

University of Bonn
Faculty of Law and Economics
Department of Economics

Course Catalogue

Master of Science

Economics (M.Sc.)



Winter Semester 2022/2023

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1 Master of Science in Economics

1.1 Aims of the Program

The program "Master of Science in Economics" at the University of Bonn is comprehensive research-oriented program offered in English. The four semester program provides students with the skills needed to succeed in an increasingly international job market and prepares them for challenging jobs in the public sector (ministries, central banks) and the private sector (banks, consulting firms, large industrial companies) as well as for jobs at universities, research institutions and international institutions. The Master program covers all areas of economics and provides advanced mathematical, statistical, and econometric knowledge. The program familiarizes graduate students with the methodological framework of current research and complex economic models and enables them to discuss the relevancy and limits of economic theories. Students graduating from the M. Sc. program in Economics will be qualified for a professional career as well as for a Ph.D. program.

1.2 Structure of the Program and Workload

The Master of Science in Economics is a two-year program consisting of basic modules, advanced modules, a research module and the Master thesis. During their first semester, students choose four out of five basic modules, thus earning 30 credit points. The basic modules provide them with an in-depth understanding of the field's foundations and prepare them for the advanced modules. The following basic modules are offered: Mathematics for Economists (mandatory), Microeconomics, Macroeconomics, Finance, and Econometrics. In the second and third semester, students determine their individual study profile by selecting advanced module covering a minimum of two and a maximum of four areas of Economics. These advanced modules focus on current topics in economic research and provide students with a profound understanding of the conceptual and methodological assumptions of a variety of approaches. In the third semester, students also take a research module, which is taught as a seminar and helps them to further improve their academic and analytical skills while addressing recent topics of the respective study field. They learn to define research topics, to formulate specific research questions and to develop a research approach to investigate the project's topic. Advanced modules and the research module are offered in the following fields: Microeconomic Theory, Macroeconomics and Public Economics, Management and Applied Microeconomics, Financial Economics, Econometrics and Statistics, and Economic Research. Students need to acquire a total of 90 credit points from basic and advanced modules (including the research module). They complete their Master degree by writing their Master thesis in the fourth semester, thus earning the remaining 30 credit points.

Please find further information about the master program in Economics on our websites **Econ Uni Bonn**.

1.3 Course Plan



Master of Science (M.Sc.)

Economics

Examination Regulations from 27 September 2017 Valid from Winter Semester 2017/18

	Study Course Economics									
	Optional German Class / Orientation Session									
1st Sem Winter	Basic Module Mathematics	Basic Module (Study Field 1) (Study Field 2)		Basic Module (Study Field 3)						
30 CP	7,5 CP	7,5 CP	7	,5 CP	7,5 CP					
2nd Sem Summer	Advanced Module (Study Field optional)	Advanced Module (Study Field 1)	Advanced Module (Study Field 2)		Advanced Module (Study Field optional)					
30 CP	7,5 CP	7,5 CP	7	',5 CP	7,5 CP					
3rd Sem Winter		h Module Field 1)	Advanced Module (Study Field optional)		Advanced Module (Study Field optional) or Basic Module					
30 CP	1!	5 CP	7	7,5 CP	7,5 CP					
4th Sem Summer		Thesis								
30 CP	30 CP 30 CP									
	M.Sc. Economics 120 CP									
Legend:										
Basic N	Basic Modules Advanced Modules Research Module									

October 2017

2 Course Advice

2.1 Course Offer

Students acquire 7.5 ECTS for all modules except for the research module and the master thesis, which are weighted 15 ECTS and 30 ECTS respectively. All basic modules and the research module are offered in winter semesters only, all advanced modules in a yearly cycle. Information on the content of all modules offered in the master program is available on the pages of the <u>Department of Economics</u> through the module descriptions which also indicate the semester in which a course is offered and the type of exam for each module. Information on the courses offered in any given semester is available on the online platform <u>BASIS</u> which also allows students to register for courses and exams. Generally, no course registration is required for basic and advanced modules, the only exception is the research module as it is taught as a seminar with a limited number of participants.

2.2 Examination Registration

At the end of every semester, students have to take written or oral examinations to complete their courses. Examinations can be taken during two examination periods; the first usually begins shortly after the end of the lecture period, the second usually takes place during the last two weeks of the semester. Students can decide in which examination period they want to write their exams, the exam registration takes place via BASIS.

2.3 E-Learning and eCampus

<u>eCampus</u> is the online platform of the University of Bonn. It acts as an online interface between lecturers and students. This is where the lecturers upload any necessary course material like lecture slides, problem sets and mock exams.

2.4 Study Advisors

Master program, international students (outgoing and incoming)

Sabine Hübner-Monien, Ph.D.

E-Mail: <u>master.econ@uni-bonn.de</u>

Tel.: 0228/73-94 50

Office Hours: https://www.econ.uni-bonn.de/de/studium/service/ansprechpartner

Bachelor program

Dipl. Verw. Wiss. Vera Häckel

Email: <u>studienmanagement.wiwi@uni-bonn.de</u>

Tel.: 0228 / 73-94 51

Office Hours: https://www.econ.uni-bonn.de/de/studium/service/ansprechpartner

Examination Office of the Department of Economics

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Tel.: 0228/73-9188

Office Hours: https://www.vwlpamt.uni-bonn.de/pruefungsamt

3 Imprint

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Date: 28.10.2022

4 Module Descriptions

Econometrics 01.10.2022 Seite **7** von **62**

Econometrics MA ECON BM ECONOM UNIVERSITÄT BONN Content and learning outcome Content This course is to provide a thorough introduction to classic econometric methods including linear and nonlinear regression, (generalized) method of moments, or maximum likelihood in a cross-section and/or time series context. Theoretical analysis as well as practical implementation of these methods is part of this course as well. This course is primarily conceived to acquire a firm understanding of why certain Learning outcome econometric methods work and provide possible remedies for departures from the standard modeling assumptions. An important goal is to show the benefits of combining economic theory, statistical methods to analyze empirical problems in economics. Teaching and learning methods Work Language of Group size Contact Type of course/ **Topic** instruction time load learning methods [h] Econometrics or Lecture English 120 4 hours 60 Econometrics (Ph.D.) Self-study 165 **Prerequisites** obligatory none recommended none Degree program allocation obligatory/ Semeste Study Program/Study Field/Module Number/Lecture Number elective Economics, M.Sc. / Basic Module / 332110005 / 332010005; Elective 1st/ 3rd Econometrics (Ph.D.) 332111005/332011005 Export* / 332191005 / 332010005 Requirements for the awarding of credit points (ECTS) Credits **Prerequisites for** None participation 7,5 LP **Types of Assessment Examination** Written exam (graded, 100%), English language Workload **Course Cycle** Duration Winter term х Winter and 225 h 1 Term Summer term Summer term **Module coordination Teaching person** See https://basis.uni-bonn.de Module coordinator Prof. Dr. Alois Kneip Institute/Department **Department of Economics Further Information** Literature You must choose four out of five basic modules (Mathematics for Economists, Finance, Microeconomics, Macroeconomics, Econometrics). Mathematics for Economists is obligatory. The fifth basic module can be elected in the 3rd semester instead of an ad-

vanced module.

* export into other study programs is only possible if contract between faculties exists

Finance MA ECON BM FINANCE UNIVERSITÄT BONN Content and learning outcome Content The course provides a rigorous introduction into the theory of finance and its implications for corporate financial management. It covers the main areas of modern finance, including the theory of investments under certainty and uncertainty, the pricing of assets and derivatives, and an introduction into corporate financial policy. Learning outcome The aim of this course is to provide students with an understanding of the most important theories in financial economics. It enables students to read and understand original research literature, to take a stand on current issues in finance, and it lays the foundation for specialized courses in finance. **Teaching and learning methods** Work Contact Language of **Group size** Type of course/ **Topic** instruction time load learning methods [h] Lecture **Finance** English 120 4 hours 60 Self-study 165 **Prerequisites** obligatory none recommended Degree program allocation obligatory/ Semeste Study Program/Study Field/Module Number/Lecture Number elective 1st/3rd Economics, M.Sc. / Basic Module / 332110004 / 332010004 Elective Export* / 332191004 / 332010004 Requirements for the awarding of credit points (ECTS) **Credits Prerequisites for** None participation 7,5 LP **Types of Assessment Examination** Written exam (graded, 100%), English language Workload **Course Cycle** Duration Winter term Х Winter and 225 h 1 Term Summer term Summer term **Module coordination Teaching person** See https://basis.uni-bonn.de **Module coordinator** Prof. Dr. Hendrik Hakenes Institute/Department **Department of Economics Further Information** Literature **Basic Modules:** You must choose four out of five basic modules (Mathematics for Economists, Finance, Microeconomics, Macroeconomics, Econometrics). Mathematics for Economists is obligatory. The fifth basic module can be elected in the 3rd semester instead of an advanced module.

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Macroeconomics MA ECON BM MACRO UNIVERSITÄT BONN **Content and learning outcome** This course provides an introduction into the current state of macroeconomic theory Content for graduate students. It is divided in three parts: growth theory, real business cycle theory, and financial macroeconomics. The first part deals with the question what makes economies grow in the long run, while in the last two parts dynamic stochastic equilibrium models are developed and solved. Learning outcome The main goal of this course is to acquaint students with the methodological framework underlying current research and academic debates in dynamic macroeconomics. This will provide them with the background required to understand current research literature and a rigorous foundation for the discussion of macroeconomic policies. **Teaching and learning methods** Work Language of **Group size** Contact Type of course/ **Topic** instruction time load learning methods [h] Macroeconomics or 60 Lecture **English** 120 4 hours Macroeconomics (Ph.D.) 165 Self-study **Prerequisites** obligatory none recommended Degree program allocation obligatory/ Semeste Study Program/Study Field/Module Number/Lecture Number elective r Economics, M.Sc. / Basic Module / 332110003 / 332010003; 1st/3rd Elective Macroecomics (Ph.D.): 332111003/332022018 Export* / 332191005 / 332010003 Requirements for the awarding of credit points (ECTS) **Credits Prerequisites for** None participation 7,5 LP **Types of Assessment Examination** Written exam (graded, 100%), English language Workload **Duration Course Cycle** Winter term х Winter and 225 h 1 Term Summer term Summer term **Module coordination Teaching person** See https://basis.uni-bonn.de Module coordinator Prof. Dr. Christian Bayer Institute/Department **Department of Economics Further Information** Literature You must choose four out of five basic modules (Mathematics for Economists, Finance, Microeconomics, Macroeconomics, Econometrics). Mathematics for Economists is obligatory. The fifth basic module can be elected in the 3rd semester instead of an advanced module.

