.	Element / course	Type	CP	Weekly contact hours		1	Elective course	L+S/L+T/ L+integrated E/S	9	270h		Module examination		ME			
No.	Element / course	Type	CP	Weekly contact hours																			
1	Elective course	L+S/L+T/ L+integrated E/S	9	270h																			
Module examination		ME																					
2	Language of instruction: English or German																						
3	Teaching content: The module explores a selection of relevant topics in applied econometrics. It provides an overview of practical econometric approaches used to analyze real-world economic issues. The content is designed to be flexible, reflecting current research trends and applications, and may include case studies, empirical projects, and hands-on data analysis exercises. Students engage with both the interpretation of empirical results and the critical evaluation of methods.																						
4	Competencies: Students develop the ability to apply econometric techniques to a variety of empirical economic questions. They learn to analyze and interpret data rigorously, adapt methods to different research contexts, and assess the strengths and limitations of empirical approaches. The module enhances students' problem-solving skills, analytical thinking, and capacity to conduct independent applied research in economics.																						
5	Examinations: The type and format of examination depend on the specific course selected within this module. Possible forms include written exams, oral exams, or seminar papers and presentations. The format of examination is announced at the beginning of each course. Students have three attempts for this elective module, regardless of the course. This means that, after an unsuccessful first attempt, students may switch to a different course approved for this module and complete their second attempt there.																						
6	Types of examinations and performances: Relating to individual courses.																						
7	Recommended knowledge: Specific recommended knowledge for the individual courses are based on the course descriptions of the respective selected courses.																						
8	Formal requirements: The entry requirements for the individual courses are based on the course descriptions of the respective selected courses.																						
9	Module type and applicability of the module: Compulsory elective modules in M.Sc. Econometrics																						
10	Module coordinator: Lecturers from the responsible departments		Responsible department: TU Dortmund University, Department of Statistics																				
11	Literature:																						
12	Further Information:																						
Module ME EM20: Applied Econometrics@TUDo VII																							
Degree program: M.Sc. Econometrics																							

Interval: Each semester		Duration: 1 semester	Study phase: 1st - 3rd semester	CP 7.5	Workload 225 h															
1	Module structure: <table><tr><td>No.</td><td>Element / course</td><td>Type</td><td>CP</td><td>Weekly contact hours</td></tr><tr><td>1</td><td>Elective course</td><td>L+S/L+T/ L+integrated E/S</td><td>7.5</td><td>4h</td></tr><tr><td></td><td>Module examination</td><td>ME</td><td></td><td></td></tr></table>					No.	Element / course	Type	CP	Weekly contact hours	1	Elective course	L+S/L+T/ L+integrated E/S	7.5	4h		Module examination	ME		
No.	Element / course	Type	CP	Weekly contact hours																
1	Elective course	L+S/L+T/ L+integrated E/S	7.5	4h																
	Module examination	ME																		
2	Language of instruction: English or German																			
3	Teaching content: The module explores a selection of relevant topics in applied econometrics. It provides an overview of practical econometric approaches used to analyze real-world economic issues. The content is designed to be flexible, reflecting current research trends and applications, and may include case studies, empirical projects, and hands-on data analysis exercises. Students engage with both the interpretation of empirical results and the critical evaluation of methods.																			
4	Competencies: Students develop the ability to apply econometric techniques to a variety of empirical economic questions. They learn to analyze and interpret data rigorously, adapt methods to different research contexts, and assess the strengths and limitations of empirical approaches. The module enhances students' problem-solving skills, analytical thinking, and capacity to conduct independent applied research in economics.																			
5	Examinations: The type and format of examination depend on the specific course selected within this module. Possible forms include written exams, oral exams, or seminar papers and presentations. The format of examination is announced at the beginning of each course. Students have three attempts for this elective module, regardless of the course. This means that, after an unsuccessful first attempt, students may switch to a different course approved for this module and complete their second attempt there.																			
6	Types of examinations and performances: Relating to individual courses.																			
7	Recommended knowledge: Specific recommended knowledge for the individual courses are based on the course descriptions of the respective selected courses.																			
8	Formal requirements: The entry requirements for the individual courses are based on the course descriptions of the respective selected courses.																			
9	Module type and applicability of the module: Compulsory elective modules in M.Sc. Econometrics																			
10	Module coordinator: Lecturers from the responsible departments			Responsible department: TU Dortmund University, Department of Business and Economics																
11	Literature:																			
12	Further Information:																			

Module ME EM21: Applied Econometrics@TUDo VIII
Degree program: M.Sc. Econometrics

Interval: Each semester		Duration: 1 semester	Study phase: 1st - 3rd semester	CP 7.5	Workload 225 h															
1	Module structure: <table><tr><td>No.</td><td>Element / course</td><td>Type</td><td>CP</td><td>Weekly contact hours</td></tr><tr><td>1</td><td>Elective course</td><td>L+S/L+T/ L+integrated E/S</td><td>7.5</td><td>4h</td></tr><tr><td></td><td>Module examination</td><td>ME</td><td></td><td></td></tr></table>					No.	Element / course	Type	CP	Weekly contact hours	1	Elective course	L+S/L+T/ L+integrated E/S	7.5	4h		Module examination	ME		
No.	Element / course	Type	CP	Weekly contact hours																
1	Elective course	L+S/L+T/ L+integrated E/S	7.5	4h																
	Module examination	ME																		
2	Language of instruction: English or German																			
3	Teaching content: The module explores a selection of relevant topics in applied econometrics. It provides an overview of practical econometric approaches used to analyze real-world economic issues. The content is designed to be flexible, reflecting current research trends and applications, and may include case studies, empirical projects, and hands-on data analysis exercises. Students engage with both the interpretation of empirical results and the critical evaluation of methods.																			
4	Competencies: Students develop the ability to apply econometric techniques to a variety of empirical economic questions. They learn to analyze and interpret data rigorously, adapt methods to different research contexts, and assess the strengths and limitations of empirical approaches. The module enhances students' problem-solving skills, analytical thinking, and capacity to conduct independent applied research in economics.																			
5	Examinations: The type and format of examination depend on the specific course selected within this module. Possible forms include written exams, oral exams, or seminar papers and presentations. The format of examination is announced at the beginning of each course. Students have three attempts for this elective module, regardless of the course. This means that, after an unsuccessful first attempt, students may switch to a different course approved for this module and complete their second attempt there.																			
6	Types of examinations and performances: Relating to individual courses.																			
7	Recommended knowledge: Specific recommended knowledge for the individual courses are based on the course descriptions of the respective selected courses.																			
8	Formal requirements: The entry requirements for the individual courses are based on the course descriptions of the respective selected courses.																			
9	Module type and applicability of the module: Compulsory elective modules in M.Sc. Econometrics																			
10	Module coordinator: Lecturers from the responsible departments			Responsible department: TU Dortmund University, Department of Business and Economics																
11	Literature:																			
12	Further Information:																			
Module ME EM22: Applied Econometrics@TUDo IX																				
Degree program: M.Sc. Econometrics																				

Interval: Each semester		Duration: 1 semester	Study phase: 1st - 3rd semester	CP 7.5	Workload 225 h															
1	Module structure: <table><tr><td>No.</td><td>Element / course</td><td>Type</td><td>CP</td><td>Weekly contact hours</td></tr><tr><td>1</td><td>Elective course</td><td>L+S/L+T/ L+integrated E/S</td><td>7.5</td><td>4h</td></tr><tr><td></td><td>Module examination</td><td>ME</td><td></td><td></td></tr></table>					No.	Element / course	Type	CP	Weekly contact hours	1	Elective course	L+S/L+T/ L+integrated E/S	7.5	4h		Module examination	ME		
No.	Element / course	Type	CP	Weekly contact hours																
1	Elective course	L+S/L+T/ L+integrated E/S	7.5	4h																
	Module examination	ME																		
2	Language of instruction: English or German																			
3	Teaching content: The module explores a selection of relevant topics in applied econometrics. It provides an overview of practical econometric approaches used to analyze real-world economic issues. The content is designed to be flexible, reflecting current research trends and applications, and may include case studies, empirical projects, and hands-on data analysis exercises. Students engage with both the interpretation of empirical results and the critical evaluation of methods.																			
4	Competencies: Students develop the ability to apply econometric techniques to a variety of empirical economic questions. They learn to analyze and interpret data rigorously, adapt methods to different research contexts, and assess the strengths and limitations of empirical approaches. The module enhances students' problem-solving skills, analytical thinking, and capacity to conduct independent applied research in economics.																			
5	Examinations: The type and format of examination depend on the specific course selected within this module. Possible forms include written exams, oral exams, or seminar papers and presentations. The format of examination is announced at the beginning of each course. Students have three attempts for this elective module, regardless of the course. This means that, after an unsuccessful first attempt, students may switch to a different course approved for this module and complete their second attempt there.																			
6	Types of examinations and performances: Relating to individual courses.																			
7	Recommended knowledge: Specific recommended knowledge for the individual courses are based on the course descriptions of the respective selected courses.																			
8	Formal requirements: The entry requirements for the individual courses are based on the course descriptions of the respective selected courses.																			
9	Module type and applicability of the module: Compulsory elective modules in M.Sc. Econometrics																			
10	Module coordinator: Lecturers from the responsible departments			Responsible department: TU Dortmund University, Department of Business and Economics																
11	Literature:																			
12	Further Information:																			
Module ME EM23: Applied Econometrics@UDE I																				
Degree program: M.Sc. Econometrics																				

