

University of Bonn Faculty of Law and Economics Department of Economics

## Course Catalogue

# Master of Science **Economics**



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Winter Semester 2013/14



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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 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
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			universit	ät <mark>bonn</mark>		
Module Number 332124029	Workload 225 h	Credits 7,5 CP	<b>Duration</b> 1 Term	<b>Cycle</b> yearly; sumn			
Responsible Faculty Member	Prof. Dr. Hen	drik Hakenes		•			
Institute	Department of	of Economics					
Charles Bassesses		Title		Character	Study Term		
Study Program	Ма	aster of Science I	Economics	Advanced Module	2nd		
Learning Outcomes	with a focus of required to the students are	This course builds on the current literature on banking and securitization with a focus on the financial crisis of the year 2008. The students will be required to thoroughly read the research papers discussed in class. Further, students are required to present an unpublished research paper and write a referee report on this paper.					
Key Skills							
Learning Content	securitization financial ecor frequently em references to financial crise	. It is an applied nomics. The cour apployed in this lit applications. Thes of 2008. In pa	iew of current topic course that builds se is organized arc erature, and will b e focus is on topic rticular, papers an itization process a	on the basic kno bund methodolog e enriched by fre al research relate alyzing the incen	owledge in ies quent ed to the		
Prerequisites for attending	Basic Module	Finance					
		Lecture, Semir	ar, etc.	Contact time	Workload [h]		
Course Type	lecture and tu	ıtorial		4 hrs per week	(c) 60 (s) 165		
Evamination(s)		Type of Exami	nation	Grad	des		
Examination(s)	written or oral exam yes						
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	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	yes				
Special Course Achievements						
Other						

Econometric The	ory			universit	ät <mark>bonn</mark>			
Module Number 332125028	Workload 225 h	Workload Credits Duration Cycle						
Responsible Faculty Member	Prof. Dr. Jörg	Breitung		•				
Institute	Department o	of Economics						
Study Program		Title		Character	Study Term			
Study i Togram	Mas	ster of Science Ec	onomics	Advanced Module	3rd			
Learning Outcomes	reading and uparticular, the estimation 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	understandin econometric i simultaneous	g of asymptotic tl models include lin equations. The o	o provide the neces neory in classical enear regression, tin course focuses on c by, asymptotic norr	conometrics, v ne-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	ıtorial		4 hrs per week	(c) 60 (s) 165			
Examination(s)		Type of Examina	tion	Grad	des			
Special Course	written or ora	l exam		ye	S			
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 tu	torial		4 hrs per week	(c) 60 (s) 165		
		Type of Examir	nation	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

Economics of Cor	ntracts and	Information					
Module Number 332121008	WorkloadCreditsDurationCycle225 h7,5 CP1 Termyearly; summer te						
Responsible Faculty Member	Prof. Dr. Des	zö Szalay					
Department	Department of	of Economics					
Charles Dua aveaus		Title		Character	Study Term		
Study Program	Ma	aster of Science	Advanced Module	2nd			
Learning Outcomes	Students stud	dy the impact of	asymmetric inforr	nation on market	outcomes.		
Key Skills			s to understand co nmetric informatio		itions as		
Content			ormation, Signallin nmetric informatio				
Prerequisites for attending	Basic Module	e Microeconomics	S				
Causa Tura	lecture, tutorial, etc.			Contact time	Workload [h]		
Course Type	lecture and tutorial			4 hrs per week	(c) 60 (s) 165		
Evamination(s)		Type of Exami	nation	Grad	Grades		
Examination(s)	written or oral exam			yes			
Special Course Achievements				-			
Other							

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

Finance				universit	ätbonn		
Module Number 332110004	Workload 225 h	Credits 7,5 CP	<b>Duration</b> 1 Term	Cycle yearly; winte			
Responsible Faculty Member	Prof. Dr. Klau	s Sandmann		·			
Department	Department o	f Economics					
Study Program		Title		Character	Study Term		
otudy i rogram	Ma	ster of Science	Basic Module	1st			
Learning Outcomes	most importa and understa	nt theories in fir nd original resea	rovide students wi nancial economics arch literature, to t the foundation for	. It enables studer take a stand on cu	nts to read rrent		
Key Skills							
Content	its implication areas of mode certainty and	ns for corporate ern finance, incl	is introduction into financial manager uding the theory o pricing of assets nancial policy.	nent. It covers the f investments und	e main er		
Prerequisites for attending							
		Lecture, Semi	nar, etc.	Contact time	Workload [h]		
Course Type	lecture and tu	ıtorial		4 hrs per week	(c)60 (s) 165		
		Type of Exami	nation	Gra	des		
Examination(s)	written exam			ye	yes		
Special Course Achievements							
Other							