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Mathematics for Economists MA ECON BM MATH UNIVERSITÄT BONN Content and learning outcome Content The course covers optimization methods as they are used in economic research. Both static and dynamic methods are treated. Existence and comparative statics properties of solutions are covered. Difference and differential equations are discussed, as mastering these techniques is essential for macroeconomic applications in particular but not exclusively. Basic concepts in linear algebra are discussed with a view to their applications in other basic and advanced modules. Learning outcome Students become familiar with the use of mathematics to study economic problems. The course aims to equip students with the necessary technical toolkit to read economic research independently. **Teaching and learning methods** Work Language of **Group size** Contact Type of course/ **Topic** instruction time load learning methods [h] Mathematics for Economists or Lecture English 120 4 hours 60 Mathematics for Economists (Ph.D.) Self-study **Prerequisites** obligatory none recommended Degree program allocation obligatory/ Semeste Study Program/Study Field/Module Number/Lecture Number elective r Economics, M.Sc. / Basic Module / 332110001 / 332010001; 1st Obligatory Mathematics for Economists (Ph.D.): 332111001/332011001 Requirements for the awarding of credit points (ECTS) **Credits Prerequisites for** None participation 7,5 LP **Types of Assessment Examination** Written exam (graded, 100%), English language Workload **Duration Course Cycle** Winter term Winter and 225 h 1 Term Summer term Summer term **Module coordination Teaching person** See https://basis.uni-bonn.de **Module coordinator** Prof. Dr. Dezsö Szalay Institute/Department **Department of Economics Further Information** Literature **Basic Modules:** You must choose four out of five basic modules (Mathematics for Economists, Finance, Microeconomics, Macroeconomics, Econometrics). Mathematics for Economists is obligatory. The fifth basic module can be elected in the 3rd semester instead of an

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Microeconomics MA ECON BM MICRO UNIVERSITÄT BONN **Content and learning outcome** Content The course covers the core topics in microeconomic theory. It includes the fundamentals of individual decision making, game theory, and general equilibrium theory. The lecture provides a rigorous foundation for common modelling techniques and solutions concepts, and gives an introduction to their application in fields like information economics. The course aims to expose the students to the basic paradigms of modern Learning outcome microeconomics, on an advanced formal level. Another important goal is the exposure to a variety of modelling techniques that will be often used in subsequent courses. **Teaching and learning methods** Work Contact Language of **Group size** Type of course/ **Topic** instruction time load learning methods [h] Microeconomics or **English** 120 4 hours 60 Lecture Microeconomics (Ph.D.) 165 Self-study **Prerequisites** obligatory none recommended Degree program allocation obligatory/ Semeste Study Program/Study Field/Module Number/Lecture Number elective r Economics, M.Sc. / Basic Module / 332110002 / 332010002; 1st/ 3rd Elective Microeconomics (Ph.D.): 332111002/332011002 Export* / 332191005 / 332010002 Requirements for the awarding of credit points (ECTS) **Credits Prerequisites for** None participation 7,5 LP **Types of Assessment Examination** Written exam (graded, 100%), English language Workload **Duration Course Cycle** Winter term х Winter and 225 h 1 Term Summer term Summer term **Module coordination Teaching person** See https://basis.uni-bonn.de Module coordinator Prof. Dr. Dezsö Szalay Institute/Department **Department of Economics Further Information** Literature You must choose four out of five basic modules (Mathematics for Economists, Finance, Microeconomics, Macroeconomics, Econometrics). Mathematics for Economists is obligatory. The fifth basic module can be elected in the 3rd semester instead of an advanced module.

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Algorithmic Economics MA ECON AM MIT ALGOECON UNIVERSITÄT BONN Content and learning outcome Content Algorithmic economics is a vibrant interdisciplinary area at the intersection of economics and computer science. It brings computational thinking to traditional economic problems, enabling economic analysis to deal with the challenges of a digital economy. Understanding computational constraints is vital for designing mechanisms from elections to auctions and provides new insights into why practical institutions deviate from theoretical predictions. This course introduces students to algorithmic economics. It provides the necessary background from theoretical computer science and demonstrates its usefulness by applying it to game theory, mechanism design, social choice, and fair division Learning outcome Students of this course will get acquainted with basic concepts from theoretical computer science. They will learn to recognize algorithmic challenges in familiar economic problems and to analyze and compare the practical limitations of traditional economic approaches. Moreover, they can apply algorithmic thinking to identify computationally tractable solutions. Teaching and learning methods Language of **Group size** Contact Work Type of course/ load **Topic** instruction time learning methods [h] Lecture **Algorithmic Economics** English 30 4 hours 60 Self-study 165 **Prerequisites** obligatory none recommended **Basic Module Microeconomics** Degree program allocation obligatory/ Semeste Study Program/Study Field/Module Number/Lecture Number elective 3rd Economics, M.Sc. / Microeconomic Theory / 332121013 / 332021013 Elective Export* / 332192113 / 332021013 Requirements for the awarding of credit points (ECTS) **Credits Prerequisites for** none participation 7,5 LP **Types of Assessment Examination** Written or oral exam or term paper (graded, 100%), English language **Course Cycle** Workload **Duration** Winter term Х Winter and 225 h 1 Term Summer term Summer term Module coordination **Teaching person** See https://basis.uni-bonn.de Module coordinator Prof. Dr. Dezsö Szalay Institute/Department **Department of Economics**

Further Information

Literature

The recommended literature will be announced at the beginning of the course.

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Asset Pricing MA AM ASSPRIC UNIVERSITÄT BONN **Content and learning outcome** Content This course introduces students to modern asset pricing, portfolio theory, and derivatives pricing in static and continuous-time dynamic models. The main covered topics include (i) no-arbitrage theory and equivalent martingale measures; applications to (ii) interest rate and fixed income securities; (iii) derivatives (forward, futures, options, swaps and, - time permitting - CDS); (iv) dynamic mean-variance analysis and ICAPM (also time permitting). Students acquire a solid theoretical understanding of the no-arbitrage theory and of its **Learning outcome** application for pricing and evaluating the risk of basic and derivative financial products. This content of this course enables them to critical approach more advanced models and to decompose complex instruments into their primitive components. **Teaching and learning methods** Work Language of **Group size** Contact Type of course/ **Topic** instruction time load learning methods [h] **English** 30 Lecture **Asset Pricing** 4 hours 60 Self-study 165 **Prerequisites** obligatory recommended Degree program allocation obligatory/ Semeste Study Program/Study Field/Module Number/Lecture Number elective 3rd Economics, M.Sc. / Financial Economics / 332124031 / 332024031 Elective Export* / 332192431 / 332024031 Requirements for the awarding of credit points (ECTS) **Credits Prerequisites for** none participation 7,5 LP **Types of Assessment Examination** Written or oral exam or term paper (graded, 100%), English language Workload **Duration Course Cycle** Winter term х Winter and 225 h 1 Term Summer term Summer term **Module coordination Teaching person** See https://basis.uni-bonn.de Module coordinator Prof. Dr. Hendrik Hakenes Institute/Department **Department of Economics Further Information** Literature Björk, T. (2009) Arbitrage theory in continuous time. Oxford University press Hull, J. (2009) Options, futures and other derivatives" Prentice Hall Back, K. (2010) Asset Pricing and Portfolio Choice Theory, Oxford University Press

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Banking and Securitization MA ECON AM FIE BANKSEC UNIVERSITÄT BONN **Content and learning outcome** Content This course provides an overview of current topics in banking and securitization. It is an applied course that builds on the basic knowledge in financial economics. The course is organized around methodologies frequently employed in this literature, and will be enriched by frequent references to applications. The focus is on topical research related to the financial crises of 2008. In particular, papers analyzing the incentives problems related to the securitization process are discussed. **Learning outcome** This course builds on the current literature on banking and securitization with a focus on the financial crisis of the year 2008. The students will be required to thoroughly read the research papers discussed in class. Further, students are required to present an unpublished research paper and write a referee report on this paper. **Teaching and learning methods** Work Language of **Group size** Contact Type of course/ **Topic** instruction time load learning methods [h] Banking and 4 hours 60 Lecture **English** 30 Securitization 165 Self-study **Prerequisites** obligatory None recommended Degree program allocation obligatory/ Semeste Study Program/Study Field/Module Number/Lecture Number elective r Economics, M.Sc. / Economic Research; Financial Economics / 2nd Elective 332124029 / 332024029 Export* / 332192429 / 332024029 Requirements for the awarding of credit points (ECTS) **Credits Prerequisites for** none participation 7,5 LP **Types of Assessment Examination** Written or oral exam or term paper (graded, 100%), English language Workload **Duration Course Cycle** Winter term Winter and 225 h 1 Term Summer term Summer term **Module coordination Teaching person** See https://basis.uni-bonn.de Module coordinator Prof. Dr. Hendrik Hakenes Institute/Department **Department of Economics Further Information**

Literature

The recommended literature will be announced at the beginning of the course.

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Behavioral Economics MA ECON AM MAM BEHECON UNIVERSITÄT BONN Content and learning outcome Content This course presents psychological and experimental evidence of departures from perfect rationality, self interest, and other assumptions of more traditional economic studies. The course then explores different ways of how departures from standard assumptions can be captured by formal models. It also discusses the implications of these findings for positive and normative predictions in various institutional settings. Learning outcome The course has three aims: (i) making students familiar with the lively debate in experimental and behavioral economics; (ii) providing them with basic formal models of decision making that account for psychological determinants of individual behaviour, (iii) enabling them to apply those models to applied economic questions. **Teaching and learning methods** Contact Work Language of **Group size** Type of course/ instruction time load **Topic** learning methods [h] Lecture **Behavioral Economics** English 30 4 hours 60 Self-study 165 **Prerequisites** obligatory none recommended **Basic Module Microeconomics** Degree program allocation obligatory/ Semeste Study Program/Study Field/Module Number/Lecture Number elective r Economics, M.Sc. / Management and Applied Microeconomics / 2nd Elective 332123019 / 332023019 Export* / 332192319 / 332023019 Requirements for the awarding of credit points (ECTS) **Credits Prerequisites for** none participation 7,5 LP **Types of Assessment Examination** Written or oral exam or term paper (graded, 100%), English language Workload **Duration Course Cycle** Winter term Winter and 225 h 1 Term Summer term Summer term **Module coordination Teaching person** See https://basis.uni-bonn.de Module coordinator Prof. Dr. Matthias Kräkel Institute/Department **Department of Economics Further Information** Literature Literature: The recommended literature will be announced at the beginning of the course.

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Computational Statistics MA ECON AM ECS COMPSTAT UNIVERSITÄT BONN **Content and learning outcome** The course explains ideas and methodological issues of computationally intensive Content statistical methods. There will be a special emphasis on algorithmic and numerical aspects of practical implementation. Successful students are able to solve methodological, numerical and algorithmic Learning outcome problems encountered in empirical work. **Teaching and learning methods Group size** Work Language of Contact Type of course/ **Topic** instruction load time learning methods [h] Lecture **Computational Statistics** English 30 4 hours 60 Self-study 165 **Prerequisites** obligatory none recommended **Basic Module Econometrics** Degree program allocation obligatory/ Semeste Study Program/Study Field/Module Number/Lecture Number elective r Economics, M.Sc. / Econometrics and Statistics / 332125033 / 2nd Elective 332025033 Export* / 332192533 / 332025033 Requirements for the awarding of credit points (ECTS) **Credits Prerequisites for** none participation 7,5 LP **Types of Assessment** Examination Written or oral exam or term paper (graded, 100%), English language **Course Cycle** Workload **Duration** Winter term Winter and 225 h 1 Term Summer term Summer term **Module coordination Teaching person** See https://basis.uni-bonn.de Module coordinator Prof. Dr. Alois Kneip Institute/Department **Department of Economics Further Information** Literature Literature: Literature will be announced in class.

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Corporate Finance MA ECON AM FIE CORPFIN UNIVERSITÄT BONN Content and learning outcome Content During the course, we will do three things: go through some parts of the Tirole book on the theory of corporate finance, then (as an exercise) build own variations of the discussed models. Finally, see how the basic theory is applied in current financial theory. That way, the course gives and overview over corporate finance theory, but also increases the students' skills to write up own ideas. This will be helpful for the master thesis later on. **Learning outcome** Students know about the theory of corporate finance (first 11 chapters of the Jean Tirole book); they have an advanced knowledge about the financial structure of firms, liquidity structure, corporate governance, mergers and acquisitions; they can construct own theory models; they can read and assess current theoretical articles in corporate Teaching and learning methods Language of **Group size** Contact Work Type of course/ **Topic** instruction time load learning methods [h] Lecture **Corporate Finance English** 30 4 hours 60 Self-study 165 **Prerequisites** obligatory none recommended Basic Module Finance Degree program allocation obligatory/ Semeste Study Program/Study Field/Module Number/Lecture Number elective r Economics, M.Sc. / Economic Research; Financial Economics / 3rdElective 332124027 / 332024027 Export* / 332192427 / 332024027 Requirements for the awarding of credit points (ECTS) **Credits Prerequisites for** none participation 7,5 LP **Types of Assessment Examination** Written or oral exam or term paper (graded, 100%), English language Workload **Duration Course Cycle** Winter term Х Winter and 225 h 1 Term Summer term Summer term **Module coordination Teaching person** See https://basis.uni-bonn.de Module coordinator Prof. Dr. Hendrik Hakenes Institute/Department **Department of Economics Further Information** Literature Literature: • Jean Tirole, Theory of Corporate Finance (2006) • plus a number of current research papers

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Decision Theory MA ECON AM MT DECSION UNIVERSITÄT BONN **Content and learning outcome** Content This course provides an introduction to decision theory. The focus is on decisionmaking under risk and uncertainty. Covered topics include the foundations of choice theory, preference representations, models of expected and subjective expected utility, and ambiguity aversion. We study axiomatic foundations and discuss their economic relevance. Students of this course get acquainted with a basic toolkit in decision theory. They Learning outcome understand various classic models on a formal level and can recognize, critically evaluate, and apply those in other areas of economics. **Teaching and learning methods** Work Language of **Group size** Contact Type of course/ **Topic** instruction time load learning methods [h] Lecture **Decision Theory** English 30 4 hours 60 165 Self-study **Prerequisites** obligatory recommended **Basic Module Microeconomics** Degree program allocation obligatory/ Semeste Study Program/Study Field/Module Number/Lecture Number elective 2nd Economics, M.Sc. / Microeconomic Theory / 332121009 / 332021009 Elective Export* / 332192109 / 332021009 Requirements for the awarding of credit points (ECTS) **Credits Prerequisites for** none participation 7,5 LP **Types of Assessment Examination** Written or oral exam or term paper (graded, 100%), English language Workload **Duration Course Cycle** Winter term Winter and 225 h 1 Term Summer term Summer term **Module coordination Teaching person** See https://basis.uni-bonn.de Module coordinator Prof. Dr. Dezsö Szalay Institute/Department **Department of Economics**

Further Information

Literature

The recommended literature will be announced at the beginning of the course.