Interval: Each semester		Duration: 1 semester	Study phase: 1st - 3rd semester	CP 6	Workload 180 h															
1	Module structure: <table><tr><td>No.</td><td>Element / course</td><td>Type</td><td>CP</td><td>Weekly contact hours</td></tr><tr><td>1</td><td>Elective course</td><td>L+S/L+T/ L+integrated E/S</td><td>6</td><td>4h</td></tr><tr><td></td><td>Module examination</td><td>ME</td><td></td><td></td></tr></table>					No.	Element / course	Type	CP	Weekly contact hours	1	Elective course	L+S/L+T/ L+integrated E/S	6	4h		Module examination	ME		
No.	Element / course	Type	CP	Weekly contact hours																
1	Elective course	L+S/L+T/ L+integrated E/S	6	4h																
	Module examination	ME																		
2	Language of instruction: English or German																			
3	Teaching content: The module explores a selection of relevant topics in applied econometrics. It provides an overview of practical econometric approaches used to analyze real-world economic issues. The content is designed to be flexible, reflecting current research trends and applications, and may include case studies, empirical projects, and hands-on data analysis exercises. Students engage with both the interpretation of empirical results and the critical evaluation of methods.																			
4	Competencies: Students develop the ability to apply econometric techniques to a variety of empirical economic questions. They learn to analyze and interpret data rigorously, adapt methods to different research contexts, and assess the strengths and limitations of empirical approaches. The module enhances students' problem-solving skills, analytical thinking, and capacity to conduct independent applied research in economics.																			
5	Examinations: The type and format of examination depend on the specific course selected within this module. Possible forms include written exams, oral exams, or seminar papers and presentations. The format of examination is announced at the beginning of each course. Students have three attempts for this elective module, regardless of the course. This means that, after an unsuccessful first attempt, students may switch to a different course approved for this module and complete their second attempt there.																			
6	Types of examinations and performances: Relating to individual courses.																			
7	Recommended knowledge: Specific recommended knowledge for the individual courses are based on the course descriptions of the respective selected courses.																			
8	Formal requirements: The entry requirements for the individual courses are based on the course descriptions of the respective selected courses.																			
9	Module type and applicability of the module: Compulsory elective modules in M.Sc. Econometrics																			
10	Module coordinator: Lecturers from the responsible departments			Responsible department: University of Duisburg-Essen, Department of Business Administration and Economics																
11	Literature:																			
12	Further Information:																			
Module ME EM24: Applied Econometrics@UDE II																				
Degree program: M.Sc. Econometrics																				

Interval: Each semester		Duration: 1 semester	Study phase: 1st - 3rd semester	CP 6	Workload 180 h															
1	Module structure: <table><tr><td>No.</td><td>Element / course</td><td>Type</td><td>CP</td><td>Weekly contact hours</td></tr><tr><td>1</td><td>Elective course</td><td>L+S/L+T/ L+integrated E/S</td><td>6</td><td>4h</td></tr><tr><td></td><td>Module examination</td><td>ME</td><td></td><td></td></tr></table>					No.	Element / course	Type	CP	Weekly contact hours	1	Elective course	L+S/L+T/ L+integrated E/S	6	4h		Module examination	ME		
No.	Element / course	Type	CP	Weekly contact hours																
1	Elective course	L+S/L+T/ L+integrated E/S	6	4h																
	Module examination	ME																		
2	Language of instruction: English or German																			
3	Teaching content: The module explores a selection of relevant topics in applied econometrics. It provides an overview of practical econometric approaches used to analyze real-world economic issues. The content is designed to be flexible, reflecting current research trends and applications, and may include case studies, empirical projects, and hands-on data analysis exercises. Students engage with both the interpretation of empirical results and the critical evaluation of methods.																			
4	Competencies: Students develop the ability to apply econometric techniques to a variety of empirical economic questions. They learn to analyze and interpret data rigorously, adapt methods to different research contexts, and assess the strengths and limitations of empirical approaches. The module enhances students' problem-solving skills, analytical thinking, and capacity to conduct independent applied research in economics.																			
5	Examinations: The type and format of examination depend on the specific course selected within this module. Possible forms include written exams, oral exams, or seminar papers and presentations. The format of examination is announced at the beginning of each course. Students have three attempts for this elective module, regardless of the course. This means that, after an unsuccessful first attempt, students may switch to a different course approved for this module and complete their second attempt there.																			
6	Types of examinations and performances: Relating to individual courses.																			
7	Recommended knowledge: Specific recommended knowledge for the individual courses are based on the course descriptions of the respective selected courses.																			
8	Formal requirements: The entry requirements for the individual courses are based on the course descriptions of the respective selected courses.																			
9	Module type and applicability of the module: Compulsory elective modules in M.Sc. Econometrics																			
10	Module coordinator: Lecturers from the responsible departments			Responsible department: University of Duisburg-Essen, Department of Business Administration and Economics																
11	Literature:																			
12	Further Information:																			
Module ME EM25: Applied Econometrics@UDE III																				
Degree program: M.Sc. Econometrics																				

Interval: Each semester		Duration: 1 semester	Study phase: 1st - 3rd semester	CP 6	Workload 180 h															
1	Module structure: <table><tr><td>No.</td><td>Element / course</td><td>Type</td><td>CP</td><td>Weekly contact hours</td></tr><tr><td>1</td><td>Elective course</td><td>L+S/L+T/ L+integrated E/S</td><td>6</td><td>4h</td></tr><tr><td></td><td>Module examination</td><td>ME</td><td></td><td></td></tr></table>					No.	Element / course	Type	CP	Weekly contact hours	1	Elective course	L+S/L+T/ L+integrated E/S	6	4h		Module examination	ME		
No.	Element / course	Type	CP	Weekly contact hours																
1	Elective course	L+S/L+T/ L+integrated E/S	6	4h																
	Module examination	ME																		
2	Language of instruction: English or German																			
3	Teaching content: The module explores a selection of relevant topics in applied econometrics. It provides an overview of practical econometric approaches used to analyze real-world economic issues. The content is designed to be flexible, reflecting current research trends and applications, and may include case studies, empirical projects, and hands-on data analysis exercises. Students engage with both the interpretation of empirical results and the critical evaluation of methods.																			
4	Competencies: Students develop the ability to apply econometric techniques to a variety of empirical economic questions. They learn to analyze and interpret data rigorously, adapt methods to different research contexts, and assess the strengths and limitations of empirical approaches. The module enhances students' problem-solving skills, analytical thinking, and capacity to conduct independent applied research in economics.																			
5	Examinations: The type and format of examination depend on the specific course selected within this module. Possible forms include written exams, oral exams, or seminar papers and presentations. The format of examination is announced at the beginning of each course. Students have three attempts for this elective module, regardless of the course. This means that, after an unsuccessful first attempt, students may switch to a different course approved for this module and complete their second attempt there.																			
6	Types of examinations and performances: Relating to individual courses.																			
7	Recommended knowledge: Specific recommended knowledge for the individual courses are based on the course descriptions of the respective selected courses.																			
8	Formal requirements: The entry requirements for the individual courses are based on the course descriptions of the respective selected courses.																			
9	Module type and applicability of the module: Compulsory elective modules in M.Sc. Econometrics																			
10	Module coordinator: Lecturers from the responsible departments			Responsible department: University of Duisburg-Essen, Department of Business Administration and Economics																
11	Literature:																			
12	Further Information:																			
Module ME EM26: Applied Econometrics@UDE IV																				
Degree program: M.Sc. Econometrics																				

Interval: Each semester		Duration: 1 semester	Study phase: 1st - 3rd semester	CP 6	Workload 180 h															
1	Module structure: <table><tr><td>No.</td><td>Element / course</td><td>Type</td><td>CP</td><td>Weekly contact hours</td></tr><tr><td>1</td><td>Elective course</td><td>L+S/L+T/ L+integrated E/S</td><td>6</td><td>4h</td></tr><tr><td></td><td>Module examination</td><td>ME</td><td></td><td></td></tr></table>					No.	Element / course	Type	CP	Weekly contact hours	1	Elective course	L+S/L+T/ L+integrated E/S	6	4h		Module examination	ME		
No.	Element / course	Type	CP	Weekly contact hours																
1	Elective course	L+S/L+T/ L+integrated E/S	6	4h																
	Module examination	ME																		
2	Language of instruction: English or German																			
3	Teaching content: The module explores a selection of relevant topics in applied econometrics. It provides an overview of practical econometric approaches used to analyze real-world economic issues. The content is designed to be flexible, reflecting current research trends and applications, and may include case studies, empirical projects, and hands-on data analysis exercises. Students engage with both the interpretation of empirical results and the critical evaluation of methods.																			
4	Competencies: Students develop the ability to apply econometric techniques to a variety of empirical economic questions. They learn to analyze and interpret data rigorously, adapt methods to different research contexts, and assess the strengths and limitations of empirical approaches. The module enhances students' problem-solving skills, analytical thinking, and capacity to conduct independent applied research in economics.																			
5	Examinations: The type and format of examination depend on the specific course selected within this module. Possible forms include written exams, oral exams, or seminar papers and presentations. The format of examination is announced at the beginning of each course. Students have three attempts for this elective module, regardless of the course. This means that, after an unsuccessful first attempt, students may switch to a different course approved for this module and complete their second attempt there.																			
6	Types of examinations and performances: Relating to individual courses.																			
7	Recommended knowledge: Specific recommended knowledge for the individual courses are based on the course descriptions of the respective selected courses.																			
8	Formal requirements: The entry requirements for the individual courses are based on the course descriptions of the respective selected courses.																			
9	Module type and applicability of the module: Compulsory elective modules in M.Sc. Econometrics																			
10	Module coordinator: Lecturers from the responsible departments			Responsible department: University of Duisburg-Essen, Department of Business Administration and Economics																
11	Literature:																			
12	Further Information:																			
Module ME EM27: Applied Econometrics@RUB I																				
Degree program: M.Sc. Econometrics																				

