

Course Catalog Spring Semester 2018 Master of Economics



Contents

Compulsory Modules for the Competition and Regulation Economics Track	3
E505 Industrial Organization: Markets and Strategies	3
E5046 Empirical Industrial Organization	3
Competition Law	4
Elective Modules: Lectures	5
E505 Industrial Organization: Markets and Strategies	5
E508 Multiple Time Series Analysis	5
E557 Public Economics	6
E581 International Trade	7
E5014 Microeconometric Methods: Duration, Count Data, and Censored Regression Analysis	8
E5030 Behavioral Economics: Theory and Experimental Methods	9
E5031 Applied Labour Economics	9
E5034 Topics in Empirical Economics	10
E5035 Environmental Economics	11
E5038 Empirical Macroeconomics: Structural Vector Autoregressions	11
E5046 Empirical Industrial Organization (Elective module for the Economics track)	12
E5050 Computational Economics and Finance	13
E5053 Quantitative Methods for Monetary Economics	14
E5057 Advanced Game Theory	15
E5059 Public Service Delivery in Developing Countries	15
Elective Modules: Seminars	17
E506 Seminar on Human Capital Formation	17
E530 Topics in Industrial Organization	17
E586 Evaluation of Labor, Development, Education and Health Programs and Policies	18
E5016 Topics in International Finance	20
E5028 Topics on Monetary Union	22
E5036 Economics of Arts and Culture	23
E5041 Seminar on Auction Theory	23
E5054 Topics in Environmental and Energy Economics	24
E5055 Field Experiments in Experimental Economics	25
E5056 Seminar on Game Theory	25
E5058 Regression Shrinkage Methods	26
Additional Courses for Economists	27
E5051 Mannheim Competition Policy Forum	27
Curriculum	28

Compulsory Modules for the Competition and Regulation Economics Track

Module number and	
title	E505 Industrial Organization: Markets and Strategies
Form and usability of	Compulsory course for Master in Economics with specialization Competition and
the module	Regulation Economics, elective course for Master in Economics with
	specialization Economics
Responsible teacher of	Prof. Dr. Martin Peitz
the module	
Cycle of offer	
ECTS credits	14
Teaching method	lecture (4) + practical exercises (2)
(hours per week)	
Workload	420 working hours, containing 63 hours class time and 357 hours independent
	study time, time for assignments and preparation for the exam
Course language	English
Prerequisites	E601-E603 (or equivalent; this course is only suitable for Economics students)
Grading and ECTS	Exam (180 min, 60%), two sets of graded take home exercises (20%),
credits	participation in exercise session (20%)
Goals and Contents of	This course covers the theory of industrial organization. It provides an overview
the module	of modern industrial organization with an emphasis of the theory and formal
	models. Models are adapted to tackle concrete problems. Students are provided
	with a toolkit and are encouraged to <i>think strategically</i> . Theoretical analyses are
	complemented by case studies and background knowledge of competition policy.
	Organization:
	1. Introduction; 2. Market Power; 3. Sources of Market Power; 4. Pricing and
	Market Segmentation 5. Product Quality and Information; 6. Theory of
	Competition Policy; 7. R&D and Intellectual Property; 8. Networks, Standards, and Systems; 9. Intermediation.
Expected Competences	Ability to develop industrial organization models, ability so solve industrial
acquired after	organization models, ability to analyze business and competition cases
completion of the	
module	
Further information	Essential reading:
	Paul Belleflamme and Martin Peitz (2015), Industrial Organization: Markets and
	Strategies, 2 nd edition, Cambridge University Press
	20
Expected number of	50
students in class	
Contact information	Prot. Dr. Martin Peitz; email: martin.peitz@gmail.com; Office: L7, 3-5, 3rd
	floor, room 330

Module number and	
title	E5046 Empirical Industrial Organization
Form and usability of	Compulsory course for M. Sc. Economics with specialization Competition and
the module	Regulation Economics, elective course for M. Sc. Economics
Responsible teacher of	Prof. Ph.D. Hidenori Takahashi
the module	
Cycle of offer	Each spring semester
ECTS credits	7
Teaching method	Lecture (2) + exercises (1)
(hours per week)	
Workload	210 working hours, containing 31.5 hours class time and 178.5 hours
	independent study time and preparation for the exam.
Course language	English

Prerequisites	E601-603 (or equivalent; this course is only suitable for Economics students)
Grading and ECTS	Final exam (120 min, 70%), 2 graded take home exercises (30%).
credits	
Goals and contents of	This course is designed to provide an introduction to empirical methods in
the module	industrial organization, focusing on competition policy/antitrust. This course
	covers the traditional topics in empirical industrial organization and antitrust:
	demand estimation, supply estimation, measurement of market power and
	collusive markets. The aim is to provide students with the knowledge of the
	standard models and approaches and introduce them to modern research
	questions. This course is organized in lectures complemented by computer
	sessions. The software used is Stata and Matlab.
Expected competences	Students acquire methodological skills that can be applied to answer empirical
acquired after	questions industrial organization and antitrust/competition policy.
completion of the	
module	
Further information	Essential reading: Reading will be taken from recent research articles which will
	vary over time. A reading list will be distributed during the first course.
Expected number of	30
students in class	
Contact information	

Module number and	
title	Competition Law
Form and applicability	Compulsory course for Master in Economics with specialization Competition
of the module	and Regulation Economics
Duration of the module	One semester
Cycle of offer	Every spring semester
ECTS-Credits	5
Teaching method (hours	Lecture (2 SWS)
per week)	
Workload	150 working hours, containing 21 hours in class and 129 hours independent
	study time and preparation for the exam
Course language	English
Prerequisites	none
Expected number of	15
students in class	
Goals and Contents of	The aim of the module is to learn the basic provisions of EU competition law
the module	and to study the law in its economic and market context. The core of the course
	will be about cartels and collusive conduct (Art 101 TFEU) and abuse of market
	power (Art. 102 TFEU) and its legal consequences. Merger control will also be
	subject to the course.
Expected Competences	Students will be able to understand competition policy in reaction to, e.g., price
acquired after	collusion, distribution agreements, licenses of intellectual property or joint
completion of the	ventures. They will be able to read cases of the European Court of Justice and
module	apply their legal knowledge to new competition cases.
Requirements for the	Final exam (60 min)
assignment of ECTS-	
credits and grades	
Responsible teacher of	Prof. Dr. Friedemann Kainer
the module	
Additional teachers	None
Further information	Legal texts will be provided. Further reading: Fox/Gerard, EU Competition
	Law, 2017; Lorenz, Introduction to EU Competition Law, 2013; Wish/Bailey,
	Competition Law, 8.ed., 2015.

Elective Modules: Lectures

Module number and	
title	E505 Industrial Organization: Markets and Strategies
	(elective module for the Economics track)
Form and usability of	Compulsory course for Master in Economics with specialization Competition
the module	and Regulation Economics, elective course for Master in Economics with
	specialization Economics
Responsible teacher of	Prof. Dr. Martin Peitz
the module	
Cycle of offer	
ECTS credits	14
Teaching method	lecture (4) + practical exercises (2)
(hours per week)	
Workload	420 working hours, containing 63 hours class time and 357 hours independent
	study time, time for assignments and preparation for the exam
Course language	English
Prerequisites	E601- E603 (or equivalent; this course is only suitable for Economics
-	students)
Grading and ECTS	Exam (180 min, 60%), two sets of graded take home exercises (20%),
credits	participation in exercise session (20%)
Goals and Contents of	This course covers the theory of industrial organization. It provides an
the module	overview of modern industrial organization with an emphasis of the theory
	and formal models. Models are adapted to tackle concrete problems. Students
	are provided with a toolkit and are encouraged to <i>think strategically</i> .
	Theoretical analyses are complemented by case studies and background
	knowledge of competition policy.
	Organization:
	1. Introduction; 2. Market Power; 3. Sources of Market Power; 4. Pricing and
	Market Segmentation 5. Product Quality and Information; 6. Theory of
	Competition Policy; /. R&D and Intellectual Property; 8. Networks,
E-masted Commeter and	Standards, and Systems; 9. Intermediation.
Expected Competences	Ability to develop industrial organization models, ability so solve industrial organization models, ability to analyze business and compatition cases
acquired after	organization models, aonity to analyze business and competition cases
completion of the	
module Frankling frankling	Essential madina
Further information	Essential reduing: Doub Polloflommo and Martin Poitz (2015) Industrial Organization: Markets
	and Strategies 2 nd adition. Combridge University Press
	and Strategies, 2 Conton, Camonage University 11055
Expected number of	30
students in class	
Contact information	Prof Dr. Martin Peitz: email: martin neitz@gmail.com: Office: I 7 3-5 3rd
	floor, room 330