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Digital Finance MA ECON AM FIE DIGITFIN UNIVERSITÄT BONN **Content and learning outcome** Content This course analyses (digital) money, banks and payments. First, the course studies recent innovations in the realm of digital currencies and payments. Second, monetary policy in the presence of multiple currencies is discussed. Third, the course analyses bank deposits as means of payments, central bank digital currencies (CBDC), the real effects of bank disintermediation, and currencies issued by firms. Students will be able to discuss the economic limitations of blockchain-based Learning outcome currencies. Students will also be familiar with models of money as medium of exchange. The course leads students to the research frontier on digital currencies and their economic consequences. **Teaching and learning methods** Contact Work Language of **Group size** Type of course/ instruction time load **Topic** learning methods [h] Lecture **Digital Finance** English 30 4 hours 60 Self-study 165 **Prerequisites** obligatory none recommended The basic modules Macroeconomics and Microeconomics are strongly recommended. Degree program allocation obligatory/ Semeste Study Program/Study Field/Module Number/Lecture Number elective Economics, M.Sc. / Financial Economics / 332124034 / 332024034 3rd Elective Export* / 332192434 / 332024034 Requirements for the awarding of credit points (ECTS) **Credits Prerequisites for** none participation 7,5 LP **Types of Assessment Examination** Written or oral exam or term paper (graded, 100%), English language **Course Cycle** Workload **Duration** Winter term Х Winter and 225 h 1 Term Summer term Summer term **Module coordination** See https://basis.uni-bonn.de **Teaching person Module coordinator** Prof. Dr. Hendrik Hakenes Institute/Department **Department of Economics Further Information** Literature The recommended literature will be announced at the beginning of the course.

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Dynamic Mad									
MA ECON AM MPE	E DYN	IMAC			UNIVERSI	TÄT <mark>BONN</mark>			
Content and lear	ning	outcome		1					
Content	ontent The course studies first revisits basic algorithms to solve single agent dynam								
		programming problems, then discusses possibilities to improve on these algorithms,							
		such as perturb	ation and pr	ojection methods. Th	nese techniques are	applied to	study		
		the business cy	cle characte	ristics of model econ	omies. Then algorit	hms are stu	udied to		
			solve recursive general equilibrium models with heterogeneous agents, such as Ai-						
			agari's (1994) or Krussell and Smith's (1998) model.						
Learning outcome	· · ·								
			-	ed to understand mo		-			
		_	-	namic programming I		-			
			-	nd results studied the	•				
			_	cycle theory, savings	_	quilibrium	with		
Tanahina and las	•		ai markets, r	neterogeneous agent	economies.				
Teaching and lea	irnin	g metnoas					1,00		
Type of course,	/	Tout		Language of	Group size	Contact	_		
learning method	ds	Topic		instruction		time	load		
		Dynam	nic				[h]		
Lecture		Macroecor		English	30	4 hours	60		
Self-study		Macroecor	10111103				165		
Jen-study							105		
Prerequisites									
obligatory		none							
recommended			anding of nu	merical programmin	g and MATI AB as n	rogrammin	 1g		
		language is help	_		8 aa	- 6			
Degree program	allo			'					
					obligatory	/	Semeste		
Study Program	n/Stı	udy Field/Module	e Number/Le	ecture Number	elective				
Economics, M.Sc. /	/ Ecor	nomic Research;N	/lacroeconor	nomics and Public			and		
Economics / 33212	22007	/ / 332022007			Elective		2 nd		
Requirements for	r the	awarding of c	redit points	(ECTS)			Credits		
Prerequisites for									
participation		none					7,5 LP		
Types of Assessme	ent								
Examination		Written or oral	exam or terr	m paper (graded, 10	0%), English				
language									
Course Cycle				Workload	Dur	ration			
Winter term		Winter and				_			
Summer term	V	Summer term		225 h	17	Гerm			
Summer term	Х								

Module coordination	Module coordination					
Teaching person	See https://basis.uni-bonn.de					
Module coordinator	Prof. Dr. Christian Bayer					
Institute/Department	Department of Economics					
Further Information						
Literature	Literature: Students having already passed exams in "Macroeconomics II: Dynamic Macroeconomics" cannot take exams in this module.					
	 Primary readings are: Burkhard und Alfred Maußner, Dynamic General Equilibrium Modelling, Computational Methods and Applications, 2. Edition, Springer: Berlin 2008 Jerome Adda and Russell W. Cooper, Dynamic Economics: Quantitative Methods and Applications, MIT Press, Cambridge MA, 2003. 					

^{*} export into other study programs is only possible if contract between faculties exists

Dynamic Methods and Applications MA ECON AM FIE DYNMAPP UNIVERSITÄT BONN **Content and learning outcome** Content The course introduces the dynamic programming approach in discrete time, covering its mathematical underpinnings as well as applications to problems in microeconomics, macroeconomics and finance. Students get acquainted with one of the most important techniques for forward-Learning outcome looking decision making, the method of dynamic programming, and with its manifold applications in economics. **Teaching and learning methods** Language of **Group size** Contact Work Type of course/ **Topic** instruction time load learning methods [h] **Dynamic Methods** 30 Lecture English 4 hours 60 and Applications Self-study 165 **Prerequisites** obligatory Knowledge of the contents of the module "Mathematics for Economists" recommended Degree program allocation obligatory/ Semeste Study Program/Study Field/Module Number/Lecture Number elective r Economics, M.Sc. / Economic Research; Financial Economics; Macroeconomics and Public Economics; Management and 2nd Elective Applied Microeconomics; Microeconomic Theory / 332121011 / 332021011 Export* / 332192111 / 332021011 Requirements for the awarding of credit points (ECTS) **Credits Prerequisites for** none participation 7,5 LP **Types of Assessment Examination** Written or oral exam or term paper (graded, 100%), English language Workload **Duration Course Cycle** Winter term Winter and 225 h 1 Term Summer term Summer term **Module coordination Teaching person** See https://basis.uni-bonn.de Module coordinator Prof. Dr. Hendrik Hakenes Institute/Department **Department of Economics Further Information** Literature Literature:

The recommended literature will be announced at the beginning of the course.

^{*} export into other study programs is only possible if contract between faculties exists

Econometric Theory MA ECON AM ECS ECONTHEO UNIVERSITÄT BONN **Content and learning outcome** Content The course deals with theoretical analysis of classical parametric estimators such as least squares, maximum likelihood or GMM estimators. Derivation of results for estimation and inference theory including consistency and asymptotic normality results. Students acquire a firm understanding of the fundamental concepts of econometric Learning outcome theory. They should be able to understand and apply standard proof techniques. **Teaching and learning methods** Language of **Group size** Contact Work Type of course/ **Topic** instruction time load learning methods [h] Lecture **Econometric Theory** English 30 4 hours 60 Self-study 165 **Prerequisites** obligatory none recommended **Basic Module Econometrics** Degree program allocation obligatory/ Semeste Study Program/Study Field/Module Number/Lecture Number elective r Economics, M.Sc. / Econometrics and Statistics; Economic Research / 3rd Elective 332125028 / 332025028 Export* / 332192528 / 332025028 Requirements for the awarding of credit points (ECTS) **Credits Prerequisites for** none participation 7,5 LP **Types of Assessment** Examination Written or oral exam or term paper (graded, 100%), English language Workload **Course Cycle Duration** Winter term Х Winter and 225 h 1 Term Summer term Summer term **Module coordination Teaching person** See https://basis.uni-bonn.de **Module coordinator** Prof. Dr. Alois Kneip Institute/Department **Department of Economics Further Information** Literature Literature: The recommended literature will be announced at the beginning of the course.

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Econometrics II MA ECON AM ECS ECONOMII UNIVERSITÄT BONN **Content and learning outcome** Content The course introduces students to advanced econometric methods, e.g. non- or semiparametric regression, bootstrap techniques, computationally intensive methods in a cross-section and/or time series context. Students acquire an expert understanding of advanced econometric procedures and of Learning outcome underlying theoretical reasoning. Using the advanced methods learned they should be able to solve methodological problems encountered in empirical work. **Teaching and learning methods** Language of **Group size** Contact Work Type of course/ **Topic** instruction time load learning methods [h] Lecture **Econometrics II** English 30 4 hours 60 Self-study 165 **Prerequisites** obligatory **Basic Module Econometrics** recommended Degree program allocation obligatory/ Semeste Study Program/Study Field/Module Number/Lecture Number elective r Economics, M.Sc. / Econometrics and Statistics; Economic Research / 2nd Elective 332125036 / 332025036 Export* / 332192536 / 332025036 Requirements for the awarding of credit points (ECTS) **Credits Prerequisites for** none participation 7,5 LP **Types of Assessment** Examination Written or oral exam or term paper (graded, 100%), English language Workload **Course Cycle Duration** Winter term Winter and 225 h 1 Term Summer term Summer term **Module coordination Teaching person** See https://basis.uni-bonn.de **Module coordinator** Prof. Dr. Alois Kneip Institute/Department **Department of Economics Further Information** Literature

^{*} export into other study programs is only possible if contract between faculties exists

Economics and Psychology MA ECON AM MAM ECOPSY



MA ECON AM MA	M EC	OPSY			UNIVERSITÄT <mark>BONN</mark>					
Content and lea	rning	outcome								
Content			ve discuss ps	ychological foundat	ions of economic be	havior an	d their			
		implications. Providing the economic model with a more realistic foundation is								
		important not only from a general research perspective, but also for improved								
	predictions and policy recommendations. We will discuss empirical regularities from									
			xperiments and field studies that violate the predictions of the standard model,							
				e the underlying int						
		·	nd assess the predictions of this new model. The course has a heavy emphasis on							
			sting the predictions of the model in the field and to assess the quantitative sportance of the behavioural features.							
		•			-f +h+	dal af ass				
Learning outcome	ì			est key implications mporal choice, choic						
				now to interpret dev						
		· ·	-	nd how these can be	•					
				ns in a variety of sett	_	cory. Tricy	wiii icai ii			
Teaching and lea	arnin		oc prediction	is in a variety or sett	831					
		Scm		Language of	Group size	Contac	t Work			
Type of course		Topic	•	instruction	Group size	time	load			
learning metho	ds	100.0	•	moer decion			[h]			
		Economic	s and	- 1.1	20					
Lecture		Psycholo	ogy	English	30	4 hours	s 60			
Self-study							165			
Prerequisites										
obligatory		none								
recommended		Basic Module M	licroeconom	ics						
Degree program	allo	cation								
Study Progra	m/Stı	udy Field/Module	Number/L	ecture Number	obligatory elective	/	Semeste r			
Economics, M.Sc.	/ Ecor	nomic Research; Management and Applied				3 rd				
Microeconomics /	3321	.23022 / 332023022 Elective			3					
Export* / 3321923	322 / 3	332023022								
Requirements for	or the	e awarding of cr	edit points	(ECTS)			Credits			
Prerequisites for		none								
participation		110116					7,5 LP			
Types of Assessm	ent			, , , , ,						
Examination		Written or oral exam or term paper (graded, 100%), English								
language Cycle				Workload	Du	totion				
Course Cycle				Workload	Dui	ration				
Winter term	х	Winter and		225 1		_				
Summer term		Summer term		225 h	1	Term				
Module coordin	ation									
	ation		is uni honn	40						
Teaching person		See https://basis.uni-bonn.de								
Module coordinator		Prof. Dr. Matthi								
Institute/Departn		Department of	Economics							
Further Informa	tion									
Literature		Literature:								
		There is no textbook for this course. Reading will be based exclusively on research								
		papers.								

papers.