Interval: Each semester		Duration: 1 semester	Study phase: 1st - 3rd semester	CP 5	Workload 150 h															
1	Module structure: <table><tr><td>No.</td><td>Element / course</td><td>Type</td><td>CP</td><td>Weekly contact hours</td></tr><tr><td>1</td><td>Elective course</td><td>L+S/L+T/ L+integrated E/S</td><td>5</td><td>2h</td></tr><tr><td></td><td>Module examination</td><td>ME</td><td></td><td></td></tr></table>					No.	Element / course	Type	CP	Weekly contact hours	1	Elective course	L+S/L+T/ L+integrated E/S	5	2h		Module examination	ME		
No.	Element / course	Type	CP	Weekly contact hours																
1	Elective course	L+S/L+T/ L+integrated E/S	5	2h																
	Module examination	ME																		
2	Language of instruction: English or German																			
3	Teaching content: The module explores a selection of relevant topics in applied econometrics. It provides an overview of practical econometric approaches used to analyze real-world economic issues. The content is designed to be flexible, reflecting current research trends and applications, and may include case studies, empirical projects, and hands-on data analysis exercises. Students engage with both the interpretation of empirical results and the critical evaluation of methods.																			
4	Competencies: Students develop the ability to apply econometric techniques to a variety of empirical economic questions. They learn to analyze and interpret data rigorously, adapt methods to different research contexts, and assess the strengths and limitations of empirical approaches. The module enhances students' problem-solving skills, analytical thinking, and capacity to conduct independent applied research in economics.																			
5	Examinations: The type and format of examination depend on the specific course selected within this module. Possible forms include written exams, oral exams, or seminar papers and presentations. The format of examination is announced at the beginning of each course. Students have three attempts for this elective module, regardless of the course. This means that, after an unsuccessful first attempt, students may switch to a different course approved for this module and complete their second attempt there.																			
6	Types of examinations and performances: Relating to individual courses.																			
7	Recommended knowledge: Specific recommended knowledge for the individual courses are based on the course descriptions of the respective selected courses.																			
8	Formal requirements: The entry requirements for the individual courses are based on the course descriptions of the respective selected courses.																			
9	Module type and applicability of the module: Compulsory elective modules in M.Sc. Econometrics																			
10	Module coordinator: Lecturers from the responsible departments			Responsible department: Ruhr-University Bochum, Department of Management and Economics																
11	Literature:																			
12	Further Information:																			
Module ME EM28: Applied Econometrics@RUB II																				
Degree program: M.Sc. Econometrics																				

Interval: Each semester		Duration: 1 semester	Study phase: 1st - 3rd semester	CP 5	Workload 150 h															
1	Module structure: <table><tr><td>No.</td><td>Element / course</td><td>Type</td><td>CP</td><td>Weekly contact hours</td></tr><tr><td>1</td><td>Elective course</td><td>L+S/L+T/ L+integrated E/S</td><td>5</td><td>2h</td></tr><tr><td></td><td>Module examination</td><td>ME</td><td></td><td></td></tr></table>					No.	Element / course	Type	CP	Weekly contact hours	1	Elective course	L+S/L+T/ L+integrated E/S	5	2h		Module examination	ME		
No.	Element / course	Type	CP	Weekly contact hours																
1	Elective course	L+S/L+T/ L+integrated E/S	5	2h																
	Module examination	ME																		
2	Language of instruction: English or German																			
3	Teaching content: The module explores a selection of relevant topics in applied econometrics. It provides an overview of practical econometric approaches used to analyze real-world economic issues. The content is designed to be flexible, reflecting current research trends and applications, and may include case studies, empirical projects, and hands-on data analysis exercises. Students engage with both the interpretation of empirical results and the critical evaluation of methods.																			
4	Competencies: Students develop the ability to apply econometric techniques to a variety of empirical economic questions. They learn to analyze and interpret data rigorously, adapt methods to different research contexts, and assess the strengths and limitations of empirical approaches. The module enhances students' problem-solving skills, analytical thinking, and capacity to conduct independent applied research in economics.																			
5	Examinations: The type and format of examination depend on the specific course selected within this module. Possible forms include written exams, oral exams, or seminar papers and presentations. The format of examination is announced at the beginning of each course. Students have three attempts for this elective module, regardless of the course. This means that, after an unsuccessful first attempt, students may switch to a different course approved for this module and complete their second attempt there.																			
6	Types of examinations and performances: Relating to individual courses.																			
7	Recommended knowledge: Specific recommended knowledge for the individual courses are based on the course descriptions of the respective selected courses.																			
8	Formal requirements: The entry requirements for the individual courses are based on the course descriptions of the respective selected courses.																			
9	Module type and applicability of the module: Compulsory elective modules in M.Sc. Econometrics																			
10	Module coordinator: Lecturers from the responsible departments			Responsible department: Ruhr-University Bochum, Department of Management and Economics																
11	Literature:																			
12	Further Information:																			
Module ME EM29: Applied Econometrics@RUB III																				
Degree program: M.Sc. Econometrics																				

Interval: Each semester		Duration: 1 semester	Study phase: 1st - 3rd semester	CP 5	Workload 150 h															
1	Module structure: <table><tr><td>No.</td><td>Element / course</td><td>Type</td><td>CP</td><td>Weekly contact hours</td></tr><tr><td>1</td><td>Elective course</td><td>L+S/L+T/ L+integrated E/S</td><td>5</td><td>2h</td></tr><tr><td></td><td>Module examination</td><td>ME</td><td></td><td></td></tr></table>					No.	Element / course	Type	CP	Weekly contact hours	1	Elective course	L+S/L+T/ L+integrated E/S	5	2h		Module examination	ME		
No.	Element / course	Type	CP	Weekly contact hours																
1	Elective course	L+S/L+T/ L+integrated E/S	5	2h																
	Module examination	ME																		
2	Language of instruction: English or German																			
3	Teaching content: The module explores a selection of relevant topics in applied econometrics. It provides an overview of practical econometric approaches used to analyze real-world economic issues. The content is designed to be flexible, reflecting current research trends and applications, and may include case studies, empirical projects, and hands-on data analysis exercises. Students engage with both the interpretation of empirical results and the critical evaluation of methods.																			
4	Competencies: Students develop the ability to apply econometric techniques to a variety of empirical economic questions. They learn to analyze and interpret data rigorously, adapt methods to different research contexts, and assess the strengths and limitations of empirical approaches. The module enhances students' problem-solving skills, analytical thinking, and capacity to conduct independent applied research in economics.																			
5	Examinations: The type and format of examination depend on the specific course selected within this module. Possible forms include written exams, oral exams, or seminar papers and presentations. The format of examination is announced at the beginning of each course. Students have three attempts for this elective module, regardless of the course. This means that, after an unsuccessful first attempt, students may switch to a different course approved for this module and complete their second attempt there.																			
6	Types of examinations and performances: Relating to individual courses.																			
7	Recommended knowledge: Specific recommended knowledge for the individual courses are based on the course descriptions of the respective selected courses.																			
8	Formal requirements: The entry requirements for the individual courses are based on the course descriptions of the respective selected courses.																			
9	Module type and applicability of the module: Compulsory elective modules in M.Sc. Econometrics																			
10	Module coordinator: Lecturers from the responsible departments			Responsible department: Ruhr-University Bochum, Department of Management and Economics																
11	Literature:																			
12	Further Information:																			
Module ME EM30: Applied Econometrics@RUB IV																				
Degree program: M.Sc. Econometrics																				