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

Game Theory				universit	äthonn		
Module Number 33121003	Workload 225 h	Vorkload Credits Duration Cycle					
Responsible Faculty Member	Prof. Dr. Tymor	Tatur					
Department	Department of I	Economics					
Charles Duramana		Title		Character	Study Term		
Study Program	Mast	Advanced Module	2nd				
Learning Outcome	critically question	on the modelling	to read advanced to used in recent game the techniques and to	ne theoretic pa	apers, and		
Key Skills							
Content	focus on a topic in this field. The	cal theme in game e course will emp	cs and advances in e theory and will co hasize the relevanc used in the curren	ver recent dev e to economic	/elopment		
Prerequisites for attending	Basic Module M	1icroeconomics					
	l	_ecture, Tutorial,	etc.	Contact time	Workload [h]		
Course Type	lecture and tuto	4 hrs per week	(c) 60 (s) 165				
	٦	Type of Examinat	ion	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 Organization					ät <mark>bonn</mark>		
Module Number 332123016	Workload 225 h	Credits 7,5 CP	<b>Duration</b> 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	Students become acquainted with basic tools and selected topics in modern industrial organization. In particular, they learn how to (i) apply key theoretical ideas and important formal techniques to selected questions, (ii) link theory to empirical work, and (iii) relate theoretical results to policy issues.					
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	universit	ätbonn					
Module Number 332123018	Workload 225 h	Credits 7,5 CP	<b>Duration</b> 1 Term	Cycle yearly; sumn			
Responsible Faculty Member	Prof. Dr. Urs Sc	hweizer	,	1			
Institute	Department of I	Economics					
Charles Days and an		Title		Character	Study Term		
Study Program	Mast	er of Science Ecc	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	sis of institutions 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 N	1icroeconomics					
Course Type	ı	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	Grad	des		
Examination(3)	written or oral e	vritten or oral exam					
Special Course Achievements							
Other							

International Eco	nomics and	l Finance		universitä	ät <b>bonn</b>		
Module Number 332122010	Workload 225 h	Workload Credits Duration Cycle					
Responsible Faculty		7,5 CP	1 Term	yeariy; summ	ier term		
Member	Prof. Dr. Ger	not Müller					
Institute	Department	of Economics					
		Title		Character	Study Term		
Study Program	Ma	ster of Science	Economics	Advanced Module	2nd		
Learning Outcomes	frequently an applications economics a	rise in internation of econometric nd finance are o	olve dynamic optimonal economics and methods to topica discussed. Student exercises using st	d finance. In addit al issues in interna ts also learn to so	tion, ational lve		
Key Skills							
Learning Content	discussing fl We then turn Fleming and allow us to a measures. T received grea	exible price mo n to sticky price of the New Ope nalyze the mac he course also at attention by i	rmination of exchadels which serve a models, both of the Economic Macroroeconomic effects covers a number of macroeconomists, ty and purchasing	s a theoretical berne traditional Munoeconomics variets of different policy f anomalies which such as deviation	nchmark. dell- y. This will y have		
Prerequisites for attending	Basic Modul	e Macroeconom	ics				
		Lecture, Semi	nar, etc.	Contact time	Workload [h]		
Course Type	lecture and t	utorial		3+1 hrs per week	(c) 60 (s) 165		
		Type of Exam	ination	Grad	les		
Examination(s)	written or or	written or oral exam			5		
Special Course Achievements							
Other	(1996): Four	ndations of Inter rnational Macro	al covered in M. O rnational Macroeco economics and Fir	onomics and in N.	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	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 Examina	tion	Grad	des
Examination(3)	written or oral 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 macro	esearch and acade provide them with earch literature an	the d a
Key Skills	Model based	economic analys	sis		
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 Exami	nation	Grad	les
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	Macroeconon	nics	universit	ät <mark>bonn</mark>			
Module Number 332122017	Workload 225 h	Credits 7,5 CP	<b>Duration</b> 1 Term	Cycle	aar tarm			
Responsible Faculty Member		<u> </u>	1 Termi	yearly; sumn	ier term			
Department	Department o	f Economics						
Shorty Bus sweets		Title		Character	Study Term			
Study Program	Mas	ster of Science Ed	onomics	Advanced Module	2nd			
Learning Outcomes	students with macroeconom problems. Sec studied theory theory, saving	the numerical tenic analysis involved cond, it repeats i etically in the ma	and foremost, it a chniques needed t ving the solution of n an applied mann croeconomics basi eral equilibrium wi economies etc.	o understand r dynamic prog er concepts ar c course: busi	modern ramming ad results ness cycle			
Key Skills								
Learning Content	dynamic prog on these algo- techniques ar model econor general equili	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	Macroeconomics						
Course Type		Lecture, Seminar, etc.			Workload [h]			
Course Type	lecture and tu	ıtorial		4 hrs per week	(c) 60 (s) 165			
Examination(s)		Type of Examina	ition	Grad	des			
Examination(3)	written or ora	l exam		ye	S			
Special Course Achievements								
Other	programming Primary readi * Burkhard ur Computationa 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 Acco	ounting						
	· · · · · · · · · · · · · · · · · · ·			universit	ät <b>bonn</b>		
Module Number 332123015	<b>Workload</b> 225 h	Credits 7,5 CP	<b>Duration</b> 1 Term	Cycle yearly; winte			
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)	1	Type of Examinat	ion	Grad	des		
Examination(3)	written or oral exam				S		
Special Course Achievements							
Other							

