

University of Bonn Faculty of Law and Economics Department of Economics

Course Catalogue

Master of Science **Economics**



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Summer Semester 201



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Master of Science (M.Sc.)

Economics

	Study Course Economics								
	Optional German Class / Orientation Session								
1st Sem Winter	Basic Module Mathematics	Basic Module (Study Area 1)	Basic Module (Study Area 2)	Basic Module (Study Area 3)					
30 CP	7,5 CP	7,5 CP	7,5 CP	7,5 CP					
2nd Sem Summer	Advanced Module (optional)	Advanced Module (Study Area 1)	Advanced Module (Study Area 2)	Advanced Module (optional)					
30 CP	7,5 CP	7,5 CP	7,5 CP	7,5 CP					
3rd Sem Winter	Project Module	(Study Area 1)	Advanced Module (optional)	Advanced Module (optional) or Basic Module (optional)					
			or additional Project Module						
30 CP	15	CP	7,5 CP	7,5 CP					
4th Sem Summer	Master Thesis								
30 CP		30	СР						
	M.Sc. Economics 120 CP								
Legend:			_						
Basic I	Modules	Advanced Module	es Pro	ject Module					

Stand: ab WiSe 2011/12

Modules and Study Fields

BM: Basic Module, ECS: Econometrics and Statistics FIE: Financial Economics, MPE: Macroeconomics and Public Economics, MAM: Management and Applied Microeconomics, MT: Microeconomic Theory, RS: Research Module

Research Module								
Module Titel	Study Fields							Page
Module Titel		ECS	FIE	MPE	MAM	MT	ERS	rage
Banking and Securitization			Х					5
Behavioral Economics					х			6
Econometric Theory		Х						7
Econometrics	х							8
Econometrics II: Computational Statistics		Х						9
Economics of Contract and Information						х		10
Finance	х							11
Game Theory						х		12
Industrial Organization					х			13
Institutional Economics					х			14
International Economics and Finance				Х				15
Labor and Population Economics				Х				16
Macroeconomics	х							17
Macroeconomics II: Dynamic Macroeconomics				Х				18
Managerial Accounting					х			19
Mathematics for Economists	х							20
Mechanism Design and Social Choice						х		21
Microeconometrics		Х						22
Microeconomics	х							23
Microeconomics II						х		24
Monetary Economics				Х				25
Option Pricing			Х					26
Organization and Incentives					х			27
Personnel Economics					х			28
Probability Theory		Х						29
Project Module in Econometrics and Statistics		Х						30
Project Module in Financial Economics			х					31
Project Module in Macroeconomic Theory				Х				32
Project Module in Management and Applied Microeconomics					х			33
Project Module in Microeconomic Theory						х		34
Statistical Inference		Х						35
Stochastic Financial Markets			Х					36
Stochastic Processes		х						37
Time Series Econometrics		х						38
Topics in Econometrics and Statistics							х	39
Topics in Financial Economics							х	40
Topics in Macroeconomics and Public Economics							х	41
Topics in Management and Applied Microeconomics							х	42
Topics in Microeconomic Theory							х	43
Master Thesis								44

Banking and Se	ecuritization			Lunivarsit	it born
Module Number 332124029	Workload 225 h	Credits 7,5 CP	Universit Cycle yearly; sumn		
Responsible Faculty Member	Prof. Dr. Hendr	ik Hakenes			
Institute	Department of	Economics			
CL L D		Title		Character	Study Term
Study Program	Mast	Advanced Module	2nd		
Learning Outcomes	with a focus on required to thor	the financial crist roughly read the quired to presen	nt literature on bank sis of the year 2008 research papers dis t an unpublished re	. The students scussed in clas	will be ss. Further,
Key Skills					
Learning Content	securitization. I financial econor frequently empreferences to appreciate the financial crises	t is an applied comics. The course loyed in this liter oplications. The of 2008. In part	w of current topics in ourse that builds or its organized aroun ature, and will be efocus is on topical roular, papers analy tation process are contact.	the basic kno d methodolog nriched by fred esearch relate zing the incen	wledge in ies quent d to the
Prerequisites for attending	Basic Module F	inance			
	ι	ecture, Semina	, etc.	Contact time	Workload [h]
Course Type	lecture and tuto	orial		4 hrs per week	(c) 60 (s) 165
Evamination(s)		Type of Examina	tion	Grad	des
Examination(s)	written or oral e	ye	S		
Special Course Achievements					
Other					

Behavioral Economics				universit	äthonn	
Module Number 332123019	Workload 225 h	Workload Credits Duration Cycle				
Responsible Faculty Member	Prof. Dr. Daniel	Krähmer				
Department	Department of	Economics				
		Title		Character	Study Term	
Study Program	Mast	er of Science Eco	nomics	Advanced Module	2nd	
Learning Outcomes	debate in exper basic formal mo determinants of	imental and behandels of decision	aking students fam avioural economics; making that accour riour, (iii) enabling t stions.	(ii) providing nt for psycholo	them with ogical	
Key Skills						
Learning Content	from perfect rad traditional econ how departures models. It also	tionality, self inte omic studies. The from standard a discusses the im	cal and experimenta rest, and other assi e course then explo ssumptions can be plications of these to institutional setting	umptions of mores different was captured by findings for po	nore vays of ormal	
Prerequisites for attending	Basic Module N	<i>licroeconomics</i>				
	L	.ecture, Seminar	, etc.	Contact time	Workload [h]	
Course Type	lecture and tuto	orial		4 hrs per week	(c) 60 (s) 165	
	-	Type of Examinat	ion	Grad	des	
Examination(s)	written or oral e	yes				
Special Course Achievements						
Other						

Econometric The	ory							
	- -	T	Γ	<u>universitätbonn</u>				
Module Number 332125028	Workload 225 h	Workload 225 hCredits 7,5 CPDuration 1 TermCycle yearly; winter term						
Responsible Faculty Member	Prof. Dr. Jörg	1 '	1	J = 3J,				
Institute	Department o	f Economics						
Study Program		Title		Character	Study Term			
Study Frogram	Mas	ter of Science Ec	onomics	Advanced Module	3rd			
Learning Outcomes	reading and u particular, the estimation an and maximun	The students learn the econometric and statistical tools necessary for reading and understanding the current literature in econometrics. In particular, they achieve competence in asymptotic concepts for estimation and inference based on the generalized method of moments and maximum likelihood. As a secondary goal, they will become acquainted with some of the current research topics in econometrics.						
Key Skills								
Learning Content	understanding econometric r simultaneous	g of asymptotic tl nodels include lin equations. The o	o provide the neces neory in classical ed near regression, time course focuses on copy, asymptotic norm	conometrics, vone-series and details of spec	where the ification			
Prerequisites for attending	Basic Module	Econometrics						
Course Type		Lecture, Semina	r, etc.	Contact time	Workload [h]			
Course Type	lecture and tu	itorial		4 hrs per week	(c) 60 (s) 165			
Examination(s)		Type of Examina	tion	Grad	des			
Examination(3)	written or ora	l exam		ye	S			
Special Course Achievements								
Other								