Interval: Each semester		Duration: 1 semester	Study phase: 1st - 3rd semester	CP 5	Workload 150 h															
1	Module structure: <table><tr><td>No.</td><td>Element / course</td><td>Type</td><td>CP</td><td>Weekly contact hours</td></tr><tr><td>1</td><td>Elective course</td><td>L+S/L+T/ L+integrated E/S</td><td>5</td><td>2h</td></tr><tr><td></td><td>Module examination</td><td>ME</td><td></td><td></td></tr></table>					No.	Element / course	Type	CP	Weekly contact hours	1	Elective course	L+S/L+T/ L+integrated E/S	5	2h		Module examination	ME		
No.	Element / course	Type	CP	Weekly contact hours																
1	Elective course	L+S/L+T/ L+integrated E/S	5	2h																
	Module examination	ME																		
2	Language of instruction: English or German																			
3	Teaching content: The module explores a selection of relevant topics in applied econometrics. It provides an overview of practical econometric approaches used to analyze real-world economic issues. The content is designed to be flexible, reflecting current research trends and applications, and may include case studies, empirical projects, and hands-on data analysis exercises. Students engage with both the interpretation of empirical results and the critical evaluation of methods.																			
4	Competencies: Students develop the ability to apply econometric techniques to a variety of empirical economic questions. They learn to analyze and interpret data rigorously, adapt methods to different research contexts, and assess the strengths and limitations of empirical approaches. The module enhances students' problem-solving skills, analytical thinking, and capacity to conduct independent applied research in economics.																			
5	Examinations: The type and format of examination depend on the specific course selected within this module. Possible forms include written exams, oral exams, or seminar papers and presentations. The format of examination is announced at the beginning of each course. Students have three attempts for this elective module, regardless of the course. This means that, after an unsuccessful first attempt, students may switch to a different course approved for this module and complete their second attempt there.																			
6	Types of examinations and performances: Relating to individual courses.																			
7	Recommended knowledge: Specific recommended knowledge for the individual courses are based on the course descriptions of the respective selected courses.																			
8	Formal requirements: The entry requirements for the individual courses are based on the course descriptions of the respective selected courses.																			
9	Module type and applicability of the module: Compulsory elective modules in M.Sc. Econometrics																			
10	Module coordinator: Lecturers from the responsible departments			Responsible department: Ruhr-University Bochum, Department of Management and Economics																
11	Literature:																			
12	Further Information:																			
Module ME EM31: Applied Econometrics@RUB V																				
Degree program: M.Sc. Econometrics																				

Interval: Each semester		Duration: 1 semester	Study phase: 1st - 3rd semester	CP 10	Workload 300 h															
1	Module structure: <table><tr><td>No.</td><td>Element / course</td><td>Type</td><td>CP</td><td>Weekly contact hours</td></tr><tr><td>1</td><td>Elective course</td><td>L+S/L+T/ L+integrated E/S</td><td>10</td><td>4h</td></tr><tr><td></td><td>Module examination</td><td>ME</td><td></td><td></td></tr></table>					No.	Element / course	Type	CP	Weekly contact hours	1	Elective course	L+S/L+T/ L+integrated E/S	10	4h		Module examination	ME		
No.	Element / course	Type	CP	Weekly contact hours																
1	Elective course	L+S/L+T/ L+integrated E/S	10	4h																
	Module examination	ME																		
2	Language of instruction: English or German																			
3	Teaching content: The module explores a selection of relevant topics in applied econometrics. It provides an overview of practical econometric approaches used to analyze real-world economic issues. The content is designed to be flexible, reflecting current research trends and applications, and may include case studies, empirical projects, and hands-on data analysis exercises. Students engage with both the interpretation of empirical results and the critical evaluation of methods.																			
4	Competencies: Students develop the ability to apply econometric techniques to a variety of empirical economic questions. They learn to analyze and interpret data rigorously, adapt methods to different research contexts, and assess the strengths and limitations of empirical approaches. The module enhances students' problem-solving skills, analytical thinking, and capacity to conduct independent applied research in economics.																			
5	Examinations: The type and format of examination depend on the specific course selected within this module. Possible forms include written exams, oral exams, or seminar papers and presentations. The format of examination is announced at the beginning of each course. Students have three attempts for this elective module, regardless of the course. This means that, after an unsuccessful first attempt, students may switch to a different course approved for this module and complete their second attempt there.																			
6	Types of examinations and performances: Relating to individual courses.																			
7	Recommended knowledge: Specific recommended knowledge for the individual courses are based on the course descriptions of the respective selected courses.																			
8	Formal requirements: The entry requirements for the individual courses are based on the course descriptions of the respective selected courses.																			
9	Module type and applicability of the module: Compulsory elective modules in M.Sc. Econometrics																			
10	Module coordinator: Lecturers from the responsible departments			Responsible department: Ruhr-University Bochum, Department of Management and Economics																
11	Literature:																			
12	Further Information:																			

Module ME EM32: Applied Econometrics@RUB VI

Degree program: M.Sc. Econometrics							
Interval: Each semester		Duration: 1 semester		Study phase: 1st - 3rd semester		CP 10	Workload 300 h
1	Module structure:						
	No.	Element / course		Type	CP	Weekly contact hours	
	1	Elective course		L+S/L+T/ L+integrated E/S	10	4h	
		Module examination		ME			
2	Language of instruction: English or German						
3	Teaching content: The module explores a selection of relevant topics in applied econometrics. It provides an overview of practical econometric approaches used to analyze real-world economic issues. The content is designed to be flexible, reflecting current research trends and applications, and may include case studies, empirical projects, and hands-on data analysis exercises. Students engage with both the interpretation of empirical results and the critical evaluation of methods.						
4	Competencies: Students develop the ability to apply econometric techniques to a variety of empirical economic questions. They learn to analyze and interpret data rigorously, adapt methods to different research contexts, and assess the strengths and limitations of empirical approaches. The module enhances students' problem-solving skills, analytical thinking, and capacity to conduct independent applied research in economics.						
5	Examinations: The type and format of examination depend on the specific course selected within this module. Possible forms include written exams, oral exams, or seminar papers and presentations. The format of examination is announced at the beginning of each course. Students have three attempts for this elective module, regardless of the course. This means that, after an unsuccessful first attempt, students may switch to a different course approved for this module and complete their second attempt there.						
6	Types of examinations and performances: Relating to individual courses.						
7	Recommended knowledge: Specific recommended knowledge for the individual courses are based on the course descriptions of the respective selected courses.						
8	Formal requirements: The entry requirements for the individual courses are based on the course descriptions of the respective selected courses.						
9	Module type and applicability of the module: Compulsory elective modules in M.Sc. Econometrics						
10	Module coordinator: Lecturers from the responsible departments				Responsible department: Ruhr-University Bochum, Department of Management and Economics		
11	Literature:						
12	Further Information:						

Module ME EM33: Applied Programming																							
Degree program: M.Sc. Econometrics																							
Interval: Each semester		Duration: 1 semester		Study phase: 1st - 3rd semester																			
				CP 3	Workload 90 h																		
1	Module structure: <table><tr><td>No.</td><td>Element / course</td><td>Type</td><td>CP</td><td colspan="2">Weekly contact hours</td></tr><tr><td>1</td><td>Elective course</td><td>L+S/L+T/ L+integrated E/S</td><td>3</td><td colspan="2">2h</td></tr><tr><td colspan="2">Module examination</td><td>ME</td><td colspan="3"></td></tr></table>					No.	Element / course	Type	CP	Weekly contact hours		1	Elective course	L+S/L+T/ L+integrated E/S	3	2h		Module examination		ME			
No.	Element / course	Type	CP	Weekly contact hours																			
1	Elective course	L+S/L+T/ L+integrated E/S	3	2h																			
Module examination		ME																					
2	Language of instruction: English or German																						
3	Teaching content: This module provides students with foundational and practical programming skills relevant for data analysis, economic applications, and empirical research. It introduces core programming concepts such as variables, data types, control structures, functions, and error handling. A particular focus is placed on working with data: reading, cleaning, transforming, and visualizing datasets using modern programming tools. Students gain hands-on experience with widely used programming languages (e.g. Python or R) and learn to implement scripts for automating workflows, analyzing data, and producing reproducible results.																						
4	Competencies: After completing this module, students are able to write and understand code in at least one high-level programming language used in data analysis (e.g. Python or R). They can import, process, and visualize data, structure their code effectively, and develop basic scripts for empirical or analytical tasks. Students are equipped to use programming as a tool for solving applied problems in economics and social sciences. Additionally, they gain a foundational understanding of reproducibility, code documentation, and debugging, which prepares them for more advanced data or research projects.																						
5	Examinations: The type and format of examination depend on the specific course selected within this module. Possible forms include written exams, oral exams, or seminar papers and presentations. The format of examination is announced at the beginning of each course. Students have three attempts for this elective module, regardless of the course. This means that, after an unsuccessful first attempt, students may switch to a different course approved for this module and complete their second attempt there.																						
6	Types of examinations and performances: Relating to individual courses.																						
7	Recommended knowledge: Specific recommended knowledge for the individual courses are based on the course descriptions of the respective selected courses.																						
8	Formal requirements: The entry requirements for the individual courses are based on the course descriptions of the respective selected courses.																						
9	Module type and applicability of the module: Compulsory elective modules in M.Sc. Econometrics																						
10	Module coordinator: Lecturers from the responsible departments			Responsible department: TU Dortmund University, Department of Statistics																			
11	Literature:																						
12	Further Information:																						

Econometric Methods

The elective modules **EM34–EM46** are part of the **Econometric Methods Elective Area**. Students must complete **at least 11 ECTS credits** in this area. Descriptions of the individual modules are provided below.

PROVISIONAL VERSION!