Module number and	
title	E508 Multiple Time Series Analysis
Form and usability of	Elective module for M.Sc. Economics
the module	
Responsible teacher of	Prof. Dr. Carsten Trenkler
the module	
ECTS credits	9.5
Teaching method	Lecture (3) + exercises (1)
(hours per week)	
Workload	285 hours, containing 42 hours time in class and 243 hours independent study

	time and preparation for the exam
Cycle of offer	Each spring semester
Course language	English
Prerequisites	E601-603 (or equivalent)
Grading and ECTS	Final exam (90 min, 75%) and assignments (25%)
credits	
Goals and contents of	The lecture gives an introduction to multiple time series techniques and will cover
the module Expected competences	vector autoregressive (VAR) processes, VAR estimation, VAR order selection and model checking. If time permits, we will also cover VARMA, Structural VAR models and so-called VEC models. The use of VAR models in forecasting, causality and impulse response analysis will be explained and illustrated using empirical examples and by discussing a selected set of research papers. The methods will be applied in computer tutorials. This course is complementary to E0538 Empirical Macroeconomics. While the latter course looks at multiple time series models from an applied macro perspective, we take an econometric approach and deal with the VAR and VECM model framework in more detail. The ability to use and understand the basics of multiple time series in forecasting,
acquired after	causality and impulse response analysis.
completion of the	
module	
Further information	Lütkepohl, H. (2005), New Introduction to Multiple Time Series Analysis,
	Springer, Berlin, Chapters 1-4, 6-9, and 11-13, Appendices A-D. The list of
	covered research papers will be provided at the beginning of the course.
Expected number of	20
students in class	
Contact information	Carsten Trenkler; Phone: 181-1851; email: trenkler <at>uni-mannheim.de;</at>
	Office: L7, 3-5, room 105

Module number and	
title	E557 Public Economics
Form and applicability	Elective course for Master in Economics
of the module	
Duration of the Module	One semester
ECTS-Credits	7 ECTS
Teaching method	Lecture (2 SWS) + exercises (1SWS)
Workload	210 working hours, containing 36 hours class time and 174 hours independent
	study time and preparation for the exam
Cycle of offer	Once a year
Expected number of	10
students in class	
Course language	English
Prerequisites	E601-603 or equivalent
Goals and Contents of	This course provides an introduction to the field of public economics. The
the module	emphasis of this course is on the theory, though the field is large with significant
	empirical and experimental components. It covers core ideas in the areas of static
	and dynamic optimal taxation, public goods and externalities.
	Part I: Public Goods
	1. The nature of market failure
	2. Lindahl equilibrium
	3. Vickrey-Clarke-Groves mechanism
	4. The private provision of public goods
	Part II: Externalities

1. Pigouvian corrective tax2. Coase Theorem3. Price vs. quantity regulations4. Optimal taxation with externalitiesPart III: Static optimal taxation1. Optimal commodity taxation2. Many Person Ramsey Tax Rule3. Production Efficiency Theorem4. Non-linear taxation of incomePart IV: Dynamic optimal taxation1. Ramsey Problem2. New Dynamic Public FinanceExpected Competences acquired after completion of the moduleRequirements for the assignment of ECTS-Credits and GradesResponsible teacher of the moduleFurther informationLecture notes will be available.		
2. Coase Theorem 3. Price vs. quantity regulations 4. Optimal taxation with externalities Part III: Static optimal taxation 1. Optimal commodity taxation 2. Many Person Ramsey Tax Rule 3. Production Efficiency Theorem 4. Non-linear taxation of income Part IV: Dynamic optimal taxation 1. Ramsey Problem 2. New Dynamic Public Finance The course introduces the core topics in Public Economics. The course should prove useful for any student interested in analyzing policy issues. completion of the module Requirements for the assignment of ECTS-Credits and Grades Responsible teacher of the module Further information Lecture notes will be available.		1. Pigouvian corrective tax
3. Price vs. quantity regulations4. Optimal taxation with externalitiesPart III: Static optimal taxation1. Optimal commodity taxation2. Many Person Ramsey Tax Rule3. Production Efficiency Theorem4. Non-linear taxation of incomePart IV: Dynamic optimal taxation1. Ramsey Problem2. New Dynamic Public FinanceExpected Competences acquired after completion of the moduleRequirements for the assignment of ECTS- Credits and GradesFurther informationLecture notes will be available.		2. Coase Theorem
4. Optimal taxation with externalitiesPart III: Static optimal taxation1. Optimal commodity taxation2. Many Person Ramsey Tax Rule3. Production Efficiency Theorem4. Non-linear taxation of incomePart IV: Dynamic optimal taxation1. Ramsey Problem2. New Dynamic Public FinanceExpected Competences acquired after completion of the moduleRequirements for the assignment of ECTS- Credits and GradesFurther informationLecture notes will be available.		3. Price vs. quantity regulations
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Part III: Static optimal taxation1. Optimal commodity taxation2. Many Person Ramsey Tax Rule3. Production Efficiency Theorem4. Non-linear taxation of incomePart IV: Dynamic optimal taxation1. Ramsey Problem2. New Dynamic Public FinanceExpected Competencesacquired aftercompletion of themoduleRequirements for theassignment of ECTS-Credits and GradesFinal exam (120 min, 90%), problem sets (10%).Responsible teacher ofthe moduleFurther informationLecture notes will be available.		
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Part IV: Dynamic optimal taxation1. Ramsey Problem2. New Dynamic Public FinanceExpected Competences acquired after completion of the moduleThe course introduces the core topics in Public Economics. The course should prove useful for any student interested in analyzing policy issues.Requirements for the assignment of ECTS- Credits and GradesFinal exam (120 min, 90%), problem sets (10%).Responsible teacher of the moduleDuk Gyoo Kim; email: d.kim@uni-mannheim.deFurther informationLecture notes will be available.		
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1. Ramsey Problem 2. New Dynamic Public FinanceExpected Competences acquired after completion of the moduleThe course introduces the core topics in Public Economics. The course should prove useful for any student interested in analyzing policy issues.Requirements for the assignment of ECTS- Credits and GradesFinal exam (120 min, 90%), problem sets (10%).Responsible teacher of the moduleDuk Gyoo Kim; email: d.kim@uni-mannheim.deFurther informationLecture notes will be available.		
2. New Dynamic Public FinanceExpected Competences acquired after completion of the moduleThe course introduces the core topics in Public Economics. The course should prove useful for any student interested in analyzing policy issues.Requirements for the assignment of ECTS- Credits and GradesFinal exam (120 min, 90%), problem sets (10%).Responsible teacher of the moduleDuk Gyoo Kim; email: d.kim@uni-mannheim.deFurther informationLecture notes will be available.		1. Ramsey Problem
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Expected Competences acquired after completion of the moduleThe course introduces the core topics in Public Economics. The course should prove useful for any student interested in analyzing policy issues.Requirements for the assignment of ECTS- Credits and GradesFinal exam (120 min, 90%), problem sets (10%).Responsible teacher of the moduleDuk Gyoo Kim; email: d.kim@uni-mannheim.deFurther informationLecture notes will be available.		
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assignment of ECTS- Credits and Grades	Requirements for the	Final exam (120 min, 90%), problem sets (10%).
Credits and GradesResponsible teacher of the moduleDuk Gyoo Kim; email: d.kim@uni-mannheim.deFurther informationLecture notes will be available.	assignment of ECTS-	
Responsible teacher of the moduleDuk Gyoo Kim; email: d.kim@uni-mannheim.deFurther informationLecture notes will be available.	Credits and Grades	
the module Further information Lecture notes will be available.	Responsible teacher of	Duk Gyoo Kim; email: d.kim@uni-mannheim.de
Further information Lecture notes will be available.	the module	
	Further information	Lecture notes will be available.