⁽c) contact time per term / (s) self study per term

Econometrics					À			
Leonometries				universit	ät bo nn			
Module Number	Workload	Credits	Duration	Cycle	01 2			
332110005	225 h	7,5 CP	1 Term	yearly; winte	yearly; winter term			
Responsible Faculty Member	Prof. Dr. Jörg	Breitung						
Department	Department of	Economics						
a		Title		Character	Study Term			
Study Program	Mas	ster of Science I	Economics	Basic Module	1st			
Learning Outcomes	certain econon departures fro to show the be computational Furthermore, t	netric methods m the standard nefits of combi techniques to a	eived to give a firm work and provide modeling assump ning economic the analyze empirical places become acquaint cal practice.	possible remedie itions. An importa ory, statistical mo problems in econo	s for ant goal is ethods and omics.			
Key Skills	Information Co	mmunication T	echnology					
Content	econometric m It provides a ri including nonli dynamic mode	The objective of this course is to provide a thorough introduction to various econometric methods for the analysis of time series and cross section data. It provides a rigorous treatment of various classical econometric topics including nonlinear and generalized regression, specification tests and dynamic models. Furthermore, the course provides practical experience with standard econometric techniques using up-to-date computer software						
Prerequisites for attending								
_		Lecture, Tutor	al, etc.	Contact time	Workload [h]			
Course Type	lecture			4 hrs per week	(c) 60 (s) 165			
		Type of Exami	nation	Gra	des			
Examination(s)	written exam			ує	es			
Special Course Achievements								
Other								

⁽c) = contact time per term / (s) self study per term

Econometrics I	I: Computation	nal Statistics		universit	ät bonn			
Module Number 331215035	Workload 225 h	Credits 7,5 CP	Duration 1 Term	Cycle yearly; summ				
Responsible Faculty Member	Prof. Dr. Alois h	Kneip	·					
Institute	Department of	Economics						
Study Program		Title		Character	Study Term			
Study Program	Mast	er of Science E	conomics	Advanced Module	2nd			
Learning Outcomes	concepts and p technical comp and enables stu	The course aims to provide students with an understanding of fundamental concepts and problems of computational statistics. It establishes the technical competence necessary to understand original research literature, and enables students to solve methodological, numerical or algorithmic problems encountered in empirical work or simulation studies.						
Key Skills								
Learning Content	explains underl detail. Special e	The course deals with computationally intensive statistical methods. It explains underlying ideas, and methodological issues are discussed in detail. Special emphasis is placed on algorithmic and numerical aspects of practical implementation.						
Prerequisites for attending								
	L	ecture, Semina	ar, etc.	Contact time	Workload [h]			
Course Type	lecture and tuto	orial		4 hrs per week	(c) 60 (s) 165			
		Type of Examin	ation	Grad	des			
Examination(s)	written or oral exam yes							
Special Course Achievements				•				
Other								

⁽c) contact time per term / (s) self study per term

Economics of Cor	ntracts and	Information		universit	ätbonn
Module Number 332121008	Workload 225 h	Credits 7,5 CP	Duration 1 Term	Cycle yearly; sumn	
Responsible Faculty Member	Prof. Dr. Des.	zö Szalay	'	1	
Department	Department of	of Economics			
Chudy Dynaman		Title		Character	Study Term
Study Program	Ma	aster of Science I	Advanced Module	2nd	
Learning Outcomes	Students stud	dy the impact of	asymmetric inform	mation on market	outcomes.
Key Skills			to understand co	entracts and institu on.	itions as
Content				g, Screening, Con on, Non-linear pric	
Prerequisites for attending	Basic Module	: Microeconomics			
Caura Tuna		lecture, tutori	al, etc.	Contact time	Workload [h]
Course Type	lecture and to	utorial		4 hrs per week	(c) 60 (s) 165
Examination(s)		Type of Exami	nation	Grad	des
Lammanon(5)	written or oral exam			yes	
Special Course Achievements					
Other					

⁽c) = contact time per term / (s) self study per term

Finance				universit	ätbonn	
Module Number 332110004	Workload 225 h	Credits 7,5 CP	Duration 1 Term	Cycle yearly; winte		
Responsible Faculty Member	Prof. Dr. Klau	s Sandmann				
Department	Department o	f Economics				
Study Program		Title		Character	Study Term	
otady i rogram	Ма	ster of Science	Economics	Basic Module	1st	
Learning Outcomes	most importa and understar	nt theories in fir nd original resea	rovide students with pancial economics. It arch literature, to tak he foundation for sp	enables studer e a stand on cu	nts to read irrent	
Key Skills						
Content	its implication areas of mode certainty and	ns for corporate ern finance, incl	s introduction into the financial manageme uding the theory of in pricing of assets an ancial policy.	nt. It covers the nvestments und	e main er	
Prerequisites for attending						
		Lecture, Semir	ıar, etc.	Contact time	Workload [h]	
Course Type	lecture and tu	torial		4 hrs per week	(c)60 (s) 165	
		Type of Exami	nation	Gra	des	
Examination(s)	written exam yes					
Special Course Achievements						
Other						

⁽c) = contact time per term / (s) self study per term

Game Theory				universit	ät <mark>bonn</mark>	
Module Number 33121003	Workload 225 h	Credits 7,5 CP	Duration 1 Term	Cycle yearly; sumn		
Responsible Faculty Member	Prof. Dr. Tymor	n Tatur				
Department	Department of	Economics				
Charles Dura sura an		Title		Character	Study Term	
Study Program	Mast	ter of Science Ec	onomics	Advanced Module	2nd	
Learning Outcome	critically questi	on the modelling	n to read advanced used in recent gar the techniques and	ne theoretic pa	apers, and	
Key Skills						
Content	focus on a topic in this field. The	cal theme in game e course will emp	ics and advances in the theory and will co phasize the relevants sused in the curre	over recent dev ce to economic	/elopment	
Prerequisites for attending	Basic Module <i>N</i>	1icroeconomics				
	I	Lecture, Tutorial	, etc.	Contact time	Workload [h]	
Course Type	lecture and tuto	4 hrs per week	(c) 60 (s) 165			
		Type of Examina	tion	Grad	des	
written or oral exam				yes		
Special Course Achievements						
Other						

⁽c) = contact time per term / (s) self study per term

Industrial Organization					ät <mark>bonn</mark>
Module Number 332123016	Workload 225 h	Credits 7,5 CP	Duration 1 Term	Cycle yearly; winte	
Responsible Faculty Member	JProf. Dr. Euge	n Kovac	,		
Institute	Department of	Economics			
CL L D		Title		Character	Study Term
Study Program	Mast	er of Science Eco	nomics	Advanced Module	3rd
Learning Outcomes	industrial orgar theoretical idea	nization. In partic s and important t	th basic tools and s cular, they learn how formal techniques t d (iii) relate theoret	w to (i) apply l o selected qu	key estions, (ii)
Key Skills					
Learning Content	that aim at expl Within the conto theoretical IO a with empirical 6	laining firm behavext of static and core taught and sore taught and sorevidence. The sec	ents models in indu viour in different str dynamic oligopoly r ne key theoretical r ond part of the cou collusion or preda	rategic enviror nodels, standa esults are cor rse will focus	nments. ard tools of afronted on
Prerequisites for attending	Basic Module N	<i>dicroeconomics</i>			
	L	ecture, Seminar,	etc.	Contact time	Workload [h]
Course Type	lecture and tuto	orial		4 hrs per week	(c) 60 (s) 165
Fuenciaction(e)	-	Type of Examinat	ion	Grad	des
Examination(s)	written or oral e	yes			
Special Course Achievements				•	
Other				-	