Module ME EM34: Econometric Methods@TUDo I					
Degree program: M.Sc. Econometrics					
Interval: Each semester		Duration: 1 semester		Study phase: 1st - 3rd semester	
				CP 4.5	Workload 135 h
1	Module structure:				
	No.	Element / course	Type	CP	Weekly contact hours
	1	Elective course	L+S/L+T/ L+integrated E/S	4.5	3h
	Module examination		ME		
2	Language of instruction: English or German				
3	Teaching content: The module concentrates on advanced econometric methodology. It addresses specialized topics such as panel data models, nonparametric and semiparametric estimation, high-dimensional econometrics, simulation-based methods, structural models, and recent methodological developments. The focus is on the theoretical underpinnings of these approaches and their implementation in empirical research.				
4	Competencies: After completing the module, students are able to understand, apply, and further develop advanced econometric methods. They gain the capacity to critically assess methodological choices, to implement modern estimation techniques, and to link theoretical advances in econometrics to practical applications. The module strengthens their ability to conduct independent methodological research and to use sophisticated econometric tools for complex empirical problems.				
5	Examinations: The type and format of examination depend on the specific course selected within this module. Possible forms include written exams, oral exams, or seminar papers and presentations. The format of examination is announced at the beginning of each course. Students have three attempts for this elective module, regardless of the course. This means that, after an unsuccessful first attempt, students may switch to a different course approved for this module and complete their second attempt there.				
6	Types of examinations and performances: Relating to individual courses.				
7	Recommended knowledge: Specific recommended knowledge for the individual courses are based on the course descriptions of the respective selected courses.				
8	Formal requirements: The entry requirements for the individual courses are based on the course descriptions of the respective selected courses.				
9	Module type and applicability of the module: Compulsory elective modules in M.Sc. Econometrics				
10	Module coordinator: Lecturers from the responsible departments			Responsible department: TU Dortmund University, Department of Statistics	
11	Literature:				
12	Further Information:				

Module ME EM35: Econometric Methods@TUDo II																							
Degree program: M.Sc. Econometrics																							
Interval: Each semester		Duration: 1 semester	Study phase: 1st - 3rd semester	CP 4.5	Workload 135 h																		
1	Module structure: <table><tr><td>No.</td><td>Element / course</td><td>Type</td><td>CP</td><td colspan="2">Weekly contact hours</td></tr><tr><td>1</td><td>Elective course</td><td>L+S/L+T/ L+integrated E/S</td><td>4.5</td><td colspan="2">3h</td></tr><tr><td colspan="2">Module examination</td><td>ME</td><td colspan="3"></td></tr></table>					No.	Element / course	Type	CP	Weekly contact hours		1	Elective course	L+S/L+T/ L+integrated E/S	4.5	3h		Module examination		ME			
No.	Element / course	Type	CP	Weekly contact hours																			
1	Elective course	L+S/L+T/ L+integrated E/S	4.5	3h																			
Module examination		ME																					
2	Language of instruction: English or German																						
3	Teaching content: The module concentrates on advanced econometric methodology. It addresses specialized topics such as panel data models, nonparametric and semiparametric estimation, high-dimensional econometrics, simulation-based methods, structural models, and recent methodological developments. The focus is on the theoretical underpinnings of these approaches and their implementation in empirical research.																						
4	Competencies: After completing the module, students are able to understand, apply, and further develop advanced econometric methods. They gain the capacity to critically assess methodological choices, to implement modern estimation techniques, and to link theoretical advances in econometrics to practical applications. The module strengthens their ability to conduct independent methodological research and to use sophisticated econometric tools for complex empirical problems.																						
5	Examinations: The type and format of examination depend on the specific course selected within this module. Possible forms include written exams, oral exams, or seminar papers and presentations. The format of examination is announced at the beginning of each course. Students have three attempts for this elective module, regardless of the course. This means that, after an unsuccessful first attempt, students may switch to a different course approved for this module and complete their second attempt there.																						
6	Types of examinations and performances: Relating to individual courses.																						
7	Recommended knowledge: Specific recommended knowledge for the individual courses are based on the course descriptions of the respective selected courses.																						
8	Formal requirements: The entry requirements for the individual courses are based on the course descriptions of the respective selected courses.																						
9	Module type and applicability of the module: Compulsory elective modules in M.Sc. Econometrics																						
10	Module coordinator: Lecturers from the responsible departments		Responsible department: TU Dortmund University, Department of Statistics																				
11	Literature:																						
12	Further Information:																						

Module ME EM36: Econometric Methods@TUDo III																							
Degree program: M.Sc. Econometrics																							
Interval: Each semester		Duration: 1 semester	Study phase: 1st - 3rd semester	CP 4.5	Workload 135 h																		
1	Module structure: <table><tr><td>No.</td><td>Element / course</td><td>Type</td><td>CP</td><td colspan="2">Weekly contact hours</td></tr><tr><td>1</td><td>Elective course</td><td>L+S/L+T/ L+integrated E/S</td><td>4.5</td><td colspan="2">3h</td></tr><tr><td colspan="2">Module examination</td><td colspan="4">ME</td></tr></table>					No.	Element / course	Type	CP	Weekly contact hours		1	Elective course	L+S/L+T/ L+integrated E/S	4.5	3h		Module examination		ME			
No.	Element / course	Type	CP	Weekly contact hours																			
1	Elective course	L+S/L+T/ L+integrated E/S	4.5	3h																			
Module examination		ME																					
2	Language of instruction: English or German																						
3	Teaching content: The module concentrates on advanced econometric methodology. It addresses specialized topics such as panel data models, nonparametric and semiparametric estimation, high-dimensional econometrics, simulation-based methods, structural models, and recent methodological developments. The focus is on the theoretical underpinnings of these approaches and their implementation in empirical research.																						
4	Competencies: After completing the module, students are able to understand, apply, and further develop advanced econometric methods. They gain the capacity to critically assess methodological choices, to implement modern estimation techniques, and to link theoretical advances in econometrics to practical applications. The module strengthens their ability to conduct independent methodological research and to use sophisticated econometric tools for complex empirical problems.																						
5	Examinations: The type and format of examination depend on the specific course selected within this module. Possible forms include written exams, oral exams, or seminar papers and presentations. The format of examination is announced at the beginning of each course. Students have three attempts for this elective module, regardless of the course. This means that, after an unsuccessful first attempt, students may switch to a different course approved for this module and complete their second attempt there.																						
6	Types of examinations and performances: Relating to individual courses.																						
7	Recommended knowledge: Specific recommended knowledge for the individual courses are based on the course descriptions of the respective selected courses.																						
8	Formal requirements: The entry requirements for the individual courses are based on the course descriptions of the respective selected courses.																						
9	Module type and applicability of the module: Compulsory elective modules in M.Sc. Econometrics																						
10	Module coordinator: Lecturers from the responsible departments		Responsible department: TU Dortmund University, Department of Statistics																				
11	Literature:																						
12	Further Information:																						

Module ME EM37: Econometric Methods@TUDo IV																							
Degree program: M.Sc. Econometrics																							
Interval: Each semester		Duration: 1 semester	Study phase: 1st - 3rd semester	CP 4.5	Workload 135 h																		
1	Module structure: <table><tr><td>No.</td><td>Element / course</td><td>Type</td><td>CP</td><td colspan="2">Weekly contact hours</td></tr><tr><td>1</td><td>Elective course</td><td>L+S/L+T/ L+integrated E/S</td><td>4.5</td><td colspan="2">3h</td></tr><tr><td colspan="2">Module examination</td><td>ME</td><td colspan="3"></td></tr></table>					No.	Element / course	Type	CP	Weekly contact hours		1	Elective course	L+S/L+T/ L+integrated E/S	4.5	3h		Module examination		ME			
No.	Element / course	Type	CP	Weekly contact hours																			
1	Elective course	L+S/L+T/ L+integrated E/S	4.5	3h																			
Module examination		ME																					
2	Language of instruction: English or German																						
3	Teaching content: The module concentrates on advanced econometric methodology. It addresses specialized topics such as panel data models, nonparametric and semiparametric estimation, high-dimensional econometrics, simulation-based methods, structural models, and recent methodological developments. The focus is on the theoretical underpinnings of these approaches and their implementation in empirical research.																						
4	Competencies: After completing the module, students are able to understand, apply, and further develop advanced econometric methods. They gain the capacity to critically assess methodological choices, to implement modern estimation techniques, and to link theoretical advances in econometrics to practical applications. The module strengthens their ability to conduct independent methodological research and to use sophisticated econometric tools for complex empirical problems.																						
5	Examinations: The type and format of examination depend on the specific course selected within this module. Possible forms include written exams, oral exams, or seminar papers and presentations. The format of examination is announced at the beginning of each course. Students have three attempts for this elective module, regardless of the course. This means that, after an unsuccessful first attempt, students may switch to a different course approved for this module and complete their second attempt there.																						
6	Types of examinations and performances: Relating to individual courses.																						
7	Recommended knowledge: Specific recommended knowledge for the individual courses are based on the course descriptions of the respective selected courses.																						
8	Formal requirements: The entry requirements for the individual courses are based on the course descriptions of the respective selected courses.																						
9	Module type and applicability of the module: Compulsory elective modules in M.Sc. Econometrics																						
10	Module coordinator: Lecturers from the responsible departments			Responsible department: TU Dortmund University, Department of Statistics																			
11	Literature:																						
12	Further Information:																						

