



WESTFÄLISCHE
WILHELMS-UNIVERSITÄT
MÜNSTER

Module Descriptions

for the Bachelor of Science in Economics
of the University of Münster
from Oct. 14th 2010 in the version from Oct. 16th 2014

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Study Plan

Year	Sem.	Economics	Business Administration	Quantitative Methods, Law	CP total
1	1	VWL1 Principles of Economics (3)	BWL1 Foundations of Business Administration (9)	QR1 Mathematics and IT (12)	30
	2	Microeconomics I (9)	BWL2 Foundations of Accounting (9)	QR2 Statistics I (6) QR3 Statistics II (6) QR4 Law (6)	
2	3	VWL2 Macroeconomics I (9)			30
		VWL3 Microeconomics II (9)			
		VWL4 Applied Research in Economics: Public Finance (12)			
	4	VWL5 Macroeconomics II (9)			
VWL6 Applied Research in Economics: Economic Policy and Regulation (12)					
3	5	3 x 6 LP (3 aus X) Electives in Economics VWL9 - VWL35	2 x 6 LP (2 aus X) Electives in Business Adm. BWLX - BWLY		30
	6	VWL7 Macroeconomics III (9)			30
		VWL8: Microeconomics III (9)			
		Bachelor Thesis (12)			

Microeconomics I

Module Title english:		Microeconomics I				
Course Program:		Bachelor Economics PO 2010				
1	Module No: VWL 1	State: Compulsory	Language of Instruction: German, partly English			
2	Turn: each term	Duration: 2 terms	Semester: 1, 2	CP: 12	Workload (h): 360	
3	Module Structure:					
	No	Type	Course	CP	Presence (h + CH)	Self-Study (h)
	1	Course	Principles of Economics (German and English)	1.5	30 h (2 CH)	15
	2	Exercise	Tutorial on Principles of Economics	1.5	30 h (2 CH)	15
	3	Course	Microeconomics	6	60 h (4 CH)	120
4	Exercise	Exercises in Microeconomics	3	30 h (2 CH)	60	
4	Module Contents:					
	Main topics and learning objectives: The course "Principles of Economics" deals with the basics of economic activity, of markets and market failures. The course "Microeconomics" deals with the theory of the household on the one hand (optimal household behavior, demand for goods, factor supply, insurance and uncertainty) and with the theory of the firm on the other (theory of production, least cost combination, supply of goods, factor demand). Moreover, theorems of welfare economics and incomplete markets are discussed. The aim of the exercises is to deepen the theoretical understanding acquired in the courses by providing problem sets that are solved by the students.					
5	Learning outcomes:					
	Academic: Students acquire an overview over the basic concepts of economics. They are able to understand and apply central theories and models. The courses of this module form a basis for more advanced courses.					
6	Description of possible electives within the modules: none					
7	Examination: Examinations for every part of the module					
8	Relevant Work:					
	Number and Type; Connection to Course			Duration	Part of final mark in %	
	Written exam on Principles of Economics			60 min.	25 %	
Written exam on Microeconomics			60 min.	75 %		
9	Study Work:					
	Number and Type; Connection to Course				Duration	

	none	
10	Prerequisites for Credit Points: The credit points will be granted after all relevant work and study work have been successfully completed.	
11	Weight of the module grade for the overall grade: 6.67% (12 of 180 CP)	
12	Module Prerequisites: none	
13	Presence: none	
14	Use of the module for other course programs: Bachelor Business Administration, Bachelor Economics, Bachelor Mathematics, Bachelor Geography	
15	Responsible Lecturer: Professor Dr. Martin Bohl, Professor Dr. Andreas Löschel	Department: School of Business and Economics
16	Misc.: The course “Principles in Economics” is offered in each winter term, the courses “Microeconomics” and “Exercises in Microeconomics “ each summer term.	

Macroeconomics I

Module Title english:		Macroeconomics I				
Course Program:		Bachelor Economics PO 2010				
1	Module No: VWL 2	State: Compulsory	Language of Instruction: German			
2	Turn: each winter term	Duration: 1 term	Semester: 3, 4	CP: 9	Workload (h): 270	
3	Module Structure:					
	No	Type	Course	CP	Presence (h + CH)	Self-Study (h)
	1	Course	Macroeconomics I	6	60 h (4 CH)	120
	2	Exercise	Tutorial on Macroeconomics I	3	30 h (2 CH)	60
4	Module Contents:					
	Background and relations to other courses:					
	The course "Macroeconomics" describes and explains basic economical interrelations. A fundamental understanding of the principles of macroeconomics is essential for the further courses in (macro)economics.					
	Main topics and learning objectives:					
	The primary purpose of the course is to develop an understanding of the economic analysis. The students should be qualified to analyse and evaluate economic development as well as political intervention.					
	Themes		Learning objectives			
	National Accounting		Students should learn how the different factors of the national accounts are composed.			
	Classical / Neoclassical Economics Keynesian Economics Neoclassical Synthesis		Students should learn and understand the difference between the theories.			
	Money Creation		Students should learn how money can be created by the financial sector and what money creation implies for the real sector.			
Economic Policy Implication		Students should learn what are the pros and cons of economic policy implication within the different theories.				
Business Cycle and Growth		Students should learn the difference between a short run business cycle and long run economic growth.				
Monetarism		Students should learn and understand the difference between Monetarism and the theories discussed in the earlier part of the lecture.				
Philips Curve		Students should learn how inflation and unemployment are linked to each other and what are the policy effects				

	Unemployment	Students should learn how unemployment emerges and what might be effective measures to reduce unemployment							
5	Learning outcomes: Academic: After completing the modules, students are familiar with the instruments of macroeconomic analysis and capable to assess states, developments and economic policy measures. Soft skills: Problem solving skill. Development of knowledge, both individually and in team								
6	Description of possible electives within the modules: none								
7	Examination: Final Module Exam								
8	Relevant Work: <table border="1"> <thead> <tr> <th>Number and Type; Connection to Course</th> <th>Duration</th> <th>Part of final mark in %</th> </tr> </thead> <tbody> <tr> <td>Final written exam</td> <td>60 min.</td> <td>100 %</td> </tr> </tbody> </table>			Number and Type; Connection to Course	Duration	Part of final mark in %	Final written exam	60 min.	100 %
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none									
10	Prerequisites for Credit Points: The credit points will be granted after all relevant work and study work have been successfully completed.								
11	Weight of the module grade for the overall grade: 5% (9 of 180 CP)								
12	Module Prerequisites: Basic knowledge in quantitative methods in economics (mathematics, statistics) necessary. Microeconomics I strongly recommended.								
13	Presence: none								
14	Use of the module for other course programs: Bachelor Business Administration, Bachelor Economics								
15	Responsible Lecturer: Professor Dr. Bernd Kempa, Professor Dr. Ulrich Suntum	Department: School of Business and Economics							
16	Misc.:								

Microeconomics II

Module Title english:		Microeconomics II				
Course Program:		Bachelor Economics PO 2010				
1	Module No: VWL 3	State: Compulsory	Language of Instruction: German			
2	Turn: each winter term	Duration: 1 term	Semester: 3, 4	CP: 9	Workload (h): 270	
3	Module Structure:					
	No	Type	Course	CP	Presence (h + CH)	Self-Study (h)
	1	Course	Industrial Economics	4.5	30 h (2 CH)	60
	2	Exercise	Industrial Economics	0	30 h (2 CH)	15
	3	Course	Game Theory	4.5	30 h (2 CH)	60
	4	Exercise	Game Theory	0	30 h (2 CH)	15
4	Module Contents:					
	Main topics and learning objectives:					
	The course "Industrial Economics" deals with the theory of incomplete markets, price differentiation, oligopoly theory (homogenous market: Nash-Cournot and Nash-Bertrand equilibria; heterogenous market, market entry, cooperations in an oligopoly), innovations, auctions and empirical industrial economics. The course "Game theory" deals with basics of game theory, solution concepts for non-cooperative games, games with incomplete information, repeated games, cooperation and evolutionary game theory.					
	Themes		Learning objectives			
	Supply behavior in a monopoly		Understand how a firm can use its market power to maximize its profit and the consequences on total welfare.			
	Supply behavior in an oligopoly and collusion		Understand the effects of strategic behavior of firms in the cases of competition in prices or quantities. Learn about the rationale of collusive behavior.			
Empirical industrial economics		Students learn to apply and to interpret simple indices for market concentration and market power.				
Innovations		Understand the implications of competition and patent protection on R&D behavior of firms.				
Auctions		Learn about differences between auction forms and about the effects of these differences on market results.				
5	Learning outcomes:					
Academic:						
Students are familiar with the methods of advanced microeconomics, especially in the field of game theory and industrial economics. They developed an understanding about how to practically apply the concepts.						