Institutional Ec	onomics			universit	ätbonn		
Module Number 332123018	Workload 225 h	Credits 7,5 CP	Duration 1 Term	Cycle yearly; sumn			
Responsible Faculty Member	Prof. Dr. Urs So	chweizer		1			
Institute	Department of	Economics					
Charles Bossesson		Title		Character	Study Term		
Study Program	Mast	er of Science Eco	nomics	Advanced Module	2nd		
Learning Outcomes	institutions, to analysis) and to	The Students learn to detect incentives as they arise from legal and other nstitutions, to describe strategic interaction within institutions (positive analysis) and to evaluate institutions from the economic viewpoint normative analysis).					
Key Skills							
Learning Content	economic analy institutions that	rsis of institutions t are of utmost in	oplied game theory Particular empha nportance as far as mic activities are co	sis is put on tl coordinating,			
Prerequisites for attending	Basic Module <i>N</i>	1icroeconomics					
Course Type		lecture, seminar,	etc.	Contact time	Workload [h]		
Course Type	lecture and tuto	orial		4 hrs per week	(c) 60 (s) 165		
Examination(s)		Type of Examination Grades					
Examination(s)	written or oral e	vritten or oral exam yes					
Special Course Achievements							
Other	_						

International Eco	nomics and	l Finance		universita	ät bonn			
Module Number 332122010	Workload 225 h	Workload Credits Duration Cycle						
Responsible Faculty Member	Prof. Dr. Ger	rnot Müller						
Institute	Department	of Economics						
CL L D		Title		Character	Study Term			
Study Program	Ma	aster of Science	Economics	Advanced Module	2nd			
Learning Outcomes	frequently an applications economics a	Students acquire skills to solve dynamic optimization problems as they frequently arise in international economics and finance. In addition, applications of econometric methods to topical issues in international economics and finance are discussed. Students also learn to solve numerical and/or empirical exercises using standard software packages.						
Key Skills								
Learning Content	discussing fl We then turn Fleming and allow us to a measures. T	In order to analyze the determination of exchange rates, we start by discussing flexible price models which serve as a theoretical benchmark. We then turn to sticky price models, both of the traditional Mundell-Fleming and of the New Open Economic Macroeconomics variety. This will allow us to analyze the macroeconomic effects of different policy measures. The course also covers a number of anomalies which have received great attention by macroeconomists, such as deviations from						
Prerequisites for attending		e Macroeconom						
G		Lecture, Semi	nar, etc.	Contact time	Workload [h]			
Course Type	lecture and tutorial			3+1 hrs per week	(c) 60 (s) 165			
Functional and a		Type of Exam	ination	Grad	les			
Examination(s)	written or or	written or oral exam			S			
Special Course Achievements								
Other	(1996): Four	ndations of Inte rnational Macro	rnational Macroec	Dbstfeld and K. Ro onomics and in N. nance: Theory and	Mark			

Labour and Population Economics				universität <mark>bonn</mark>	
Module Number 332122008	Workload 225 h	Credits 7,5 CP	Duration 1 Term	Cycle yearly; winte	
Responsible Faculty Member	Prof. Dr. Thor	mas Hintermaier			
Department	Department o	f Economics			
Charles Barrers		Title		Character	Study Term
Study Program	Mas	ter of Science Ec	onomics	Advanced Module	3rd
Learning Outcomes		ulation economic	urrent questions and s. They acquire the		
Key Skills					
Learning Content	labor market industrialized interaction be institutions in	developments and countries. The co tween these two	ories and empirical d population dynan ourse focuses in pa areas. It also stress ences in labor mark	nics in selecte rticular on the ses the import	d e ance of
Prerequisites for attending	Basic Module	Microeconomics			
		Lecture, Seminaı	, etc.	Contact time	Workload [h]
Course Type	lecture and tu	torial		4 hrs per week	(c) 60 (s) 165
Examination(s)	Type of Examination Grades				des
Examination(3)	written or ora	l exam	ye	S	
Special Course Achievements					
Other					

Macroeconomics				universit	ät <mark>bonn</mark>			
Module Number 332110003	Workload 225 h	Credits 7,5 CP	Duration 1 Term	Cycle yearly; winte				
Responsible Faculty Member	Prof. Dr. Tho	mas Hintermaie						
Department	Department of	of Economics						
C. I. D.		Title		Character	Study Term			
Study Program	Ma	aster of Science	Economics	Basic Module	1st			
Learning Outcomes	methodologic debates in dy background r	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.						
Key Skills	Model based	economic analys	sis					
Content	macroeconor growth theory The first part long run, whi	This course provides an introduction into the current state of macroeconomic theory 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.						
Prerequisites for attending								
		Lecture, Tutor	ial, etc.	Contact time	Workload [h]			
Course Type	lecture and to	utorial		3 + 1 hrs per week	(c) 60 (s) 165			
		Type of Exami	nation	Grad	des			
Examination(s)	written exam yes				S			
Special Course Achievements				I				
Other		ickens, "Macroe	organized accordir conomic Theory", (

⁽c) = contact time per term / (s) self study per term

Macroeconomics	II: Dynami	c Macroecond	mics	universit	ät <mark>bonn</mark>			
Module Number 332122017	Workload 225 h	Credits 7,5 CP	Duration 1 Term	Cycle yearly; sumn	aar tarm			
Responsible Faculty Member	Prof. Dr. Chr	,	1 Tellii	yearry, surrin	ier terrir			
Department	Department	of Economics						
		Title		Character	Study Term			
Study Program	Ma	aster of Science	Economics	Advanced Module	2nd			
Learning Outcomes	students wit macroecono problems. So studied theo theory, savir	h the numerical mic analysis invectory, it repeats retically in the nags decisions, ge	est and foremost, it a techniques needed to olving the solution of s in an applied mann- nacroeconomics basi eneral equilibrium wit nt economies etc.	o understand r dynamic prog er concepts ar c course: busi	modern ramming nd results ness cycle			
Key Skills								
Learning Content	dynamic pro on these algo techniques a model econo general equi	The course studies first revisits basic algorithms to solve single agent dynamic programming problems, then discusses possibilities to improve on these algorithms, such as perturbation and projection methods. These techniques are applied to study the business cycle characteristics of model economies. Then the course studies algorithms to solve recursive general equlibrium models with heterogeneous agents, such as Aiyagari's (1994) or Krussell and Smith's (1998) model.						
Prerequisites for attending	Basic Modul	e Macroeconomi	CS					
O		Lecture, Seminar, etc.			Workload [h]			
Course Type	lecture and t	cutorial		4 hrs per week	(c) 60 (s) 165			
Examination(s)		Type of Exami	nation	Gra	des			
Examination(s)	written or or	al exam		уе	·S			
Special Course Achievements								
Other	programmin Primary read * Burkhard u Computation 2008 * Jerome Ad	A basic understanding of numerical programming, and MATLAB as programming language is helpful but not required. 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.						

