

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	Project Module (Study Area 1)		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:	Legend:								
Basic N	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	
Widule Hel	ВМ	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	i t
Module Number 332124029	WorkloadCreditsDurationCycle225 h7,5 CP1 Termyearly; summer ter				
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			
	ı	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 exam			ye	S
Special Course Achievements					
Other					

Behavioral Economics				universit	äthonn
Module Number 332123019	WorkloadCreditsDurationCycle225 h7,5 CP1 Termyearly; summer term				
Responsible Faculty Member	Prof. Dr. Daniel	Krähmer			
Department	Department of	Economics			
		Title		Character	Study Term
Study Program	Mast	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 iour, (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 lomic 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	ore 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	ye	S		
Special Course Achievements					
Other					

Econometric The	ory							
	- T	T	T	<u>universität<b>bonn</b></u>				
Module Number 332125028	Workload 225 hCredits 7,5 CPDuration 1 TermCycle yearly; winter term							
Responsible Faculty Member	Prof. Dr. Jörg	Breitung	I	-				
Institute	Department o	f Economics						
Study Program		Title		Character	Study Term			
Study Program	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 c cy, 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			
	written or ora	l exam		ye	·s			
Special Course Achievements								
Other								

<sup>(</sup>c) contact time per term / (s) self study per term

Econometrics					À
Leonometries				universit	ät <mark>bo</mark> nn
Module Number	Workload	Credits	Duration	Cycle	01 2
332110005	225 h	7,5 CP	1 Term	yearly; winte	r 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	nethods for the gorous treatme inear and gener lls. Furthermore	to provide a thoro analysis of time se nt of various class alized regression, e, the course provi chniques using up-	eries and cross se ical econometric specification test des practical expe	ction data. topics s and erience
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					

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

Econometrics I	I: Computati	onal Statistics	5	universit	ät <b>bonn</b>		
Module Number 331215035	Workload 225 h	<b>Credits</b> 7,5 CP	<b>Duration</b> 1 Term	<b>Cycle</b> yearly; sumn			
Responsible Faculty Member	Prof. Dr. Alois	Kneip	•	,			
Institute	Department o	f Economics					
Study Duaguan		Title		Character	Study Term		
Study Program	Ма	ster of Science E	Conomics	Advanced Module	2nd		
Learning Outcomes	concepts and technical com and enables s	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 unde	rlying ideas, and I emphasis is pla	ationally intensive methodological is iced on algorithmi	ssues are discuss	ed in		
Prerequisites for attending							
		Lecture, Semin	ar, etc.	Contact time	Workload [h]		
Course Type	lecture and tutorial			4 hrs per week	(c) 60 (s) 165		
		Type of Examir	nation	Grad	des		
Examination(s)	written or ora	written or oral exam					
Special Course Achievements				•			
Other							

<sup>(</sup>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	<b>Duration</b> 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, tutorial, etc.			Contact time	Workload [h]
Course Type	lecture and tutorial			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					

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

Finance					
Module Number 332110004	Workload 225 h	Credits 7,5 CP	<b>Duration</b> 1 Term	universit Cycle yearly; winte	
Responsible Faculty Member		1	1 2 10	[ ] ca. i.j., willie	
Department	Department of	Economics			
Study Program		Title		Character	Study Term
Study i rogram	Mast	ter of Science Ec	onomics	Basic Module	1st
Learning Outcomes	most important and understand	t theories in fina d original researd	vide students with ncial economics. I th literature, to tak e foundation for sp	t enables studer ๙e a stand on cน	nts to read irrent
Key Skills					
Content	its implications areas of moder certainty and u	for corporate fin n finance, includ	introduction into thancial manageme ing the theory of i ricing of assets an ncial policy.	ent. It covers the nvestments und	e main er
Prerequisites for attending					
	ı	Lecture, Semina	r, etc.	Contact time	Workload [h]
Course Type	lecture and tuto	orial		4 hrs per week	(c)60 (s) 165
		Type of Examina	tion	Gra	des
Examination(s)	written exam			ye	?S
Special Course Achievements					
Other				_	