* export into other study programs is only possible if contract between faculties exists

Economics of Contracts and Information MA ECON AM MIT ECOCONIN UNIVERSITÄT BONN **Content and learning outcome** Content Markets with asymmetric information, Signalling, Screening, Contracting under moral hazard and asymmetric information, Non-linear pricing, auctions. Learning outcome Students study the impact of asymmetric information on market outcomes. They learn to apply game theoretic tools to understand contracts and institutions as optimal outcomes under asymmetric information. **Teaching and learning methods** Work Language of **Group size** Contact Type of course/ **Topic** instruction time load learning methods [h] **Economics of Contract** Lecture **English** 30 4 hours 60 and Information Self-study 165 **Prerequisites** obligatory none recommended **Basic Module Microeconomics** Degree program allocation obligatory/ Semeste Study Program/Study Field/Module Number/Lecture Number elective 2nd Economics, M.Sc. / Microeconomic Theory / 332121008 / 332021008 Elective Export* / 332192108 / 332021008 Requirements for the awarding of credit points (ECTS) **Credits Prerequisites for** none participation 7,5 LP **Types of Assessment** Examination Written or oral exam or term paper (graded, 100%), English language **Course Cycle** Workload **Duration** Winter term Winter and 225 h 1 Term Summer term Summer term **Module coordination Teaching person** See https://basis.uni-bonn.de Module coordinator Prof. Dr. Dezsö Szalay Institute/Department **Department of Economics Further Information** Literature Literature:

The recommended literature will be announced at the beginning of the course.

^{*} export into other study programs is only possible if contract between faculties exists

Effective Programming Practices for Economists MA ECON AM ECS EFFPROPE UNIVERSITÄT BONN **Content and learning outcome** Content This course introduces students to software development methods that will substantially reduce their time spent programming while at the same time making their programs more dependable and their results reproducible without extra effort. The course draws extensively on some simple techniques that are the backbone of modern software development, which most economists are simply not aware of. It shows the usefulness of these techniques for a wide variety of economic and econometric applications by means of hands on examples. Learning outcome Students acquire the programming and software development skills required to manage complex research projects and to make the results reproducible. **Teaching and learning methods** Contact Work Language of **Group size** Type of course/ instruction time **Topic** load learning methods [h] **Effective Programming** English 30 4 hours 60 Lecture **Practices for Economists** Self-study 165 **Prerequisites** obligatory none **Basic Module Econometrics** recommended Degree program allocation obligatory/ Semeste Study Program/Study Field/Module Number/Lecture Number elective Economics, M.Sc. / Econometrics and Statistics; Economic 2nd Elective Research; Management and Applied Microeconomics / 332123026 / 332023026 Export* / 332192326 / 332023026 Requirements for the awarding of credit points (ECTS) **Credits Prerequisites for** none participation 7,5 LP **Types of Assessment Examination** Written or oral exam or term paper (graded, 100%), English language Workload **Duration Course Cycle** Winter term Х Winter and 225 h 1 Term Summer term Summer term **Module coordination Teaching person** See https://basis.uni-bonn.de Module coordinator Prof. Dr. Alois Kneip Institute/Department **Department of Economics Further Information** Literature

^{*} export into other study programs is only possible if contract between faculties exists

Empirical Banking and Finance



MA ECON AM FIE EMPBF				UNIVERSITÄT BONN					
Content and lea	rning	outcome							
Content and lea									
		lectures, studen finance and grow differences estir Zingales (1998). stand how they During the tutor Stata. Student p 2-3 students) re discussed in clasempirical results	lectures, students are introduced to commonly used (micro-) econometric methods: finance and growth in the cross-section, panel methods/ fixed effects, differences-indifferences estimation, instrumental variables estimation, the method by Rajan and Zingales (1998). The goal is to get an intuitive grasp of these methods and to understand how they help to identify causal effects. During the tutorials, students learn how to implement the methods using the software Stata. Student presentations are integrated into the lectures. Each student (or team of 2-3 students) receives an empirical journal article, which is to be presented and discussed in class (research question, identification strategy, interpretation of empirical results, critical assessment of the paper, etc.).						
Learning outcome		and how to critic the research que size of the bank	cally assess estion whet	ometric methods us empirical research a her bank activities ar matter for the real e	rticles. The course's nd financial develop	main focu	ıs is on		
Teaching and lea	arnin	g methods			1				
Type of course learning metho		Торіс		Language of instruction	Group size	t Work load [h]			
Lecture		Empirical Ban Financ	_	English	30	4 hours	60		
Self-study							165		
Prerequisites						•	•		
obligatory		none							
recommended			ne contents	of the module "Math	nematics for Econon	nists"			
Degree program	allo	cation							
Study Progra	m/Stı	udy Field/Module	Number/Le	ecture Number	obligatory, elective	/	Semeste r		
332124030 / 3320	2403	0	rch;Financial Economics /			Elective			
Export* / 3321924	130 / 3	332024030							
Requirements for	or the	e awarding of cr	edit points	(ECTS)			Credits		
Prerequisites for participation		none			7,5 LP				
Types of Assessment Examination language		Written or oral exam or term paper (graded, 100%), English							
Course Cycle				Workload	Dur	ration			
Winter term Winter and Summer term				225 h	11	Гегт			
Summer term	Х								

Module coordination	Module coordination					
Teaching person	See https://basis.uni-bonn.de					
Module coordinator	Prof. Dr. Hendrik Hakenes					
Institute/Department	Department of Economics					
Further Information						
Literature Literature: Main textbook: "Introductory Econometrics – A Modern Approach" by Jeff Wooldridge. Further, the course is based on several journal articles in the second banking and finance which will be provided in due course.						

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Game Theory MA ECON AM MIT GAMETHEO UNIVERSITÄT BONN **Content and learning outcome** Content The course will cover recent topics and advances in game theory. It will focus on a topical theme in game theory and will cover recent development in this field. The course will emphasize the relevance to economic problems and the methods and techniques used in the current literature. The successful student will learn to read advanced text, understand and critically ques-**Learning outcome** tion the modelling used in recent game theoretic papers, and will be able to follow and apply the techniques and the methods used in these papers. **Teaching and learning methods** Language of **Group size** Contact Work Type of course/ Topic instruction time load learning methods [h] Lecture **Game Theory** English 30 4 hours 60 Self-study 165 **Prerequisites** obligatory recommended **Basic Module Microeconomics** Degree program allocation obligatory/ Semeste Study Program/Study Field/Module Number/Lecture Number elective 2nd Economics, M.Sc. / Microeconomic Theory / 332121003 / 332021003 Elective Export* / 332192103 / 332021003 Requirements for the awarding of credit points (ECTS) **Credits Prerequisites for** none participation 7,5 LP **Types of Assessment** Examination Written or oral exam or term paper (graded, 100%), English language Workload **Course Cycle** Duration Winter term Winter and 225 h 1 Term Summer term Summer term **Module coordination Teaching person** See https://basis.uni-bonn.de **Module coordinator** Prof. Dr. Dezsö Szalay Institute/Department **Department of Economics Further Information** Literature Literature: The recommended literature will be announced at the beginning of the course.

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Growth and Development Economics MA ECON AM MPE GRODEC UNIVERSITÄT BONN Content and learning outcome Content This module starts with a broad overview about Economic Growth by documenting the staggering differences between (and within) countries and covering some of the theories that have been proposed to explain them. Further on the module focusses on smaller (but equally important) questions about nutrition, health, education and population. Methods used in modern empirical research will be explained. Lastly, some of the recent advances in the novel field of historical development will be presented. This course serves as an advanced introduction to the fields of economic growth, Learning outcome development economics and economic history. The idea is that students learn about the fundamental paradigms and schools of thought of economics development and that they are able to think critically and proactively about issues of economic growth and development. **Teaching and learning methods** Language of **Group size** Contact Work Type of course/ Topic instruction time load learning methods [h] Growth and Lecture English 30 4 hours 60 **Development Economics** Self-study 165 **Prerequisites** obligatory none recommended A good working knowledge of calculus, statistics and econometrics is recommended. Degree program allocation obligatory/ Semeste Study Program/Study Field/Module Number/Lecture Number elective r Economics, M.Sc. / Macroeconomics and Public Economics / 332122020 2nd Elective / 332022020 Export* / 332192220 / 332022020 Requirements for the awarding of credit points (ECTS) **Credits Prerequisites for** none 7,5 LP participation **Types of Assessment Examination** Written or oral exam or term paper (graded, 100%), English language **Course Cycle** Workload **Duration** Winter term Winter and 225 h 1 Term Summer term Summer term **Module coordination Teaching person** See https://basis.uni-bonn.de Module coordinator Prof. Dr. Christian Bayer Institute/Department **Department of Economics Further Information** Literature Literature: • Ray, Debraj. Development Economics. Princeton University Press, 1998. (DE) • Banerjee, Abhijit and Esther Duflo. Poor Economics: A radical rethinking of the way to fight global poverty. Public Affairs, 2011. (PE) • More advanced and specific articles that serve as complementary reading will be

posted as we go along.

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Industrial Organization MA ECON AM MAM INDORG UNIVERSITÄT BONN **Content and learning outcome** Content The first part of the course presents models in industrial organization (IO) that aim at explaining firm behaviour in different strategic environments. Within the context of static and dynamic oligopoly models, standard tools of theoretical IO are taught and some key theoretical results are confronted with empirical evidence. The second part of the course will focus on selected topics such as mergers, collusion or predatory Students become acquainted with basic tools and selected topics in modern industrial **Learning outcome** organization. In particular, they learn how to (i) apply key theoretical ideas and important formal techniques to selected questions, (ii) link theory to empirical work, and (iii) relate theoretical results to policy issues. **Teaching and learning methods** Work Language of **Group size** Contact Type of course/ **Topic** instruction time load learning methods [h] **Industrial Organization English** 30 Lecture 4 hours 60 Self-study 165 **Prerequisites** obligatory none **Basic Module Microeconomics** recommended Degree program allocation obligatory/ Semeste Study Program/Study Field/Module Number/Lecture Number elective Economics, M.Sc. / Management and Applied Microeconomics / Elective 2nd 332123016 / 332023016 Export* / 332192316 / 332023016 Requirements for the awarding of credit points (ECTS) **Credits Prerequisites for** none participation 7,5 LP **Types of Assessment Examination** Written or oral exam or term paper (graded, 100%), English language **Course Cycle** Workload **Duration** Winter term Winter and 225 h 1 Term Summer term Summer term **Module coordination Teaching person** See https://basis.uni-bonn.de **Module coordinator** Prof. Dr. Matthias Kräkel Institute/Department **Department of Economics Further Information** Literature The recommended literature will be announced at the beginning of the course.

 $[^]st$ export into other study programs is only possible if contract between faculties exists

Information and Dynamic Incentives MA ECON AM MIT INFODIN UNIVERSITÄT BONN **Content and learning outcome** Content Dynamic models of signaling and communication; models of repeated contracting under moral hazard and adverse selection with and without commitment. **Learning outcome** Students study the impact of asymmetric information on market and contracting outcomes in dynamic environments. They learn to apply game theoretic tools to understand contracts and institutions as optimal outcomes under asymmetric information. **Teaching and learning methods** Language of **Group size** Contact Work Type of course/ **Topic** instruction time load learning methods [h] Information and **English** 30 4 hours Lecture 60 **Dynamic Incentives** Self-study 165 **Prerequisites** obligatory recommended **Basic Module Microeconomics** Degree program allocation obligatory/ Semeste Study Program/Study Field/Module Number/Lecture Number elective 3rdEconomics, M.Sc. / Microeconomic Theory / 332121012 / 332021012 Elective Requirements for the awarding of credit points (ECTS) **Credits Prerequisites for** none participation 7,5 LP **Types of Assessment** Examination Written or oral exam or term paper (graded, 100%), English language Workload **Course Cycle Duration** Winter term Х Winter and 225 h 1 Term Summer term Summer term **Module coordination Teaching person** See https://basis.uni-bonn.de **Module coordinator** Prof. Dr. Dezsö Szalay Institute/Department **Department of Economics Further Information** Literature

Literature:

The recommended literature will be announced at the beginning of the course

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Institutional Economics MA ECON AM MAM INSTECON UNIVERSITÄT BONN Content and learning outcome Content In this course, the methods of contract theory are applied to the economic analysis of institutions. In this context, the course covers the analysis of moral hazard and adverse selection models as well as hold-up problems and the optimal allocation of property Learning outcome The students learn to analyze formal institutions from an economic point of view, taking the prevailing information structures into account. In particular, they investigate strategic interaction and they compare incentive structures arising from different institutions. **Teaching and learning methods** Work Contact Language of **Group size** Type of course/ **Topic** instruction time load learning methods [h] Lecture **Institutional Economics** English 30 4 hours 60 165 Self-study **Prerequisites** obligatory recommended The basic module Microeconomics is strongly recommended. Degree program allocation obligatory/ Semeste Study Program/Study Field/Module Number/Lecture Number elective r Economics, M.Sc. / Management and Applied Microeconomics / 2nd Elective 332123018 / 332023018 Export* / 332192318 / 332023018 Requirements for the awarding of credit points (ECTS) **Credits Prerequisites for** none participation 7,5 LP **Types of Assessment Examination** Written or oral exam or term paper (graded, 100%), English language **Course Cycle** Workload **Duration** Winter term Winter and 225 h 1 Term Summer term Summer term **Module coordination** See https://basis.uni-bonn.de **Teaching person Module coordinator** Prof. Dr. Matthias Kräkel Institute/Department **Department of Economics Further Information** Literature Literature: The recommended literature will be announced at the beginning of the course.