Managerial Acco	ounting						
	· · · · · · · · · · · · · · · · · · ·			universit	ät bonn		
Module Number 332123015	WorkloadCreditsDurationCycle225 h7,5 CP1 Termyearly; winter term						
Responsible Faculty Member	Prof. Dr. Jörg B	udde					
Institute	Department of E	Economics					
Study Dynaman		Title		Character	Study Term		
Study Program	Mast	er of Science Ecc	nomics	Advanced Module	3rd		
Learning Outcomes	systems in firms arrangements w	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.					
Key Skills							
Learning Content	placed on the co	oordination of de formation syster cepts are derived	nformation in firms cisions in decentra ns as well as instru and then used to e	lized organiza ments of coor	tions. The dination.		
Prerequisites for attending	Basic Module M	icroeconomics					
_	L	ecture, Seminar,	etc.	Contact time	Workload [h]		
Course Type	lecture and tuto	rial		4 hrs per week	(c) 60 (s) 165		
Examination(s)	Type of Examination Gr				des		
Examination(3)	written or oral e	xam		ye	S		
Special Course Achievements							
Other							

Mathematics for	Economists				À			
				universit	ätbonn			
Module Number 332110001	Workload 225 h	Credits 7,5 CP	Duration 1 Term	Cycle yearly; winte				
Responsible Faculty Member	Dr. Reinhard	John	1					
Department	Department of	of Economics						
Study Program		Title		Character	Study Term			
Study Program	Ma	aster of Science	Economics	Basic Module	1st			
Learning Outcomes	beyond that of economics appearing in their own in a learn to search	Students become familiar with the use of mathematics at a level of rigour beyond that of mere recipes as is required for undertaking advanced studies of economics. It enables participants to read mathematical proofs appearing in the economic literature and to write mathematical proofs of heir own in a rigorous way as needed for advanced economics. Students earn to search for help in the literature, as needs arise along his/her particular choice of activities within the Master Program.						
Key Skills								
Content	importance for interest, inclu	While it is not conceivable to cover all fields that are potentially of importance for economists, this course deals with topics that are of general interest, including basic topological concepts, fundamental existence theorems, convex sets and generalized convex (concave) functions.						
Prerequisites for attending								
		Lecture, Tutor	ial, etc.	Contact time	Workload [h]			
Course Type	lecture and tutorial			4 hrs per week	(c) 60 (s) 165			
		Type of Exami	ination	Grad	des			
Examination(s)	written exam			ye	S			
Special Course Achievements				<u>.</u>				
Other			ersion, a special m Economic Researc		r students			

⁽c) = contact time per term / (s) self study per term

Mechanism Desig	universit	universität bonn					
Module Number 332121004	Workload 225 h	Credits 7,5 CP	Duration 1 Term	Cycle yearly; sumn			
Responsible Faculty Member	Prof. Dr. Beni	,	1 101111	yearry, sarrin			
Department	Department of	of Economics					
Study Dyaguana		Title Character					
Study Program	Mas	ster of Science E	Conomics	Advanced Module	2nd		
Learning Outcomes	competence t mechanism d	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.					
Key Skills							
Learning Content	contract theo that unite the	ry by highlightir field. The main	ugh treatment of r ng the common the topics covered ar s and incomplete	emes and metho e hidden informa	dologies		
Entry Requirements	Basic Modul	e Microeconon	nics				
Course Type		Lecture, Semin	ar, etc.	Contact time	Workload [h]		
Course Type	lecture and tu			4 hrs per week	(c) 60 (s) 165		
Evamination(s)		Type of Examin	nation	Grad	des		
Examination(s)	written or ora	I exam		yes			
Special Course							
Achievements							
Other							

⁽c) contact time per term / (s) self study per term

Microeconometrics				universit	ät <mark>bonn</mark>			
Module Number 332125027	Workload 225 h	Workload Credits Duration Cycle						
Responsible Faculty Member	Prof. Dr. Jörg E	Breitung						
Institute	Department of	Economics						
Study Program		Title		Character	Study Term			
Study Program	Mas	ter of Science Ed	conomics	Advanced Module	2nd			
Learning Outcomes	for the analysis	Students are provided with a broad encyclopaedic knowledge of methods for the analysis of microeconomic data and to let him/her obtain an active command of the mathematical and computational aspects of the various methods.						
Key Skills								
Learning Content	microeconomic limited-depend models for self emphasis is on microeconome	The course deals with methods that are commonly used in the analysis of microeconomic datasets, including methods to deal with discrete and limited-dependent variables, discrete choice models, censored regression, models for self-selection, 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.						
Prerequisites for attending	Basic Module E	conometrics						
	ı	Lecture, Semina	r, etc.	Contact time	Workload [h]			
Course Type	lecture and tute	orial		4 hrs per week	(c) 60 (s) 165			
_		Type of Examin	ation	Grad	des			
Examination(s)	written or oral	written or oral exam						
Special Course Achievements				·				
Other								

Microeconomic	s			universit	ät <mark>bonn</mark>		
Module Number 332110002	Workload 225 h	Credits 7,5 CP	Duration 1 Term	Cycle yearly; winte			
Responsible Faculty Member	Prof. Dr. Desz	zö Szalay	•	·			
Department	Department of	of Economics					
Study Dye gyene		Title		Character	Study Term		
Study Program	Ma	aster of Science	Economics	Basic Module	1st		
Learning Outcomes	microeconom exposure to a	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 variety of modelling techniques that will be often used in subsequent courses.					
Key Skills							
Content	fundamentals equilibrium the modelling tec	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.					
Prerequisites for attending							
		lecture, tutoria	al, etc.	Contact time	Workload [h]		
Course Type	lecture and to	utorial		4 hrs per week	(c) 60 (s) 165		
		Type of Exami	nation	Gra	des		
Examination(s)	Written Exam yes				es		
Special Course Achievements				I			
Other							

⁽c) = contact time per term / (s) self study per term

Microeconomic	s II			universit	äthonn		
Module Number 332121010	Workload 225 h	Credits 7,5 CP	Duration 1 Term	Cycle yearly; sumn			
Responsible Faculty Member	Prof. Dr. Benny	Moldovanu					
Department	Department of B	Economics					
Study Program		Study Progran	1	Character	Study Term		
Study Program	Mast	er of Science Eco	onomics	Advanced Module	2 nd		
Learning Outcomes	microeconomics exposure to a va	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 variety of modeling techniques that will be often used in subsequent courses.					
Key Skills							
Learning Content	fundamentals of design. The lect	f information in e cure provides a ri	s in microeconomic economics, social c gorous foundation t ets, and gives an int	hoice and med for common m	chanism nodeling		
Prerequisites for attending							
	L	.ecture, Seminar	, etc.	Contact time	Workload [h]		
Course Type	lecture and tuto	orial		4 hrs per week	(c) 60 (s) 165		
Fuencia etiende)		Гуре of Examinat	ion	Grad	des		
Examination(s)	written or oral exam yes						
Special Course Achievements							
Other							

⁽c) = contact time per term / (s) self study per term

Monetary Econon	universität bonn						
Module Number 332122011	Workload 225 h	Workload Credits Duration Cycle					
Responsible Faculty Member	JProf. Dr. Ale	xander Kriwoluz	ky	•			
Department	Department of	of Economics					
Charles Barrers		Title		Character	Study Term		
Study Program	Mas	ster of Science I	Economics	Advanced Module	2nd		
Learning Outcomes	understand n quantitively u	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, inearization techniques of DSGE models					
Key Skills							
Learning Content	general equil effects are id cover the inte	ibrium models. entified. Second	etary economics with First, conditions und I, optimal policy is di etary and fiscal policy sector.	er which mone scussed. Furth	ey has real ner topics		
Prerequisites for attending	Basic Module	e Macroeconomic	es				
_		Lecture, Semir	ar, etc.	Contact time	Workload [h]		
Course Type	lecture and to	utorial		2+2 hrs per week	(c) 60 (s) 165		
	Type of Examination				les		
Examination(s)	written or ora	yes					
Special Course Achievements							
Other							