Module number and	
title	E581 International Trade
Form and usability of	Elective course for M. Sc. Economics
the module	
Responsible teacher of	Yanping Liu /Harald Fadinger
the module	
Cycle of offer	Each spring semester
ECTS credits	7
Teaching method	Lecture (2) + exercises (1)
(hours per week)	
Workload	210 working hours, containing 31.5 hours class time and 178.5 hours
	independent study time and preparation for the exam.
Course language	English
Prerequisites	E601-603 (or equivalent)
Grading and ECTS	Final exam (50%), presentation (25%) and in-class quiz during presentations
credits	(25%)
Goals and contents of	This course will focus on the determinants, patterns and effects of International
the module	trade. It will cover the core trade models as well as their empirical applications. A
	tentative list of topics includes:
	Ricardian model, Heckscher-Ohlin model, trade with monopolistic competition,
	gravity equation, openness and firm productivity, trade and innovation, the
	interrelation between trade and income distribution, and other closely related
	topics. It will place equal weights on the trade theory and empirics of
	International trade.
Expected competences	Familiarity with modern international trade theory and empirical method in
acquired after	International Irade
completion of the	
module	

Further information	
Expected number of	20
students in class	
Contact information	Yanping Liu; Phone: (0621) 181-1910; email: yanping.liu@uni-mannheim.de;
	Office: Room 318, L7, 3-5

Module number and	
title	E5014 Microeconometric Methods: Duration, Count Data,
	and Censored Regression Analysis
Form and usability of	Elective course for M. Sc. Economics
the module	
Responsible teacher of	Daniel Gutknecht, Ph.D.
the module	
Cycle of offer	Once a year
ECTS credits	7
Teaching method	Lecture (2) + exercises (1)
(hours per week)	
Workload	210 hours in total, containing 31.5 hours in class and 278.5 hours for
	independent studies and exam prepartion
Course language	English
Prerequisites	E601-603 (or equivalent)
Grading and ECTS	Written exam (90min, 85%) + coursework including short presentation (15%)
credits	
Goals and contents of	The analysis of different non-standard data types has a long history in applied and
the module	theoretical Microeconometrics. This course will provide an introduction to the
	analysis of duration, count, and "censored regression" data focusing in particular
	on identification, estimation, and implementation related issues. The first part of
	appropriate the duration models, sampling schemes,
	context. The second part of the course will focus on count data and consored
	regression (e.g. Tohit) models dealing also with tonics such as sample selection
	truncation etc
Expected competences	By the end of the course, students (i) should have a solid understanding of the key
acquired after	concepts of duration, count data, censored regression analysis and of related
completion of the	topics, (ii) should have acquired the mathematical tools, the empirical skills, and
module	the necessary vocabulary to understand and to analyze theoretical and empirical
	questions in this context, and (iii) should be able to provide scientifically sound
	solutions and answers to these questions.
Further information	Literature: Cameron and Trivedi (2005): "Microeconometrics – Methods and
	Applications"; Chs. 16-20.
	Wooldridge (2010): "Econometric Analysis of Cross Section and Panel Data";
	Chs. 17-20,22.
	Lancaster (1990): "The Econometric Analysis of Transition Data".
	Winkelmann (2008). The Econometric Analysis of Count Data .
	various Research Papers (specified in class)
Expected number of	10
students in class	
Contact information	Daniel Gutknecht, Ph.D.; email: daniel.gutknecht@uni-mannheim.de

Module number and	
title	E5030 Behavioral Economics: Theory and Experimental
	Methods
Form and applicability	Elective course for the Master program in Economics
of the module	
Duration of the module	1 semester
ECTS-Credits	9 ECTS
Teaching method	Lecture (2 SWS) + exercise (2 SWS)
Workload	270 working hours containing 42 hours class time and 228 hours independent
W OI KIOAU	study time and preparation for the exam
Cycle of offer	irregular
Expected number of	15
students in class	
Course language	English
Prerequisites	E601-603 or equivalent and prerequisites in game theory
Goal and contents of	This module is divided into two parts. The first part deals about behavioral-
the module	economic theory, demonstrating how it extends the standard micro-economic
	theory. Here, students are presented to classical choice anomalies. In this context
	the lecture concentrates on decision under uncertainty. The students will get a
	profound understanding how Kahneman and Tversky's (1979) Prospect Theory
	may serve as alternative theory for decision under uncertainty. The module will
	also demonstrate how fairness issues may affect decision making. Here it covers
	the inequality-aversion model by Fehr and Schmidt (1999). In the second part
	students will get a precise understanding about the usage and appropriate design
	of economic experiments.
Expected competences	Students will acquire a basic understanding of behavioral-economic theory.
acquired after	Importantly, they will acquire the knowledge to set up experiments based on
completion of the	existing research questions.
module	
Requirements for the	Final exam (90 min)
assignment of ECTS-	
credits and grades	
Responsible teacher of	Dr. Holger Rau
the module	
Further information	Ackert, L., and Deaves, R. (2009). Behavioral finance: Psychology, decision-
	making, and markets. Cengage Learning.
	Angnar, E. (2012). A course in behavioral economics. Palgrave-McMillian.
	Camerer, C., Loewenstein, G., Rabin, M. (2004). Advances in Behavioral
	Economics. Princeton University Press.
	Davis, D. and Holt, C. (1992). Experimental Economics. Princeton University
	Press.
	Friedman, D. and Sunder, S. (1994). Experimental Methods: A Primer for
	Economists. Cambridge University Pres.
	Moffatt, P.G. (2015). Experimetrics – Econometrics for Experimental Economics.
	Smith, V. & Plott, C. (2008): Handbook of Experimental Economic Results.
	North Holland.
	Wilkinson, N. & Klaes, M. (2012). An introduction to behavioral economics.
	Palgrave-McMillian

Module number and title	E5031 Applied Labour Economics
Form and usability of	Elective course for M.Sc. Economics
the module	
Responsible teacher of	Dr. Asmus Zoch
the module	
Cycle of offer	Each spring semester

	1
ECTS credits	9
Teaching method	Lecture (2) + excercises (2)
(hours per week)	
Workload	270 hours in total, containing 42 hours class time and 228 hours for
	independent studies, project and exam preparation
Course Language	English
Prerequisites	E601-E603 (or equivalent)
Grading and ECTS	Written exam (100 min, 70%) and exercises (30%)
credits	
Goals and contents of	This course will focus on different micro-econometric models using actual
the module	empirical studies from the field of labour economics. Starting from the
	standard theory of competitive labour markets, we introduce the concept of
	human capital, to explain wage differences between individuals, and explore
	the role of education. Exploring the Mincer earnings function, discrimination
	and unemployment, the students will learn how to analyse actual labour data
	sets using Stata. The first part of the course will deal with linear panel data
	models and instrumental regressions, the second part will focus on discrete
	choice models. This course will end with the introduction of non-parametric
	estimators
Exported competences	Ability to use State to conduct independent micro econometric analysis and
Expected competences	apply advanced micro accoromic models
acquired after	apply advanced micro-economic models.
modulo	
Further information	Introductory literature
Further information	Introductory interature.
	• Wooldridge, Jeffrey M. (2002), Econometric Analysis of Cross
	Section and Panel Data, Cambridge, Mass.: MIT Press. Chapters 10-
	George J. Borjas, Labor Economics
Expected number of	25
students in class	
Contact information	Dr. Asmus Zoch; Phone: (0621) 181-1842; email: zoch(at)uni-mannheim.de;
	Office 123