	Soft skills: Students are able to analyse strategic conflicts in a structured way.		
6	Description of possible electives within the modules: none		
7	Examination: Final Module Exam		
8	Relevant Work:		
	Number and Type; Connection to Course	Duration	Part of final mark in %
	Written exam for “Industrial Economics”	60 min.	50 %
	Written exam for “Game theory”	60 min.	50 %
9	Study Work:		
	Number and Type; Connection to Course	Duration	
	none		
10	Prerequisites for Credit Points: The credit points will be granted after all relevant work and study work have been successfully completed.		
11	Weight of the module grade for the overall grade: 5% (9 of 180 CP)		
12	Module Prerequisites: none		
13	Presence: Presence is recommended.		
14	Use of the module for other course programs: Bachelor Business Administration, Bachelor Economics		
15	Responsible Lecturer: Professor Dr. Andreas Löschel, Professor Dr. Aloys Prinz		Department: School of Business and Economics
16	Misc.:		

Applied Research in Economics: Public Revenue

Module Title english:		Applied Research in Economics: Public Revenue				
Course Program:		Bachelor Economics PO 2010				
1	Module No: VWL 4	State: Compulsory	Language of Instruction: German			
2	Turn: each winter term	Duration: 1 term	Semester: 3, 4	CP: 12	Workload (h): 360	
3	Module Structure:					
	No	Type	Course	CP	Presence (h + CH)	Self-Study (h)
	1	Course	Theory of Taxation	6	30 h (2 CH)	60
	2	Exercise	Theory of Taxation	0	30 h (2 CH)	60
	3	Course	Economic Analysis of the German Tax System	6	30 h (2 CH)	60
4	Exercise	Economic Analysis of the German Tax System	0	30 h (2 CH)	60	
4	Module Contents:					
	Background and relations to other courses:					
	<p>Theory of Taxation: For being able to understand the economic problems of taxation, the theory of taxation is a prerequisite. Especially, the economic impact of taxes on economic variables like allocation, distribution and stabilization as well as economic growth is of importance. The course is closely related to the course “Economic analysis of the German tax system (Spezielle Steuerlehre)” and to courses on taxation in business administration. Good knowledge of microeconomics is a prerequisite for this course. Economic Analysis of the German Tax System: Modern tax systems are highly complicated. This course is intended to show how one can analyse a national tax system by means of microeconomic techniques. In addition to the economic analysis, it is necessary to provide a comprehensive overview on tax laws (especially German Income Tax, Corporate Income Tax, VAT, Special Consumption Taxes). The course is closely related to the course “Theory of taxation (Allgemeine Steuerlehre)” and to courses on taxation in business administration. Good knowledge of microeconomics is a prerequisite for this course as is the readiness to learn the basics of German tax laws.</p>					
	Main topics and learning objectives:					
Themes		Learning objectives				
Theory of Taxation:						
Basic principles of taxation		Learn to understand why general taxation principles are crucial for a “good” tax system				
Structure of tax tariffs		Learn to compare taxes by their tariffs (especially average and marginal tax rates)				

	<table border="1"> <tr> <td>Tax incidence</td> <td>Learn to analyse with methods from microeconomics the impact of taxes on economic decisions (consumption, saving, investment, risk bearing etc.)</td> </tr> <tr> <td>Optimal taxation</td> <td>Learn to evaluate taxes from a welfare economics point of view</td> </tr> <tr> <td>International taxation</td> <td>Learn to understand the principles of international taxation and their impact on economic variables</td> </tr> <tr> <td>Economic Theory of the German Tax System:</td> <td></td> </tr> <tr> <td>Classifications of taxes</td> <td>Learn to understand how lawyers and economists classify taxes and why</td> </tr> <tr> <td>German Income Tax</td> <td>Learn to understand the basics of the German Income Tax Law; learn to analyse important aspects of the income tax on labor supply, investment etc.</td> </tr> <tr> <td>German Corporate Income Tax</td> <td>Learn to understand the basics of the German Corporate Income Tax Law; learn to analyse important effects of this tax on financing, investment etc. decisions of firms</td> </tr> <tr> <td>VAT</td> <td>Learn to understand the basic theory of all kinds of value added taxes and the structure of the European VAT</td> </tr> <tr> <td>Special Consumption Taxes</td> <td>Learn to understand the special aspects of these taxes, i.e. to influence the consumption behaviour with respect to fuel, alcohol etc.</td> </tr> </table>	Tax incidence	Learn to analyse with methods from microeconomics the impact of taxes on economic decisions (consumption, saving, investment, risk bearing etc.)	Optimal taxation	Learn to evaluate taxes from a welfare economics point of view	International taxation	Learn to understand the principles of international taxation and their impact on economic variables	Economic Theory of the German Tax System:		Classifications of taxes	Learn to understand how lawyers and economists classify taxes and why	German Income Tax	Learn to understand the basics of the German Income Tax Law; learn to analyse important aspects of the income tax on labor supply, investment etc.	German Corporate Income Tax	Learn to understand the basics of the German Corporate Income Tax Law; learn to analyse important effects of this tax on financing, investment etc. decisions of firms	VAT	Learn to understand the basic theory of all kinds of value added taxes and the structure of the European VAT	Special Consumption Taxes	Learn to understand the special aspects of these taxes, i.e. to influence the consumption behaviour with respect to fuel, alcohol etc.
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5	<p>Learning outcomes:</p> <p>Academic:</p> <p>(1) to learn the relevant methods of analysis of government revenue. (2) to know and understand the composition and structure of the German tax system and basic tax rules. (3) The ability to apply the relevant concepts of micro-and macroeconomics to analyze questions of government revenues.</p> <p>Soft skills:</p> <p>Active listening and note-taking in great events. Answering technical questions in front of a large audience. Working independently on economic problems</p>																		
6	<p>Description of possible electives within the modules:</p> <p>none</p>																		
7	<p>Examination: Examinations for every part of the module</p>																		
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10	Prerequisites for Credit Points: The credit points will be granted after all relevant work and study work have been successfully completed.	
11	Weight of the module grade for the overall grade: 6.67% (12 of 180 CP)	
12	Module Prerequisites: none	
13	Presence: Strongly recommended	
14	Use of the module for other course programs: Bachelor Economics, Bachelor Politics and Economics, Bachelor Economics and Law, Dual Bachelor Economics	
15	Responsible Lecturer: Professor Dr. Aloys Prinz	Department: School of Business and Economics
16	Misc.: Knowledge of German tax law, as it is taught in "Analysis of the German tax law" is an essential knowledge for all economists and for students who are interested in the field of "tax".	

Macroeconomics II

Module Title english:		Macroeconomics II				
Course Program:		Bachelor Economics PO 2010				
1	Module No: VWL 5	State: Compulsory	Language of Instruction: German			
2	Turn: each summer term	Duration: 1 term	Semester: 3, 4	CP: 9	Workload (h): 270	
3	Module Structure:					
	No	Type	Course	CP	Presence (h + CH)	Self-Study (h)
	1	Seminar	Economic Cycle and Employment	9	60 h (4 CH)	210
4	Module Contents:					
	<p>Background and relations to other courses: Based on the module Macroeconomics I, macroeconomic knowledge is deepened.</p> <p>Main topics and learning objectives: Content of teaching are economic theory, employment theory, applied national account systems, trade cycle policy, employment policy and monetary policy as well as labor economics and labor market policy. As an addition to the course "Economy and Employment", practical exercises will be worked on which are based on current economic data, especially those drawn from the Annual Report of the German Council of Economic Experts as well as the current reports of the Joint Economic Forecast and data from the OECD. Reading these materials and knowing about the content and methods are the subject of the exam.</p>					
	Themes			Learning objectives		
	Measurement of Potential Output Business Cycle Theories (Survey) Keynesian Models Monetaristic Models Chaos Theory and the Business Cycle Expectations and the Phillips Curve A comprehensive business cycle model Monetary Rules Wages and employment			See learning outcomes-academic		
5	Learning outcomes:					
	<p>Academic: Having completed this module, students will have fundamental knowledge about business cycle and employment analysis, which are a central part of the work of many ministries, associations and other public institutions and also economic departments of banks and companies.</p> <p>Soft skills: Independent revision of macroeconomic tasks in small groups; you will acquire the ability of independent analysis of complex issues, moreover you will learn how to prepare presentations of solutions in a group and present them as a group.</p>					
6	Description of possible electives within the modules: none					
7	Examination: Final Module Exam					
8	Relevant Work:					

	Number and Type; Connection to Course	Duration	Part of final mark in %
	Final written exam	90 min.	100 %
9	Study Work: Number and Type; Connection to Course		Duration
	none		
10	Prerequisites for Credit Points: The credit points will be granted after all relevant work and study work have been successfully completed.		
11	Weight of the module grade for the overall grade: 5% (9 of 180 CP)		
12	Module Prerequisites: It is recommended to have completed the first two semesters of the bachelor program.		
13	Presence: The presence is recommended.		
14	Use of the module for other course programs: Bachelor Economics, Bachelor Politics and Economics, Bachelor Economics and Law, Dual Bachelor Economics		
15	Responsible Lecturer: Professor Dr. Thomas Apolte, Professor Dr. Ulrich Suntum	Department: School of Business and Economics	
16	Misc.:		