⁽c) contact time per term / (s) self study per term

Option Pricing								
Option Friends				universit	ätbonn			
Module Number	Workload	Credits	Duration	Cycle				
332124023	225 h 7,5 CP 1 Term yearly; summer term							
Responsible Faculty Member	Prof. Dr. Klaus Sandmann							
Institute	Department of Economics							
a		Title		Character	Study Term			
Study Program	Mast	er of Science Eco	nomics	Advanced Module	2nd			
Learning Outcomes	Scholes option role of risk neut Students learn to neutral pricing	pricing model. It ral pricing as the to apply the techr to nonstandard fire	ents with an unders enables them to re basis of modern o nique including nur nancial products and management of o	cognize the si ption pricing t nerical metho nd to review th	gnificant theory. ds of risk			
Key Skills								
Learning Content	time model by I duplication stra discussed. This hedging strateg the pricing of m	Black and Scholes tegy and its appli includes a discus ies and static or it fore complex fina	and hedging of opti s. The model deper cations to risk man ssion of the differer robust hedging. Be ncial contracts will arlo method will be	ndency of the nagement will nces between side standard be analysed.	perfect be dynamic options Numerical			
Prerequisites for attending	Basic Module Fi	inance						
	L	ecture, Seminar,	etc.	Contact time	Workload [h]			
Course Type	lecture and tuto	orial		4 hrs per week	(c) 60 (s) 165			
Examination(s)		Гуре of Examinat	ion	Gra	des			
Examination(3)	written or oral e	exam		ye	es es			
Special Course Achievements								
Other								

⁽c) contact time per term / (s) self study per term

Organizations a	and Incentives			universit	ät <mark>bonn</mark>			
Module Number 332123017	Workload 225 hCredits 7,5 CPDuration 1 TermCycle 							
Responsible Faculty Member	Prof. Dr. Matthias Kräkel							
Institute	Department of Economics							
Study Broarom		Title		Character	Study Term			
Study Program	Mast	ter of Science E	conomics	Advanced Module	2nd			
Learning Outcomes	results from inc the division of I students will lea	centive theory to abour within an arn that the fou	apply game theory organizational prob d between different l ndation of organizati and, at the same tim	olems which ar hierarchical lag ons can be bo	ise from yers. The th a			
Key Skills								
Learning Content	sharing, the cou incentives in or from asymmetr contracts. Acco	urse presents the ganizations. Inceic information conding to the nate	trade-off between in eoretical models on entive problems are or the impossibility o ure of the incentive uplementation in org	static and dyr analyzed whic f writing comp problem at hai	namic h arise blete nd,			
Prerequisites for attending	Basic Module N	<i>dicroeconomics</i>						
	ı	_ecture, Semina	ır, etc.	Contact time	Workload [h]			
Course Type	lecture and tuto	orial		4 hrs per week	(c) 60 (s) 165			
		Type of Examin	ation	Grad	des			
Examination(s)	written or oral e	exam		ye	S			
Special Course Achievements								
Other								

Personnel Econ	iomics			universit	ätbonn				
Module Number 332123014	Workload 225 hCredits 7,5 CPDuration 1 TermCycle 								
Responsible Faculty Member	Prof. Dr. Matthias Kräkel								
Institute	Department of	Department of Economics							
Charles Base announce		Title		Character	Study Term				
Study Program	Mas	ter of Science Ec	onomics	Advanced Module	3rd				
Learning Outcomes	employer's per personnel polit internal allocat	sonnel politics ar ics in order to ge ion of employees	anding of (1) how er nd (2) how an emplo nerate efficient ince . Students also lear ngs of both field and	oyer should ch entives and an n to analyze a	oose his efficient nd				
Key Skills									
Learning Content	enhanced by propositions they for with advanced with advanced to the control of t	roviding appropri it and by investm wage theories an ers career theore	nomics, efficiency of ate incentives, by m nents in human capi d it addresses empl tical aspects pertind	natching emplotal. This cours oyees' motiva	oyees to se deals tion. In				
Prerequisites for attending	Basic Module A	Microeconomics							
		Lecture, seminar	, etc.	Contact time	Workload [h]				
Course Type	lecture and tuto	orial		4 hrs per week	(c) 60 (s) 165				
Funnimation(s)		Type of Examina	tion	Grad	des				
Examination(s)	written or oral	exam		ye	es .				
Special Course Achievements									
Other									

Probability The	ory			universit	äthonn			
Module Number 332125032	Workload 225 h	Workload Credits Duration Cycle						
Responsible Faculty Member	Prof. Dr. Lorens Imhof							
Institute	Department of I	Department of Economics						
Study Program		Title		Character	Study Term			
Study Flogram	Mast	er of Science Eco	onomics	Advanced Module	2nd			
Learning Outcomes	tools of probabi	lity. Students ob	aint students with r tain a rigorous basi iistics and applied p	s for understa	nding and			
Key Skills								
Learning Content	probability. The	course covers in	tion to the mathem tegration, probabil concepts of converg	ity measures,	random			
Prerequisites for attending								
Course Turns	L	ecture, Seminar	, etc.	Contact time	Workload [h]			
Course Type	lecture and tuto	orial		4 hrs per week	(c) 60 (s) 165			
		Type of Examinat	ion	Grad	des			
Examination(s)	written or oral e	exam		ye	S			
Special Course Achievements				1				
Other								

Project Module	in Econome	trics and Sta	tistics	universit	ät <mark>bonn</mark>
Module Number 331215050	Workload 450 h	Credits 15 CP	Duration 1 Semester	Cycle yearly, summe	r term
Responsible Faculty Member	Prof. Dr. Alois h	Kneip	1	<u>'</u>	
Department	Department of	Economics			
Challe Barrers		Title		Character	Study Term
Study Program	М	aster of Science	Advanced Module	3rd	
Learning Outcomes	be familiar with module, be able Economics, be questions in Ec acquainted with	the basics of sc e to do a literatur capable of defini onomics and dev n academic resea	dule students should ientific methods relevant search, read and doing research topics, for eloping a research aparch methods relevant sent and defend in cla	ant for the topic of ocument scientific a rmulating specific r proach to investigator investigating the	erticles in research te, be e project's
Key Skills			riting, rhetorical skills		
Content	very good basis led to a variety data. The modu	for economic re of new methods Ile will focus on t	tatistical/econometric asoning. Statistical ar for analyzing large an he methodological un ementations as well as	nd econometrical re d complex sets of e derstanding of new	search has conomic statistical
Prerequisites for attending			n Econometrics & Statis ticular hypotheses tes		ge of game
		Lecture, Semi	nar, etc.	Contact time per week	Workload [h]
Course Type	Lectures			2	60
Course Type	Presentations			1	30
	Discussion Grou	ıps		1	30
1	Selfstudy			4	330
		Type of Exami	nation	Grad	les
Examination(s)	other presentat The final grade of) i) the preser and iv) particip Depending on t project work ha	ions, participatio will be a weighte ntation, ii) the res ation in discussion he actual numbe	d average of (the qua search paper, iii) repo ons. r of participants, the ut as a group task	lity	S
Special Course Achievements	none				
Other	choose a project increase their k 7·12). During the meetings. In we give a presentar	et from a list of sp nowledge. Stude nat time, student eks 13 and 14, s	roductory lectures (4h pecific cooperation pr nts have to work on th s and supervisors will students have to hand ect in class. Finally, st	oblems in which the his project on their have regular feedb in a short research	ey wish to own (week ack paper and