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

Game Theory				universit	ät <mark>bonn</mark>		
Module Number 33121003	<b>Workload</b> 225 h						
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		
Examination(s)	written or oral exam			yes			
Special Course Achievements							
Other							

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

Industrial Orga	nization			universit	ät <mark>bonn</mark>
Module Number 332123016	<b>Workload</b> 225 h	Credits 7,5 CP	<b>Duration</b> 1 Term	Cycle yearly; winte	r term
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 Ec	onomics	Advanced Module	3rd
Learning Outcomes	industrial organ theoretical idea	nization. In parti s and important	th basic tools and s cular, they learn ho formal techniques t id (iii) relate theore	w to (i) apply l to selected qu	key estions, (ii)
Key Skills					
Learning Content	that aim at expl Within the conto theoretical IO a with empirical 6	laining firm beha ext of static and re taught and so evidence. The sec	ents models in indu viour in different st dynamic oligopoly r me key theoretical i cond part of the cou , collusion or preda	rategic enviror models, standa results are cor irse will focus	nments. ard tools of afronted on
Prerequisites for attending	Basic Module N	<i>licroeconomics</i>			
	L	ecture, Seminai	, etc.	Contact time	Workload [h]
Course Type	lecture and tuto	orial		4 hrs per week	(c) 60 (s) 165
Francisco Harris		Type of Examina	tion	Grad	des
Examination(s)	written or oral e	yes			
Special Course Achievements					
Other				•	

<sup>(</sup>c) contact time per term / (s) self study per term

Institutional Ec	onomics			universit	ät <mark>bonn</mark>	
Module Number 332123018	Workload 225 h	Credits 7,5 CP	<b>Duration</b> 1 Term	Cycle yearly; sumn		
Responsible Faculty Member	Prof. Dr. Urs So	chweizer				
Institute	Department of	Economics				
Charles Days areas		Title		Character	Study Term	
Study Program	Mas	ter of Science Eco	onomics	Advanced Module	2nd	
Learning Outcomes	institutions, to	describe strategi o evaluate institu	entives as they aris c interaction within tions from the econ	institutions (p	ositive	
Key Skills						
Learning Content	economic analy institutions tha	sis of institutions t are of utmost ir	pplied game theory s. Particular empha nportance as far as mic activities are c	sis is put on to coordinating,		
Prerequisites for attending	Basic Module A	Microeconomics				
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(3)	written or oral	vritten or oral exam yes				
Special Course Achievements						
Other						

International Eco	nomics and	l Finance		universit	ät <mark>bonn</mark>			
Module Number 332122010	WorkloadCreditsDurationCycle225 h7,5 CP1 Termyearly; summer term							
Responsible Faculty Member	Prof. Dr. Ger	rnot Müller						
Institute	Department	of Economics						
Charles Bassacce		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 received gre	exible price mon to sticky price of the New Ope analyze the mac he course also at attention by r	dels which serve a models, both of the Economic Macroeconomic effect covers a number c	ange rates, we sta as a theoretical be he traditional Mun oeconomics varied s of different polic of anomalies which such as deviation power parity.	nchmark. ndell- ty. This will by n have			
Prerequisites for attending	Basic Modul	e Macroeconomi	cs					
<u> </u>		Lecture, Semi	nar, etc.	Contact time	Workload [h]			
Course Type	lecture and	tutorial		3+1 hrs per week	(c) 60 (s) 165			
		Type of Exam	ination	Grad	des			
Examination(s)	written or oral exam yes							
Special Course Achievements								
Other	(1996): Four	ndations of Inter rnational Macro	national Macroec	Obstfeld 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	<b>Duration</b> 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	This course covers current theories and empirical methods to explain labor market developments and population dynamics in selected industrialized countries. The course focuses in particular on the interaction between these two areas. It also stresses the importance of institutions in explaining differences in labor market and population performance across countries.					
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						
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	<b>Duration</b> 1 Term	Cycle	, torm		
Responsible Faculty		mas Hintermaie		yearly; winter	term		
Member	Prof. Dr. Tho	mas mintermalei					
Department	Department of	of Economics					
Charles Days areas		Title		Character	Study Term		
Study Program	Ma	aster of Science	Economics	Basic Module	1st		
Learning Outcomes	methodologic debates in dy background r	cal framework ur rnamic macroeco required to unde	is to acquaint stud iderlying current re nomics. This will p rstand current rese scussion of macroe	esearch and acade provide them with earch literature an	the d a		
Key Skills	Model based	Model based economic analysis					
Content	macroeconon growth theory The first part	nic theory for gray, real business of deals with the colle in the last two	duction into the cuaduate students. It cycle theory, and finestion what make parts dynamic sto	is divided in thre nancial macroeco es economies grov	nomics. v in the		
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 Examination Gr						
Examination(s)	written exam yes				S		
Special Course Achievements							
Other		ickens, "Macroe	organized accordir conomic Theory", (				