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International Economics and Finance



		onomics and Finance							
MA ECON AM MPE	E INTE	ECON		UNIVERSI ⁻	TÄT <mark>BON</mark>	N			
Content and lear	rning	outcome							
International macroeconomics and finance is concerned with international linkages through trade in goods/services and through financial markets. This course aims at providing the basis for understanding the role of shocks and frictions in shaping fluctuations in the open economy. And to understand policy options. Towards this end, the course discusses stylized facts of fluctuations in open economic lt, then, introduces the workhorse models and how different shocks and frictions may shape the business cycle in the open economy. With nominal rigidities, there will be a						ims at ng conomies ions may will be a			
Learning outcome	!	discussing the effect of the Students acquire skills for so arise in international econo	le to the monetary policy regime and the nominal exchange rate. This allows scussing the effect of the monetary and fiscal policy mix for fluctuations. udents acquire skills for solving dynamic optimization problems as they frequently ise in international economics and finance. In addition, applications to topical issues international economics and finance are discussed. Students also learn to solve						
		numerical and/or empirical	exercises using stand	dard software packa	ages.				
Teaching and lea	arnin	g methods							
Type of course, learning method		Торіс	Language of instruction	Group size	Contac time	t Work load [h]			
Lecture		International Economics and Finance	English	30	4 hour	s 60			
Self-study						165			
Prerequisites									
obligatory		none							
recommended		Basic Module Macroeconon	nics						
Degree program	allo	cation							
Study Program	m/Stu	ıdy Field/Module Number/Le	ecture Number	obligatory, elective	/	Semeste r			
Economics, M.Sc. , / 332022010	/ Mac	roeconomics and Public Econ	omics / 332122010	Elective		2 nd			
	r the	awarding of credit points	(ECTS)			Credits			
Prerequisites for participation		none							
Types of Assessme Examination language	ent	Written or oral exam or terr	n paper (graded, 10	0%), English					
Course Cycle			Workload	Dur	ation				
Winter term		Winter and	225 h	1 Term					
Summer term	х	Summer term							
Module coordina	ation								
Teaching person		See https://basis.uni-bonn.o	de						
		Prof. Dr. Christian Bayer							
Institute/Departm		Department of Economics							
Further Informat	tion								
Literature			peconomics and in So	estfeld and K. Rogoff (1996): Founda- chmitt-Grohé and Uribe (2017): open					

economy macroeconomics; or comparable sources.

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Labor Economics MA ECON AM MAM LABECON UNIVERSITÄT BONN Content and learning outcome Content The course sheds light on the employment decisions from the perspective of the firm and the worker. Examples of topics include neoclassical model of labor supply model, labor demand, wages and employment determination with reference to labor market institutions (e.g. minimum wages, unemployment insurance, employment protection), search and matching theory, human capital theory, and the design of incentive schemes. There will be an emphasis on the interaction between theoretical and empirical modeling. Insights from state-of-the art empirical work will be discussed alongside theory. Learning outcome Students will gain a solid knowledge of labor economics and acquire an up-to-date understanding of the functioning of labor markets. Students will become competent to critically evaluate economic theory in light of empirical evidence. **Teaching and learning methods** Language of **Group size** Contact Work Type of course/ **Topic** instruction time load learning methods [h] Lecture **Labor Economics English** 30 4 hours 60 Self-study 165 **Prerequisites** obligatory none recommended **Basic Module Microeconomics** Degree program allocation obligatory/ Semeste Study Program/Study Field/Module Number/Lecture Number elective r Economics, M.Sc. / Macroeconomics and Public 2nd Economics; Management and Applied Microeconomics / 332123027 / Elective 332023027 Export* / 332192327 / 332023027 Requirements for the awarding of credit points (ECTS) **Credits Prerequisites for** none participation 7,5 LP **Types of Assessment Examination** Written or oral exam or term paper (graded, 100%), English language Workload **Duration Course Cycle** Winter term Winter and 225 h 1 Term Summer term Summer term **Module coordination** See https://basis.uni-bonn.de **Teaching person** Prof. Dr. Matthias Kräkel Module coordinator Institute/Department **Department of Economics Further Information** Literature Literature: The recommended literature will be announced at the beginning of the course.

 $[^]st$ export into other study programs is only possible if contract between faculties exists

Macroeconomics II MA ECON AM MPE MACROII UNIVERSITÄT BONN Content and learning outcome Content The plan is to cover consumption-saving theory in standard incomplete markets models and in models with endogenously incomplete markets. The course will cover both infinite horizon and overlapping generation models. In addition, the course covers investment decisions of firms and topics on labor markets and income dynamics. Learning outcome The course aims at providing students with the state-of-the-art methods to answer questions from different fields in macroeconomics. The course will introduce several widely used modelling frameworks and introduces students to the analysis of these frameworks. The goal is that students at the end of the course can perform independent analysis of macroeconomic questions using the theoretical frameworks and methods from the course. **Teaching and learning methods** Work Language of **Group size** Contact Type of course/ **Topic** instruction time load learning methods [h] **English** 30 Lecture Macroeconomics II 4 hours 60 Self-study 165 **Prerequisites** obligatory **Basic Module Macroeconomics** recommended Degree program allocation obligatory/ Semeste Study Program/Study Field/Module Number/Lecture Number elective Economics, M.Sc. / Economic Research; Macroeconomics and Public Elective 2nd Economics / 332122018 / 332022018 Export* / 332192218 / 332022018 Requirements for the awarding of credit points (ECTS) **Credits Prerequisites for** none participation 7,5 LP **Types of Assessment Examination** Written exam (graded, 100%), English language **Course Cycle** Workload Duration Winter term Winter and 225 h 1 Term Summer term Summer term **Module coordination Teaching person** See https://basis.uni-bonn.de **Module coordinator** Prof. Dr. Christian Bayer Institute/Department **Department of Economics Further Information** Literature Literature: The recommended literature will be announced at the beginning of the course.

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Managerial Accounting MA ECON AM MAM MANACC UNIVERSITÄT BONN **Content and learning outcome** Content This course analyzes the use of information in firms. Special emphasis is placed on the coordination of decisions in decentralized organizations. The course covers information systems as well as instruments of coordination. Theoretical concepts are derived and then used to evaluate the potential of management control systems. Learning outcome The students learn the economic effects arising from the use of information systems in firms. It enables them to assess information sources and arrangements with respect to their opportunities and drawbacks under different operational and organizational structures. **Teaching and learning methods** Work Contact Language of **Group size** Type of course/ instruction **Topic** time load learning methods [h] Lecture Managerial Accounting English 30 4 hours 60 165 Self-study **Prerequisites** obligatory recommended **Basic Module Microeconomics** Degree program allocation obligatory/ Semeste Study Program/Study Field/Module Number/Lecture Number elective r Economics, M.Sc. / Management and Applied Microeconomics / **3**rd Elective 332123015 / 332023015 Export* / 332192315 / 332023015 Requirements for the awarding of credit points (ECTS) **Credits Prerequisites for** none participation 7,5 LP **Types of Assessment Examination** Written or oral exam or term paper (graded, 100%), English language **Course Cycle** Workload **Duration** Winter term Х Winter and 225 h 1 Term Summer term Summer term **Module coordination** See https://basis.uni-bonn.de **Teaching person** Prof. Dr. Matthias Kräkel **Module coordinator** Institute/Department **Department of Economics Further Information** Literature Literature: The recommended literature will be announced at the beginning of the course.

^{*} export into other study programs is only possible if contract between faculties exists

Mechanism Design and Social Choice MA ECON AM MIT MEDSOCC



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Content and lea	rning	outcome							
Content		This course presents a thorough treatment of mechanism design and contract theory by highlighting the common themes and methodologies that unite the field. The main topics covered are hidden information models, hidden action models and incomplete contracts.							
Learning outcome		The course aims at providing its participants with the methodological competence to understand and critically evaluate current research in mechanism design and contract theory. It thus complements other courses which cover similar ground from a more applied perspective.							
Teaching and lea	arnin	g methods							
Type of course learning metho		Торіс		Language of instruction	Group size Contactime		Work load [h]		
Lecture		Mechanism and Social (_	English	30	4 hours	60		
Self-study						165			
Prerequisites		1							
obligatory		none							
recommended		Basic Module M	licroeconom	nics					
Degree program	allo	cation							
Study Program/Study Field/Module Number/Lecture Number obligatory/ elective									
Study Progra	m/Stı	udy Field/Module	Number/Le	ecture Number		/ 9	Semeste r		
Economics, M.Sc.	/ Mic	roeconomic Theo				/ !			
	/ Mic	roeconomic Theo			elective	/ 5	r		
Economics, M.Sc. Export* / 3321921	/ Mic	roeconomic Theo 332021007	ry / 332121(007 / 332021007	elective		r 3 rd		
Economics, M.Sc., Export* / 3321921	/ Mic	roeconomic Theo 332021007	ry / 332121(007 / 332021007	elective		r		
Economics, M.Sc., Export* / 3321921 Requirements for Prerequisites for	/ Mic	roeconomic Theo 332021007	ry / 332121(007 / 332021007	elective		r 3 rd Credits		
Economics, M.Sc., Export* / 3321921	/ Mic	roeconomic Theo 332021007 e awarding of cr	ry / 3321210 redit points	007 / 332021007	elective Elective		r 3 rd		
Economics, M.Sc., Export* / 3321921 Requirements for Prerequisites for participation Types of Assessment Examination	/ Mic	roeconomic Theo 332021007 e awarding of cr	ry / 3321210 redit points	007 / 332021007 is (ECTS)	elective Elective		r 3 rd Credits		
Economics, M.Sc., Export* / 3321921 Requirements for Prerequisites for participation Types of Assessment Examination language Course Cycle Winter term	/ Mic	roeconomic Theo 332021007 e awarding of cr	ry / 3321210 redit points	007 / 332021007 (ECTS) m paper (graded, 10	elective Elective 0%), English Dur		r 3 rd Credits		
Economics, M.Sc., Export* / 3321921 Requirements for Prerequisites for participation Types of Assessmet Examination language Course Cycle Winter term Summer term	/ Miccor the	roeconomic Theo 332021007 e awarding of cr none Written or oral Winter and Summer term	ry / 3321210 redit points	007 / 332021007 (ECTS) m paper (graded, 10 Workload	elective Elective 0%), English Dur	ration	r 3 rd Credits		
Economics, M.Sc., Export* / 3321921 Requirements for Prerequisites for participation Types of Assessment Examination language Course Cycle Winter term Summer term Module coordination	/ Miccor the	roeconomic Theo 332021007 e awarding of cr none Written or oral Winter and Summer term	ry / 3321210 redit points	007 / 332021007 (ECTS) m paper (graded, 10 Workload 225 h	elective Elective 0%), English Dur	ration	r 3 rd Credits		
Economics, M.Sc., Export* / 3321921 Requirements for Prerequisites for participation Types of Assessme Examination language Course Cycle Winter term Summer term Module coordin Teaching person	/ Micror the	roeconomic Theo 332021007 e awarding of cr none Written or oral Winter and Summer term See https://bas	ry / 3321210 redit points exam or terr	007 / 332021007 (ECTS) m paper (graded, 10 Workload 225 h	elective Elective 0%), English Dur	ration	r 3 rd Credits		
Economics, M.Sc., Export* / 3321921 Requirements for Prerequisites for participation Types of Assessme Examination language Course Cycle Winter term Summer term Module coordin Teaching person Module coordinate	/ Miccor the	roeconomic Theo 332021007 e awarding of cr none Written or oral Winter and Summer term See https://bas Prof. Dr. Dezsö	ry / 3321210 redit points exam or terr exam or terr is.uni-bonn.o	007 / 332021007 (ECTS) m paper (graded, 10 Workload 225 h	elective Elective 0%), English Dur	ration	r 3 rd Credits		
Economics, M.Sc., Export* / 3321921 Requirements for Prerequisites for participation Types of Assessme Examination language Course Cycle Winter term Summer term Module coordinate Institute/Departments Module Coordinate Institute/Departments Examination language Course Cycle Winter term	/ Miccor the	roeconomic Theo 332021007 e awarding of cr none Written or oral Winter and Summer term See https://bas	ry / 3321210 redit points exam or terr exam or terr is.uni-bonn.o	007 / 332021007 (ECTS) m paper (graded, 10 Workload 225 h	elective Elective 0%), English Dur	ration	r 3 rd Credits		
Economics, M.Sc., Export* / 3321921 Requirements for Prerequisites for participation Types of Assessme Examination language Course Cycle Winter term Summer term Module coordin Teaching person Module coordinate	/ Miccor the	roeconomic Theo 332021007 e awarding of cr none Written or oral Winter and Summer term See https://bas Prof. Dr. Dezsö	ry / 3321210 redit points exam or terr exam or terr is.uni-bonn.o	007 / 332021007 (ECTS) m paper (graded, 10 Workload 225 h	elective Elective 0%), English Dur	ration	r 3 rd Credits		