Project Module	in Financial	Economics		universitä	ät <mark>bonn</mark>		
Module Number 332124050	Workload 450 h	Credits 15 CP	Duration 1 Semester				
Responsible Faculty Member	Prof. Dr. Klaus	Sandmann		•			
Department	Department of	Economics					
Study Program		Title		Character	Study Term		
otady i rogram	M	laster of Science E	Advanced Module	3rd			
Learning Outcomes	be familiar with module, be able Economics, be questions in Ec acquainted with	n the basics of scie e to do a literature capable of definin conomics and deve n academic resear	dule students should: entific methods relevant e search, read and docu g research topics, form eloping a research appro ch methods relevant for ent and defend in class	ment scientific a ulating specific r pach to investigat r investigating the	rticles in esearch te, be e project's		
Key Skills	academic resea	arch, academic wr	iting, rhetorical skills, p	resentation skills	S		
Content	markets, the in management of many economic empirical result different areas	centive problems f financial product situations. The ness of valuation, ris (e.g., in corporate	ral and in particular the in management paymer is and insurance contract and will focus on the k taking and management finance, banking and intentional intentions, dynamic models of the second second in the second secon	nts, the valuation cts are central quoretical models a ent as well as reg nsurance regulati	and risk uestions of as well as culation in ion, pricing		
Prerequisites for	At least one adv						
attending		vanced module in	Financial Economics.				
attenumg		Vanced module in		Contact time per week	Workload [h]		
	Lectures			-			
Course Type				per week	[h] 60 30		
	Lectures Presentations Discussion Gro	Lecture, Sem		per week 2 hrs 1 hrs 1 hrs	[h] 60 30 30		
	Lectures Presentations	Lecture, Sem ups	ninar	per week 2 hrs 1 hrs	[h] 60 30		
	Lectures Presentations Discussion Gro	Lecture, Sem	ninar	per week 2 hrs 1 hrs 1 hrs 4 hrs Grad	[h] 60 30 30 30 300		
	Lectures Presentations Discussion Grod Selfstudy presentation (of other presentation (of other presentation (of other presentation) in the presentation (ups Type of Examir ral & slides), resertions, participation will be a weighted nation, ii) the resertation in discussion	nation arch paper, report of in discussions average of (the quality earch paper, iii) reports as. of participants, the t as a group task	per week 2 hrs 1 hrs 1 hrs 4 hrs Grad	[h] 60 30 30 30 300		
Course Type	Lectures Presentations Discussion Grod Selfstudy presentation (of other presentation (of other presentation (of other presentation) in the presentation (Lecture, Semups Type of Examination, ii) the reseation in discussion the actual number as to be carried ou	nation arch paper, report of in discussions average of (the quality earch paper, iii) reports as. of participants, the t as a group task	per week 2 hrs 1 hrs 1 hrs 4 hrs Grad	[h] 60 30 30 30 330		

Project Module	in Macroec	onomics & P	ublic Economics	universit	ät <mark>bonn</mark>
Module Number 332023050	Workload 450 h	Credits 15 CP	Duration 1 Semester	Cycle yearly, winter	
Responsible Faculty Member	Prof. Dr. Chris	stian Bayer	1	,	
Department	Department o	f Economics			
0	Title			Character	Study Term
Study Program	Master of Science Economics				3rd
Learning Outcomes	be familiar wit module, be ab Economics, be questions in E acquainted wi	th the basics of scole to do a literature capable of definitions and devoth academic reseate	odule students should: ientific methods relevance search, read and doing research topics, for reloping a research aparch methods relevant sent and defend in cla	ant for the topic of to ocument scientific a rmulating specific r proach to investiga for investigating th	rticles in research te, be e project's
Key Skills	academic rese	earch, academic w	riting, rhetorical skills	, presentation skills	S
Content	market interactive of allow for (explored) The module wapplication.	ctions in the aggre of the economic de icit) aggregation a ill focus on theore	noved to explore the quegate economy. These ecision problems single and finally to address a tical models, their solutions.	quantitative models e agents in the eco a variety of research ution and their emp	s focus on nomy face, n questions pirical
Prerequisites for attending	Basic module & <i>Public Econd</i>		and at least one advan	ced module in <i>Maci</i>	roeconomics
		Lecture, Semi	nar, etc.	Contact time per week	Workload [h]
Course Type	Lectures			2 hrs	60
Course Type	Presentations			1 hrs	30
	Discussion Gr	oups		1 hrs	30
	Selfstudy			4 hrs	330
		Type of Exami		Grad	les
Examination(s)	other presenta The final grad of) i) the prese and iv) partici Depending on project work h	ations, participation e will be a weighte entation, ii) the res pation in discussion the actual numbe	ed average of (the qual search paper, iii) repor ons. or of participants, the ut as a group task	ity	
Special Course Achievements	none			ı	
Other	choose a proje	ect from a list of s	roductory lectures (4h pecific cooperation pro		ey wish to

Project Module Management ar		licroeconomi	cs	universit	atbonn
Module Number 332123050	Workload 450 h	Credits 15 CP	Duration 1 Semester	Cycle yearly, winter t	
Responsible Faculty Member	Prof. Dr. Matth	ias Kräkel		·	
Department	Department of	Economics			
Charles Dungaryons		Title		Character	Study Term
Study Program	M	laster of Science I	Economics	Advanced Module	3rd
Learning Outcomes	be familiar with module, be abl Economics, be questions in Ec acquainted witl	n the basics of sci e to do a literatur capable of definir conomics and deve n academic resea	dule students should: entific methods releva e search, read and do ng research topics, for eloping a research app rch methods relevant f ent and defend in clas	cument scientific a mulating specific r proach to investigator for investigating th	rticles in esearch te, be e project's
Key Skills	academic resea	arch, academic wi	riting, rhetorical skills,	presentation skills	5
Content	for example, a individual payo module will foc and incentive is economics and	group's joint outo ff maximization le us on theoretical ssues in different industrial organi blic goods, the in	ems are at the heart of ome is highest if group eads to free-riding and models as well as emp areas (e.g., in public e zation). For example, I teraction of employees	p members cooper cooperation failur pirical results of co conomics, personr ight will be shed or	ate, but es. The operation nel n the
Prerequisites for attending	Basic module <i>M Applied Microed</i>		nd at least one advance	ed module in <i>Mana</i>	gement &
		Lecture, Semir	nar, etc.	Contact time per week	Workload [h]
Course Type	Lectures			2 hrs	60
Course 1, pc	Presentations			1 hrs	30
	Discussion Gro Selfstudy	ups		1 hrs 4 hrs	30
	ochstady	Type of Exami	nation	Grad	
Examination(s)	other presental The final grade of) i) the present and iv) particip Depending on the project work ha	ral & slides), resections, participation will be a weighten tation, ii) the resection in discussion che actual number	earch paper, report of n in discussions d average of (the quali earch paper, iii) repor- ns. r of participants, the ut as a group task	yes	
Special Course Achievements	none			,	
Other	choose a project increase their k 7-12). During t	ct from a list of sp knowledge. Studer hat time, students	roductory lectures (4h becific cooperation pro hts have to work on thi s and supervisors will l tudents have to hand i	blems in which the s project on their of have regular feedb	ey wish to own (week ack