Applied Research in Economics: Economic Policy and Regulation

Module Title english:		Applied Research in Economics: Economic Policy and Regulation				
Course Program:		Bachelor Economics PO 2010				
1	Module No: VWL 6	State: Compulsory	Language of Instruction: German			
2	Turn: each summer term	Duration: 1 term	Semester: 3, 4	CP: 12	Workload (h): 360	
3	Module Structure:					
	No	Type	Course	CP	Presence (h + CH)	Self-Study (h)
	1	Seminar	Foundations of Economic Policy	6	60 h (4 CH)	120
	2	Seminar	Foundations of Regulation	6	60 h (4 CH)	120
4	Module Contents:					
	<p>Background and relations to other courses: Foundations of Economic Policy: Financial markets regulation, deregulation of utilities in the European Union, reducing carbon dioxide emissions or consumer protection regulation: We are surrounded by economic policy actions. But when are these policy measures really indicated and when do they lack an economic rationale? The course will introduce economic policy instruments and will develop criteria when policy actions are indicated and when these are supposed to be merely to the benefit of politicians. This course on the foundations of economic policy is closely connected to the course on foundations of regulation in the same semester and to the course on competition policy in the following semester. It also draws on the course on microeconomics. Foundations of Regulation: The lecture „Foundations of Regulation” is part of the module “Applied Economic Research. Economic Policy and Regulation” together with the lecture „Foundations of Economic Policy”. It is based on “Microeconomics I”. “Introduction of Regulation” builds on problems stemming from restraints of competition and shows how these problems can be solved by a reasoned regulation policy. Moreover, the lecture deals with theoretical questions and contemporary problems of competition policy.</p> <p>Main topics and learning objectives: The seminar "Foundations of Economic Policy" aims to explain economic policy that we observe in everyday life. The way how decisions are made and implemented by the actors of economic policy is the focus of this course. Furthermore the seminar introduces economic policy instruments like pollution taxes or environmental regulations. Objectives, actors and instruments of economic policy are considered intensively. Students are to comprehend the economic reasoning for policy actions, they should be able assess, when such policy actions are to be applied and what drawbacks might be expected. Confronted with real-life examples they are supposed to evaluate the economic situation and suggest economic policy actions. Foundations of Regulation: In this course students become acquainted with basic theories of regulation. The course begins with the analysis of instruments that are able to solve market failure and their respective field of application. In order to facilitate understanding of the instruments functionality, practical examples are presented, analysed and discussed in detail. Students are also provided with basic knowledge in competition theory and policy. Thus, it is discussed why competition in markets is preferable from a social perspective and why companies try to avoid or reduce it. To enhance understanding, students are getting acquainted with severa industrial economics models with different market structures and outcomes. The influence of market behaviour of economic entities is also analysed in detail. Finally, means of competition policy are analysed that are capable of overriding the respective restraints.</p>					

Themes	Learning objectives
Foundations of Economic Policy:	
The need for economic policy	To learn about the basic questions of economic policy illustrated by an example from the news
Paradigms of economic policy	To learn the difference between the concept of “Ordnungspolitik”, which confines economic policy to rule setting tasks, and interventionist economic policy.
Economic system, economic policy, governmental regulation	To learn about the economic policy goals, its actors and addressees. To understand the working principles of economic policy instruments and to learn the policy decision making process.
Justification of economic policy in market economies	Starting from the situation of perfect markets students are to understand the reasons for market failure like externalities, subadditivity or information asymmetries. They are also to learn the limits of this allocative reasoning and how distributive arguments are used in economic policy debates. They should learn how to discern allocative from distributive reasoning.
Economic policy players	To learn that policy intervention may cause economically detrimental policy failures. To understand the economic incentives of politicians, voters, bureaucrats and lobbyists and how this influences the policy decision making process. To comprehend that economics is a suitable instrument for analysing this process.
Foundations of Regulation:	
Regulation of natural monopolies	To comprehend the emergence of natural monopolies. To understand the potential shortcomings of such monopolies. To know possible instruments that can solve potential shortcomings. To become acquainted with prominent practical examples.
Strategies of competition policy	To be able to distinguish between different kinds of restraints from competition and to know the strategies of competition policy to remove them. To obtain an overview of national and European cases in competition policy.
Horizontal agreements	To recognise horizontal agreements as restraints from competition and know about the consequences if they were let unsolved.
Horizontal mergers	To comprehend how horizontal mergers arise and to be able to evaluate them.
Vertical commitments and mergers	To recognise vertical commitments and mergers, to know how they evolve and how to be evaluated.
Abuse of market power	To determine the different forms of market power abuse and to evaluate the potential consequences.
5	<p>Learning outcomes: Academic: Foundations of Economic Policy: In the examination the student should demonstrate the knowledge of</p> <ul style="list-style-type: none"> • basic economic policy paradigms, • criteria when economic policy measures should be applied, • the working principles of economic policy instruments,

	<ul style="list-style-type: none"> when economic policy actions may be detrimental and should demonstrate the ability to apply this knowledge to real-world example, to construct suitable economic policy measures, to elaborate the pros and cons of these suggested policy actions. <p>Foundations of Regulation: The students are taught the theoretical knowledge of regulatory and competition theory and practical tools related to the solution of such problems.</p> <p>Soft skills: In this module, students learn particularly the analysis of complex economic policy issues with multiple factors, abstract and lateral thinking. Further, problem-solving skills will be practiced with examples.</p>									
6	Description of possible electives within the modules: none									
7	Examination: Final Module Exam									
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10	Prerequisites for Credit Points: The credit points will be granted after all relevant work and study work have been successfully completed.									
11	Weight of the module grade for the overall grade: 6.67% (12 of 180 CP)									
12	Module Prerequisites: A fundamental knowledge of basic quantitative methods and micro- and macroeconomics is required for this course.									
13	Presence: Strongly recommended									
14	Use of the module for other course programs: Bachelor Economics, Bachelor Politics and Economics, Bachelor Economics and Law, Dual Bachelor Economics									
15	<table border="1"> <tr> <td>Responsible Lecturer: Professor Dr. Gernot Sieg, Prof. Dr. Theresia Theurl</td> <td>Department: School of Business and Economics</td> </tr> </table>	Responsible Lecturer: Professor Dr. Gernot Sieg, Prof. Dr. Theresia Theurl	Department: School of Business and Economics							
Responsible Lecturer: Professor Dr. Gernot Sieg, Prof. Dr. Theresia Theurl	Department: School of Business and Economics									
16	Misc.:									

Macroeconomics III

Module Title english:		Macroeconomics III						
Course Program:		Bachelor Economics PO 2010						
1	Module No: VWL 7	State: Compulsory	Language of Instruction: German					
2	Turn: each summer term	Duration: 1 term	Semester: 5, 6	CP: 9	Workload (h): 270			
3	Module Structure:							
	No	Type	Course	CP	Presence (h + CH)	Self-Study (h)		
	1	Seminar	Monetary Theory	4.5	30 h (2 CH)	105		
	2	Seminar	International Economics	4.5	30 h (2 CH)	105		
4	Module Contents:							
	<p>Background and relations to other courses: Deeper understanding of the fundamentals of Macroeconomics I and II in the fields of international economics and monetary economics</p> <p>Main topics and learning objectives:</p> <table border="1"> <thead> <tr> <th>Themes</th> <th>Learning objectives</th> </tr> </thead> <tbody> <tr> <td>Assessing monetary policy measures of the European Central Bank, risks of inflation, prospects of financial globalization, analysis of financial markets and macroeconomic interdependencies between economies, foreign exchange rate determination and policy, emergence and consequences of currency and financial crises</td> <td>Students learn to analyze the interactions in money, financial and foreign exchange markets; ability to solve problems self-contained</td> </tr> </tbody> </table>					Themes	Learning objectives	Assessing monetary policy measures of the European Central Bank, risks of inflation, prospects of financial globalization, analysis of financial markets and macroeconomic interdependencies between economies, foreign exchange rate determination and policy, emergence and consequences of currency and financial crises
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Assessing monetary policy measures of the European Central Bank, risks of inflation, prospects of financial globalization, analysis of financial markets and macroeconomic interdependencies between economies, foreign exchange rate determination and policy, emergence and consequences of currency and financial crises	Students learn to analyze the interactions in money, financial and foreign exchange markets; ability to solve problems self-contained							
5	Learning outcomes:							
	<p>Academic: The students get an extended overview of the workings and mechanics of money and foreign exchange markets. The students also learn to evaluate states, dynamics and policy effects in these markets. The module is divided into two lectures, which are enriched by case studies.</p> <p>Soft skills: The analysis of complex problems fosters the ability of problem solving, both individually and in teams.</p>							
6	Description of possible electives within the modules: none							
7	Examination: Final Module Exam							
8	Relevant Work:							
	Number and Type; Connection to Course	Duration	Part of final mark in %					
	Final written exam	120 min.	100 %					
9	Study Work:							

	Number and Type; Connection to Course	Duration
	none	
10	Prerequisites for Credit Points: The credit points will be granted after all relevant work and study work have been successfully completed.	
11	Weight of the module grade for the overall grade: 5% (9 of 180 CP)	
12	Module Prerequisites: The successful completion of Microeconomics I and Macroeconomics I is required. All modules in the first and second semesters have to be passed.	
13	Presence: recommended	
14	Use of the module for other course programs: Bachelor Economics, Bachelor Politics and Economics, Bachelor Economics and Law	
15	Responsible Lecturer: Professor Dr. Martin Bohl, Professor Dr. Bernd Kempa	Department: School of Business and Economics
16	Misc.:	