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

Macroeconomics	II: Dynamic	Macroecond	omics	universit	ät <b>bonn</b>			
Module Number 332122017	Workload 225 h	Credits 7,5 CP	<b>Duration</b> 1 Term	Cycle yearly; sumn	ner term			
Responsible Faculty Member	Prof. Dr. Chr	1 .	1 Tellii	yearry, surrin				
Department	Department (	of Economics						
		Title		Character	Study Term			
Study Program	Ma	ster of Science	Economics	Advanced Module	2nd			
Learning Outcomes	students with macroeconor problems. Se studied theor theory, savin	The course has two aims. First and foremost, it aims at acquainting students with the numerical techniques needed to understand modern macroeconomic analysis involving the solution of dynamic programming problems. Second, it repeats in an applied manner concepts and results studied theoretically in the macroeconomics basic course: business cycle theory, savings decisions, general equilibrium with imperfect capital markets, heterogeneous agent economies etc.						
Key Skills								
Learning Content	dynamic progon these algo techniques a model econo general equli	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 Module	e Macroeconomi	cs					
Course Turns		Lecture, Semi	nar, etc.	Contact time	Workload [h]			
Course Type	lecture and t	utorial		4 hrs per week	(c) 60 (s) 165			
Examination(s)		Type of Exami	nation	Gra	des			
Lxammation(3)	written or ora	al exam		ye	:S			
Special Course Achievements								
Other	programming Primary read * Burkhard u Computation 2008 * Jerome Add	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 Acc	universit	äthonn					
Module Number 332123015	Workload 225 h	Credits 7,5 CP	<b>Duration</b> 1 Term	Cycle yearly; winte			
Responsible Faculty Member	Prof. Dr. Jörg	Budde					
Institute	Department o	f Economics					
Study Drogram		Title		Character	Study Term		
Study Program	Ма	ster of Science E	Economics	Advanced Module	3rd		
Learning Outcomes	systems in fir arrangements	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 course covers Theoretical co	coordination of information sys	of information in fi decisions in decer tems as well as in red and then used	ntralized organiza struments of coor	tions. The dination.		
Prerequisites for attending	Basic Module	Microeconomics					
_		Lecture, Semin	ar, etc.	Contact time	Workload [h]		
Course Type	lecture and tu	itorial		4 hrs per week	(c) 60 (s) 165		
Examination(s)	Type of Examination Grades						
Examination(3)	written or oral exam yes						
Special Course Achievements							
Other							

Mathematics for	Economists				Å
				universit	ät <mark>bonn</mark>
Module Number	Workload Credits Duration Cycle				
332110001	225 h	7,5 CP	1 Term	yearly; winte	r term
Responsible Faculty Member	Dr. Reinhard	John			
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	of mere recipes a . It enables part the economic lit a rigorous way a ch for help in the	th the use of mathers is required for underlined for underlined for advance literature, as need within the Master	Indertaking advan athematical proof te mathematical p Inced economics. S ds arise along his	ced studies s proofs of students
Key Skills					
Content	importance for interest, inclu	or economists, t uding basic topo	cover all fields tha his course deals w logical concepts, f eneralized convex (	ith topics that are undamental existe	of general ence
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	nation	Grad	des
Examination(s)	written exam		ye	es .	
Special Course Achievements				,	
Other			ersion, a special m Economic Researc		r students