The recommended literature will be announced at the beginning of the course.

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Microeconometrics MA ECON AM ECS MICROEC UNIVERSITÄT BONN **Content and learning outcome** Content The course deals with methods that are commonly used in the analysis of microeconomic datasets, including methods to deal with discrete and limiteddependent variables, discrete choice models, censored regression, models for selfselection, models for duration data and panel data. The emphasis is on the specification, estimation, interpretation, and testing of microeconometric models rather than a rigorous treatment of the asymptotic properties of estimators. Students are provided with a broad encyclopaedic knowledge of methods for the Learning outcome analysis of microeconomic data and to let him/her obtain an active command of the mathematical and computational aspects of the various methods. **Teaching and learning methods** Language of Contact Work **Group size** Type of course/ instruction time load **Topic** learning methods [h] Lecture Microeconometrics English 30 4 hours 60 Self-study 165 **Prerequisites** obligatory **Basic Module Econometrics** recommended Degree program allocation obligatory/ Semeste Study Program/Study Field/Module Number/Lecture Number elective r Economics, M.Sc. / Econometrics and Statistics / 332125027 / 2nd Elective 332025027 Export* / 332192527 / 332025027 Requirements for the awarding of credit points (ECTS) **Credits Prerequisites for** none participation 7,5 LP **Types of Assessment Examination** Written or oral exam or term paper (graded, 100%), English language Workload **Duration Course Cycle** Winter term Winter and 225 h 1 Term Summer term Summer term **Module coordination Teaching person** See https://basis.uni-bonn.de Module coordinator Prof. Dr. Alois Kneip Institute/Department **Department of Economics Further Information** Literature

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Microeconomics II MA ECON AM MIT MICROII UNIVERSITÄT BONN **Content and learning outcome** Content The course covers the core topics in microeconomic theory. It includes the fundamentals of information in economics, social choice and mechanism design. The lecture provides a rigorous foundation for common modeling techniques and solutions concepts, and gives an introduction to their applications. Learning outcome The course aims to expose the students to the basic paradigms of modern microeconomics, on an advanced formal level. Another important goal is the exposure to a vari-ety of modeling techniques that will be often used in subsequent courses. **Teaching and learning methods** Language of **Group size** Contact Work Type of course/ Topic instruction time load learning methods [h] Lecture Microeconomics II English 30 4 hours 60 Self-study 165 **Prerequisites** obligatory **Basic Module Microeconomics** recommended Degree program allocation obligatory/ Semeste Study Program/Study Field/Module Number/Lecture Number elective Economics, M.Sc. / Economic Research; Microeconomic Theory / 2nd **Flective** 332121010 / 332021010 Export* / 332192110 / 332021010 Requirements for the awarding of credit points (ECTS) **Credits Prerequisites for** none participation 7,5 LP **Types of Assessment Examination** Written or oral exam or term paper (graded, 100%), English language Workload **Duration Course Cycle** Winter term Winter and 225 h 1 Term Summer term Summer term **Module coordination Teaching person** See https://basis.uni-bonn.de **Module coordinator** Prof. Dr. Dezsö Szalay Institute/Department **Department of Economics Further Information** Literature Literature: The recommended literature will be announced at the beginning of the course.

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Monetary Economics MA ECON AM MPE MONEC UNIVERSITÄT BONN Content and learning outcome Content The course will analyze monetary economics within the class of dynamic general equilibrium models. First, conditions under which money has real effects are identified. Second, optimal policy is discussed. Further topics cover the interaction of monetary and fiscal policy, empirical findings, and the influence of the financial sector. Learning outcome Students will be familiar with the methods and concepts necessary to understand monetary economics and policy. Analyzing monetary policy quantitively using value function iteration, Ramsey optimal policy, linearization techniques of DSGE models **Teaching and learning methods** Language of **Group size** Contact Work Type of course/ Topic instruction time load learning methods [h] Lecture **Monetary Economics** English 30 4 hours 60 Self-study 165 **Prerequisites** obligatory recommended **Basic Module Macroeconomics** Degree program allocation obligatory/ Semeste Study Program/Study Field/Module Number/Lecture Number elective Economics, M.Sc. / Financial Economics; Macroeconomics and Public 2nd **Flective** Economics / 332122011 / 332022011 Export* / 332192211 / 332022011 Requirements for the awarding of credit points (ECTS) **Credits Prerequisites for** none participation 7,5 LP **Types of Assessment Examination** Written or oral exam or term paper (graded, 100%), English language Workload **Duration Course Cycle** Winter term Х Winter and 225 h 1 Term Summer term Summer term **Module coordination Teaching person** See https://basis.uni-bonn.de **Module coordinator** Prof. Dr. Christian Bayer Institute/Department **Department of Economics Further Information** Literature Literature:

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Option Pricing MA ECON AM FIE OPTPR UNIVERSITÄT BONN Content and learning outcome Content The course presents the pricing and hedging of options in the continuous time model by Black and Scholes. The model dependency of the perfect duplication strategy and its applications to risk management will be discussed. This includes a discussion of the differences between dynamic hedging strategies and static or robust hedging. Beside standard options the pricing of more complex financial contracts will be analysed. Numerical approximations like the Monte Carlo method will be applied to these contracts. Learning outcome The course aims to provide students with an understanding of the Black and Scholes option pricing model. It enables them to recognize the significant role of risk neutral pricing as the basis of modern option pricing theory. Students learn to apply the technique including numerical methods of risk neutral pricing to nonstandard financial products and to review the hedging strategies with respect to the risk management of **Teaching and learning methods** Work Language of **Group size** Contact Type of course/ Topic instruction time load learning methods [h] **Option Pricing English** 4 hours Lecture 30 60 Self-study 165 **Prerequisites** obligatory recommended **Basic Module Finance** Degree program allocation obligatory/ Semeste Study Program/Study Field/Module Number/Lecture Number elective Economics, M.Sc. / Financial Economics / 332124023 / 332024023 2nd Elective Export* / 332192423 / 332024023 Requirements for the awarding of credit points (ECTS) **Credits Prerequisites for** none 7,5 LP participation **Types of Assessment Examination** Written or oral exam or term paper (graded, 100%), English language Workload **Course Cycle Duration** Winter term Winter and 225 h 1 Term Summer term Summer term **Module coordination** See https://basis.uni-bonn.de **Teaching person** Module coordinator Prof. Dr. Hendrik Hakenes Institute/Department **Department of Economics Further Information** Literature The recommended literature will be announced at the beginning of the course.

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OSE Scientific Computing for Economists



OSE Scientifi	c Co	mputing for	Econom	ists				
MA AM OSE					UNIVERSITÄT <mark>BONN</mark>			
Content and lea	rning	outcome						
Content		The sound analysis of computational economic models requires expertise in economics, statistics, numerical methods, and software engineering. The module provides first an overview of basic numerical methods for optimization, numerical integration, approximation methods, and uncertainty quantification. Then deepens the understanding of each of these topics in the context of a dynamic model of human capital accumula-tion using respy. Finally concludes by showcasing basic software engineering practices such as the design of a collaborative and reproducible development workflow, auto-mated testing, and high-performance computing.						
Learning outcome		Students learn how to use Python for advanced scientific computing. They acquire a toolkit of numerical methods frequently needed for the analysis of computational economic models, obtain an overview of basic software engineering tools such as GitHub and pytest, and are exposed to high-performance computing using multiprocessing and mpi4py.						
Teaching and lea	arnin	g methods						
Type of course learning methor		Торіс	c	Language of instruction	Group size	time	: Work load [h]	
Lecture		OSE Scientific (for Econo		English	30	4 hours	60	
Self-study					165			
Prerequisites		I.			<u>'</u>	•	,	
obligatory		none						
recommended								
Degree program	allo	cation						
Study Program/Study Field/Module Number/Lecture Number obligatory/ elective					/	Semeste r		
Economics, M.Sc. / Econometrics and Statistics; Management and Applied Microeconomics / 332123029 / 332023029 Export* / 332192329 / 332023029							3 rd	
Requirements for	or the	awarding of ci	redit points	(ECTS)			Credits	
Requirements for the awarding of credit points (ECTS) Prerequisites for participation			,			7,5 LP		
Types of Assessment Examination language		Written or oral exam or term paper (graded, 100			0%), English		,	
Course Cycle				Workload	Duration			
Winter term	х	Winter and		225 h	1 Term			
Summer term		Summer term 2 10000						

Module coordination						
Teaching person	See https://basis.uni-bonn.de					
Module coordinator	Prof. Dr. Matthias Kräkel					
Institute/Department	ent Department of Economics					
Further Information						
Literature	 Literature: Ken Judd. Numerical methods in economics. MIT University Press, Cambridge, MA, 2013. Hans Petter Langtangen. A primer on scientific programming with Python. Springer, Heidelberg, Germany, 2016. 					

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Personnel Economics MA ECON AM MAM PERSECON UNIVERSITÄT BONN Content and learning outcome Content From the view of personnel economics, efficiency of the firm can be enhanced by providing appropriate incentives, by matching employees to positions they fit and by investments in human capital. This course deals with advanced wage theories and it addresses employees' motivation. In addition, it covers career theoretical aspects pertinent to the allocation of employees within the firm. Learning outcome The Students obtain an understanding of (1) how employees react to an employer's personnel politics and (2) how an employer should choose his personnel politics in order to generate efficient incentives and an efficient internal allocation of employees. Students also learn to analyze and critically discuss empirical findings of both field and experimental studies. **Teaching and learning methods** Work Language of **Group size** Contact Type of course/ **Topic** instruction time load learning methods [h] **English** 30 Lecture **Personnel Economics** 4 hours 60 Self-study 165 **Prerequisites** obligatory none **Basic Module Microeconomics** recommended Degree program allocation obligatory/ Semeste Study Program/Study Field/Module Number/Lecture Number elective Economics, M.Sc. / Management and Applied Microeconomics / Elective 3rd332123014 / 332023014 Export* / 332192314 / 332023014 Requirements for the awarding of credit points (ECTS) **Credits Prerequisites for** none participation 7,5 LP **Types of Assessment Examination** Written or oral exam or term paper (graded, 100%), English language **Course Cycle** Workload Duration Winter term Winter and 225 h 1 Term Summer term Summer term **Module coordination Teaching person** See https://basis.uni-bonn.de **Module coordinator** Prof. Dr. Matthias Kräkel Department of Economics Institute/Department **Further Information** Literature Literature: The recommended literature will be announced at the beginning of the course.