Microeconomics III

Module Title english:		Microeconomics III				
Course Program:		Bachelor Economics PO 2010				
1	Module No: VWL 8	State: Compulsory	Language of Instruction: German			
2	Turn: each summer term	Duration: 1 term	Semester: 5, 6	CP: 9	Workload (h): 270	
3	Module Structure:					
	No	Type	Course	CP	Presence (h + CH)	Self-Study (h)
	1	Course	New Institutional Economics	4	30 h (2 CH)	75
	2	Course	Theory of the Firm	4	30 h (2 CH)	75
	3	Exercise	Tutorial/exam preparation	1	30 h (2 CH)	30
4	Module Contents:					
	<p>Background and relations to other courses: New Institutional Economics: Economic theory frequently abstracts from the institutional environment in which economic actions take place although these institutions significantly influence their economic outcomes. But institutions not only influence the individual actions (microeconomic perspective), they also show effects on macroeconomic variables like economic growth. Therefore, knowledge how institutions work and how improved institutions lead to better economic outcomes is a basic prerequisite for economists to formulate economic advice. The course is closely related to the following course on the theory of the firm. It is also connected to other microeconomic courses. While these courses elaborate the market results (usually under the assumption of perfect knowledge), the course on institutional economics explains the design of markets, the appropriate organization of its players (i.e. enterprises) and how they act in situations of asymmetric information. It adds aspects of institutional economics to the lecture on competition policy. Moreover it is a valuable input for elective courses on business co-operation. Theory of the firm: Ronald Coase asked the stunning question, why there are enterprises at all, if the market is assumed to produce efficient and superior results. He introduced transaction costs and could explain when transactions are to be carried out on markets and when they should be executed within the firm. This established new perspectives for economics. The size of the firm was now subject of economic reasoning with implications to economics. The course will introduce to theories of the firm and will present their application to business decisions and decisions in competition policy. Students will learn how to analyze the organization of the firm with fundamental economic tools. This course draws on the contents of the lecture Institutional Economics. It is a valuable input to courses on organization and on strategy. It is complementary to other lectures on microeconomics. It is an input to elective courses on business co-operation.</p> <p>Main topics and learning objectives: Lecture and exercises aim to explain how institutions affect economic actions. They drop the assumptions of neoclassical economics and introduces imperfections especially to the distribution of information, which has significant effects on how economic actions are carried out. Students will learn how institutions help to solve these problems and how institutions work i.e. how they manage to influence our behaviour. The lecture and its including exercises will introduce to fundamental insights on how enterprises should be organized and how enterprises should organize transactions.</p>					
	Themes	Learning objectives				

	New Institutional Economics:	
	Introduction to examples of institutions	To become familiar to some empirics of institutions and their economic impacts.
	Institutional economics	To understand the assumptions and shortcomings of the homo economicus approach. To learn some definitions and taxonomies of institutions. To understand how institutions affect economic growth.
	New institutional economics	To comprehend how economic actions can be mapped into contractual relations and how to classify these contracts. To understand how information asymmetry impact on economic actions, how to categorize them and how to deal with them.
	Transaction cost economics	To understand how the division of labour and asymmetric information lead to principle-agent problems and how to solve these problems. To learn to distinguish different forms of asymmetric information and how to cope with them. To apply the solution methods to real world problems.
	Principal-agent theory	To learn how to identify and assess transaction costs and to understand the determinants of transactions. To comprehend how specificity and other determinants of transactions lead to different governance structures for carrying out transactions. To realize the relevance for organizational decision making and for competition policy
	Theory of property rights	To identify different forms of property rights. To understand how the distribution of property rights affects economic transactions.
	Applications and perspectives	To apply the methods of institutional economics to real world problems. To understand how to assess competition policy problems in the light of institutional economics.
	Theory of the firm:	
	What is a firm?	To learn about the basic determinants of the firm and how to treat them economically.
	Traditional theories of the firm	To understand the limitations of traditional neo-classical theories of the firm and of the theories of industrial economics.
	Modern theories of the firm	To understand the role of transaction costs in determining the size of the firm and to assess when market, hybrid or hierarchical origination is appropriate. To learn to identify the crucial resources according to the resource-based approach.
	Boundaries of the firm	To learn that the boundaries of the firm become increasingly blurred. To understand that there is a multitude of organizational forms of co-operation to carry out transactions whose relevance is increasing.
	Governance structures	To learn how to implement the theoretical results into useful governance structures of firms.
	Perspectives	To identify shortcomings of the theories and to discover unexplored applications to economic problems.
5	Learning outcomes: Academic: New Institutional Economics:	

	<p>In the examination the student should demonstrate the knowledge of</p> <ul style="list-style-type: none"> • basic assumptions of institutional economics and how they affect economic actions, • different forms of information asymmetry, • different forms of property rights <p>and should demonstrate the ability</p> <ul style="list-style-type: none"> • to apply this knowledge to real-world example, • to assess economic problems from a institutional perspective and, • to identify how institutional peculiarities might affect the economic outcome. <p>Theory of the firm: In the examination the student should demonstrate the knowledge of</p> <ul style="list-style-type: none"> - basic assumptions of theories of the firm, - of new theorie of the firm, - determinants of the structure of the firm <p>and should demonstrate the ability</p> <ul style="list-style-type: none"> - to apply this knowledge to real-world example and - to assess the structure of firms with the instruments provided in the lecture. <p>Soft skills: In this module, students learn particularly the analysis of complex economic circumstances with multiple influencing factors, abstract and lateral thinking.</p>								
6	Description of possible electives within the modules: none								
7	Examination: Final Module Exam								
8	<p>Relevant Work:</p> <table border="1"> <thead> <tr> <th>Number and Type; Connection to Course</th> <th>Duration</th> <th>Part of final mark in %</th> </tr> </thead> <tbody> <tr> <td>Final written exam</td> <td>120 min.</td> <td>100 %</td> </tr> </tbody> </table>			Number and Type; Connection to Course	Duration	Part of final mark in %	Final written exam	120 min.	100 %
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none									
10	Prerequisites for Credit Points: The credit points will be granted after all relevant work and study work have been successfully completed.								
11	Weight of the module grade for the overall grade: 5% (9 of 180 CP)								
12	Module Prerequisites: none								
13	Presence: Strongly recommended								
14	Use of the module for other course programs: Bachelor Economics, Bachelor Politics and Economics, Bachelor Economics and Law								
15	Responsible Lecturer: Prof. Dr. Theresia Theurl	Department: School of Business and Economics							

16	Misc.:
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Energy Economics I

Module Title english:		Energy Economics I				
Course Program:		Bachelor Economics PO 2010				
1	Module No: VWL 9	State: Elective	Language of Instruction: German			
2	Turn: each term	Duration: 2 terms	Semester: 5, 6	CP: 6	Workload (h): 180	
3	Module Structure:					
	No	Type	Course	CP	Presence (h + CH)	Self-Study (h)
	1	Course	Energy Economics I	2	30 h (2 CH)	30
	2	Exercise	Tutorial Energy Economics	1	15 h (1 CH)	15
	3	Course	Energy Economics II	3	30 h (2 CH)	60
4	Module Contents:					
	Background and relations to other courses:					
	Energy as an essential factor of production Major markets for energy carriers (lignite, hard coal, crude oil, etc) Basics of the electricity sector Market design under a grid infrastructure for electricity and natural gas Foundations of energy policy, issues in climate policy and modeling in Energy Economics Current issues in Energy Economics					
	Main topics and learning objectives:					
	Themes	Learning objectives				
	Energy and society	Learn to understand why energy is vital for modern economies and gain insights into basic energy economics.				
	Economics of exhaustible resources	Understand the economics of exhaustible resources. Additionally, environmental impacts of energy use e.g. due to emission of carbon dioxide are introduced.				
Energy markets	Gain insights into the major energy markets such as the markets for hard coal, lignite, crude oil, natural gas, nuclear energy and renewable energy.					
Basics of electricity economics	Get to know central characteristics of electricity as a commodity and its value chain.					
Basics of regulation theory	Understand the basics of regulation of grid infrastructures.					
Energy and climate policy	Get to know and learn to evaluate energy policy (subsidy schemes for renewable energies, etc.) and climate policy (Kyoto protocol, EU-ETS).					
5	Learning outcomes:					
	Academic: Students gain an overview of particular relevant economic problems of Energy Economics. They will learn to assess and weight these problems independently. As a branch of Applied Economics including an essential basis of theory and economic policy, Energy Economics can be of use for scientific professions (research, consulting, ...) as well as a foundation for activities in the energy sector like					

	energy-intensive industries. Soft skills: General analytical skills, analysis of contrary interests (political trade-offs)		
6	Description of possible electives within the modules: none		
7	Examination: Examinations for every part of the module		
8	Relevant Work:		
	Number and Type; Connection to Course	Duration	Part of final mark in %
	Written exam Energy Economics I	60 min.	50 %
	Written exam Energy Economics II	60 min.	50 %
9	Study Work:		
	Number and Type; Connection to Course	Duration	
	none		
10	Prerequisites for Credit Points: The credit points will be granted after all relevant work and study work have been successfully completed.		
11	Weight of the module grade for the overall grade: 3.33% (6 of 180 CP)		
12	Module Prerequisites: None		
13	Presence: Presence is recommended		
14	Use of the module for other course programs: Bachelor Business Administration, Bachelor Economics, Bachelor Mathematics, Bachelor Geography		
15	Responsible Lecturer: Professor Dr. Andreas Löschel		Department: School of Business and Economics
16	Misc.:		

Energy Economics II

Module Title english:		Energy Economics II				
Course Program:		Bachelor Economics PO 2010				
1	Module No: VWL 10	State: Elective	Language of Instruction: English			
2	Turn: each summer term	Duration: 1 term	Semester: 5, 6	CP: 6	Workload (h): 180	
3	Module Structure:					
	No	Type	Course	CP	Presence (h + CH)	Self-Study (h)
	1	Seminar	Seminar Energy Economics	6	30 h (2 CH)	150
4	Module Contents:					
	Main topics and learning objectives:					
	The proseminar deals with the main topics of Energy Economics I. These topics are combined with current developments in the energy sector and energy policy and form the basis of essays (7 pages) written by the attending students. The essays will be presented in the seminar by the participants and discussed afterwards.					
	Themes	Learning objectives				
Primary energy markets	Gain insights into the major primary energy markets.					
Selected markets	Some of the above mentioned markets are selected and dealt with in more detail.					
Special topics	Deepen knowledge in actual questions of energy economics.					
5	Learning outcomes:					
	Academic: Students deepen and extend their knowledge about the main topics of module Energy Economics I.					
	Soft skills: Students gain experience in academic writing. In this respect the course prepares for writing the bachelor thesis. Additionally, students practice in intensive discussions, taking different points of view and reacting to critical questions.					
6	Description of possible electives within the modules: none					
7	Examination: Examinations for every part of the module					
8	Relevant Work:					
	Number and Type; Connection to Course	Duration	Part of final mark in %			
	Writing an essay	15 pages	70 %			
	presentation and disputation	45 min.	30 %			
9	Study Work:					