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

Mechanism Design and Contract Theory				universität <b>bonn</b>			
Module Number 332121004	<b>Workload</b> 225 h	Credits 7,5 CP	<b>Duration</b> 1 Term	Cycle yearly; sumn			
Responsible Faculty Member	Prof. Dr. Benr	ny Moldovanu					
Department	Department o	f Economics					
Study Brogram		Title		Character	Study Term		
Study Program	Mas	ter of Science Ec	onomics	Advanced Module	2nd		
Learning Outcomes	competence to 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 theor that unite the	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.					
<b>Entry Requirements</b>		e Microeconomi					
Course Type		Lecture, Seminai	, etc.	Contact time	Workload [h]		
Course Type	lecture and tu			4 hrs per week	(c) 60 (s) 165		
Examination(s)	•••	Type of Examina	Grad	des			
Lamination(5)	written or ora	I exam		yes			
Special Course Achievements							
Other							
<u> </u>							

<sup>(</sup>c) contact time per term / (s) self study per term

Microeconomet	rics			universit	ätbonn		
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							

<sup>(</sup>c) contact time per term / (s) self study per term

Microeconomic	s			universit	ät <mark>bonn</mark>		
Module Number 332110002	Workload 225 h	Credits 7,5 CP	<b>Duration</b> 1 Term	<b>Cycle</b> 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	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							

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

Microeconomic	s II			universit	ät <b>bonn</b>		
Module Number 332121010	Workload 225 h	Credits 7,5 CP	<b>Duration</b> 1 Term	Cycle yearly; sumn			
Responsible Faculty Member	Prof. Dr. Benny	/ Moldovanu	,	,			
Department	Department of	Economics					
Study Program		Study Prog	ram	Character	Study Term		
Study Frogram	Mas	ter of Science	Economics	Advanced Module	2 <sup>nd</sup>		
Learning Outcomes	microeconomic exposure to a v	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 lec	of information ture provides a	pics in microecond in economics, soci a rigorous foundat cepts, and gives a	al choice and med ion for common m	chanism nodeling		
Prerequisites for attending							
O T	I	Lecture, Semii	ıar, etc.	Contact time	Workload [h]		
Course Type	lecture and tute	lecture and tutorial			(c) 60 (s) 165		
Fuencination(s)	Type of Examination week (s) 165  Grades						
Examination(s)	written or oral	written or oral exam yes					
Special Course Achievements							
Other							

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

Monetary Econon	universität <b>bonn</b>						
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 Dun avenue		Title		Character	Study Term		
Study Program	Mas	ster of Science E	Conomics	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, linearization techniques of DSGE models					
Key Skills							
Learning Content	general equil effects are id cover the inte	ibrium models. I entified. Second	tary economics with First, conditions und , optimal policy is di tary and fiscal policy sector.	er which mone scussed. Furth	ey has real ner topics		
Prerequisites for attending	Basic Module	: Macroeconomic	s				
_		Lecture, Semin	ar, etc.	Contact time	Workload [h]		
Course Type	lecture and to	utorial		2+2 hrs per week	(c) 60 (s) 165		
	Type of Examination Grades						
Examination(s)	written or oral exam yes						
Special Course Achievements							
Other							