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Probability Theory MA ECON AM ECS PROBTHEO UNIVERSITÄT BONN Content and learning outcome The course introduces to the mathematical theory of probability such as integration, Content probability measures, random variables, expectations, concepts of convergence and limit theorems. Students get acquainted with modern concepts and tools of probability. They obtain a Learning outcome rigorous basis for understanding and applying current research in statistics and probability theory. **Teaching and learning methods** Language of **Group size** Contact Work Type of course/ **Topic** instruction time load learning methods [h] Lecture **Probability Theory** English 30 4 hours 60 Self-study 165 **Prerequisites** obligatory none recommended **Basic Module Econometrics** Degree program allocation obligatory/ Semeste Study Program/Study Field/Module Number/Lecture Number elective r Economics, M.Sc. / Econometrics and Statistics / 332125032 / 2nd Elective 332025032 Requirements for the awarding of credit points (ECTS) **Credits Prerequisites for** none participation 7,5 LP **Types of Assessment** Examination Written or oral exam or term paper (graded, 100%), English language Workload **Course Cycle Duration** Winter term Winter and 225 h 1 Term Summer term Summer term **Module coordination Teaching person** See https://basis.uni-bonn.de **Module coordinator** Prof. Dr. Alois Kneip Institute/Department **Department of Economics Further Information** Literature

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Public Economics MA ECON AM MPE PUBECON UNIVERSITÄT BONN **Content and learning outcome** Content This course offers a modern analysis of the economics of the public sector. Topics include the theory and practice of taxation, government debt and sovereign default as well as issues in social security and health economics. The students acquire solid knowledge of the quantitative methods and models for the Learning outcome analysis of public policies. They become familiar with the current state of research and learn the tools and techniques necessary for conducting their own research in this area. **Teaching and learning methods** Language of **Group size** Contact Work Type of course/ Topic instruction time load learning methods [h] Lecture **Public Economics** English 30 4 hours 60 Self-study 165 **Prerequisites** obligatory recommended A solid background in macroeconomics is recommended. Degree program allocation obligatory/ Semeste Study Program/Study Field/Module Number/Lecture Number elective Economics, M.Sc. / Macroeconomics and Public Economics / 332122019 Flective 2nd / 332022019 Export* / 332192219 / 332022019 Requirements for the awarding of credit points (ECTS) **Credits Prerequisites for** none participation 7,5 LP **Types of Assessment Examination** Written or oral exam or term paper (graded, 100%), English language Workload **Duration Course Cycle** Winter term Winter and 225 h 1 Term Summer term Summer term **Module coordination Teaching person** See https://basis.uni-bonn.de **Module coordinator** Prof. Dr. Christian Bayer Institute/Department **Department of Economics Further Information** Literature Literature: The recommended literature will be announced at the beginning of the course

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Research Module in Econometrics and Statistics MA ECON RM ECS UNIVERSITÄT BONN **Content and learning outcome** Content The course provides students with a variety of new methods for analyzing large and complex sets of economic data. Practical implementation to read data problems is part of the course as well. Students will become familiar with basics of scientific methods in the field, with literature search, with reading and documenting scientific articles in Econometrics and Statistics as well as defining research topics and formulating specific research questions. Students are acquainted with quantitative research methods. They are able to **Learning outcome** document, present and defend the results of their research. **Teaching and learning methods** Work Language of **Group size** Contact Type of course/ **Topic** instruction time load learning methods [h] Research Module in 60 Seminar **Econometrics and** English 15 4 hours Statistics Self-study 390 **Prerequisites** obligatory Any two advanced modules (except Topics) recommended Degree program allocation obligatory/ Semeste Study Program/Study Field/Module Number/Lecture Number elective Economics, M.Sc. / Econometrics and Statistics / 332125050 / Elective 3rd332025050 Requirements for the awarding of credit points (ECTS) **Credits Prerequisites for** none participation 15,0 LP **Types of Assessment Examination** Presentation (graded, 40%) and term paper or essay (graded, 60%), English language **Course Cycle** Workload **Duration** Winter term Winter and 225 h 1 Term Summer term Summer term **Module coordination Teaching person** See https://basis.uni-bonn.de **Module coordinator** Prof. Dr. Alois Kneip Institute/Department **Department of Economics Further Information** Literature The recommended literature will be announced at the beginning of the course.

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Research Module in Financial Economics MA ECON RM FIE UNIVERSITÄT BONN **Content and learning outcome** Content Financial decision taking in general and in particular the regulation of financial markets, the incentive problems in management payments, the valuation and risk management of financial products and insurance contracts are central questions of many economic situations. The module will focus on theoretical models as well as empirical results of valuation, risk taking and management as well as regulation in different areas (e.g., in corporate finance, banking and insurance regulation, pricing and hedging of derivative contracts, dynamic models of traded and non-traded financial risk). Learning outcome After completion of a project module students should: be familiar with the basics of scientific methods relevant for the topic of the project module, be able to do a literature search, read and document scientific articles in Economics, be capable of defining research topics, formulating specific research questions in Economics and developing a research approach to investigate, be acquainted with academic research methods relevant for investigating the project's topic, be able to document, present and defend in class the results of their research. Teaching and learning methods Language of **Group size** Contact Work Type of course/ instruction time load **Topic** learning methods [h] Research Module in Seminar 15 4 hours 60 **English Financial Economics** Self-study 390 **Prerequisites** Basic Module Finance and any two advanced modules (except Topics) obligatory recommended Degree program allocation obligatory/ Semeste Study Program/Study Field/Module Number/Lecture Number elective 3rd Economics, M.Sc. / Financial Economics / 332124050 / 332024050 Elective Requirements for the awarding of credit points (ECTS) **Credits Prerequisites for** none participation 15,0 LP **Types of Assessment** Examination Presentation (graded, 40%) and term paper or essay (graded, 60%), English language **Course Cycle** Workload **Duration** Winter term Х Winter and 225 h 1 Term Summer term Summer term Module coordination **Teaching person** See https://basis.uni-bonn.de Module coordinator Prof. Dr. Hendrik Hakenes Institute/Department Department of Economics **Further Information**

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Research Module in Macroeconomics and Public **Economics** UNIVERSITÄT BONN MA ECON RM MPE **Content and learning outcome** Modern macroeconomics has moved to explore the quantitative implications of Content market interactions in the aggregate economy. These quantitative models focus on the structure of the economic decision problems single agents in the economy face, allow for (explicit) aggregation and finally to address a variety of research questions. The module will focus on theoretical models, their solution and their empirical application. Learning outcome After completion of a project module students should: be familiar with the basics of scientific methods relevant for the topic of the project module, be able to do a literature search, read and document scientific articles in Economics, be capable of defining research topics, formulating specific research questions in Economics and developing a research approach to investigate, be acquainted with academic research methods relevant for investigating the project's topic, be able to document, present and defend in class the results of their research. Teaching and learning methods Work Contact Language of **Group size** Type of course/ Topic instruction time load learning methods [h] Research Module in 60 Seminar Macroeconomics & **English** 15 4 hours **Public Economics** Self-study 390 **Prerequisites** obligatory Basic Module Macroeconomics and any two advanced modules (except Topics) recommended Degree program allocation obligatory/ Semeste Study Program/Study Field/Module Number/Lecture Number elective Economics, M.Sc. / Macroeconomics and Public Economics / 332122050 3rd Elective / 332022050 Requirements for the awarding of credit points (ECTS) **Credits Prerequisites for** none participation 15,0 LP **Types of Assessment Examination** Presentation (graded, 40%) and term paper or essay (graded, 60%), English language Workload **Duration Course Cycle** Winter term Х Winter and 225 h 1 Term Summer term Summer term **Module coordination Teaching person** See https://basis.uni-bonn.de **Module coordinator** Prof. Dr. Christian Bayer Institute/Department **Department of Economics Further Information**

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Research Module in Management and Applied Microeconomics MA ECON RM MAM



MA ECON RM MAM					UNIVERSI ⁻	TÄT <mark>BON</mark>	N		
		outcomo							
Content and learning outcome									
Content		Cooperation and incentive problems are at the heart of many economic situations:							
		example, a group's joint outcome is highest if group members cooperate, by							
		individual payoff maximization leads to free-riding and cooperation failures.							
		module will focus on theoretical models as well as empirical results of cooperation a							
		incentive issues in different areas (e.g., in public economics, personnel economics and industrial organization). For example, light will be shed on the provision of public							
		industrial organization). For example, light will be shed on the provision of public goods, the interaction of employees at the workplace and the collusion of firms.							
Learning outcome	,	After completion of a project module students should:							
Learning outcome	•	be familiar with the basics of scientific methods relevant for the topic of the project							
		module, be able to do a literature search, read and document scientific articles in							
				efining research topi					
			•	eloping a research ap			-		
				thods relevant for in			-		
				efend in class the re		-			
Teaching and lea	arnin	g methods							
		g		Language of	Group size	Contac	t Wor		
Type of course		Topic	:	instruction		time	load		
learning metho	us						[h]		
		Research Mo	odule in						
Seminar		Management a		English	15	4 hour	s 60		
		Microecon	omics						
Self-study							390		
Prerequisites									
obligatory		Basic Module M	1icroeconom	ics and any two adva	anced modules (exc	ept Topic	:s).		
recommended									
Degree program	allo	cation							
Study Program	m/Stı	ıdv Field/Module	Number/Le	ecture Number	obligatory	/	Semest		
Study Program/Study Field/Module Number/Lecture Number elective r									
		gement and Applied Microeconomics /			Elective		3 rd		
332123050 / 332023050				()			a 11:		
•	Requirements for the awarding of credit points (ECTS)					Credit			
Prerequisites for		none							
	participation		15,0 LP						
Types of Assessme	ent	Described and A000 and the second and a 1 (5000) 5 (1)							
Examination		Presentation (graded, 40%) and term paper or essay (graded, 60%), English							
language Course Cuelo				Workload	Duration				
Course Cycle	ie			VVOIKIOAU	Dui	ation			
Winter term	х	Winter and		225 k	4.5	Farm			
Summer term		Summer term		225 h	1 Term				
Module coordination									
Teaching person		See https://basis.uni-bonn.de							
Module coordinat		Prof. Dr. Matthias Kräkel							
Institute/Departm		Department of	Economics						
Further Informa	tion								
Literature		The recommended literature will be announced at the beginning of the course.							

LiteratureThe recommended literature will be announced at the beginning of the course.

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Research Module in Microeconomic Theory

MA ECON RM MIT



MA ECON RM MIT		UNIVERSI	ГÄТ <mark>BON</mark>	N				
Content and learning outcome								
Content Learning outcome	2	When individuals interact, incentive problems are the rule rather than the exception. Individuals need to have incentives to reveal information that is used to reach desirable outcomes. Incentives are provided through different forms of social interactions, be that contracts or simply procedural rules. We study theoretical models of interactions among strategic agents in various contexts. One such context is communication and decision making, where we advance our understanding of procedural rules - such as the ones governing the interactions between the US congress and its standing committees - as we see them in practice. Other contexts include the optimal organization of and optimal contracting within firms and further applications. After completion of a project module students should:						
Teaching and lea	- vain	be familiar with the basics of scientific methods relevant for the topic of the project module, be able to do a literature search, read and document scientific articles in Economics, be capable of defining research topics, formulating specific research questions in Economics and developing a research approach to investigate, be acquainted with academic research methods relevant for investigating the project's topic, be able to document, present and defend in class the results of their research.						
reaching and lea	arriiri	gilletilous		language of	Cuarra sina	Cambaa	A Maula	
Type of course/ learning methods		Торіс	:	Language of instruction	Group size	Contac time		
Seminar		Research Mo Microeco-nom		English	15	4 hour		
Self-study							390	
Prerequisites							L	
obligatory		Basic module M	icroeconom	ics and any two adva	nced modules (exc	ept Topic	s)	
recommended								
Degree program	allo	cation						
Study Program/Stu		udy Field/Module Number/Lecture Number			obligatory/ elective		Semeste r	
Economics, M.Sc. / Micr		roeconomic Theory / 332121050 / 332021050			Elective		3 rd	
Requirements for	or the	e awarding of credit points (ECTS)					Credits	
Prerequisites for	<i>-</i> 1 tile	awaranig or ci	cuit points	(LC13)			Cicuits	
participation		none 15,0 LP						
Types of Assessment Examination language		Presentation (graded, 40%) and term paper or essay (graded, 60%), English						
Course Cycle				Workload	Duration			
Winter term	х	Winter and		225 h	11	Term		
Summer term		Summer term						
Module coordination								
Teaching person See https://basis.uni-bonn.de								
Module coordinat	tor	Prof. Dr. Dezsö Szalay						
Institute/Departn	nent	Department of Economics						
Further Informa	tion							
Literature		The recommended literature will be announced at the beginning of the course.						