	Number and Type; Connection to Course	Duration
	none	
10	Prerequisites for Credit Points: The credit points will be granted after all relevant work and study work have been successfully completed.	
11	Weight of the module grade for the overall grade: 3.33% (6 of 180 CP)	
12	Module Prerequisites: Previous knowledge about the topics of module Energy Economics I is highly recommended. All modules of the first and second semester must be passed.	
13	Presence: Presence is mandatory. An attendance of 90% is required to pass the course.	
14	Use of the module for other course programs: Bachelor Business Administration, Bachelor Economics, Bachelor Mathematics, Bachelor Geography	
15	Responsible Lecturer: Professor Dr. Andreas Löschel	Department: School of Business and Economics
16	Misc.:	

Trade Theory and Policy

Module Title english:		Trade Theory and Policy				
Course Program:		Bachelor Economics PO 2010				
1	Module No: VWL 11	State: Elective	Language of Instruction: English			
2	Turn: each winter term	Duration: 1 term	Semester: 5, 6	CP: 6	Workload (h): 180	
3	Module Structure:					
	No	Type	Course	CP	Presence (h + CH)	Self-Study (h)
	1	Course	Trade Theory and Policy	4	30 h (2 CH)	60
	2	Exercise	Tutorial on Trade Theory and Policy	2	30 h (2 CH)	60
4	Module Contents:					
	Background and relations to other courses:					
	Over the last 60 years, most countries around the world have pursued a policy of incrementally removing barriers to international trade, reflecting the view that free trade is a force for prosperity. At the same time, worries about the effects of free trade on the international competitiveness of domestic industries have led many countries to engage in protectionist policies which limit or distort the free flow of goods and factors. Studying the causes and consequences of international trade integration therefore becomes an indispensable tool of assessing and evaluating the relative pros and cons of globalization.					
	Main topics and learning objectives:					
	This course provides an overview of the economics of international trade. The first part introduces the student to the subject of trade theory, which deals with questions of whether or not trade is better than autarky. To this end, the major models of international trade are developed and used to explain the structure of international trade as well as its consequences for factor markets and economic welfare. The second part of the lecture deals with trade policy issues which asks the question of whether restricted trade is better than free trade. To this end, the functioning of various trade policy instruments is analyzed and their impact on trade, factor allocation and welfare are evaluated.					
	Themes		Learning objectives			
	The Ricardo model		To learn about the concept of comparative advantage and its implications for trade patterns and welfare.			
The Heckscher-Ohlin model		To investigate the effects of international trade on factor markets, factor prices and the distribution of income.				
The new trade theory		To assess the trade and welfare effects of intra-industry trade.				
Instruments of trade policy		To study the effects of trade barriers such as tariffs, quotas or subsidies on trade patterns, trade volumes, and economic welfare.				
Strategic trade policy		To analyze the strategic interaction of firms and the role of rent-seeking trade policy.				

	International factor mobility	To contemplate the incentives and consequences for the international movement of capital and labor.										
5	<p>Learning outcomes: Academic: The module provides basic knowledge and skills in international economics and enables the students to conduct independent economic policy argument based on theoretical, model-based foundations and empirical research results. This knowledge can be incorporated in numerous economic and business fields of economic activity, particularly in international organizations, foreign trade policy departments of ministries, research institutes and internationally operating company. Soft skills: Analysis of interdependent causal relationships provides the ability to solve problems individually and in a team. Presentation of the essay trains the ability to communicate</p>											
6	Description of possible electives within the modules: none											
7	Examination: Examinations for every part of the module											
8	<p>Relevant Work:</p> <table border="1"> <thead> <tr> <th>Number and Type; Connection to Course</th> <th>Duration</th> <th>Part of final mark in %</th> </tr> </thead> <tbody> <tr> <td>Essay and presentation (approx.. 36 h work)</td> <td></td> <td>30 %</td> </tr> <tr> <td>Written exam</td> <td>90 min.</td> <td>70 %</td> </tr> </tbody> </table>			Number and Type; Connection to Course	Duration	Part of final mark in %	Essay and presentation (approx.. 36 h work)		30 %	Written exam	90 min.	70 %
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10	Prerequisites for Credit Points: The credit points will be granted after all relevant work and study work have been successfully completed.											
11	Weight of the module grade for the overall grade: 3.33% (6 of 180 CP)											
12	Module Prerequisites: none											
13	Presence: Strongly recommended											
14	Use of the module for other course programs: Bachelor Business Administration, Bachelor Economics, Bachelor Mathematics, Bachelor Geography											
15	Responsible Lecturer: Professor Dr. Bernd Kempa	Department: School of Business and Economics										
16	Misc.:											

Monetary Economics I

Module Title english:		Monetary Economics I				
Course Program:		Bachelor Economics PO 2010				
1	Module No: VWL 12	State: Elective	Language of Instruction: German			
2	Turn: each winter term	Duration: 1 term	Semester: 5, 6	CP: 6	Workload (h): 180	
3	Module Structure:					
	No	Type	Course	CP	Presence (h + CH)	Self-Study (h)
	1	Course	Monetary Policy	6	30 h (2 CH)	150
4	Module Contents: Main topics and learning objectives: The module includes the lecture Monetary Policy. The lecture deals comprehensively with the practical and to a lesser extent with the theoretical aspects of monetary policy of central banks. In particular, the (i) institutional aspects of the European Monetary Union, (ii) monetary policy strategies and their implementation, (iii) monetary policy instruments and money market and (iv) monetary transmission channels of monetary policy are considered. The corresponding concepts are mainly used due to the practical monetary policy of the European Central Bank (ECB). The lecture will be complemented by case studies, prepared by students and then be presented and discussed in the lecture.					
5	Learning outcomes: Academic: The participants should be familiarize with the theoretical and practical dimensions of modern monetary policy. This will enable them to identify current problems and to discuss monetary policy. Due to the importance of monetary policy in the international economic policies and their impact on financial markets and the real economy, these issues are important for economic qualification. Soft skills: Through the presentation of case studies within the circle of course participants, presentation techniques will be practiced. In the ensuing question- answer session participants learn to debate on a scientific level with each other. The same applies to embedded regular discussions about current monetary policy developments.					
6	Description of possible electives within the modules: none					
7	Examination: Final Module Exam					
8	Relevant Work:					
	Number and Type; Connection to Course	Duration	Part of final mark in %			
	Final written exam	60 min.	100 %			
9	Study Work:					
	Number and Type; Connection to Course	Duration				
	none					

10	Prerequisites for Credit Points: The credit points will be granted after all relevant work and study work have been successfully completed.	
11	Weight of the module grade for the overall grade: 3.33% (6 of 180 CP)	
12	Module Prerequisites: For understanding the events of this module, the control of the substance of the modules Micro- and Macroeconomics I is needed. All modules of the first and second semester must be passed.	
13	Presence: recommended	
14	Use of the module for other course programs: Bachelor Business Administration, Bachelor Economics, Bachelor Mathematics, Bachelor Geography	
15	Responsible Lecturer: Professor Dr. Martin Bohl	Department: School of Business and Economics
16	Misc.:	

Monetary Economics II

Module Title english:		Monetary Economics II				
Course Program:		Bachelor Economics PO 2010				
1	Module No: VWL 13	State: Elective	Language of Instruction: German			
2	Turn: each winter term	Duration: 1 term	Semester: 5, 6	CP: 6	Workload (h): 180	
3	Module Structure:					
	No	Type	Course	CP	Presence (h + CH)	Self-Study (h)
	1	Seminar	Monetary Economics	6	30 h (2 CH)	150
4	Module Contents: Main topics and learning objectives: The seminar focuses on current monetary economics and central questions and problems of monetary theory and monetary policy by central banks. The participants illuminate current research fields in the context of an autonomous term paper on the basis of recent scientific journal articles.					
5	Learning outcomes: Academic: The seminar Monetary Economics imparts the skills to create a term paper based on recent journal articles and is therefore a useful step towards an independent research of the participants. Soft skills: Through the presentation and defense of the term paper in the circle of participants, presentation techniques will be practiced. In the ensuing question-answer session participants learn to debate on a scientific level with each other.					
6	Description of possible electives within the modules: none					
7	Examination: Final Module Exam					
8	Relevant Work:					
	Number and Type; Connection to Course		Duration	Part of final mark in %		
	Paper on seminar monetary economics		10 pages	60 %		
Presentation on seminar monetary economics		20 min.	40 %			
9	Study Work:					
	Number and Type; Connection to Course			Duration		
none						
10	Prerequisites for Credit Points: The credit points will be granted after all relevant work and study work have been successfully completed.					