Mathematics for	Economists			universit	ät <mark>bonn</mark>
Module Number 332110001	Workload 225 h	Credits 7,5 CP	<b>Duration</b> 1 Term	Cycle yearly; winte	
Responsible Faculty Member	Dr. Reinhard		12 191111		
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 mather as is required for underlined for underlined for a discount of the control	ndertaking advang athematical proofs se mathematical p ced economics. S ds arise along his	ced studies s roofs of tudents
Key Skills					
Content	importance for interest, inclu	or economists, t uding basic topo	cover all fields tha his course deals wi logical concepts, fo 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	S
Special Course Achievements				,	
Other			ersion, a special me 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	Workload 225 h	Credits 7,5 CP	<b>Duration</b> 1 Term	Cycle yearly; summ	ner term		
Responsible Faculty Member	Prof. Dr. Benr	<u> </u>	1 101111	yourry, ourring	101 (01111		
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 do	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		9					
Learning Content	contract theor that unite the	ry by highlighting field. The main to	th treatment of med the common them opics covered are h and incomplete co	es and metho nidden informa	dologies		
Entry Requirements	Basic Modul	e Microeconomi	CS				
Course Type		Lecture, Seminai	, etc.	Contact time	Workload [h]		
Course Type	lecture and tu			4 hrs per week	(c) 60 (s) 165		
Evamination(s)		Type of Examina	tion	Grad	des		
Examination(s)	written or ora	I exam		yes			
Special Course Achievements							
Other							

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

Microeconomet	rics			universit	ätbonn		
Module Number 332125027	WorkloadCreditsDurationCycle225 h7,5 CP1 Termyearly; summer term						
Responsible Faculty Member	Prof. Dr. Jörg E	Breitung					
Institute	Department of	Economics					
Study Program		Title		Character	Study Term		
Study Program  Master of Science Economics				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 exam				s		
Special Course Achievements				·			
Other							

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

Microeconomic	es s			universit	ät <mark>bonn</mark>		
Module Number 332110002	<b>Workload</b> 225 h	Credits 7,5 CP	<b>Duration</b> 1 Term	<b>Cycle</b> yearly; winte			
Responsible Faculty Member	Prof. Dr. Deszö	Szalay		·			
Department	Department of	Economics					
Study Broarom		Title		Character	Study Term		
Study Program  Master of Science Economics				Basic Module	1st		
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 modelling techniques that will be often used in subsequent courses.					
Key Skills							
Content	fundamentals of equilibrium the modelling tech	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	, etc.	Contact time	Workload [h]		
Course Type	lecture and tute	lecture and tutorial			(c) 60 (s) 165		
		Type of Examin	ation	Gra	des		
Examination(s)		Written Exam yes			es		
Special Course Achievements				1			
Other							

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

Microeconomic	s II			universit	ät <mark>bonn</mark>		
Module Number 332121010	Workload 225 h	Credits 7,5 CP	<b>Duration</b> 1 Term	Cycle yearly; sumn			
Responsible Faculty Member	Prof. Dr. Benny	,	1 Term	yearry, surring			
Department	Department of	Economics					
Study Program		Study Progra	m	Character	Study Term		
Study Frogram	Mast	er of Science Ed	conomics	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 o design. The lect	f information in ture provides a	cs in microeconor economics, social rigorous foundatio epts, and gives an	choice and med n for common m	chanism nodeling		
Prerequisites for attending							
	L	ecture, Semina	r, etc.	Contact time	Workload [h]		
Course Type	lecture and tuto	orial		4 hrs per week	(c) 60 (s) 165		
Fuendanation(a)	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