Module number and	
title	E5034 Topics in Empirical Economics
Form and applicability	Elective course for Master in Economics
of the module	
Duration of the module	1 Semester
ECTS credits	9
Teaching method	Lecture (2 SWS) + exercises (2 SWS)
Workload	270 hours consisting of 42 hours class time and 228 hours independent study
	and writing of the final paper.
Cycle of offer	Irregular
Expected number of	15
students in class	
Course language	English
Prerequisites	E601-603 or equivalent
Goals and contents of	The course will cover fundamental methods for microeconomic data (with
the module	focus on linear models), including instrumental variables estimation,
	maximum likelihood and generalized method-of-moments estimation. Both
	theory and applications will be included in the course. The target audience are
	Master students. The goal of this course is to give a solid introduction to

	microeconometric methods.
Expected competences	The students should be enabled to understand basic concepts in
acquired after	microeconometrics and to utilize recent results for their own applied work.
completion of the	
module	
Requirements for the	Presentation (40%) and term paper (60%)
assignment of ECTS-	
credits and grades	
Responsible teacher of	Dr. Helmut Farbmacher
the module	
Further information	 Cameron and Trivedi (2005): Microeconometrics: Methods and Applications. Anatolyev and Gospodinov (2011): Methods for Estimation and
	Inference in Modern Econometrics.

Module number and	
title	E5035 Environmental Economics
Form and usability of	Elective course for M. Sc. Economics
the module	
Responsible teacher of	Prof. Ulrich Wagner, PhD
the module	
Cycle of offer	Each spring semester
ECTS credits	9.5
Teaching method	Lecture (3) + excercises (1)
(hours per week)	
Workload	285 hours in total, containing 42 hours in class and 243 hours for
	independent studies and exam prepartion
Course language	English
Prerequisites	E601-603 (or equivalent)
Grading and ECTS	Final exam (120 min, 70%) and presentation of an article (30%)
credits	
Goals and contents of	This course is an introduction to the field of environmental economics at the
the module	graduate level. The first part of the course presents the economic theory of
	environmental policy. Based on the theory of externalities, a broad range of
	instruments for environmental policy will be analyzed from an economic
	point-of-view. The second part of the course deals with empirical methods for
	the valuation of environmental quality, which is required for cost-benefit-
	analysis and in the implementation of environmental policies. The third part
	of the course is dedicated to the economic analysis of international
	environmental problems.
Expected competences	Ability to formulate and solve problems in environmental regulation using
acquired after	advanced economic theory and mathematical techniques. Ability to estimate
completion of the	willingness-to-pay for environmental quality using statistical methods.
module	Understanding of strategic incentives in international negotiations over
	environmental problems.
Further information	
Expected number of	20
students in class	
Contact information	Prof. Ulrich Wagner, PhD; email: wagner@vwl.uni-mannheim.de

Module number and	E5029 Empirical Magnagemention Structural Vector
title	E5058 Empirical Macroeconomics: Structural vector
	Autoregressions

Form and applicability	Elective course for Master in Economics
of the module	
Duration of the module	1 Semester
ECTS credits	5
Teaching method	Lecture (2 SWS)
Workload	150 hours consisting of 21 hours class time and 129 hours independent study
	time.
Cycle of offer	Irregular
Expected number of	20 (maximum)
students in class	
Course language	English
Prerequisites	E601-603 or equivalent
Goals and contents of	This course covers structural vector autoregressive (SVAR) models. These
the module	models are widely used for empirical research in macroeconomics and
	finance. We will discuss estimation, identification, and inference of SVAR
	models, tools (such as forecast error variance decomposition and historical
	decomposition), and cover a number of empirical applications of SVAR
	models (e.g., to identify the effects of monetary policy shocks, fiscal
	expenditure shocks, and oil price shocks).
Expected competences	The course introduces students to the econometric theory and macroeconomic
acquired after	applications of structural vector autoregressions.
completion of the	
module	
Requirements for the	Final exam (90 min, 60%) and problem sets (40%)
assignment of ECTS-	
credits and grades	
Responsible teacher of	Matthias Meier
the module	
Further information	Recommended textbooks:
	• Kilian and Lütkepohl (Structural Vector Autoregressive Analysis,
	preliminary: see http://www-personal.umich.edu/~lkilian/book.html)
	• Lütkepohl (New Introduction to Multiple Time Series Analysis,
	2005)

Module number and	
title	E5046 Empirical Industrial Organization (Elective module
	for the Economics track)
Form and usability of	Compulsory course for M. Sc. Economics with specialization Competition and
the module	Regulation Economics, elective course for M. Sc. Economics
Responsible teacher of	Prof. Ph.D. Hidenori Takahashi
the module	
Cycle of offer	Each spring semester
ECTS credits	7
Teaching method	Lecture (2) + exercises (1)
(hours per week)	
Workload	210 working hours, containing 31.5 hours class time and 178.5 hours
	independent study time and preparation for the exam.
Course language	English
Prerequisites	E601-603 (or equivalent; this course is only suitable for Economics students)
Grading and ECTS	Final exam (120 min, 70%), 2 graded take home exercises (30%).
credits	
Goals and contents of	This course is designed to provide an introduction to empirical methods in

the module	industrial organization, focusing on competition policy/antitrust. This course covers the traditional topics in empirical industrial organization and antitrust: demand estimation, supply estimation, measurement of market power and collusive markets. The aim is to provide students with the knowledge of the standard models and approaches and introduce them to modern research questions. This course is organized in lectures complemented by computer sessions. The software used is Stata and Matlab.
Expected competences acquired after completion of the module	Students acquire methodological skills that can be applied to answer empirical questions industrial organization and antitrust/competition policy.
Further information	Essential reading: Reading will be taken from recent research articles which will vary over time. A reading list will be distributed during the first course.
Expected number of students in class	30
Contact information	

Module number and	
title	E5050 Computational Economics and Finance
Form and applicability	Elective module for Master in Economics
of the module	
Duration of the module	One semester
ECTS-credits	9,5 ECTS
Teaching method	Lecture (3 SWS) + exercise (1 SWS)
Workload	285 working hours, containing 42 hours class time and 243 hours
	independent study time and preparation for the exam
Cycle of offer	Irregular
Expected number of	20
students in class	
Course language	English
Prerequisites	E601-603 (or equivalent) or knowledge in
_	
	• intermediate microeconomics, e.g. Varian 2010
	• intermediate macroeconomics, e.g. Romer 2011
	• matrix algebra and optimization, e.g. Chiang/Wainwright 2005,
	Simon/Blume 1994
	There is no programming experience required.
Goals and contents of	Micro- and Macroeconomic models generally lack closed form solutions and
the module	thus require numerical methods to get quantitative results for a particularly
	specified and parameterized model. The knowledge of numerical methods is
	therefore indispensable for applying economic models in policy and business
	consulting as well as in research. The objective of this course is to introduce
	same basic concepts of numerical analysis and to make the students familiar
	with solution methods for a broad class of economic models, including
	examples from finance, game theory, and macroeconomics. While most
	examples are used to illustrate the different algorithm and programming
	techniques, there will be a special focus on the quantitative macroeconomic
	workhorse model at the end of the lecture.
	This course gives an introduction to computational economics and finance.
	Starting point will be an introduction to Matlab, one of the most-widely used
	computer programs for simulating economic models. In the main part of the
	lecture basic numerical methods are presented, i.e. solving linear and
	nonlinear equations, numerical optimization, integration and differentiation
	as well as function approximation. All of the topics will be presented
	theoretically and will be accompanied by going through the computer code

	so that about one quarter of the course will be applied.
Expected competences	Learning objectives:
acquired after	• Introduction to scientific programming with Matlab. Focus on
completion of the	numerical methods for economic problems with many applications
module	to microeconomics, macroeconomics, econometrics, finance, etc.
	• After the course, the student should be able to implement small
	computational problems to derive quantitative reliable results
Requirements for the	Final exam (180min, 70%), take home assignment (30%)
assignment of ECTS-	
credits and grades	
Responsible teacher of	Prof. Dr. Martin Scheffel
the module	
Further information	Main textbook: Judd, K. L. (1998): Numerical Methods in Economics. The
	MIT Press.