January 2012

Module Number 332121050	Workload 450 h	Credits 15 CP	Duration 1 Semester	universita cycle yearly, winter t	
Responsible Faculty Member	Prof. Dr. Desz		1 Serriester	yearry, willter t	emi
Department	Department of	f Economics			
		Title		Character	Study Term
Study Program	N	Master of Science	Advanced Module	3rd	
Learning Outcomes	be familiar wit be able to do a capable of def and developing methods relev	th the basics of sc a literature search ining research top g a research appro	odule students should: ientific methods relevant i, read and document scie ics, formulating specific bach to investigate, be ac ing the project's topic, be eir research	entific articles in research questic quainted with ac	Economics, be ons in Economics cademic research
Key Skills	academic rese	earch, academic w	riting, rhetorical skills, p	resentation skills	3
Content	outcomes. Inc contracts or si strategic agen	entives are provid imply procedural i ts in various conte	ves to reveal information ed through different form rules. We study theoretica exts. One such context is	is of social intera al models of inte	actions, be that ractions among
	governing the them in practi- within firms ar	interactions between ce. Other contexts and further applicates		its standing con anization of and	as the ones nmittees - as we se optimal contractin
	governing the them in practi- within firms ar	interactions between ce. Other contexts and further applicates the context and further applicat	een the US congress and include the optimal orga	its standing con anization of and	as the ones nmittees - as we se optimal contractin
	governing the them in practi- within firms ar	interactions between ce. Other contexts and further applicates the context and further applicat	een the US congress and sinclude the optimal orgations. Indicate the advanced at least one advanced	its standing con anization of and	as the ones nmittees - as we se optimal contractin
for attending	governing the them in practi- within firms ar	interactions betwee ce. Other contexts and further applicate Microeconomics and	een the US congress and sinclude the optimal orgations. Indicate the advanced at least one advanced	its standing comenization of and module in Micro	as the ones nmittees - as we se optimal contractin peconomic Theory.
for attending	governing the them in practi within firms ar Basic module	interactions betwee ce. Other contexts and further applicate Microeconomics and	een the US congress and sinclude the optimal orgations. Indicate the advanced at least one advanced	its standing com anization of and module in Micro Contact time per week	as the ones nmittees - as we se optimal contractin peconomic Theory. Workload [h]
for attending	governing the them in practi-within firms and Basic module Lectures	interactions betwee ce. Other contexts nd further applicat Microeconomics a Lectures, Tutor	een the US congress and sinclude the optimal orgations. Indicate the advanced at least one advanced	module in Micro Contact time per week 2 hrs	as the ones nmittees - as we se optimal contractin peconomic Theory. Workload [h]
for attending	governing the them in practic within firms are Basic module Lectures Presentations	interactions betwee ce. Other contexts nd further applicat Microeconomics a Lectures, Tutor	een the US congress and sinclude the optimal orgations. Indicate the advanced at least one advanced	module in Micro Contact time per week 2 hrs 1 hrs	workload [h]
for attending	governing the them in practive within firms and Basic module Lectures Presentations Discussion Ground Them in practically and practically a	interactions betwee ce. Other contexts nd further applicat Microeconomics a Lectures, Tutor	een the US congress and sinclude the optimal orgations. Ind at least one advanced rials, etc.	module in Micro Contact time per week 2 hrs 1 hrs 1 hrs 4 hrs	workload [h] 60 30 30
for attending Course Type	governing the them in practive within firms and Basic module Lectures Presentations Discussion Ground Selfstudy presentation (contempresentation (contempresentation) in the presentation (contempres	interactions between ce. Other contexts and further applicated the further applications. Type of Examinations, participations, par	een the US congress and sinclude the optimal orgations. Ind at least one advanced rials, etc. Indiation Earch paper, report of on in discussions ed average of (the quality search paper, iii) reports ons. In of participants, the ut as a group task	module in Micro Contact time per week 2 hrs 1 hrs 1 hrs 4 hrs	workload [h] 60 30 30 330
Prerequisites for attending Course Type Examination(s) Special Course Achievements	governing the them in practive within firms and Basic module Lectures Presentations Discussion Ground Selfstudy presentation (contempresentation (contempresentation) in the presentation (contempres	interactions between ce. Other contexts and further applicated the further applications, participations, participa	een the US congress and sinclude the optimal orgations. Ind at least one advanced rials, etc. Indiation Earch paper, report of on in discussions ed average of (the quality search paper, iii) reports ons. In of participants, the ut as a group task	module in Micro Contact time per week 2 hrs 1 hrs 1 hrs 4 hrs	workload [h] 60 30 30 330 Grades

Statistical Infe	rence						
Module Number 332125030	Workload 225 h	Credits 7,5 CP	Duration 1 Term	universitätbonn Cycle yearly; winter term			
Responsible Faculty Member	Prof. Dr. Alois Kneip						
Institute	Department of Economics						
		Title		Character	Study Term		
Study Program	Mast	er of Science Eco	nomics	Advanced Module	3rd		
Learning Outcomes	concepts of mo methodological	dern statistical ir discussions of st s. Participants ar	ents with an unders ference. It enables atistical procedure e prepared for a se	them to follows proposed in	v original		
Key Skills							
Learning Content	It concentrates statistical inferen	on concepts and ence. Finite samp	methods for the ar theoretical founda le and asymptotic re derived and disc	tions of conter properties of p	nporary		
Prerequisites for attending							
	L	ecture, Seminar	etc.	Contact time	Workload [h]		
Course Type	lecture and tuto	orial		4 hrs per week	(c) 60 (s) 165		
	•	Type of Examinat	ion	Grad	des		
Examination(s)	written or oral e	exam		ye	S		
Special Course Achievements				I			
Other							

⁽c) contact time per term / (s) self study per term

Stochastic Fina	ncial Markets			universit	ätbonn			
Module Number 332122010	Workload 225 h							
Responsible Faculty Member	Prof. Dr. Klaus Sandmann							
Institute	Department of Economics							
Study Program		Title		Character	Study Term			
Study i Togram	Mast	er of Science E	conomics	Advanced Module	3rd			
Learning Outcomes	participants sho to provide stude and its applicat enables them to	ould get familia ents with an ur ion for the risk o critical review	or with recent con derstanding of th management of different modelli	n theoretical result tributions. The co le arbitrage pricing derivative contracting approaches ar ir basic financial s	urse aims g theory ts. It id to			
Key Skills								
Learning Content	under uncertair interest rate the well as exchang like the marting financial derival pricing and hed	nty. Starting wire modelling frage rate risks. The gale and the for tives will be disping of interes	th different mode mework will be ex ne application of o ward risk adjuste ccussed. Special of t rate and exchan	nodel of a financial is of the term structended to cover edifferent pricing mad measure for the emphasis will be ge rate depending options and structers.	cture of quity as leasures pricing of liven to the g financial			
Prerequisites for attending	Basic Module F	inance						
	l	ecture, Semin	ar, etc.	Contact time	Workload [h]			
Course Type	lecture and tuto	orial		4 hrs per week	(c) 60 (s) 165			
Examination(s)		Гуре of Examir	ation	Gra	des			
Zxammation(s)	written or oral e	exam		ye	:S			
Special Course Achievements								
Other								

Stochastic Proc	cesses			universit	ät bonn			
Module Number 332125029	Workload 225 h							
Responsible Faculty Member		Prof. Dr. Lorens Imhof						
Institute	Department of	Department of Economics						
Study Program		Title		Character	Study Term			
Study Flogram	Mast	er of Science Eco	onomics	Advanced Module	3rd			
Learning Outcomes	processes and	they achieve the t the current resea	ng of fundamental c echnical competen rch literature and f	ce needed for				
Key Skills								
Learning Content	stochastic proc analysing mode	esses. The studer els of time-depend	to the theory and nts are provided wident phenomena untal al and asymptotic	th tools for bunder random in	ilding and nfluences.			
Prerequisites for attending								
_	L	ecture, Seminar	, etc.	Contact time	Workload [h]			
Course Type	lecture and tuto	orial		4 hrs per week	(c) 60 (s) 165			
		Type of Examinat	ion	Gra	des			
Examination(s)	written or oral e	written or oral exam y						
Special Course Achievements				1				
Other								