<sup>(</sup>c) contact time per term / (s) self study per term

Option Pricing				universit	ät <mark>bonn</mark>			
Module Number 332124023	Workload 225 h	<b>Credits</b> 7,5 CP	<b>Duration</b> 1 Term	<b>Cycle</b> yearly; sumr				
Responsible Faculty Member	Prof. Dr. Klaus Sandmann							
Institute	Department of Economics							
CL L D		Title		Character	Study Term			
Study Program	Mast	er of Science Ec	onomics	Advanced Module	2nd			
Learning Outcomes	Scholes option role of risk neut Students learn neutral pricing	pricing model. It tral pricing as th to apply the tech to nonstandard t	lents with an under enables them to e basis of modern nique including n inancial products sk management of	recognize the si option pricing umerical metho and to review tl	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 Schole Itegy and its app includes a discu ies and static or nore complex fin-	and hedging of opers. The model depolications to risk massion of the differ robust hedging. Eancial contracts we carlo method will	endency of the nanagement will rences between Beside standard ill be analysed.	perfect be dynamic options Numerical			
Prerequisites for attending	Basic Module F	inance						
	L	ecture, Semina	, etc.	Contact time	Workload [h]			
Course Type	lecture and tuto	orial		4 hrs per week	(c) 60 (s) 165			
Examination(s)	-	Type of Examina	tion	Gra	des			
Examination(s)	written or oral e	exam		y€	es es			
Special Course Achievements								
Other								

Organizations a	and Incentives			universit	äthonn				
Module Number 332123017	Workload 225 hCredits 7,5 CPDuration 1 TermCycle 								
Responsible Faculty Member	Prof. Dr. Matth	Prof. Dr. Matthias Kräkel							
Institute	Department of	Department of Economics							
Study Brogram		Title		Character	Study Term				
Study Program	Mast	ter of Science Ed	conomics	Advanced Module	2nd				
Learning Outcomes	results from inc the division of I students will lea	centive theory to abour within and arn that the four	apply game theory organizational prob d between different ndation of organizat and, at the same tin	olems which ar hierarchical lag ions 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 th ganizations. Inc ic information o rding to the nat	trade-off between in eoretical models on entive problems are r the impossibility oure of the incentive plementation in org	static and dyr analyzed which of writing comp problem at hai	namic h arise olete nd,				
Prerequisites for attending	Basic Module N	<i>dicroeconomics</i>							
	ı	_ecture, Semina	r, etc.	Contact time	Workload [h]				
Course Type	lecture and tuto	orial		4 hrs per week	(c) 60 (s) 165				
		Type of Examina	ntion	Grad	des				
Examination(s)	written or oral e	exam		ye	S				
Special Course Achievements									
Other									

Personnel Ecor	nomics			universit	ät <mark>bonn</mark>			
Module Number 332123014	Workload 225 h	<b>Cycle</b> yearly; winter term						
Responsible Faculty Member	Prof. Dr. Matthias Kräkel							
Institute	Department of Economics							
Chudu Dua awa na		Title		Character	Study Term			
Study Program	Mast	er of Science Eco	onomics	Advanced Module	3rd			
Learning Outcomes	employer's pers personnel politi internal allocati	sonnel politics ar cs in order to ge on of employees.	anding of (1) how end (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 pr positions they f with advanced v	oviding approprisit and by investmage theories and ers career theore	omics, efficiency of ate incentives, by ments in human capi d it addresses empl tical aspects pertind	natching emplo ital. This cours oyees' motiva	oyees to se deals tion. In			
Prerequisites for attending	Basic Module N	<i>licroeconomics</i>						
	ı	_ecture, seminar	, etc.	Contact time	Workload [h]			
Course Type	lecture and tuto	orial		4 hrs per week	(c) 60 (s) 165			
Evereination(s)	-	Type of Examina	tion	Grad	les			
Examination(s)	written or oral e	exam		ye	S			
Special Course Achievements								
Other								