Module number and	
title	E5053 Quantitative Methods for Monetary Economics
Form and applicability	Elective module for Master in Economics
of the module	
Duration of the Module	One semester
ECTS-Credits	9
Teaching method (hours	Lecture (2 SWS) + exercises (2 SWS)
per week)	
Workload	270 hours in total; 21 hours in class and 249 hours for independent studies
	and exam prepartion
Cycle of offer	Irregular
Expected number of	15
students in class	
Course language	English
Prerequisites	E601-603 or equivalent
Goals and contents of	This course will provide a basic toolbox to analyze macroeconomic models.
the module	Specifically we will learn how to solve neoclassical growth models, real
	business cycle models, and New Keynesian monetary models by numerical
	methods. They are also called "Dynamic Stochastic General Equilibrium
	(DSGE)" models. DSGE models often have only numerical solutions;
	therefore, it is important to learn how to solve models as well as its
	implication for understanding macroeconomic phenomena. In class, hands-
	on sessions using MATLAB and Dynare are also provided.
Expected competences	Students will acquire the ability to operate and conduct numerical analysis
acquired after	within a modern framework of macroeconomic models.
completion of the	
module	
Requirements for the	Problem sets (50%) and final assignment (50%)
assignment of ECTS-	
credits and grades	
Responsible teacher of	Takeki Sunakawa, Ph.D.
the module	
Additional teachers	none
Further information	The material discussed in class will be accompanied by lecture notes and
	relevant references. Homework assignments may require writing computer
	codes. The programming environment of the course is MATLAB and
	Dynare. Programming may be done in groups, but the homework must be
	submitted individually.
	The textbooks of the course are McCandless, G. "The ABCs of RBCs: An

Introduction to Dynamic Macroeconomic Models," Harvard University Press
(2008) and Galí, J. "Monetary Policy, Inflation and the Business Cycle: An
Introduction to the New Keynesian Framework," Princeton University Press
(Second Edition, 2015). Other references are indicated in class if necessary.

Module number and	
title	E5057 Advanced Game Theory
Form and applicability	Elective module for Master in Economics
of the module	
Duration of the Module	One semester
ECTS-Credits	5
Teaching method (hours	Lecture (2 SWS)
per week)	
Workload	150 hours in total; 21 hours in class and 129 hours for independent studies
	and exam prepartion
Cycle of offer	Irregular
Expected number of	15
students in class	
Course language	English
Prerequisites	E601-603 or equivalent
Goals and contents of	The course will cover topics of game theory. The first half of the course
the module	starts with a quick but formal review of the basics: dominated strategies,
	Nash equilibrium, and repeated games. Then, more in-depth normal form
	game topics will be covered: Minmax games, Bayesian games and Quantal
	Response equilibrium. The second half of the course will be devoted to
	extensive form games. Topics will be: Definition of the extensive form
	game, sub-game perfection, Backward Induction, Sequential equilibrium,
	perfect Bayesian Nash equilibrium, Forward Induction, Signaling games.
	Time permitting, additional topics may be the Trembling Hand perfect
	equilibrium and evolutionary games.
Expected competences	After finishing the course, students will be able to:
acquired after	
completion of the	• Solve games for various equilibria (e.g. Nash EQ, SPN EQ, SEQ,
module	pPNEQ)
	• Judge which solution concept is the correct one to apply to specific
	games
	• Transform verbal descriptions into the appropriate game form
	• Check games for the existence of equilibria
	• Use those skills in simple applied models
Requirements for the	Final exam (120 min)
assignment of ECTS-	
credits and grades	
Responsible teacher of	Dr. Peter Dürsch
the module	
Additional teachers	none
Further information	Recommended literature will be discussed in class.

Module number and title	E5059 Public Service Delivery in Developing Countries
Form and applicability of the module	Elective module for Master in Economics

Duration of the Module	One semester
ECTS-Credits	7
Teaching method (hours	Lecture (2 SWS) + exercise (1 SWS)
per week)	
Workload	210 hours in total; 31.5 hours in class and 178.5 hours for independent
	studies and exam prepartion
Cycle of offer	Irregular
Expected number of	15
students in class	
Course language	English
Prerequisites	E601-603 or equivalent
Goals and contents of	In this course, we will study both theoretically and empirically how best to
the module	motivate public servants with a focus on developing countries. We will start
	with the traditional theory of motivation, looking at how incentive contracts
	and selection can affect performance in the public sector and examine the
	results of experiments that have changed the incentive structure of public
	servants. We will also examine a newer literature that focusses on how
	identity is shaped in the work place and notes that workers who are
	intrinsically motivated to work may not respond well to explicit incentives.
	Again, we will look at experimental evidence that examines to what extent
	these theories are important in the real world.
Expected competences	Students will gain an understanding of the theory of incentives as well as
acquired after	how these apply to the real world in developing countries. The course also
completion of the	aims to give students a better understanding of the empirical methods used in
module	applied work on the subject of incentivising public-sector workers.
Requirements for the	Final exam (120 min, 80%), take home assignment (20%)
assignment of ECTS-	
credits and grades	
Responsible teacher of	Dr. Nicholas Barton
the module	
Additional teachers	none
Further information	Recommended literature will be discussed in class.

Elective Modules: Seminars

Module number and	
title	E506 Seminar on Human Capital Formation
Form and usability of	Elective course for M. Sc. Economics
the module	
Responsible teacher of	PD Dr. Friedhelm Pfeiffer
the module	
Cycle of offer	Each spring semester
ECTS credits	5
Teaching method (hours	Seminar (2)
per week)	
Workload	150 working hours, containing 21 hours time in class and 129 hours
	independent study time and preparation for the seminar paper and
	presentation.
Course language	English
Prerequisites	E601-603 (or equivalent); interest in research on the economics and
_	econometrics of education and human capital formation
Grading and ECTS	Seminar paper (50%), oral presentation (25%), discussion (25%)
credits	
Goals and contents of	In the seminar education and human capital formation will be discussed from
the module	a theoretical and empirical point of view. We will study initial life
	conditions, the role of investments by the individual, the family and
	educational institutions and their expected returns. Especially optimal
	investments into human capital over the life cycle are examined together
	with the role of families and educational institutions in financing and
	producing skills. The intentions, structure and limitations of important
	empirical studies in the field, like SOEP, PISA or NEPS will be investigated,
	together with educational policies and reforms.
Expected competences	Ability to write, present and defend an academic essay.
acquired after	
completion of the	
module	
Further Information	In case you would like to participate in the seminar, please contact me via
	email. In response I will send you a list of seminar topics and further
	application procedures. The course shall take place on Wednesday, 15:30-
	17:00 in room 310, ZEW Mannheim.
Expected number of	10
students in class	
Contact information	PD Dr. Friedhelm Pfeiffer; Phone: +49 621 123150; email: pfeiffer@zew.de

Module number and	
title	E530 Topics in Industrial Organization
Form and usability of	Elective course for M. Sc. Economics
the module	
Responsible teacher of	Prof. Ph. D. Nicolas Schutz
the module	
Cycle of offer	Each spring semester
ECTS credits	5
Teaching method (hours	Block seminar (2)
per week)	
Workload	150 working hours for organizational meeting, block seminar, preparation of
	the seminar paper and presentation.
Course language	English