Module ME EM38: Econometric Methods@TUDo V																				
Degree program: M.Sc. Econometrics																				
Interval: Each semester		Duration: 1 semester		Study phase: 1st - 3rd semester																
				CP 9	Workload 270 h															
1	Module structure: <table><tr><td>No.</td><td>Element / course</td><td>Type</td><td>CP</td><td>Weekly contact hours</td></tr><tr><td>1</td><td>Elective course</td><td>L+S/L+T/ L+integrated E/S</td><td>9</td><td>6h</td></tr><tr><td></td><td>Module examination</td><td>ME</td><td></td><td></td></tr></table>					No.	Element / course	Type	CP	Weekly contact hours	1	Elective course	L+S/L+T/ L+integrated E/S	9	6h		Module examination	ME		
No.	Element / course	Type	CP	Weekly contact hours																
1	Elective course	L+S/L+T/ L+integrated E/S	9	6h																
	Module examination	ME																		
2	Language of instruction: English or German																			
3	Teaching content: The module concentrates on advanced econometric methodology. It addresses specialized topics such as panel data models, nonparametric and semiparametric estimation, high-dimensional econometrics, simulation-based methods, structural models, and recent methodological developments. The focus is on the theoretical underpinnings of these approaches and their implementation in empirical research.																			
4	Competencies: After completing the module, students are able to understand, apply, and further develop advanced econometric methods. They gain the capacity to critically assess methodological choices, to implement modern estimation techniques, and to link theoretical advances in econometrics to practical applications. The module strengthens their ability to conduct independent methodological research and to use sophisticated econometric tools for complex empirical problems.																			
5	Examinations: The type and format of examination depend on the specific course selected within this module. Possible forms include written exams, oral exams, or seminar papers and presentations. The format of examination is announced at the beginning of each course. Students have three attempts for this elective module, regardless of the course. This means that, after an unsuccessful first attempt, students may switch to a different course approved for this module and complete their second attempt there.																			
6	Types of examinations and performances: Relating to individual courses.																			
7	Recommended knowledge: Specific recommended knowledge for the individual courses are based on the course descriptions of the respective selected courses.																			
8	Formal requirements: The entry requirements for the individual courses are based on the course descriptions of the respective selected courses.																			
9	Module type and applicability of the module: Compulsory elective modules in M.Sc. Econometrics																			
10	Module coordinator: Lecturers from the responsible departments			Responsible department: TU Dortmund University, Department of Statistics																
11	Literature:																			
12	Further Information:																			

Module ME EM39: Econometric Methods@TUDo VI																				
Degree program: M.Sc. Econometrics																				
Interval: Each semester		Duration: 1 semester	Study phase: 1st - 3rd semester	CP 9	Workload 270 h															
1	Module structure: <table><tr><td>No.</td><td>Element / course</td><td>Type</td><td>CP</td><td>Weekly contact hours</td></tr><tr><td>1</td><td>Elective course</td><td>L+S/L+T/ L+integrated E/S</td><td>9</td><td>6h</td></tr><tr><td></td><td>Module examination</td><td>ME</td><td></td><td></td></tr></table>					No.	Element / course	Type	CP	Weekly contact hours	1	Elective course	L+S/L+T/ L+integrated E/S	9	6h		Module examination	ME		
No.	Element / course	Type	CP	Weekly contact hours																
1	Elective course	L+S/L+T/ L+integrated E/S	9	6h																
	Module examination	ME																		
2	Language of instruction: English or German																			
3	Teaching content: The module concentrates on advanced econometric methodology. It addresses specialized topics such as panel data models, nonparametric and semiparametric estimation, high-dimensional econometrics, simulation-based methods, structural models, and recent methodological developments. The focus is on the theoretical underpinnings of these approaches and their implementation in empirical research.																			
4	Competencies: After completing the module, students are able to understand, apply, and further develop advanced econometric methods. They gain the capacity to critically assess methodological choices, to implement modern estimation techniques, and to link theoretical advances in econometrics to practical applications. The module strengthens their ability to conduct independent methodological research and to use sophisticated econometric tools for complex empirical problems.																			
5	Examinations: The type and format of examination depend on the specific course selected within this module. Possible forms include written exams, oral exams, or seminar papers and presentations. The format of examination is announced at the beginning of each course. Students have three attempts for this elective module, regardless of the course. This means that, after an unsuccessful first attempt, students may switch to a different course approved for this module and complete their second attempt there.																			
6	Types of examinations and performances: Relating to individual courses.																			
7	Recommended knowledge: Specific recommended knowledge for the individual courses are based on the course descriptions of the respective selected courses.																			
8	Formal requirements: The entry requirements for the individual courses are based on the course descriptions of the respective selected courses.																			
9	Module type and applicability of the module: Compulsory elective modules in M.Sc. Econometrics																			
10	Module coordinator: Lecturers from the responsible departments			Responsible department: TU Dortmund University, Department of Statistics																
11	Literature:																			
12	Further Information:																			

Module ME EM40: Econometric Methods@UDE I					
Degree program: M.Sc. Econometrics					
Interval: Each semester		Duration: 1 semester		Study phase: 1st - 3rd semester	
				CP 6	
				Workload 180 h	
1 Module structure:					
No. Element / course Type CP Weekly contact hours					
1 Elective course L+S/L+T/ L+integrated E/S 6 4h					
Module examination ME					
2 Language of instruction: English or German					
3 Teaching content: The module concentrates on advanced econometric methodology. It addresses specialized topics such as panel data models, nonparametric and semiparametric estimation, high-dimensional econometrics, simulation-based methods, structural models, and recent methodological developments. The focus is on the theoretical underpinnings of these approaches and their implementation in empirical research.					
4 Competencies: After completing the module, students are able to understand, apply, and further develop advanced econometric methods. They gain the capacity to critically assess methodological choices, to implement modern estimation techniques, and to link theoretical advances in econometrics to practical applications. The module strengthens their ability to conduct independent methodological research and to use sophisticated econometric tools for complex empirical problems.					
5 Examinations: The type and format of examination depend on the specific course selected within this module. Possible forms include written exams, oral exams, or seminar papers and presentations. The format of examination is announced at the beginning of each course. Students have three attempts for this elective module, regardless of the course. This means that, after an unsuccessful first attempt, students may switch to a different course approved for this module and complete their second attempt there.					
6 Types of examinations and performances: Relating to individual courses.					
7 Recommended knowledge: Specific recommended knowledge for the individual courses are based on the course descriptions of the respective selected courses.					
8 Formal requirements: The entry requirements for the individual courses are based on the course descriptions of the respective selected courses.					
9 Module type and applicability of the module: Compulsory elective modules in M.Sc. Econometrics					
10 Module coordinator: Lecturers from the responsible departments			Responsible department: University of Duisburg-Essen, Department of Business Administration and Economics		
11 Literature:					
12 Further Information:					
Module ME EM41: Econometric Methods@UDE II					

Degree program: M.Sc. Econometrics																							
Interval: Each semester		Duration: 1 semester	Study phase: 1st - 3rd semester		CP 6	Workload 180 h																	
1	Module structure: <table><tr><td>No.</td><td>Element / course</td><td>Type</td><td>CP</td><td colspan="2">Weekly contact hours</td></tr><tr><td>1</td><td>Elective course</td><td>L+S/L+T/ L+integrated E/S</td><td>6</td><td colspan="2">4h</td></tr><tr><td colspan="2">Module examination</td><td>ME</td><td colspan="3"></td></tr></table>					No.	Element / course	Type	CP	Weekly contact hours		1	Elective course	L+S/L+T/ L+integrated E/S	6	4h		Module examination		ME			
No.	Element / course	Type	CP	Weekly contact hours																			
1	Elective course	L+S/L+T/ L+integrated E/S	6	4h																			
Module examination		ME																					
2	Language of instruction: English or German																						
3	Teaching content: The module concentrates on advanced econometric methodology. It addresses specialized topics such as panel data models, nonparametric and semiparametric estimation, high-dimensional econometrics, simulation-based methods, structural models, and recent methodological developments. The focus is on the theoretical underpinnings of these approaches and their implementation in empirical research.																						
4	Competencies: After completing the module, students are able to understand, apply, and further develop advanced econometric methods. They gain the capacity to critically assess methodological choices, to implement modern estimation techniques, and to link theoretical advances in econometrics to practical applications. The module strengthens their ability to conduct independent methodological research and to use sophisticated econometric tools for complex empirical problems.																						
5	Examinations: The type and format of examination depend on the specific course selected within this module. Possible forms include written exams, oral exams, or seminar papers and presentations. The format of examination is announced at the beginning of each course. Students have three attempts for this elective module, regardless of the course. This means that, after an unsuccessful first attempt, students may switch to a different course approved for this module and complete their second attempt there.																						
6	Types of examinations and performances: Relating to individual courses.																						
7	Recommended knowledge: Specific recommended knowledge for the individual courses are based on the course descriptions of the respective selected courses.																						
8	Formal requirements: The entry requirements for the individual courses are based on the course descriptions of the respective selected courses.																						
9	Module type and applicability of the module: Compulsory elective modules in M.Sc. Econometrics																						
10	Module coordinator: Lecturers from the responsible departments		Responsible department: University of Duisburg-Essen, Department of Business Administration and Economics																				
11	Literature:																						
12	Further Information:																						
Module ME EM42: Econometric Methods@UDE III																							