11	Weight of the module grade for the overall grade: 3.33% (6 of 180 CP)	
12	Module Prerequisites: For understanding the events of this module, the control of the substance of the modules Micro- and Macroeconomics I is needed. All modules of the first and second semester must be passed.	
13	Presence: Recommended	
14	Use of the module for other course programs: Bachelor Business Administration, Bachelor Economics, Bachelor Mathematics, Bachelor Geography	
15	Responsible Lecturer: Professor Dr. Martin Bohl	Department: School of Business and Economics
16	Misc.:	

Regional Economics: Fundamentals

Module Title english:		Regional Economics: Fundamentals				
Course Program:		Bachelor Economics PO 2010				
1	Module No: VWL 14	State: Elective	Language of Instruction: German			
2	Turn: each winter term	Duration: 1 term	Semester: 5, 6	CP: 6	Workload (h): 180	
3	Module Structure:					
	No	Type	Course	CP	Presence (h + CH)	Self-Study (h)
	1	Course	Lecture: Regional Economics	6	30 h (2 CH)	150
4	Module Contents:					
	<p>Background and relations to other courses: This course is built on two foundations namely Macroeconomics and Microeconomics. The topic of Regional Economics is also related to economic geography, environmental economics and transport economics. Foreign economic issues will be discussed on a regional level.</p> <p>Main topics and learning objectives: This course covers classical location theory, migration theory, federalist theory, convergence theory and regional growth theory as well as regional policy, location policy and empirical regional economic methods.</p>					
5	Learning outcomes:					
	<p>Academic: After having completed this module, students will be able to work theoretically on the topic of Regional Economics (e.g. new economic geography) and also they will be able to make practical/empirical location analysis and regional evaluations.</p> <p>Soft skills: You will learn to analyze complex tasks independently and to solve problems.</p>					
6	Description of possible electives within the modules: none					
7	Examination: Final Module Exam					
8	Relevant Work:					
	Number and Type; Connection to Course		Duration	Part of final mark in %		
	Final written exam		60 min.	100 %		
9	Study Work:					
	Number and Type; Connection to Course			Duration		
	none					
10	<p>Prerequisites for Credit Points: The credit points will be granted after all relevant work and study work have been successfully completed.</p>					

11	Weight of the module grade for the overall grade: 3.33% (6 of 180 CP)	
12	Module Prerequisites: Basic knowledge in quantitative methods of economics (mathematics, statistics) is required. All modules of the first two semesters have to be completed successfully.	
13	Presence: The presence is recommended.	
14	Use of the module for other course programs: Bachelor Business Administration, Bachelor Economics, Bachelor Mathematics, Bachelor Geography	
15	Responsible Lecturer: Professor Dr. Ulrich Suntum	Department: School of Business and Economics
16	Misc.:	

Advanced Statistics

Module Title english:		Advanced Statistics						
Course Program:		Bachelor Economics PO 2010						
1	Module No: VWL 16	State: Elective	Language of Instruction: English					
2	Turn: each winter term	Duration: 1 term	Semester: 5, 6	CP: 6	Workload (h): 180			
3	Module Structure:							
	No	Type	Course	CP	Presence (h + CH)	Self-Study (h)		
	1	Course	Advanced Statistics	3	30 h (2 CH)	60		
	2	Exercise	Class Advanced Statistics	3	30 h (2 CH)	60		
4	Module Contents:							
	<p>Background and relations to other courses: This module deepens and enhances the material introduced in the module Statistics. It introduces the basic tools required for all more advanced modules in statistics and econometrics, in particular Econometrics 1 and Econometrics 2.</p> <p>Main topics and learning objectives:</p> <table border="1"> <thead> <tr> <th>Themes</th> <th>Learning objectives</th> </tr> </thead> <tbody> <tr> <td>Probability theory, probability spaces, multivariate random variables, estimation methods, hypothesis testing.</td> <td>To understand and be able to apply probability theory, estimation methods, and hypothesis testing.</td> </tr> </tbody> </table>					Themes	Learning objectives	Probability theory, probability spaces, multivariate random variables, estimation methods, hypothesis testing.
Themes	Learning objectives							
Probability theory, probability spaces, multivariate random variables, estimation methods, hypothesis testing.	To understand and be able to apply probability theory, estimation methods, and hypothesis testing.							
5	Learning outcomes:							
	<p>Academic: This module provides a deeper knowledge of probability theory and the statistical foundation of econometrics. Students are being prepared for empirical economic research. They learn to assess the suitability of empirical methods.</p> <p>Soft skills: Clear Thinking</p>							
6	Description of possible electives within the modules: none							
7	Examination: Final Module Exam							
8	Relevant Work:							
	Number and Type; Connection to Course	Duration	Part of final mark in %					
	Final written exam	90 min.	100 %					
9	Study Work:							
	Number and Type; Connection to Course	Duration						

	none	
10	Prerequisites for Credit Points: The credit points will be granted after all relevant work and study work have been successfully completed.	
11	Weight of the module grade for the overall grade: 3.33% (6 of 180 CP)	
12	Module Prerequisites: Recommended: Module Statistics	
13	Presence: none	
14	Use of the module for other course programs: Bachelor Business Administration, Bachelor Economics, Bachelor Politics and Economics, Bachelor Economics and Law, Dual Bachelor Economics, Bachelor Mathematics, Bachelor Geography	
15	Responsible Lecturer: Professor Dr. Bernd Wilfling	Department: School of Business and Economics
16	Misc.:	

Econometrics I

Module Title english:		Econometrics I						
Course Program:		Bachelor Economics PO 2010						
1	Module No: VWL 17	State: Elective	Language of Instruction: English					
2	Turn: each winter term	Duration: 1 term	Semester: 5, 6	CP: 6	Workload (h): 180			
3	Module Structure:							
	No	Type	Course	CP	Presence (h + CH)	Self-Study (h)		
	1	Course	Econometrics I	3	30 h (2 CH)	60		
	2	Exercise	Class Econometrics I	3	30 h (2 CH)	60		
4	Module Contents:							
	<p>Background and relations to other courses: This module deepens and enhances the material introduced in the module Empirical Economics.</p> <p>Main topics and learning objectives:</p> <table border="1"> <thead> <tr> <th>Themes</th> <th>Learning objectives</th> </tr> </thead> <tbody> <tr> <td>Simple linear regression; multiple linear regression; t-test; F-test; omitted variable bias; nonlinearities</td> <td>To understand and be able to apply the econometric methods.</td> </tr> </tbody> </table>					Themes	Learning objectives	Simple linear regression; multiple linear regression; t-test; F-test; omitted variable bias; nonlinearities
Themes	Learning objectives							
Simple linear regression; multiple linear regression; t-test; F-test; omitted variable bias; nonlinearities	To understand and be able to apply the econometric methods.							
5	Learning outcomes:							
	<p>Academic: This module provides the elementary econometrics methods required for empirical economics. The linear regression model under standard assumptions is dealt with in a rigorous way. In addition, some violations of the standard assumptions are considered.</p> <p>Soft skills: Clear thinking.</p>							
6	Description of possible electives within the modules: none							
7	Examination: Final Module Exam							
8	Relevant Work:							
	Number and Type; Connection to Course	Duration	Part of final mark in %					
	Final written exam	90 min.	100 %					
9	Study Work:							
	Number and Type; Connection to Course	Duration						
	none							

10	Prerequisites for Credit Points: The credit points will be granted after all relevant work and study work have been successfully completed.	
11	Weight of the module grade for the overall grade: 3.33% (6 of 180 CP)	
12	Module Prerequisites: Recommended: Modules Statistics, Advanced Statistics.	
13	Presence: recommended	
14	Use of the module for other course programs: Bachelor Business Administration, Bachelor Economics, Bachelor Politics and Economics, Bachelor Economics and Law, Dual Bachelor Economics, Bachelor Mathematics, Bachelor Geography	
15	Responsible Lecturer: Professor Dr. Bernd Wilfling	Department: School of Business and Economics
16	Misc.: This module is taught in the second half of the winter term. It is advisable to attend the module Advanced Statistics in the first half of the term. In addition, it is advisable to attend the module Econometrics 2 in the following summer term.	

Econometrics II

Module Title english:		Econometrics II						
Course Program:		Bachelor Economics PO 2010						
1	Module No: VWL 18	State: Elective	Language of Instruction: English					
2	Turn: each summer term	Duration: 1 term	Semester: 5, 6	CP: 6	Workload (h): 180			
3	Module Structure:							
	No	Type	Course	CP	Presence (h + CH)	Self-Study (h)		
	1	Course	Econometrics II	3	30 h (2 CH)	60		
	2	Exercise	Class Econometrics II	3	30 h (2 CH)	60		
4	Module Contents:							
	<p>Background and relations to other courses: This module deepens and enhances the material introduced in the modules Empirical Economics and Econometrics I.</p> <p>Main topics and learning objectives:</p> <table border="1"> <thead> <tr> <th>Themes</th> <th>Learning objectives</th> </tr> </thead> <tbody> <tr> <td>Dummy variables and interactions; heteroskedasticity; generalized least squares; autocorrelation; stochastic convergence and limit theorems; stochastic exogenous variables; IV estimation; dynamic models; interdependent equations systems</td> <td>To understand and be able to apply the econometric methods.</td> </tr> </tbody> </table>					Themes	Learning objectives	Dummy variables and interactions; heteroskedasticity; generalized least squares; autocorrelation; stochastic convergence and limit theorems; stochastic exogenous variables; IV estimation; dynamic models; interdependent equations systems
Themes	Learning objectives							
Dummy variables and interactions; heteroskedasticity; generalized least squares; autocorrelation; stochastic convergence and limit theorems; stochastic exogenous variables; IV estimation; dynamic models; interdependent equations systems	To understand and be able to apply the econometric methods.							
5	Learning outcomes:							
	<p>Academic: This module provides the elementary econometrics methods required for empirical economics. The most important violations of the standard assumptions of the linear regression model are considered.</p> <p>Soft skills: Clear Thinking</p>							
6	Description of possible electives within the modules: none							
7	Examination: Final Module Exam							
8	Relevant Work:							
	Number and Type; Connection to Course	Duration	Part of final mark in %					
	Final written exam	90 min.	100 %					
9	Study Work:							
	Number and Type; Connection to Course	Duration						
	none							