Prerequisites	E601-603 (or equivalent).; no prerequisites for MMM students. Not suitable
	for Business Mathematics students.
Grading and ECTS	Classroom presentation (30% of final grade), Seminar paper report (70% of
credits	final grade)
Goals and contents of	The seminar will cover selected topics on vertical integration and the
the module	boundaries of the firm. A reading list will be communicated at a later stage.
Expected competences	Students will acquire a broad knowledge on topics related to vertical
acquired after	integration, its anticompetitive effects (the double Cournot model à la
completion of the	Salinger (1988), the foreclosure effect à la Ordover, Saloner and Salop
module	(1990), the opportunism problem à la Hart and Tirole (1990)), and its
	efficiency effects (the transaction costs approach à la Williamson (1978), the
	property rights approach à la Grossmann-Hart-Moore (1986, 1990)). They
	should also understand the limitations of these theories, which have been
	highlighted in the literature (see, among others, Reiffen (1992), McAfee and
	Schwarz (1993) and Rey and Vergé (2005)). After reading research articles
	related to these topics, they will acquire an excellent command of the
	technical tools used by researchers contributing to this field. Relevant
	techniques include advanced game-theoretical tools (perfect bayesian
	equilibrium and its refinements, repeated games) as well as mathematical
	tools (polynomials, multivariate analysis and proof-writing skills). A student
	who successfully passes this course should use this new knowledge as a
	starting point to start contributing in a research-oriented way to the vertical
	integration literature.
Further information	Topics will be introduced in the first meeting.
Expected number of	10
students in class	
Contact person	Prof. Ph. D. Nicolas Schutz

Module number and	
title	E586 Evaluation of Labor, Development, Education and
	Health Programs and Policies
Form and applicability	Elective Course for Master in Economics
of the module	
Duration of the Module	1 semester
ECTS-Credits	5
Teaching method	Blockseminar
Cycle of offer	Once (spring semester)
Expected number of	5-20
students in class	
Course language	English
Prerequisites	E601-603 (or equivalent) for all Master's elective courses
General requirements	Econometrics at the Master level
Goals and Contents of	This course will introduce students to the most important approaches of
the module	program evaluation with a particular focus on the application of these
	methods. These approaches have been widely used in the economics
	literature in diverse fields (development, labor, public economics, economics
	of education and health) and can be applied to a wide range of questions
	such as evaluating the effects of antipoverty programs (e.g. conditional cash
	transfer programs), educational and job training programs, of changes in
	laws such as minimum wage laws and minimum drinking age, preventative
	health care and family planning programs, etc.
	The course will be structured according to the most important methods of
	program evaluation. Each method has been applied in different research
	areas (i.e. labor, development, education, health and public economics), so
	students can choose a topic to present and to write a short research paper on

	from the list of different research areas and of the different possible program
Expected Competences acquired after completion of the module	The course aims at teaching students the skills that are necessary for reading and understanding recent applications of program evaluation methods in the areas of labor, development, public, education and health economics and for being able to apply the most important approaches of program evaluation to research questions of their interest
Requirements for the assignment of ECTS- Credits and Grades	Presentation of a scientific paper in a research area the student is interested in (choice among the papers on an extended version of the reading list below) and writing of a short research paper.
Responsible teacher of the module	Prof. Dr. Katja Kaufmann
Further information	Papers to be presented and research topics can be chosen from the reading list below (to be extended):
	A Introduction to Program Evaluation Methods
	<u>B Randomized and Natural Experiments</u>
	- Duflo, E. and Saez, E. (2003) "The Role of Information and Social Interactions in Retirement Plan Decisions: Evidence from a Randomized Experiment", QJE, 118, 815-842
	- Duflo, E., Dupas, P., Kremer, M. and Sinei, S. (2006) "Education and HIV/AIDS prevention: evidence from a randomized evaluation in Western Kenya," Policy Research Working Paper Series 4024, The World Bank.
	C Difference-in-Difference Estimator
	- Abadie, A. and Garbeanzabal, J. (2003) "The Economic Costs of Conflict: A Case Study of the Basque Country", AER, 93, 113-132.
	- Card, D. and Krueger, A. (1994) "Minimum Wages and Employment: A Case Study of the Fast Food Industry in New Jersey and Pennsylvania", AER,84 (4), 497-532.
	D Regression Discontinuity Approach
	- Carpenter, C. and Dobkin, C. (2008) "The Effect of Alcohol Consumption on Mortality: Regression Discontinuity Evidence from the Minimum Drinking Age", American Economic Journal (AEJ): Applied Economics.
	- Garibaldi, P.; Giavazzi, F.; Ichino, A. and Rettore, E. (2007) "College Cost and Time to Complete a Degree: Evidence from Tuition Discontinuities", CEPR Discussion Paper N. 6106
	- Ludwig, J. and Miller, D. (2006) "Does Head Start Improve Children's Life Chances? Evidence from a Regression Discontinuity Design", NBER Working Paper 11702.
	<u>E</u> Comparison of different Approaches and Critical Evaluation
	- LaLonde, R. (1986) "Evaluating the Econometric Evaluations of Training Programs with Experimental Data", American Economic Review 76, 604-620

- Todd, P. and Wolpin, K. (2006) "Assessing the Impact of a School Subsidy Program in Mexico: Using Experimental Data to Validate a Dynamic Behavioral Model of Child Schooling and Fertility", AER, 96(5), 1384-1417.
F Instrumental Variable Estimation (IV, LIV, IV-Quantile Regression)
- IV: Gentzkow and Shapiro (2008) "Preschool Television Viewing and Adolescent Test Scores: Historical Evidence from the Coleman Study", QJE
- IV: Ichino, Andrea and Rudolf Winter-Ebmer (2004) "The Long-Run Educational Cost of World War Two", Journal of Labor Economics, 22 (1), 57-86.
- LIV: Carneiro, P., Heckman, J. J.and Vytlacil, E. (2005) "Understanding what IV Estimate: Estimating Marginal and Average Returns to Education"
- Q-IV: Abadie, A., Angrist, J., and Imbens, G. (2001) "Instrumental Variables Estimation of the Effect of Subsidized Training on the Quantiles of Trainee Earnings", Econometrica

Module Number and	
Title	E5016 Topics in International Finance
Form and applicability	Elective course for Master in Economics
of the module	
Duration of the module	1 semester
ECTS-Credits	5
Teaching method	seminar
Workload	
Cycle of offer	once
Expected number of	15
students in class	
Course language	English
Prerequisites	E601-E603 (or equivalent)
Goals and Contents of	The course reviews selected topics in International Finance with an emphasis
the module	on their policy implications. It requires familiarity with basic concepts in
	international economics and finance, macroeconomics, banking and
	econometrics. The reading list combines classic academic papers, recent
	working papers as well as reports by central banks and international
	organisations. The course is targeted at Master students who are interested in
	empirical research on international issues or aim at pursuing a career in a
	large central bank or an international organization (e.g. IMF, BIS, OECD
	etc.).
Expected Competences	After completing this module, students will be familiar with selected recent
acquired after	empirical research in international finance which has proven to be relevant
Completion of the	for central banks, regulators and international organisations. Students will
Module	also get exposed to data sources and empirical strategies used by researchers
	to identify causal effects in international finance. The seminar will also
	enable participants to provide constructive criticism of the papers discussed
	and to put them into a broader context. Finally, the seminar will help
	students to improve their presentation and writing skills and to get ideas for
	own empirical research in the area of international economics and finance.
Requirements for the	The evaluation will be based on students' participation in discussions during