Probability The	ory			universit	äthonn				
Module Number 332125032	Workload 225 hCredits 7,5 CPDuration 1 TermCycle 								
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 <b>bonn</b>			
Module Number 331215050	<b>Workload</b> 450 h	Credits 15 CP	<b>Duration</b> 1 Semester	Cycle yearly, summe	er term			
Responsible Faculty Member	Prof. Dr. Alois h	Kneip	-	<u>'</u>				
Department	Department of	Department of Economics						
Starta Barraya		Title		Character	Study Term			
Study Program	М	Master of Science Economics Adva						
Learning Outcomes	be familiar with module, be able Economics, be questions in Ec acquainted with	the basics of sc to do a literatur capable of defini onomics and dev a academic resea	odule students should ientific methods relevante search, read and doing research topics, for reloping a research apparch 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 lle will focus on t	statistical/econometric asoning. Statistical ar for analyzing large an the 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	ups		1	30			
1	Selfstudy			4	330			
		Type of Exami	ination	Grad	les			
Examination(s)	other presentat The final grade of) i) the preser and iv) particip Depending on t project work ha	ions, participation will be a weighten tation, ii) the resetion in discussion actual numbe	ed 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 s nowledge. Stude nat time, student eeks 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 hCredits 15 CPDuration 1 SemesterCycle 				
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	<b>[h]</b> 60 30
	Lectures Presentations Discussion Gro	Lecture, Sem		per week 2 hrs 1 hrs 1 hrs	[h] 60 30 30
	Lectures Presentations	<b>Lecture, Sem</b> ups	ninar	per week 2 hrs 1 hrs	<b>[h]</b> 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	<b>Workload</b> 450 h	Credits 15 CP	<b>Duration</b> 1 Semester	Cycle yearly, winter	
Responsible Faculty Member	Prof. Dr. Chris	stian Bayer	1	<b>,</b>	
Department	Department o	f Economics			
0	Title			Character	Study Term
Study Program	1	Master of Science	Advanced Module	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 develon 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	poved to explore the quagate 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 an		icroeconomi	cs	universitä	äthonn
Module Number 332123050	<b>Workload</b> 450 h	Credits 15 CP	<b>Duration</b> 1 Semester	Cycle yearly, winter t	
Responsible Faculty Member	Prof. Dr. Matthia	as Kräkel	·	•	
Department	Department of E	Conomics			
C		Title		Character	Study Term
Study Program	Ma	aster of Science	Economics	Advanced Module	3rd
Learning Outcomes	be familiar with module, be able Economics, be o questions in Eco acquainted with	the basics of sci to do a literatur capable of defining conomics and devi academic resea	dule students should: entific methods relevan e search, read and docing research topics, formeloping a research approach methods relevant foent and defend in class	ument scientific a nulating specific r oach to investiga or investigating th	rticles in esearch te, be e project's
Key Skills	academic resear	rch, academic w	riting, rhetorical skills, p	oresentation skills	S
Content	for example, a g individual payof module will focu and incentive iss economics and i	roup's joint outof maximization le is on theoretical sues in different industrial organi lic goods, the in	ems are at the heart of some is highest if group eads to free-riding and comodels as well as empiareas (e.g., in public eczation). For example, lighteraction of employees a	members cooper cooperation failure rical results of co conomics, personr ght will be shed or	rate, but es. The operation nel n the
Prerequisites for attending	Basic module <i>M</i> <i>Applied Microeco</i>		nd at least one advance	d module in <i>Mana</i>	gement &
		Lecture, Semir	nar, etc.	Contact time per week	Workload [h]
Course Type	Lectures			2 hrs	60
Course Type	Presentations			1 hrs	30
	Discussion Grou	ps		1 hrs	30
	Sensiday	Type of Evami	nation	1	330
Examination(s)	Type of Examination  Grace  Type of Examination  Grace  presentation (oral & slides), research paper, report of other presentations, participation in discussions  The final grade will be a weighted average of (the quality of) i) the presentation, ii) the research paper, iii) reports and iv) participation in discussions.  Depending on the actual number of participants, the project work has to be carried out as a group task rather than as an individual task.				
Special Course Achievements	none			'	
Other	choose a project increase their kr 7-12). During th meetings. In we give a presentat	t from a list of sp nowledge. Studer at time, students eks 13 and 14, s	roductory lectures (4h poecific cooperation prob nts have to work on this s and supervisors will he tudents have to hand in act in class. Finally, stud	plems in which the project on their of ave regular feedbo a short research	ey wish to own (week ack paper and