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 Barrers		Title		Character	Study Term		
Study Program	Master of Science 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. F entified. Second	tary economics with First, conditions und , optimal policy is di tary and fiscal policy sector.	er which mone iscussed. 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 Examin	ation	Grad	les		
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	Credits 7,5 CP	<b>Duration</b> 1 Term	<b>Cycle</b> yearly; sumr				
Responsible Faculty Member	Prof. Dr. Klaus Sandmann							
Institute	Department of Economics							
C. I. D.		Title		Character	Study Term			
Study Program	Ma	ster of Science I	Economics	Advanced Module	2nd			
Learning Outcomes	Scholes option role of risk ne Students learn neutral pricing	n pricing model. utral pricing as n to apply the te g to nonstandard	udents with an und It enables them to the basis of moder chnique including of d financial products risk management of	o recognize the si n option pricing numerical metho s and to review tl	gnificant theory. ds of risk			
Key Skills								
Learning Content	time model by duplication str discussed. Th hedging strate the pricing of	Black and Schorategy and its ap is includes a dis egies and static more complex f	ng and hedging of coles. The model de oplications to risk recussion of the diffeor robust hedging. Inancial contracts to Carlo method will	pendency of the management will erences between Beside standard will be analysed.	perfect be dynamic options Numerical			
Prerequisites for attending	Basic Module	Finance						
		Lecture, Semir	ar, etc.	Contact time	Workload [h]			
Course Type	lecture and tu	torial		4 hrs per week	(c) 60 (s) 165			
Examination(s)		Type of Exami	nation	Gra	des			
	written or oral	exam		y€	es			
Special Course Achievements								
Other								

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

Organizations a	and Incentives			universit	äthonn			
Module Number 332123017	Workload 225 h	Workload Credits Duration Cycle						
Responsible Faculty Member	Prof. Dr. Matthias Kräkel							
Institute	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	Credits 7,5 CP	<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	ätbonn			
Module Number	Workload	Credits	Duration	Cycle				
332125032	225 h 7,5 CP 1 Term yearly; summer term							
Responsible Faculty Member	Prof. Dr. Lorens Imhof							
Institute	Department of I	Department of Economics						
Study Program	Title				Study Term			
otady i rogram	Mast	er of Science Eco	nomics	Advanced Module	2nd			
Learning Outcomes	tools of probabi	lity. Students ob	aint students with tain a rigorous bas istics and applied	sis for understa	nding and			
Key Skills								
Learning Content	probability. The	course covers in	tion to the mather tegration, probabi concepts of conver	lity measures,	random			
Prerequisites for attending								
O	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	written or oral exam			S			
Special Course Achievements								
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	Economics					
Starta Barraya		Title		Character	Study Term		
Study Program	М	Master of Science Economics Advance Modu					
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	<b>Workload</b> 450 h	Credits 15 CP	<b>Duration</b> 1 Semester	Cycle yearly, winter t	erm
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 Macroeco	nomics & Pu	ıblic Economics	universit	ät <b>bonn</b>
Module Number 332023050	Workload 450 h	Credits 15 CP	<b>Duration</b> 1 Semester	Cycle yearly, winter	
Responsible Faculty Member	Prof. Dr. Christia	an Bayer	1	1	
Department	Department of E	conomics			
Charles Dunganana		Title		Character	Study Term
Study Program	Ma	aster of Science E	Advanced Module	3rd	
Learning Outcomes	be familiar with module, be able Economics, be c questions in Eco acquainted with topic, be able to	the basics of science to do a literature capable of definire commics and development academic researe document, pres	dule students should: entific methods releva e search, read and do ng research topics, for eloping a research ap rch methods relevant ent and defend in clas	ant for the topic of comment scientific a rmulating specific r proach to investiga for investigating these the results of the	orticles in research te, be e project's eir research
Key Skills			iting, rhetorical skills		
Content	market interacti the structure of allow for (explici	ons in the aggreg the economic de t) aggregation ar	oved to explore the que gate economy. These cision problems single and finally to address a ical models, their solu	quantitative model e agents in the eco a variety of research	s focus on nomy face, n questions.
Prerequisites for attending	Basic module M & Public Econom		nd at least one advand	ced module in <i>Maci</i>	roeconomics
		Lecture, Semin	ar, 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
	Selfstudy			4 hrs	330
		Type of Examin	nation	Grad	les
Examination(s)	other presentation. The final grade wof) i) the presentand iv) participa Depending on the project work has	ons, participation will be a weighted tation, ii) the res tion in discussion actual number	d average of (the qual earch paper, iii) repor ns. of participants, the it as a group task	ity	
Special Course Achievements	none			<u> </u>	
Other	choose a project increase their kr 7-12). During th meetings. In wee give a presentat	t from a list of sp nowledge. Studer at time, students eks 13 and 14, s	oductory lectures (4h becific cooperation pro its have to work on th s and supervisors will tudents have to hand ct in class. Finally, sto	oblems in which the is project on their have regular feedb in a short research	ey wish to own (week ack paper and