assignment of ECTS-	the seminar (20%), a presentation of one academic paper from the reading list (40%) and a terms paper (40%)
Credits and Grades	list (40%) and a term paper (40%).
the module	Dr. Koland Beck, 1el. (0021) 181 -, E-Mail: Ibeck@uin-mailmein.de
Eurther information	1 Financial Development
Further miormation	1. Philatelai Development
	• The basic Finance-and-Growth Nexus
	 Non-linearities in the Finance-and-Growth Nexus
	• The "dark side" of Finance
	• Case study: Is Europe Overbanked?
	2. Financial Integration
	Benefits of international financial integration
	 Boom-and bust cycles in international capital flows
	 Financial de-globalisation after the financial crisis?
	Capital controls and Financial Protectionism
	• Case study: Capital flows and gravity models during the Sovereign
	Debt Crisis
	3 Einancial crises
	5. Financial crises
	• Stylised facts about systemic crises
	• Early warning models
	Spillovers and contagion
	Safe haven assets
	Case study: Global spillovers from market turbulences in China
	4. Global liquidity and the global financial cycle
	• Defining and measuring global liquidity
	Risk appetite and policy uncertainty
	 Global financial cycles and monetary policy autonomy
	 Case study: Common factors in global liquidity indicators
	5. Global investors
	Global banks (G-SIFIs)
	Institutional investors
	• Central banks and Sovereign Wealth Funds (SWFs)
	Case study: Optimal reserve composition in the presence of sudden
	stops
	6. The International Monetary System
	International currencies
	Exorbitant privileges and exorbitant duties
	Currency mismatches
	Monetary policy spillovers
	• Case study: The international role of the euro and the RMB
	7. The Global Financial Safety Net
	Reserve adequacy
	Currency swap lines
	Regional Financial Arrangements

•	Case study: Central bank swap lines during the global financial crisis

Module number and	
title	E5028 Topics on Monetary Union
Form and usability of	Elective Module for M. Sc. Economics
the module	
Responsible teacher of	Prof. Dr. Antoine Camous
the module	
Cycle of offer	Once a year
ECTS credits	5
Teaching method (hours	Block seminar (2)
per week)	
Workload	150 working hours for organizational meeting, block seminar, preparation of
	the seminar paper and presentation
Course language	English
Prerequisites	E601-603 (or equivalent); for MMM and Business Mathematics students:
	good foundations in macroeconomics
Grading and ECTS	The final grade will reflect both the content and the clarity of the
credits	presentation (30%), the report (40%), and the report refereed (30%).
Goals and contents of	To form a Monetary Union, countries renounce to independent monetary
the module	policy and exchange rate adjustments. They adopt a common currency, free
	capital circulation and centralize monetary policy. Still, substantial elements
	of economic policy (fiscal policy, labor market regulations, etc.) are kept
	being conducted at the national level.
	This seminar will review theoretical and empirical frontier research to
	address the following core question:
	1. Why would countries form a Monetary Union?
	2. How to design institutions then?
	3. How to measure the costs and benefits of a Monetary Union?
	The following paper is a starting point for the cominer:
	Mongelli (2002) – "New Views on the Ontimum Currency Area Theory"
	What is FMU telling us?" - FCB WP 138
Expected competences	Three interrelated objectives:
acquired after	Thee interretated objectives.
completion of the	1 Review scientific research within its literature extract its core idea
module	and critically assess the relevance of the idea
mouule	2 Communicate effectively (oral presentation and written reports)
	3 Understand and apply the academic peer-review process
	Each particinant will be matched with a referee. The objective is to
	encourage collaborative review of both the content and the clarity of
	individual reports and so to improve the presentation of academic research
	(both written and oral).
Further information	The class description can change prior to the start of the seminar.
Expected number of	5 - 15
students in class	
Contact information	Prof. Dr. Antoine Camous; Phone: (06221) 181 -0186; email: camous@uni-
	mannheim.de; Office: 2.43, Office hours: Wed 4-5pm.

Module number and	E5036 Economics of Arts and Cultura
title Form and usability of	Elastiva source for M. Sa. Economias
the module	Elective course for M. Sc. Economics
Responsible teacher of	Dr. Andrej Svorenčík
the module	
Cycle of offer	Once a year
ECTS credits	5
Teaching method (hours per week)	Block seminar(2)
Workload	150 hours for organizational meeting, block seminar, preparation of the seminar paper and presentation.
Course language	English
Prerequisites	E601-E603 (or equivalent); for MMM and Business Mathematics students:
	good foundations in economic theory
Grading and ECTS	Preparation (10%), presentation & class participation (50%), seminar paper
credits	(40%)
Goals and contents of	Economics of Arts & Culture or cultural economics is the application of
the module	economic analysis to the creative and performing arts, the heritage and
	cultural industries, in both the public and private sectors. It is concerned with
	the economic organization of the cultural sector and with the behavior of
	students con choose their presentation include for instance, economics of ort
	(demand and supply for art art auctions), aconomics of luxury goods
	economics of the performing arts, economics of cultural heritage, economics
	of creative industries (music industry film industry festivals museums)
	economics of broadcasting, book publishing, and cultural policy.
Expected competences	Students develop skills in analyzing cultural economics issues and
acquired after	understanding their effects on economic agents using models, case studies
completion of the	and empirical methods.
module	1
Further information	• Towse, Ruth. 2010. A Textbook of Cultural Economics. Cambridge,
	UK; New York: Cambridge University Press.
	• Ginsburgh, Victor A. and Throsby, David (Eds.) 2006 & 2014.
	Handbook of the Economics of Art and Culture. 2 volumes.
	Available online through the university library:
	http://www.sciencedirect.com/science/handbooks/15740676/1 and
	http://www.sciencedirect.com/science/handbooks/1574067
Expected number of	10 students maximum
Expected number of	
Contact information	
Contact Information	

Module number and	
title	E5041 Seminar on Auction Theory
Form and applicability	Elective module for Master in Economics
of the module	
Duration of the Module	One semester
ECTS-Credits	5
Teaching method (hours	Block seminar (2 SWS)
per week)	
Workload	150 working hours (organizational meeting, block seminar, preparation of
	the seminar paper and presentation)
Cycle of offer	Irregular
Expected number of	10

students in class	
Course language	English
Prerequisites	E601-603 or equivalent
Goals and contents of	This seminar will provide an overview of modern auction theory. Selected
the module	papers on auction theory and mechanism design will be covered. The focus
	of the seminar is not only on the results of the auction theoretic literature but
	also on the methods and proof techniques.
Expected competences	Students will acquire knowledge on topics related to auction theory. It will
acquired after	help students to improve their presentation and writing skills and to get ideas
completion of the	for own research. The seminar will also enable participants to provide
module	constructive criticism of the papers discussed and to put them into a broader
	context.
Requirements for the	Seminar thesis + presentation
assignment of ECTS-	
credits and grades	
Responsible teacher of	Prof. Dr. Vitali Gretschko
the module	
Additional teachers	Phillipe Gillen
Further information	List of papers will be provided during the first meeting.

Module number and	
title	E5054 Topics in Environmental and Energy Economics
Form and applicability	Elective module for Master in Economics
of the module	
Duration of the Module	One semester
ECTS-Credits	5
Teaching method (hours	Block seminar (2 SWS)
per week)	
Workload	150 hours consisting of class time, independent study and writing of the
	final paper.
Cycle of offer	Irregular
Expected number of	10
students in class	
Course language	English
Prerequisites	E601-603 or equivalent
Goals and contents of	The seminar covers recent research in environmental and energy economics.
the module	The topics range from the international perspective of global public goods
	provision as being addressed in international climate negotiations to local
	applications targeting energy savings or tackling externalities within the
	mobility sector.
Expected competences	Students have gained a broad understanding on selected recent trends in
acquired after	environmental and energy economics. They are able to apply their expertise
completion of the	and methods to analyse, discuss and evaluate issues of environmental
module	economics. The students have broadened and sharpened their analytical
	abilities as well as their presentation and discussion skills.
Requirements for the	Seminar participants have to write a seminar paper (22,000 characters
assignment of ECTS-	including spaces), in which they analyse a problem related to environmental
credits and grades	and energy economics. The paper has to be presented in class. The seminar
	paper and the presentation contribute equally to the final grade.
Responsible teacher of	Prof. Achim Wambach, Ph.D.
the module	
Additional teachers	Dr. Martin Kesternich, Carlo Gallier
Further information	Contact person: Dr. Martin Kesternich, email: kesternich@zew.de; Dr.
	Fabienne Rasel, email: rasel@zew.de