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Stochastic Processes MA ECON AM ECS STOPROC UNIVERSITÄT BONN **Content and learning outcome** Content The course provides thorough treatment of structural and asymptotic properties, theory and application of stochastic processes. Learning outcome Students understand concepts of stochastic processes and achieve technical competence for understanding current research and developing stochastic models. **Teaching and learning methods** Language of **Group size** Contact Work Type of course/ **Topic** instruction time load learning methods [h] Lecture Stochastic Processes English 30 4 hours 60 Self-study 165 **Prerequisites** obligatory none recommended **Basic Module Econometrics** Degree program allocation obligatory/ Semeste Study Program/Study Field/Module Number/Lecture Number elective Economics, M.Sc. / Econometrics and Statistics; Economic Research / 3^{rd} Elective 332125029 / 332025029 Requirements for the awarding of credit points (ECTS) **Credits Prerequisites for** none participation 7,5 LP **Types of Assessment Examination** Written or oral exam or term paper (graded, 100%), English language Workload **Course Cycle Duration** Winter term Х Winter and 225 h 1 Term Summer term Summer term **Module coordination Teaching person** See https://basis.uni-bonn.de Module coordinator Prof. Dr. Alois Kneip Institute/Department **Department of Economics Further Information**

Literature

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Time Series Econometrics MA ECON AM ECS TIMESEC UNIVERSITÄT BONN **Content and learning outcome** Content The course shows time series methods used in economic and financial applications such as ARIMA, unit root processes, cointegration or vector autoregression. Learning outcome Students should be able to understand and use tools for the analysis of uni- and multivariate time series. **Teaching and learning methods** Work Language of **Group size** Contact Type of course/ **Topic** instruction time load learning methods [h] Lecture **Time Series Econometrics English** 30 4 hours 60 Self-study 165 **Prerequisites** obligatory **Basic Module Econometrics** recommended Degree program allocation obligatory/ Semeste Study Program/Study Field/Module Number/Lecture Number elective Economics, M.Sc. / Econometrics and Statistics; Economic Research / 3^{rd} Elective 332125031 / 332025031 Export* / 332192531 / 332025031 Requirements for the awarding of credit points (ECTS) **Credits Prerequisites for** none participation 7,5 LP **Types of Assessment Examination** Written or oral exam or term paper (graded, 100%), English language Workload **Course Cycle Duration** Winter term Х Winter and 225 h 1 Term Summer term Summer term **Module coordination Teaching person** See https://basis.uni-bonn.de Module coordinator Prof. Dr. Alois Kneip Institute/Department **Department of Economics Further Information** Literature

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Topics in Econometrics and Statistics MA ECON AM ERS TOPECS UNIVERSITÄT BONN **Content and learning outcome** Content This course covers current research topics in econometric theory and applications. Learning outcome Participants learn to read technically and conceptually demanding original literature. They acquire skills to do independent research. Teaching and learning methods Language of Work **Group size** Contact Type of course/ instruction time load **Topic** learning methods [h] Topics in 30 Seminar **Econometrics and English** 15 2 hours **Statistics** Self-study 195 **Prerequisites** obligatory Basic Modules Mathematics for Economists and Econometrics must be successfully passed (graded 4.0 or better). recommended Degree program allocation obligatory/ Semeste Study Program/Study Field/Module Number/Lecture Number elective 2nd/ 3rd Economics, M.Sc. / Economic Research / 332134002 / 332034002 Elective Requirements for the awarding of credit points (ECTS) **Credits Prerequisites for** none participation 7,5 LP **Types of Assessment** Examination Presentation (graded, 40%) and term paper or essay (graded, 60%), English language **Course Cycle** Workload **Duration** Winter term Winter and 225 h 1 Term Х Summer term Summer term **Module coordination Teaching person** See https://basis.uni-bonn.de Module coordinator Prof. Dr. Alois Kneip Institute/Department **Department of Economics Further Information**

Literature

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Topics in Financial Economics MA ECON AM ERS TOPFIE UNIVERSITÄT BONN Content and learning outcome Content This course covers current research topics in financial economics, including original results obtained within the joint research activities of the Economics Department of Bonn University as well as related topics from the recent literature. Learning outcome Participants learn to read technically and conceptually demanding original literature and to present the results to other participants. If participants encounter difficulties in understanding details of the literature, they must learn to narrow down the problem and to formulate exact questions. The course prepares students to do independent research and to participate in the joint research activities of the Economics Department. **Teaching and learning methods** Work Language of **Group size** Contact Type of course/ instruction **Topic** time load learning methods [h] **Topics in Financial** English 15 2 hours 30 Seminar **Economics** Self-study 195 **Prerequisites** obligatory The basic modules Microeconomics and Mathematics for Economists must be successfully passed (graded 4.0 or better). recommended Degree program allocation obligatory/ Semeste Study Program/Study Field/Module Number/Lecture Number elective 2nd/3rd Economics, M.Sc. / Economic Research / 332130038 / 332030038 Elective Requirements for the awarding of credit points (ECTS) **Credits Prerequisites for** none participation 7,5 LP **Types of Assessment Examination** Presentation (graded, 40%) and term paper or essay (graded, 60%), English language Workload **Duration Course Cycle** Winter term Winter and 225 h 1 Term Х Summer term Summer term **Module coordination Teaching person** See https://basis.uni-bonn.de **Module coordinator** Prof. Dr. Hendrik Hakenes Institute/Department **Department of Economics Further Information** Literature The recommended literature will be announced at the beginning of the course.

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Topics in Macroeconomics and Public Economics MA ECON AM ERS TOPMPE UNIVERSITÄT BONN **Content and learning outcome** Content This course covers current research topics in Macroeconomics and Public Economics, including original results obtained within the joint research activities of the Economics Department of Bonn University as well as related topics from the recent literature. Learning outcome Participants learn to read technically and conceptually demanding original literature and to present the results to other participants. If participants encounter difficulties in understanding details of the literature, they must learn to narrow down the problem and to formulate exact questions. The course prepares students to do independent research and to participate in the joint research activities of the Economics Department. **Teaching and learning methods** Work Language of **Group size** Contact Type of course/ instruction **Topic** time load learning methods [h] Topics in Seminar Macroeconomics & Public **English** 15 2 hours 30 **Economics** 195 Selfwork **Prerequisites** obligatory Basic modules Macroeconomics and Mathematics for Economists must be successfully passed (graded 4.0 or better). recommended Degree program allocation obligatory/ Semeste Study Program/Study Field/Module Number/Lecture Number elective 2nd/ 3rd Economics, M.Sc. / Economic Research / 332131002 / 332031002 Elective Requirements for the awarding of credit points (ECTS) **Credits Prerequisites for** none participation 7,5 LP **Types of Assessment Examination** Presentation (graded, 40%) and term paper or essay (graded, 60%), English language Workload **Course Cycle** Duration Winter term Winter and 225 h 1 Term Х Summer term Summer term **Module coordination Teaching person** See https://basis.uni-bonn.de Module coordinator Prof. Dr. Christian Bayer Institute/Department **Department of Economics Further Information** Literature The recommended literature will be announced at the beginning of the course.

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Topics in Management and Applied Microeconomics UNIVERSITÄT BONN MA ECON AM ERS TOPMAM **Content and learning outcome** Content This course covers current research topics in management and applied microeconomics, including original results obtained within the joint research activities of the Economics Department of Bonn University as well as related topics from the recent literature. Learning outcome Participants learn to read technically and conceptually demanding original literature and to present the results to other participants. If participants encounter difficulties in understanding details of the literature, they must learn to narrow down the problem and to formulate exact questions. The course prepares students to do independent research and to participate in the joint research activities of the Economics Depart-Teaching and learning methods Language of **Group size** Contact Work Type of course/ **Topic** instruction time load learning methods [h] Topics in Management and Applied English 15 2 hours 30 Seminar Microeconomics Selfwork 195 **Prerequisites** obligatory Basic modules Microeconomics and Mathematics for Economists must be successfully passed (graded 4.0 or better). recommended Degree program allocation obligatory/ Semeste Study Program/Study Field/Module Number/Lecture Number elective 2nd/3rd Economics, M.Sc. / Economic Research / 332130037 / 332030037 Elective Requirements for the awarding of credit points (ECTS) **Credits Prerequisites for** none 7,5 LP participation **Types of Assessment** Presentation (graded, 40%) and term paper or essay (graded, 60%), English **Examination** language **Course Cycle** Workload **Duration** Winter term Winter and 225 h 1 Term Х Summer term Summer term **Module coordination** See https://basis.uni-bonn.de **Teaching person** Module coordinator Prof. Dr. Matthias Kräkel Institute/Department **Department of Economics Further Information**

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Topics in Microeconomic Theory MA ECON AM ERS TOPMIT UNIVERSITÄT BONN **Content and learning outcome** Content This course covers current research topics in microeconomic theory, including original results obtained within the joint research activities of the Economics Department of Bonn University as well as related topics from the recent literature. Learning outcome Participants learn to read technically and conceptually demanding original literature and to present the results to other participants. If participants encounter difficulties in understanding details of the literature, they must learn to narrow down the problem and to formulate exact questions. The course prepares students to do independent research and to participate in the joint research activities of the Economics Department. **Teaching and learning methods** Work Language of **Group size** Contact Type of course/ instruction **Topic** time load learning methods [h] Topics in Microeconomic English 15 2 hours 30 Seminar Theory Self-study 195 **Prerequisites** obligatory Basic modules Microeconomics and Mathematics for Economists must be successfully passed (graded 4.0 or better). recommended Degree program allocation obligatory/ Semeste Study Program/Study Field/Module Number/Lecture Number elective 2nd/3rd Economics, M.Sc. / Economic Research / 332130004 / 332030004 Elective Requirements for the awarding of credit points (ECTS) **Credits Prerequisites for** none participation 7,5 LP **Types of Assessment Examination** Presentation (graded, 40%) and term paper or essay (graded, 60%), English language Workload **Duration Course Cycle** Winter term Winter and 225 h 1 Term Х Summer term Summer term **Module coordination Teaching person** See https://basis.uni-bonn.de **Module coordinator** Prof. Dr. Dezsö Szalay Institute/Department **Department of Economics Further Information** Literature The recommended literature will be announced at the beginning of the course.

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Master Thesis MA ECON MAARBEIT UNIVERSITÄT BONN Content and learning outcome Content The Master Thesis must rest on an intensive and thorough reading of selected papers of the economic literature, including a full understanding of the formal and methodological details. Learning outcome Participants must show that they are able to summarize, to compare to synthesize and to extend methodologically demanding economic literature. The text must be written in a concise form. Readers with economic training but no specialization in the field of the Master Thesis must be able to read and to understand the text. Teaching and learning methods Work Language of Group size Contact Type of course/ **Topic** instruction time load learning methods [h] Master English 900 **Prerequisites** obligatory The topic of the Master thesis can only be issued if the basic module "Mathematics for Economics" and three additional basic modules have been successfully passed, one advanced module of the study field to which the Master thesis is assigned has been successfully passed and a research module in any study field has been passed. recommended Degree program allocation obligatory/ Semeste Study Program/Study Field/Module Number/Lecture Number elective 4th Economics, M.Sc. / --/ 8001 / 330008000 Obligatory Requirements for the awarding of credit points (ECTS) **Credits Prerequisites for** none participation 30,0 LP **Types of Assessment Examination** Written academic paper; max. 40 pages (graded, 100%), English language **Course Cycle** Workload **Duration** Winter term Winter and 225 h 1 Term Summer term Summer term **Module coordination** See https://basis.uni-bonn.de **Teaching person Module coordinator** Institute/Department **Department of Economics Further Information** Literature Support can be requested, e.g., in the form of STATA licenses, funding for datasets, etc. For more information, please visit the following website: https://www.vwlpamt.unibonn.de/pruefungsamt/master/masterarbeit-1

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