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	Advanced Module	3rd					
Learning Outcomes	be familiar with module, be able Economics, be o questions in Eco acquainted with	After completion of a project module students should: be familiar with the basics of scientific methods relevant for the topic of the project module, be able to do a literature search, read and document scientific articles in Economics, be capable of defining research topics, formulating specific research questions in Economics and developing a research approach to investigate, be acquainted with academic research methods relevant for investigating the project's topic, be able to document, present and defend in class the results of their research						
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 leads 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  Grade  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 between ce. Other contexts and further applicates the context 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 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 praction 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 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 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	<b>Workload</b> 225 h	Credits 7,5 CP	<b>Duration</b> 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 Ecc	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							

<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 application and exchange aptions, currency open to the difference application applicatio	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	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 <i>E</i>	conometrics					
	Lecture, Seminar, etc.		Contact time	Workload [h]			
Course Type	lecture and tuto	4 hrs per week	(c) 60 (s) 165				
Examination(s)	Type of Examination Gra				ades		
Examination(s)	written or oral exam		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	<b>Duration</b> 1 Term	Cycle: summer/winter			
Responsible Faculty Member	Prof. Dr. Jörg E Prof. Dr. Lorens		Or. Matei Demetrescu r. Alois Kneip	,			
Institute	Department of	Economics					
CL L D		Study Progra	am	Character	Study Term		
Study Program	Mas	ter of Science E	conomics	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	applications, in activities of the	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;		
	Lecture, Seminar, etc.  Contact time						
Course Type	seminar 2 hrs per 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 <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	original results	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			nomists with a grad n a grade of 2,3 or a		bove;		
	L	Contact time	Workload [h]				
Course Type	Seminar 2 hrs per (c) 3						
	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	lected 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	Cycle yearly; winte			
Responsible Faculty Member	Prof. Dr. Jürger	Prof. Dr. Jürgen von Hagen					
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	luding original Economics De	earch topics in Macro results obtained withi partment of Bonn Uni re.	n the joint res	search		
Prerequisites for attending			conomists with a grad vith a grade of 2,3 or		ibove;		
	Lecture, Seminar, etc.  Contact Workle time [h]						
Course Type	Seminar Maximum num	2 hrs per week	(c) 30 (s) 195				
	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	Workload 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					
C D		Title		Character	Study Term		
Study Program	Mast	er of Science Ec	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	microeconomic research activit	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			nomists with a grad h a grade of 2,3 or a		ibove;		
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 research paper	d an oral present	ation on a selected	yes			
Special Course Achievements							
Other							

Topics in Micro	economic The	eory		universit	ätbonn			
Module Number 332125034	WorkloadCreditsDurationCycle225 h7,5 CP1 Termyearly; summer ter							
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	including origin Economics Dep	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			onomists with a grad th a grade of 2,3 or		above;			
	L	Contact time	Workload [h]					
Course Type	Seminar Maximum numb	per of participar	ts: 15	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					Lunive	ersit	tät <b>bonn</b>
<b>Modulnummer</b> 8000	<b>Workload</b> 900 h	<b>Umfang</b> 30 CP	<b>Dauer Modul</b> 1 Term		Turnus summer / winter terr		
Responsible Faculty Member	Head of Exar	minations Con	nmittee				
Institute	Department	of Economics					
		Title		Ch	aracter	S	Study Term
Study Program	Master c	f Science Eco	nomics	Cor	npulso		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	Thesis must re ers of the eco ng of the form	nomic literat	ture,	including	g a fu	_
Prerequisites for attending							
Course Type	L	ecture, Semina	ar, etc.		Conta Time		Workload [h]
							s (900)
		Prüfungsform(	(en)			Gra	des
Examination(s)	Written academic paper; max. 40 pages within 4 months			es	yes		
Special Course Achievements							
Other							