Degree program: M.Sc. Econometrics																							
Interval: Each semester		Duration: 1 semester	Study phase: 1st - 3rd semester		CP 6	Workload 180 h																	
1	Module structure: <table><tr><td>No.</td><td>Element / course</td><td>Type</td><td>CP</td><td colspan="2">Weekly contact hours</td></tr><tr><td>1</td><td>Elective course</td><td>L+S/L+T/ L+integrated E/S</td><td>6</td><td colspan="2">4h</td></tr><tr><td colspan="2">Module examination</td><td>ME</td><td colspan="3"></td></tr></table>					No.	Element / course	Type	CP	Weekly contact hours		1	Elective course	L+S/L+T/ L+integrated E/S	6	4h		Module examination		ME			
No.	Element / course	Type	CP	Weekly contact hours																			
1	Elective course	L+S/L+T/ L+integrated E/S	6	4h																			
Module examination		ME																					
2	Language of instruction: English or German																						
3	Teaching content: The module concentrates on advanced econometric methodology. It addresses specialized topics such as panel data models, nonparametric and semiparametric estimation, high-dimensional econometrics, simulation-based methods, structural models, and recent methodological developments. The focus is on the theoretical underpinnings of these approaches and their implementation in empirical research.																						
4	Competencies: After completing the module, students are able to understand, apply, and further develop advanced econometric methods. They gain the capacity to critically assess methodological choices, to implement modern estimation techniques, and to link theoretical advances in econometrics to practical applications. The module strengthens their ability to conduct independent methodological research and to use sophisticated econometric tools for complex empirical problems.																						
5	Examinations: The type and format of examination depend on the specific course selected within this module. Possible forms include written exams, oral exams, or seminar papers and presentations. The format of examination is announced at the beginning of each course. Students have three attempts for this elective module, regardless of the course. This means that, after an unsuccessful first attempt, students may switch to a different course approved for this module and complete their second attempt there.																						
6	Types of examinations and performances: Relating to individual courses.																						
7	Recommended knowledge: Specific recommended knowledge for the individual courses are based on the course descriptions of the respective selected courses.																						
8	Formal requirements: The entry requirements for the individual courses are based on the course descriptions of the respective selected courses.																						
9	Module type and applicability of the module: Compulsory elective modules in M.Sc. Econometrics																						
10	Module coordinator: Lecturers from the responsible departments		Responsible department: University of Duisburg-Essen, Department of Business Administration and Economics																				
11	Literature:																						
12	Further Information:																						
Module ME EM43: Econometric Methods@UDE IV																							

Degree program: M.Sc. Econometrics																				
Interval: Each semester		Duration: 1 semester		Study phase: 1st - 3rd semester																
				CP 6																
				Workload 180 h																
1	Module structure: <table><tr><td>No.</td><td>Element / course</td><td>Type</td><td>CP</td><td>Weekly contact hours</td></tr><tr><td>1</td><td>Elective course</td><td>L+S/L+T/ L+integrated E/S</td><td>6</td><td>4h</td></tr><tr><td></td><td>Module examination</td><td>ME</td><td></td><td></td></tr></table>					No.	Element / course	Type	CP	Weekly contact hours	1	Elective course	L+S/L+T/ L+integrated E/S	6	4h		Module examination	ME		
No.	Element / course	Type	CP	Weekly contact hours																
1	Elective course	L+S/L+T/ L+integrated E/S	6	4h																
	Module examination	ME																		
2	Language of instruction: English or German																			
3	Teaching content: The module concentrates on advanced econometric methodology. It addresses specialized topics such as panel data models, nonparametric and semiparametric estimation, high-dimensional econometrics, simulation-based methods, structural models, and recent methodological developments. The focus is on the theoretical underpinnings of these approaches and their implementation in empirical research.																			
4	Competencies: After completing the module, students are able to understand, apply, and further develop advanced econometric methods. They gain the capacity to critically assess methodological choices, to implement modern estimation techniques, and to link theoretical advances in econometrics to practical applications. The module strengthens their ability to conduct independent methodological research and to use sophisticated econometric tools for complex empirical problems.																			
5	Examinations: The type and format of examination depend on the specific course selected within this module. Possible forms include written exams, oral exams, or seminar papers and presentations. The format of examination is announced at the beginning of each course. Students have three attempts for this elective module, regardless of the course. This means that, after an unsuccessful first attempt, students may switch to a different course approved for this module and complete their second attempt there.																			
6	Types of examinations and performances: Relating to individual courses.																			
7	Recommended knowledge: Specific recommended knowledge for the individual courses are based on the course descriptions of the respective selected courses.																			
8	Formal requirements: The entry requirements for the individual courses are based on the course descriptions of the respective selected courses.																			
9	Module type and applicability of the module: Compulsory elective modules in M.Sc. Econometrics																			
10	Module coordinator: Lecturers from the responsible departments			Responsible department: University of Duisburg-Essen, Department of Business Administration and Economics																
11	Literature:																			
12	Further Information:																			
Module ME EM44: Econometric Methods@RUB I																				

Degree program: M.Sc. Econometrics																							
Interval: Each semester		Duration: 1 semester		Study phase: 1st - 3rd semester																			
				CP 10																			
				Workload 300 h																			
1	Module structure: <table><tr><td>No.</td><td>Element / course</td><td>Type</td><td>CP</td><td colspan="2">Weekly contact hours</td></tr><tr><td>1</td><td>Elective course</td><td>L+S/L+T/ L+integrated E/S</td><td>10</td><td colspan="2">4h</td></tr><tr><td></td><td>Module examination</td><td>ME</td><td></td><td colspan="2"></td></tr></table>					No.	Element / course	Type	CP	Weekly contact hours		1	Elective course	L+S/L+T/ L+integrated E/S	10	4h			Module examination	ME			
No.	Element / course	Type	CP	Weekly contact hours																			
1	Elective course	L+S/L+T/ L+integrated E/S	10	4h																			
	Module examination	ME																					
2	Language of instruction: English or German																						
3	Teaching content: The module concentrates on advanced econometric methodology. It addresses specialized topics such as panel data models, nonparametric and semiparametric estimation, high-dimensional econometrics, simulation-based methods, structural models, and recent methodological developments. The focus is on the theoretical underpinnings of these approaches and their implementation in empirical research.																						
4	Competencies: After completing the module, students are able to understand, apply, and further develop advanced econometric methods. They gain the capacity to critically assess methodological choices, to implement modern estimation techniques, and to link theoretical advances in econometrics to practical applications. The module strengthens their ability to conduct independent methodological research and to use sophisticated econometric tools for complex empirical problems.																						
5	Examinations: The type and format of examination depend on the specific course selected within this module. Possible forms include written exams, oral exams, or seminar papers and presentations. The format of examination is announced at the beginning of each course. Students have three attempts for this elective module, regardless of the course. This means that, after an unsuccessful first attempt, students may switch to a different course approved for this module and complete their second attempt there.																						
6	Types of examinations and performances: Relating to individual courses.																						
7	Recommended knowledge: Specific recommended knowledge for the individual courses are based on the course descriptions of the respective selected courses.																						
8	Formal requirements: The entry requirements for the individual courses are based on the course descriptions of the respective selected courses.																						
9	Module type and applicability of the module: Compulsory elective modules in M.Sc. Econometrics																						
10	Module coordinator: Lecturers from the responsible departments			Responsible department: Ruhr-University Bochum, Department of Management and Economics																			
11	Literature:																						
12	Further Information:																						
Module ME EM45: Econometric Methods@RUB II																							

Degree program: M.Sc. Econometrics																							
Interval: Each semester		Duration: 1 semester	Study phase: 1st - 3rd semester		CP 10	Workload 300 h																	
1	Module structure: <table><tr><td>No.</td><td>Element / course</td><td>Type</td><td>CP</td><td colspan="2">Weekly contact hours</td></tr><tr><td>1</td><td>Elective course</td><td>L+S/L+T/ L+integrated E/S</td><td>10</td><td colspan="2">4h</td></tr><tr><td colspan="2">Module examination</td><td>ME</td><td colspan="3"></td></tr></table>					No.	Element / course	Type	CP	Weekly contact hours		1	Elective course	L+S/L+T/ L+integrated E/S	10	4h		Module examination		ME			
No.	Element / course	Type	CP	Weekly contact hours																			
1	Elective course	L+S/L+T/ L+integrated E/S	10	4h																			
Module examination		ME																					
2	Language of instruction: English or German																						
3	Teaching content: The module concentrates on advanced econometric methodology. It addresses specialized topics such as panel data models, nonparametric and semiparametric estimation, high-dimensional econometrics, simulation-based methods, structural models, and recent methodological developments. The focus is on the theoretical underpinnings of these approaches and their implementation in empirical research.																						
4	Competencies: After completing the module, students are able to understand, apply, and further develop advanced econometric methods. They gain the capacity to critically assess methodological choices, to implement modern estimation techniques, and to link theoretical advances in econometrics to practical applications. The module strengthens their ability to conduct independent methodological research and to use sophisticated econometric tools for complex empirical problems.																						
5	Examinations: The type and format of examination depend on the specific course selected within this module. Possible forms include written exams, oral exams, or seminar papers and presentations. The format of examination is announced at the beginning of each course. Students have three attempts for this elective module, regardless of the course. This means that, after an unsuccessful first attempt, students may switch to a different course approved for this module and complete their second attempt there.																						
6	Types of examinations and performances: Relating to individual courses.																						
7	Recommended knowledge: Specific recommended knowledge for the individual courses are based on the course descriptions of the respective selected courses.																						
8	Formal requirements: The entry requirements for the individual courses are based on the course descriptions of the respective selected courses.																						
9	Module type and applicability of the module: Compulsory elective modules in M.Sc. Econometrics																						
10	Module coordinator: Lecturers from the responsible departments		Responsible department: Ruhr-University Bochum, Department of Management and Economics																				
11	Literature:																						
12	Further Information:																						