10	Prerequisites for Credit Points: The credit points will be granted after all relevant work and study work have been successfully completed.	
11	Weight of the module grade for the overall grade: 3.33% (6 of 180 CP)	
12	Module Prerequisites: Recommended: Modules Statistics, Advanced Statistics, Econometrics 1.	
13	Presence: none	
14	Use of the module for other course programs: Bachelor Business Administration, Bachelor Economics, Bachelor Politics and Economics, Bachelor Economics and Law, Dual Bachelor Economics, Bachelor Mathematics, Bachelor Geography	
15	Responsible Lecturer: Professor Dr. Bernd Wilfling	Department: School of Business and Economics
16	Misc.:	

Business Cooperation: Governance

Module Title english:		Business Cooperation: Governance				
Course Program:		Bachelor Economics PO 2010				
1	Module No: VWL 21	State: Elective	Language of Instruction: German and English			
2	Turn: each winter term	Duration: 1 term	Semester: 5, 6	CP: 6	Workload (h): 180	
3	Module Structure:					
	No	Type	Course	CP	Presence (h + CH)	Self-Study (h)
	1	Course	Business Cooperation: Governance	4	45 h (3 CH)	75
	2	Exercise	Tutorial on Business Cooperation: Governance	2	15 h (1 CH)	45
	3	Course	Business Cooperation: Governance (english)	4	45 h (3 CH)	75
4	Exercise	Tutorial on Business Cooperation: Governance (english)	2	15 h (1 CH)	45	
4	Module Contents:					
	Background and relations to other courses:					
	<p>Modern information and communication technologies enable enterprises to create an increasing part of their output in co-operation with other enterprises. They are developing strategic alliances, joint ventures, long-term contractual arrangements, co-operatives or mutuals and a lot of other co-operative forms of business. Although business co-operation has a long tradition, it has not been in the focus of economics until recently. New economic insights from institutional economics, the theory of the firm, organization theory and strategic management allow a closer analysis of co-operative arrangements, the reasons for their emergence and how to manage them. The course pursues an integrative view on co-operation by covering rather loose co-operative arrangements like contractual relations as well as joint ventures or strategic alliances and also mergers & acquisitions. Students should comprehend, that managing the boundaries of the firm is an integrative process, which cannot be restrained to acquisition activities.</p>					
	Main topics and learning objectives:					
<p>The lecture and its including exercises aim to introduce students to the new world of business co-operation. They provide students with the unique opportunity to learn why co-operation gains relevance in business, which economic factors determine business co-operation and which types of co-operation can be distinguished. They will provide criteria, when and how to form an alliance and what peculiarities have to be taken into account. Students should comprehend the difference between usual market relations or internal management techniques and managing co-operation.</p>						
Themes		Learning objectives				
Empirics of co-operation		To learn the empirical findings on co-operation. To understand how current economic conditions promote and shape co-operative arrangements. To understand why enterprises co-operate and to assess success factors of co-operation.				
Analyzing co-operation		To identify and assess the characteristics of co-operative arrangements. To understand the combination of flexibility and stability that shape co-operation.				

	Types of co-operation	To learn about the different types of co-operation. To learn criteria for selecting a special type of co-operation. To assess the circumstances under which a special type of co-operation is advantageous.							
	Mergers & acquisitions	To learn the empirics of mergers and acquisitions. To understand under which circumstances mergers & acquisitions may be advantageous or detrimental compared to co-operative arrangements.							
	Theory of co-operation	To learn theoretical basics on co-operation. To understand how size and efficiency interact. To understand the role of transaction costs and information asymmetries for co-operation. To understand how the theoretical concepts result in decisions on co-operation.							
	International co-operation	To learn peculiarities of international co-operation. To evaluate how these peculiarities impact decisions on co-operation.							
	ICT and co-operation	To learn how new ICT promote co-operation and to assess how to use ICT for successfully managing co-operation.							
	Dynamics of co-operation	To understand the determinants of development of co-operation							
5	<p>Learning outcomes:</p> <p>Academic: Each student has to write the final examination. The examination covers the contents of the course, it is not possible to skip any part of the course, therefore students need to have a comprehensive understanding of treating problems of institutional economics. In the examination the student should demonstrate the knowledge of • of different types of co-operation and their advantages and disadvantages • of theoretical concepts for analyzing co-operative arrangements, • of factors that shape co-operation and should demonstrate the ability • to apply this knowledge to examples, • to give reasons for the selection of a special type of co-operation, • to assess an economic situation and recommend a type of co-operation.</p> <p>Soft skills: In this module, students learn particularly the analysis of complex economic circumstances with multiple factors, abstract and lateral thinking. In the exercises, the practical solution competence for applied problems is encouraged.</p>								
6	<p>Description of possible electives within the modules: Either the german course/exercise or the english course/exercise have to be absolved.</p>								
7	<p>Examination: Final Module Exam</p>								
8	<p>Relevant Work:</p> <table border="1"> <thead> <tr> <th>Number and Type; Connection to Course</th> <th>Duration</th> <th>Part of final mark in %</th> </tr> </thead> <tbody> <tr> <td>Final written exam</td> <td>120 min.</td> <td>100 %</td> </tr> </tbody> </table>			Number and Type; Connection to Course	Duration	Part of final mark in %	Final written exam	120 min.	100 %
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none									
10	<p>Prerequisites for Credit Points: The credit points will be granted after all relevant work and study work have been successfully completed.</p>								

11	Weight of the module grade for the overall grade: 3.33% (6 of 180 CP)	
12	Module Prerequisites: none	
13	Presence: none	
14	Use of the module for other course programs: Bachelor Business Administration, Bachelor Economics, Bachelor Politics and Economics, Bachelor Economics and Law, Dual Bachelor Economics, Bachelor Mathematics, Bachelor Geography	
15	Responsible Lecturer: Prof. Dr. Theresia Theurl	Department: School of Business and Economics
16	Misc.:	

Business Cooperation: Management

Module Title english:		Business Cooperation: Management				
Course Program:		Bachelor Economics PO 2010				
1	Module No: VWL 22	State: Elective	Language of Instruction: German and English			
2	Turn: each summer term	Duration: 1 term	Semester: 5, 6	CP: 6	Workload (h): 180	
3	Module Structure:					
	No	Type	Course	CP	Presence (h + CH)	Self-Study (h)
	1	Course	Business Cooperation: Management	4	45 h (3 CH)	75
	2	Exercise	Tutorial on Business Cooperation: Management	2	15 h (1 CH)	45
	3	Course	Business Cooperation: Management (english)	4	45 h (3 CH)	75
4	Exercise	Tutorial on Business Cooperation: Management (english)	2	15 h (1 CH)	45	
4	Module Contents:					
	<p>Background and relations to other courses: Modern information and communication technologies enable enterprises to create an increasing part of their output in co-operation with other enterprises. They are developing strategic alliances, joint ventures, long-term contractual arrangements, co-operatives or mutuals and a lot of other co-operative forms of business. Although business co-operation has a long tradition, it has not been in the focus of economics until recently. New economic insights from institutional economics, the theory of the firm, organization theory and strategic management allow a closer analysis of co-operative arrangements, the reasons for their emergence and how to manage them. Lecture and exercises pursue an integrative view on co-operation by covering rather loose co-operative arrangements like contractual relations as well as joint ventures or strategic alliances and also mergers & acquisitions. Students should comprehend, that managing the boundaries of the firm is an integrative process, which cannot be restrained to acquisition activities.</p> <p>Main topics and learning objectives: The lecture and exercises aim to introduce students to the new world of business co-operation. They introduce to the competition policy and management aspects of co-operation. Co-operative arrangements may be subject to competitive law scrutiny. The course will introduce to the economic analysis of competitive impacts of co-operation and how European and national law deal with co-operative arrangements. Moreover, the management of business co-operation is presented. A 6-step management approach towards managing co-operation is brought forward and the peculiarities of managing co-operation are presented.</p>					
Themes		Learning objectives				
Competition and co-operation - examples		To learn that co-operation is subject of legal constraints of competition law.				
The economic impact of co-operations and mergers		To understand the rationale for co-operation and identify possible interferences with competition law.				