January 2012

Module Number 332121050	<b>Workload</b> 450 h	Credits 15 CP	<b>Duration</b> 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 Economics Advanced Module					
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 praction within firms ar	interactions betwee ce. Other contexts and further applicat		its standing con anization of and	as the ones nmittees - as we se optimal contractin		
	governing the them in praction within firms ar	interactions betwee ce. Other contexts 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 praction within firms ar	interactions between ce. Other contexts and further applicates	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 praction 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	interactions betwee ce. Other contexts and further applicated the microeconomics and the contexts. 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 and further applicated the microeconomics and the contexts. 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 and further applicated the microeconomics and the contexts. 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			universit	ät <mark>bonn</mark>		
Module Number 332125030	<b>Workload</b> 225 h						
Responsible Faculty Member	Prof. Dr. Alois Kneip						
Institute	Department of Economics						
0 5		Title		Character	Study Term		
Study Program	Mas	ter of Science Ec	onomics	Advanced Module	3rd		
Learning Outcomes	concepts of mo methodologica	odern statistical i I discussions of s s. Participants a	nference. It enab statistical proced	derstanding of fur bles them to follow lures proposed in a sensible use of s	v original		
Key Skills							
Learning Content	It concentrates statistical infer	on concepts and	d theoretical four ple and asympto	e analysis of com ndations of conter tic properties of p discussed.	nporary		
Prerequisites for attending							
		Lecture, Semina	r, etc.	Contact time	Workload [h]		
Course Type	lecture and tut	orial		4 hrs per week	(c) 60 (s) 165		
		Type of Examina	tion	Gra	des		
Examination(s)	written or oral	exam		ye	es		
Special Course Achievements				I			
Other							

<sup>(</sup>c) contact time per term / (s) self study per term

Stochastic Fina	ncial Markets	;		universit	ätbonn		
Module Number 332122010	Workload 225 hCredits 7,5 CPDuration 1 TermCycle 						
Responsible Faculty Member	Prof. Dr. Klaus Sandmann						
Institute	Department of Economics						
Study Program		Title		Character	Study Term		
otady i rogram	Mas	ter of Science I	Economics	Advanced Module	3rd		
Learning Outcomes	participants sh to provide stud and its applica enables them t	ould get familia ents with an un tion for the risk o critical review	vledge of the main to ar with recent contri- nderstanding of the a a management of de v different modelling products into their	butions. The co arbitrage pricin rivative contrac g approaches ar	urse aims g theory ts. It nd to		
Key Skills							
Learning Content	under uncertain interest rate th well as exchang like the marting financial deriva pricing and hed	nty. Starting wi e modelling fra ge rate risks. T gale and the fo Itives will be dis dging of interes	continuous time models the different models mework will be extended application of difference application of difference application of difference applications, currency open applications, currency of the difference applications application	of the term stru nded to cover e ferent pricing m measure for the phasis will be g rate depending	cture of quity as leasures e pricing of given to the g financial		
Prerequisites for attending	Basic Module F	inance					
		Lecture, Semir	ar, etc.	Contact time	Workload [h]		
Course Type	lecture and tut	orial		4 hrs per week	(c) 60 (s) 165		
Examination(s)		Type of Exami	nation	Gra	des		
- Examination(3)	written or oral	exam		ye	es		
Special Course Achievements							
Other							

Stochastic Proce	esses						
				universit	ät <mark>bonn</mark>		
Module Number	Workload	Credits	Duration	Cycle			
332125029	225 h 7,5 CP 1 Term yearly; winter term						
Responsible Faculty Member	Prof. Dr. Lorens Imhof						
Institute	Department of Economics						
Study Program		Character	Study Term				
Study Program	Mast	er of Science Eco	nomics	Advanced Module	3rd		
Learning Outcomes	processes and t	hey achieve the t he current resear	g of fundamental c echnical competen ch literature and fo	ce needed for			
Key Skills							
Learning Content	stochastic proce analysing mode	esses. The studer Is of time-depend	to the theory and a nts are provided wit lent phenomena un al and asymptotic	th tools for bu ider random ir	ilding and nfluences.		
Prerequisites for attending							
	L	ecture, Seminar,	etc.	Contact time	Workload [h]		
Course Type	lecture and tuto	rial		4 hrs per week	(c) 60 (s) 165		
	7	ype of Examinat	ion	Grad	des		
Examination(s)	written or oral e	xam		ye	S		
Special Course Achievements							
Other							