Time Series Ec	onometrics			universit	ätbonn		
Module Number 332125031	Workload 225 hCredits 7,5 CPDuration 1 TermCycle 						
Responsible Faculty Member	Prof. Dr. Jörg E	Breitung					
Institute	Department of	Economics					
Charles Bus servers		Title					
Study Program	Mas	ter of Science Eco	onomics	Advanced Module	2nd		
Learning Outcomes	tools and techr multivariate tin applied time se topics in time s	The goals of the course are threefold: (1) develop a comprehensive set of tools and techniques for analysing various forms of univariate and multivariate time series, and for understanding the current literature in applied time series econometrics; (2) survey some of the current research topics in time series econometrics; (3) show how to use up-to-date econometric software to estimate time series models.					
Key Skills							
Learning Content	series methods used in econon	This course gives an overview of the theory and application of modern time series methods. The topics will focus on time series methods commonly used in economic and financial applications. These include ARIMA models, unit root processes, cointegration and vector autoregressions.					
Prerequisites for attending	Basic Module E	conometrics					
	ı	Lecture, Seminar	, etc.	Contact time	Workload [h]		
Course Type	lecture and tut	orial	4 hrs per week	(c) 60 (s) 165			
Examination(s)		Type of Examination		Grad	Grades		
Lxammation(s)	written or oral exam			ye	yes		
Special Course Achievements							
Other							

Topics in Econo	ometrics and S	Statistics		universit	ät <mark>bonn</mark>		
Module Number 332134008	Workload 225 h	Credits 7,5 CP	Duration 1 Term	Cycle: summer/winter			
Responsible Faculty Member		Prof. Dr. Jörg Breitung. Prof. Dr. Matei Demetrescu, Prof. Dr. Lorens Imhof, Prof. Dr. Alois Kneip					
Institute	Department of	Department of Economics					
CL L D		Study Progra	am	Character	Study Term		
Study Program	Mas	Advanced Module	2nd/3rd				
Learning Outcomes	literature and t encounter diffic guided to focus do independen	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 are guided to focus on the essential problems. The course prepares students to do independent research and to participate in the joint research activities of the Economics Department.					
Key Skills							
Learning Content	This course covers current research topics in econometric theory and applications, 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.						
Prerequisites for attending			conomists with a grad ith a grade of 2,3 or		ıbove;		
	ı	Lecture, Seminar, etc.					
Course Type	seminar 2 hrs production was maximum number of participants: 15 week				(c) 30 (s) 195		
	Type of Examination Grades						
Examination(s)	Term paper and an oral presentation on a selected research paper				S		
Special Course Achievements				1			
Other							

Topics in Finan	cial Economic	s		universit	ät <mark>bonn</mark>			
Module Number	Workload	Credits	Duration	Cycle				
332133003	225 h	7,5 CP	1 Term	yearly; winter term				
Responsible Faculty Member	Prof. Dr. Klaus	Prof. Dr. Klaus Sandmann,						
Institute	Department of I	Economics						
Study Program		Study Program	1	Character	Study Term			
Study Program	Mast	er of Science Eco	onomics	Advanced Module	3rd			
Learning Outcomes	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.							
Key Skills								
Learning 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.							
Prerequisites for attending		Basic Module <i>Mathematic for Economists</i> with a grade of 2,3 and above; corresponding Basic Module with a grade of 2,3 or above.						
	L	.ecture, Seminar	, etc.	Contact time	Workload [h]			
Course Type	Seminar 2 hrs per week							
	Maximum number of participant: 15 (s) 195							
	Type of Examination Grades							
Examination(s)	Term paper and research paper	d an oral presenta	esentation on a selected yes					
Special Course Achievements								
Other								

Topics in Macro	peconomics ar	nd Public Ec	onomics	universit	äthonn		
Module Number 332121008	Workload 225 h	Credits 7,5 CP	Duration 1 Term	Cycle yearly; winter term			
Responsible Faculty Member	Prof. Dr. Jürger	von Hagen	1				
Institute	Department of	Economics					
Q		Title		Character	Study Term		
Study Program	Mast	er of Science E	Conomics	Advanced Module	3rd		
Learning Outcomes	literature and to encounter diffic learn to narrow course prepare	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.					
Key Skills							
Learning 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.						
Prerequisites for attending		Basic Module <i>Mathematic for Economists</i> with a grade of 2,3 and above; corresponding Basic Module with a grade of 2,3 or above.					
	Lecture, Seminar, etc. Contact Workl						
Course Type	Seminar 2 hrs per (c) Maximum number of participants: 15 week (s) 19						
	Type of Examination Grades						
Examination(s)	Term paper and an oral presentation on a selected yes research paper.				S		
Special Course Achievements							
Other							

Topics in Mana	gement and A	pplied Microe	conomics	univercit	äthonn		
Module Number 332122004	Workload 225 h	Credits 7,5 CP	Duration 1 Term	universität <mark>bonn</mark> Cycle yearly; winter term			
Responsible Faculty Member	Prof. Dr. Jörg B	udde, Prof. Dr. l	Jrs Schweizer, Prof.	Dr. Matthias	Kräkel		
Institute	Department of I	Economics					
CL L D		Title		Character	Study Term		
Study Program	Master of Science Economics			Advanced Module	3rd		
Learning Outcomes	literature and to encounter diffic learn to narrow course prepares	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.					
Key Skills							
Learning 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.						
Prerequisites for attending		Basic Module <i>Mathematic for Economists</i> with a grade of 2,3 and above; corresponding Basic Module with a grade of 2,3 or above.					
Course Type	L	.ecture, Seminar	, etc.	Contact time	Workload [h]		
	Seminar 2 hrs per (c) 30 Maximum number of participants: 15 week (s) 195						
Examination(s)	Type of Examination Grades						
	Term paper and an oral presentation on a selected yes research paper						
Special Course Achievements							
Other							

Topics in Micro	economic The	eory		universit	äthonn			
Module Number 332125034	Workload 225 h	Credits 7,5 CP	Duration 1 Term	universitätbonn Cycle yearly; summer term				
Responsible Faculty Member	Prof. Dr. Benny	Prof. Dr. Benny Moldovanu						
Institute	Department of	Department of Economics						
CI I D		Title		Character	Study Term			
Study Program	Mast	er of Science Ec	onomics	Advanced Module	2nd			
Learning Outcomes	literature and to encounter diffic learn to narrow course prepares	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.						
Key Skills								
Learning 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.							
Prerequisites for attending			nomists with a grad h a grade of 2,3 or		bove;			
	L	Contact time	Workload [h]					
Course Type	Seminar Maximum numl	2 hrs per week	(c) 30 (s) 195					
	Type of Examination			Grades				
Examination(s)	Term paper and an oral presentation on a selected research paper.							
Special Course Achievements								
Other		-		_	_			

Master Thesis					unive	ersi	tätbonn	
Modulnummer 8000	Workload 900 h	Umfang 30 CP	Dauer Modu 1 Term	il	Turnus summer / winter term			
Responsible Faculty Member	Head of Exar	minations Con	nmittee					
Institute	Department	of Economics						
		Title		Ch	aracter	,	Study Term	
Study Program	Master o	of Science Eco	nomics	Cor	mpulso		4th term	
Learning Outcomes	to synthesize literature. The economic tra	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.						
Key Skills								
Learning Content	selected pap	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.						
Prerequisites for attending								
Course Type	L	ecture, Semina	ar, etc.		Conta Time		Workload [h]	
							s (900)	
	Prüfungsform(en) Gr					Gra	rades	
Examination(s)	Written acad within 4 mor	emic paper; n nths	nax. 40 page	es		у	es	
Special Course Achievements								
Other								