Module number and	
title	E5055 Field Experiments in Experimental Economics
Form and applicability	Elective module for Master in Economics
of the module	
Duration of the Module	One semester
ECTS-Credits	5
Teaching method (hours	Block seminar (2 SWS)
per week)	
Workload	150 hours consisting of class time, independent study and writing of the
	final paper.
Cycle of offer	Irregular
Expected number of	10
students in class	
Course language	English
Prerequisites	E601-603 or equivalent
Goals and contents of	Development of a profound understanding of the functioning and application
the module	of economic field experiments. In this respect the seminar gives an overview
	of the different areas where economic field experiments are applied. For
	instance, we will discuss papers in the areas of experimental labor
	economics, work incentives, compliance, discrimination and gender
	differences, fundraising, and development economics.
Expected competences	A profound understanding of mirco economics, game theory, and behavioral
acquired after	economics. Moreover, good econometric skills are required. Ability to
completion of the	review and to discuss state of the art research papers. Ability to write an
module	academic essay. In-class presentation and discussion of the covered research
	topic.
Requirements for the	Submission of a seminar paper (70%), in-class presentation of the paper
assignment of ECTS-	(20%), active in-class cooperation during the presentations on the block-
credits and grades	seminar day (10%).
Responsible teacher of	Dr. Holger Rau
the module	
Additional teachers	none
Further information	The course announcement and topic list can be found <u>here</u> .

Module number and	
title	E5056 Seminar on Game Theory
Form and applicability	Elective module for Master in Economics
of the module	
Duration of the Module	One semester
ECTS-Credits	5
Teaching method (hours	Block seminar (2 SWS)
per week)	
Workload	150 hours consisting of class time, independent study and writing of the
	final paper.
Cycle of offer	Irregular
Expected number of	10
students in class	
Course language	English
Prerequisites	E601-603 or equivalent, basic knowledge of game theory
Goals and contents of	The goal of the course is for students to formulate, design and implement a
the module	Wikipedia page on a topic related to Game Theory. Students can use either
	the German language Wikipedia or an English language Wikipedia. At a first
	meeting, students will be introduced to the concept of editing pages on
	Wikipedia and then chose their game theoretic topic. At the end of the
	semester, students will present their implementation of the wiki page to the

	group and "hand in" a final version of their wiki page. If successful, it is the goal of the course to publish the final work in the applicable Wiki, making it available to Wiki users worldwide.
Expected competences	During the course, students will learn to use the editing tools and policies of
acquired after	Wikipedia. They will obtain deep knowledge of one specific game theoretic
completion of the	topic and learn to present this topic to viewers who are not very familiar with
module	said topic. This includes learning optimal ways to present facts in a
	Wikipedia setup (e.g. use of pictures and hyperlinks).
Requirements for the	Seminar thesis (wiki format, 60%), presentation (40%)
assignment of ECTS-	
credits and grades	
Responsible teacher of	Dr. Peter Dürsch
the module	
Additional teachers	none
Further information	

Module number and	
title	E5058 Regression Shrinkage Methods
Form and applicability	Elective module for Master in Economics
of the module	
Duration of the Module	One semester
ECTS-Credits	5
Teaching method (hours	Block seminar (2 SWS)
per week)	
Workload	150 working hours (organizational meeting, block seminar, preparation of
	the seminar paper and presentation)
Cycle of offer	Irregular
Expected number of	10
students in class	
Course language	English
Prerequisites	E601-603 or equivalent
Goals and contents of	The seminar gives an introduction in regression shrinkage methods. Both
the module	econometric theory and (economic) applications will be included in the
	course. Details of the seminar will be discussed during the introductory
	meeting on 8 March 2018.
	Course website (available soon):
	http://www.farbmacher.de/mannheim/rsm/lecture.html
Expected competences	"Big Data" methods have become increasingly important in data analysis.
acquired after	The students should be enabled to understand basic concepts in regression
completion of the	shrinkage and to utilize recent results for their own applied work.
module Descriptions on the form the	$\mathbf{P}_{\text{rescaled}} = (400/2) = 14 \text{ mm} = (600/2)$
Requirements for the	Presentation (40%) and term paper (60%)
assignment of EC15-	
Credits and grades	Dr. Halmut Farhmashar
the module	DI. Heimut Faromacher
Additional tasahara	none
Auditional teachers	Recommended reading s: Hestia T. Tibshirani P. Eriadman I. (2008): The
r urmer mormation	Flements of Statistical Learning: Efron R Hastie T (2016): Computer Age
	Statistical Inference

Additional Courses for Economists

Module number and	
title	E5051 Mannheim Competition Policy Forum
Form and usability of	Compulsory course for Master in Economics with specialization Competition and
the module	Regulation Economics, elective course for Master in Economics with
	specialization Economics
Responsible teacher of	
the module	
Cycle of offer	Each semester
ECTS credits	
Teaching method	
(hours per week)	
Workload	
Course language	English
Prerequisites	E601- E603 (or equivalent; this course is only suitable for Economics students)
Grading and ECTS	
credits	
Goals and Contents of	The last couple of years have seen a remarkable increase in the application of
the module	economic insights to competition problems. In order to further promote and
	refine this development, practitioners need to understand how
	microeconomics can help to shed light on particular aspects of competition
	problems. At the same time, academics benefit from a better understanding of
	real-world challenges and institutional details.
	The forum aims at providing a platform for the discussion of recent cases.
	general competition policy issues, and relevant academic research in the
	field Renowned practitioners and academics will be invited to present their
	views on cases and general policy questions followed by a discussion of the
	economic implications with the audience
	Starting from the automn semester 2017 the MCPF is an official part of two
	master's programmes at the University of Mannheim Participation is
	compulsory for economics students in the competition and regulation track
	and for law students in the master on competition and regulation law
Expected Competences	
acquired after	
completion of the	
module	
Further information	
Expected number of	
students in class	
Contact information	

Curriculum

The Economics Track			The Competition and Regulation Economics Track			The Economic Research Track		
Introductory Phase	Exam (min)	ECTS credits	Introductory Phase	Exam (min)	ECTS points	Introductory Phase	Exam (min)	ECTS points
Advanced Microeconomics	120	10	Advanced Microeconomics	120	10	Mathematics for Economists	120	6
Advanced Macroeconomics	120	10	Advanced Macroeconomics	120	10	Advanced Microeconomics	120	8
Advanced Econometrics	120	10	Advanced Econometrics	120	10	Advanced Macroeconomics	120	8
						Advanced Econometrics	120	8
Specialization Phase			Specialization Phase: Compulsory Modules			Specialization Phase : Compulsory Modules		
Specialized master courses including 2-4 seminars		60-66	Industrial Organization - Markets and Strategies		14	Advanced Microeconomics II	120	5
C			Empirical Industrial Organization		7	Advanced Microeconomics	120	5
			Competition Law		5	Advanced Macroeconomics	120	5
			Interdisciplinary Competition and Regulation Seminar		5	Advanced Macroeconomics III	120	5
			C			Advanced Econometrics II	120	5
						Advanced Econometrics III	120	5
			Specialization Phase : <i>Elective Modules</i>			Specialization Phase: <i>Elective Modules</i>		
			Specialized courses including 1-3 seminars		29 - 35	Specialized PhD courses and 1-2 seminars		40-46
						Specialization Phase: Resea	search Seminars	
						CDSE seminar in the 3rd		0
						and 4th semester		0
						Faculty seminar		0
Research Phase			Research Phase			Research Phase	<u> </u>	<u> </u>
Master's thesis (4 months), possibly including a thesis colloquium		30	Master's thesis (4 months), possibly including a thesis colloquium		30	Research thesis (11 weeks)		20
Total		120-126	Total		120-126	Total		120-126