Module ME EM46: Seminar in Econometrics

Degree program: M.Sc. Econometrics						
Interval: Each semester		Duration: 1 semester	Study phase: 1st - 3rd semester		CP 4	Workload 90 h
1	Module structure:					
	No.	Element / course	Type	CP	Weekly contact hours	
	1	Elective course	S	4	2h	
		Module examination	ME			
2	Language of instruction: English or German					
3	Teaching content: This module focuses on the critical discussion and independent application of econometric methods in empirical research. Students engage with academic papers that employ a range of econometric techniques and are encouraged to analyze, present, and evaluate their methodologies and findings. In addition to guided readings, students work on their own empirical project or literature-based paper, formulating research questions, specifying models, and discussing methodological challenges. Active participation, presentations, and written work are key components of the course. This module fosters academic writing, critical thinking, and independent research skills.					
4	Competencies: After completing this module, students are able to critically assess empirical research in econometrics, identify appropriate econometric techniques for specific research questions, and understand their limitations. They can read and interpret academic literature, present research findings clearly, and engage in scholarly discussion. Furthermore, they gain experience in developing and communicating their own empirical or methodological work in written and oral form, thereby preparing for thesis writing and further academic or applied research.					
5	Examinations: The type and format of examination depend on the specific course selected within this module. Possible forms include written exams, oral exams, or seminar papers and presentations. The format of examination is announced at the beginning of each course. Students have three attempts for this elective module, regardless of the course. This means that, after an unsuccessful first attempt, students may switch to a different course approved for this module and complete their second attempt there.					
6	Types of examinations and performances: Relating to individual courses.					
7	Recommended knowledge: Specific recommended knowledge for the individual courses are based on the course descriptions of the respective selected courses.					
8	Formal requirements: The entry requirements for the individual courses are based on the course descriptions of the respective selected courses.					
9	Module type and applicability of the module: Compulsory elective modules in M.Sc. Econometrics					
10	Module coordinator: Lecturers from the responsible departments			Responsible department: TU Dortmund University, Department of Statistics		
11	Literature:					
12	Further Information:					

Handbook of Formal requirements for the M.Sc. study programme Econometrics

POSSIBLE FORMAL REQUIREMENTS IN CASE OF CONDITIONAL ADMISSION:			
NAME	No.	Lectures/courses	Credit Points
MACROECONOMICS	ME Req1	Reading Course Macroeconomics	7,5
MICROECONOMICS	ME Req2	Reading Course Microeconomics	7,5
PROBABILITY	ME Req3	Reading Course Probability	5
INFERENCE	ME Req4	Reading Course Inference	5

Module ME Req1: Macroeconomics

Degree program: M.Sc. Econometrics										
Interval: Each semester		Duration: 1 semester		Study phase: beginning of programme		CP 7.5		Workload 225 h		
1 Module structure:										
No.		Element / course			Type		CP		Weekly contact hours	
1		Reading Course Macroeconomics					7.5		5	
2 Language of instruction: English										
3 Teaching content: The module covers essential dynamic macroeconomic models that are required as a background for more advanced theories covered in specialized master level courses. The contents follow chapters 2 – 5 and 8 of the textbook by Michael Wickens, Macroeconomic Theory. A dynamic general equilibrium approach, 2nd ed., Princeton University Press (2011).										
4 Competencies: Students acquire knowledge of core models and methods of dynamic macroeconomics. They become familiar with intertemporal optimization and its uses in the construction of baseline models of real and monetary business cycle fluctuations and long-run growth.										
5 Examinations: Oral exam based on the book chapters										
6 Types of examinations and performances: Covering the entire module										
7 Recommended knowledge:										
8 Formal requirements:										
9 Module type and applicability of the module: Possible requirement in case of conditional admission to the M.Sc. Econometrics										
10 Module coordinator: Prof. Dr. Ludger Linnemann						Responsible department: TU Dortmund University, Department of Business and Economics				
11 Literature:										
12 Further Information:										

Module ME Req2: Microeconomics

Degree program: M.Sc. Econometrics																	
Interval: Each semester		Duration: 1 semester		Study phase: beginning of programme													
				CP 7.5	Workload 225 h												
1	Module structure: <table><tr><td>No.</td><td>Element / course</td><td>Type</td><td>CP</td><td colspan="2">Weekly contact hours</td></tr><tr><td>1</td><td>Reading Course Microeconomics</td><td></td><td>7.5</td><td colspan="2">5</td></tr></table>					No.	Element / course	Type	CP	Weekly contact hours		1	Reading Course Microeconomics		7.5	5	
No.	Element / course	Type	CP	Weekly contact hours													
1	Reading Course Microeconomics		7.5	5													
2	Language of instruction: English																
3	Teaching content: The module covers the essential microeconomic model of rational choices in a general equilibrium. The topics of this course form the theoretical foundation for the contents of more advanced master level courses. The contents follow chapters 1 – 10 and 13 of the textbook by Hal R. Varian, Microeconomic Analysis. 3rd ed., W.W. Norton (2010).																
4	Competencies: Students acquire knowledge of core models of decision theory for firms and consumers and solve problems of constraint optimization. They learn how to conduct comparative statics and gain knowledge of efficiency and welfare of a competitive equilibrium.																
5	Examinations: Oral exam based on the book chapters																
6	Types of examinations and performances: Covering the entire module																
7	Recommended knowledge:																
8	Formal requirements:																
9	Module type and applicability of the module: Possible requirement in case of conditional admission to the M.Sc. Econometrics																
10	Module coordinator: Prof. Dr. Lukas Buchheim			Responsible department: TU Dortmund University, Department of Business and Economics													
11	Literature:																
12	Further Information:																

Module ME Req3: Probability

Degree program: M.Sc. Econometrics															
Interval: Each semester		Duration: 1 semester		Study phase: beginning of programme											
				CP 5											
				Workload 150 h											
1	Module structure: <table><tr><td>No.</td><td>Element / course</td><td>Type</td><td>CP</td><td>Weekly contact hours</td></tr><tr><td>1</td><td>Reading Course Probability</td><td></td><td>5</td><td>4</td></tr></table>					No.	Element / course	Type	CP	Weekly contact hours	1	Reading Course Probability		5	4
No.	Element / course	Type	CP	Weekly contact hours											
1	Reading Course Probability		5	4											
2	Language of instruction: English														
3	Teaching content: • Concepts of probability, distributions, conditional probability and independence, Bayes' rule, sequences of events. • Sampling, Binomial distribution, Normal approximation, Poisson distribution. • Random variables, expectation and variance. • Probability densities, Exponential and Gamma distributions, substitutions, cumulative distribution functions. • Joint distributions, Uniform and Normal distributions. • Dependence, conditional distributions, covariance and correlation.														
4	Competencies: Students gain a deep understanding of probability. They independently integrate statistical problems in the context of probability theory and solve them using appropriate methods. Students apply mathematical proof techniques.														
5	Examinations: Examination based on the book chapters.														
6	Types of examinations and performances: Covering the entire module														
7	Recommended knowledge:														
8	Formal requirements:														
9	Module type and applicability of the module: Possible requirement in case of conditional admission to the M.Sc. Econometrics														
10	Module coordinator: Chairman of board of examiners			Responsible department: TU Dortmund University, Department of Statistics											
11	Literature:														
12	Further Information:														

Module ME Req4: Inference

Degree program: M.Sc. Econometrics									
Interval: Each semester		Duration: 1 semester		Study phase: beginning of programme		CP 5		Workload 150 h	
1	Module structure:								
	No.	Element / course			Type	CP	Weekly contact hours		
	1	Reading Course Inference				5	4		
2	Language of instruction: English								
3	Teaching content:								
	• Parametric point estimation: method of moments and maximum likelihood; consistency; sufficiency; error, bias and loss; completeness; Rao-Cramer-bound; invariance; Bayesian estimation. • Parametric interval estimation: confidence intervals, especially for Normal distribution parameters, finding methods, Bayesian estimation. • Tests of hypotheses: simple and composite hypotheses, loss function, (uniformly) most powerful tests, unbiased tests, tests for (multivariate) Normal distribution parameters, Chi-square tests, relation to confidence intervals.								
4	Competencies: Students calculate point and interval estimators and carry out significance tests. They prove basic properties of estimators and tests. Students apply the methods to real data.								
5	Examinations: Examination based on the book chapters.								
6	Types of examinations and performances: Covering the entire module								
7	Recommended knowledge:								
8	Formal requirements:								
9	Module type and applicability of the module: Possible requirement in case of conditional admission to the M.Sc. Econometrics								
10	Module coordinator: Chairman of board of examiners				Responsible department: TU Dortmund University, Department of Statistics				
11	Literature:								
12	Further Information:								