Time Series Ec	onometrics			universit	it bonn		
Module Number 332125031	Workload 225 h	Credits 7,5 CP	<b>Duration</b> 1 Term	universitätbonn Cycle yearly; summer term			
Responsible Faculty Member	Prof. Dr. Jörg B	reitung		•			
Institute	Department of	Economics					
a		Title					
Study Program	Mast	er of Science Ecc	nomics	Advanced Module	2nd		
Learning Outcomes	tools and techn multivariate tim 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 econom	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					
	Lecture, Seminar, etc.				Workload [h]		
Course Type	lecture and tuto	4 hrs per week	(c) 60 (s) 165				
Examination(s)	Type of Examination			Grades			
Examination(s)	written or oral exam			yes			
Special Course Achievements							
Other							

Topics in Econo	ometrics and	Statistics		universit	ät <mark>bonn</mark>		
Module Number 332134008	Workload 225 h	Credits 7,5 CP	<b>Duration</b> 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	Economics					
CL L D		Study Progr	am	Character	Study Term		
Study Program	Mas	Advanced Module	2nd/3rd				
Learning Outcomes	literature and encounter diffi guided to focu do independer	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		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.					
	Lactura Saminar atc				Workload [h]		
Course Type	seminar 2 hrs per (c) week (s) 1						
	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 Finan	cial Economic	s		universit	ät <b>bonn</b>			
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 (c) week							
	Maximum number of participant: 15 (s) 195							
	-	Type of Examination Grades						
Examination(s)	Term paper and research paper	d an oral presenta	ation on a selected	a selected yes				
Special Course Achievements								
Other								

Topics in Macro	oeconomics a	nd Public Ec	onomics	universit	ät <mark>bonn</mark>		
Module Number 332121008	Workload 225 h	Credits 7,5 CP	<b>Duration</b> 1 Term	<b>Cycle</b> yearly; winter term			
Responsible Faculty Member	Prof. Dr. Jürger	n von Hagen	1				
Institute	Department of	Department of Economics					
Charles Days and an		Title		Character	Study Term		
Study Program	Mast	ter of Science E	conomics	Advanced Module	3rd		
Learning Outcomes	literature and to encounter diffice 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	Economics, inc activities of the	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			conomists with a grad vith a grade of 2,3 or		ibove;		
	Lecture, Seminar, etc.  Contact Work time						
Course Type	Seminar 2 hrs per Maximum number of participants: 15 week						
	Type of Examination Grades						
Examination(s)	Term paper and an oral presentation on a selected yes research paper.				es .		
Special Course Achievements							
Other							

Topics in Mana	gement and A	pplied Microe	conomics	universit	ät <mark>bonn</mark>		
Module Number 332122004	<b>Workload</b> 225 h	Credits 7,5 CP	<b>Duration</b> 1 Term	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					
Charles Days and a		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	Lecture, 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	ätbonn			
Module Number 332125034	Workload 225 hCredits 7,5 CPDuration 1 TermCycle 							
Responsible Faculty Member	Prof. Dr. Benny	Prof. Dr. Benny Moldovanu						
Institute	Department of I	Economics						
		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		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, Semina	r, etc.	Contact time	Workload [h]			
Course Type	Seminar Maximum numb	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.  yes				es .			
Special Course Achievements								
Other								

Master Thesis					unive	ersi	tätbonn
<b>Modulnummer</b> 8000	Workload 900 h	<b>Umfang</b> 30 CP	<b>Dauer Modu</b> 1 Term	il	Turnus summer / winter term		
Responsible Faculty Member	Head of Exar	Head of Examinations Committee					
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) Grade					ades	
Examination(s)	Written acad within 4 mor	emic paper; n nths	nax. 40 page	es		у	es
Special Course Achievements							
Other							