	Regulation: Goals and implementation	To understand the economic purpose of governmental regulations and to assess their impacts.							
	Co-operation and competition law	To understand the still rather diffuse positioning of co-operation in competition law. To learn the different European and national provisions of competition law that may apply to co-operative arrangements. To enable to assess the legal relevance of given co-operation cases.							
	Introduction to managing co-operation	To learn the relevance of managing co-operation. To understand shortcomings of usual instruments. To comprehend frequently made mistakes in co-operating.							
	Co-operation Management - requirements, contents, implementation	To understand new requirements for managing co-operation. To understand the constraints of management due to limited leeway for intervening in partner enterprises. To derive the contents of co-operation management. To learn different option for implementing co-operation management in a company.							
	The 5 step management model	To understand the dynamic process of managing a co-operation. To learn the 5-step-management approach and to derive and understand the contents of each step.							
	Selected instruments of co-operation management	To understand some selected instruments in managing co-operation							
	Cases	To evaluate management requirements in selected cases and suggest suitable instruments for managing the co-operation.							
5	<p>Learning outcomes:</p> <p>Academic: Each student has to write the final examination. The examination covers the contents of the course, it is not possible to skip any part of the course, therefore students need to have a comprehensive understanding of treating problems of institutional economics. In the examination the student should demonstrate the knowledge of • legal provisions, that apply to co-operative arrangements, • management tools for managing co-operation. and should demonstrate the ability • to apply this knowledge to examples, • to assess an economic situation and suggest the legal treatment of co-operation, • to suggest managing tools for a given example.</p> <p>Soft skills: In this module, students learn particularly the analysis of complex economic circumstances with multiple factors, abstract and lateral thinking. In the exercises, the practical solution competence for applied problems is encouraged.</p>								
6	<p>Description of possible electives within the modules: Either the german course/exercises or the english course/exercises have to be absolved.</p>								
7	<p>Examination: Final Module Exam</p>								
8	<p>Relevant Work:</p> <table border="1"> <thead> <tr> <th>Number and Type; Connection to Course</th> <th>Duration</th> <th>Part of final mark in %</th> </tr> </thead> <tbody> <tr> <td>Final written exam</td> <td>120 min.</td> <td>100 %</td> </tr> </tbody> </table>			Number and Type; Connection to Course	Duration	Part of final mark in %	Final written exam	120 min.	100 %
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none									

10	Prerequisites for Credit Points: The credit points will be granted after all relevant work and study work have been successfully completed.	
11	Weight of the module grade for the overall grade: 3.33% (6 of 180 CP)	
12	Module Prerequisites: none	
13	Presence: none	
14	Use of the module for other course programs: Bachelor Business Administration, Bachelor Economics, Bachelor Politics and Economics, Bachelor Economics and Law, Dual Bachelor Economics, Bachelor Mathematics, Bachelor Geography	
15	Responsible Lecturer: Prof. Dr. Theresia Theurl	Department: School of Business and Economics
16	Misc.:	

Business Cooperation: Current Cases

Module Title english:		Business Cooperation: Current Cases				
Course Program:		Bachelor Economics PO 2010				
1	Module No: VWL 23	State: Elective	Language of Instruction: German			
2	Turn: each term	Duration: 1 term	Semester: 5, 6	CP: 6	Workload (h): 180	
3	Module Structure:					
	No	Type	Course	CP	Presence (h + CH)	Self-Study (h)
	1	Seminar	Business Cooperation Seminar	6	30 h (2 CH)	150
4	Module Contents:					
	<p>Background and relations to other courses: Students will learn to analyse actual business cases regarding cooperative activities or mergers and acquisitions with applied economic theories. The seminar draws on courses on business cooperations (Governance and Management), on institutional economics and on the theory of the firm as well as on courses on organization theory and strategic management.</p> <p>Main topics and learning objectives: The seminar trains students in applying their knowledge on business co-operation to cases. Each semester a special industry is selected from which the cases are chosen. Such industries are: Automotive industry, services industry, financial industry, or sports industry, to name a few. Students will learn how to analyze a co-operative arrangement. They will evaluate the co-operation by highlighting their success factors or criticizing wrong decisions, respectively as well as recommend improvements. Students have to write an individual essay on a case study assigned to them. They discuss their findings with their assigned research assistant. After writing their essay students have to prepare a 30-minutes presentation of their case study in a group of two or three students. Students also have to be well prepared for discussing the results of the case studies presented to them. The learning experience crucially depends on their motivation for a self-sustained analysis of the case given to them and their preparation of the meetings where the case studies will be presented. The instructor provides the framework for the case studies, some initial readings and facilitates the discussions during the seminar. Research assistants advise and discuss problems with the students during the period of preparing their essay.</p>					
	Themes	Learning objectives				
	Selected case studies	To analyze the selected case. To evaluate the co-operation and to identify success factors and shortcomings. To recommend improvements.				
5	Learning outcomes:					
	<p>Academic: Students have to write an individual essay on a case study assigned to them. After writing their essay students have to prepare a 30-minutes presentation of their case study in a group of two or three students. Students also have to be well prepared for discussing the results of the case studies presented to them. In writing the essay students should demonstrate their ability</p> <ul style="list-style-type: none"> • to apply this knowledge to case studies, • to analyze and evaluate the case study, • to give recommendations for improving the co-operation. 					

	<p>Soft skills: In addition to the requirements in writing their essay, in preparing their presentation students should demonstrate their ability</p> <ul style="list-style-type: none"> • to productively work in a small group and, • to coordinate their work, • to bring together the best parts of their essays, • to give a concise view of the case study, • to structure their arguments, • to transform their arguments to insightful slides. <p>This prepares especially for writing the Bachelor thesis.</p>											
6	<p>Description of possible electives within the modules: none</p>											
7	<p>Examination: Final Module Exam</p>											
8	<table border="1"> <thead> <tr> <th colspan="3">Relevant Work:</th> </tr> <tr> <th>Number and Type; Connection to Course</th> <th>Duration</th> <th>Part of final mark in %</th> </tr> </thead> <tbody> <tr> <td>Writing, presentation and defense of a seminar paper plus additional short presentation (2 each for 5 days at 7h small groups with a maximum of 10 participants, attendance time, about 90 minutes.'s Presentation, defense, and feedback)</td> <td>15 pages + 90 min.</td> <td>100 %</td> </tr> </tbody> </table>			Relevant Work:			Number and Type; Connection to Course	Duration	Part of final mark in %	Writing, presentation and defense of a seminar paper plus additional short presentation (2 each for 5 days at 7h small groups with a maximum of 10 participants, attendance time, about 90 minutes.'s Presentation, defense, and feedback)	15 pages + 90 min.	100 %
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none												
10	<p>Prerequisites for Credit Points: The credit points will be granted after all relevant work and study work have been successfully completed.</p>											
11	<p>Weight of the module grade for the overall grade: 3.33% (6 of 180 CP)</p>											
12	<p>Module Prerequisites: none</p>											
13	<p>Presence: Attendance is mandatory. An attendance of 90% is required.</p>											
14	<p>Use of the module for other course programs: Bachelor Business Administration, Bachelor Economics, Bachelor Politics and Economics, Bachelor Economics and Law, Dual Bachelor Economics, Bachelor Mathematics, Bachelor Geography</p>											
15	<p>Responsible Lecturer: Prof. Dr. Theresia Theurl</p>	<p>Department: School of Business and Economics</p>										
16	<p>Misc.:</p>											

Transport Economics and Logistics

Module Title english:		Transport Economics and Logistics				
Course Program:		Bachelor Economics PO 2010				
1	Module No: VWL 25	State: Elective	Language of Instruction: German			
2	Turn: each summer term	Duration: 1 term	Semester: 5, 6	CP: 6	Workload (h): 180	
3	Module Structure:					
	No	Type	Course	CP	Presence (h + CH)	Self-Study (h)
	1	Course	International Transport Markets	3	30 h (2 CH)	60
	2	Course	Logistics Management	3	30 h (2 CH)	60
4	Module Contents:					
	Background and relations to other courses:					
	International Transport Markets: The lecture “International Transport Markets” is part of the module “Transport Economics and Logistics” together with the lecture “Logistics Management”. The modules “Principles of Transport Economics” and “Transport Economics and Logistics” perfectly complement each other. “International Transport Markets” deals with theoretical questions and contemporary problems of worldwide transportation markets. Logistics Management: The lecture ”Logistics Management“ focuses on the basics of logistics, its strategies, technical logistic systems, concepts and methods for designing, planning and managing logistic systems, and employed information systems. The course is divided into nine main topics, including logistics strategy, logistics systems, inbound logistics, production logistics, outbound logistics, logistic-related IT-systems, and logistic controlling.					
	Main topics and learning objectives:					
International Transport Markets: In the lecture “International Transport Markets” an economic view on international transport problems is established. It examines the specific challenges of sea, road, rail and air transport along the entire value chain. Furthermore economic models and methods are being applied to analyse economic problems in the transport sector. Students should attain profound knowledge of economic theory and practise concerning international transport markets. Logistics Management: The students shall be able to apply the gained skills and expertise to problems related to the management of logistic systems or logistic networks in a business environment.						
	Themes	Learning objectives				
	International transport markets	To obtain an overview of international transport markets and to become acquainted with the different transport sectors. To understand why the demand for transportation products is derived.				
	Logistics management	To know and apply management models and analysis				
5	Learning outcomes:					
	Academic:					
	During the written examination students have to deal with different issues. Theory from the lectures is the thematic basis of the assessment. Typically, the written examination requires students to apply the theoretical concepts and methods following the methodology of worked on case studies. Working on					

	<p>class exercises will lead to an understanding of economic concepts and will promote the application to problems of everyday life. Recognising and solving economic problems is the ultimate aim of the exercises and of the course. The same structure of questions and problems is used in the written examination.</p> <p>Soft skills: After completing the module, students can assess the systems presented and used in the context of the specific market characteristics and thus overlook the entire logistics value chain, in order to solve logistical tasks in their future career.</p>								
6	Description of possible electives within the modules: none								
7	Examination: Final Module Exam								
8	<p>Relevant Work:</p> <table border="1"> <thead> <tr> <th>Number and Type; Connection to Course</th> <th>Duration</th> <th>Part of final mark in %</th> </tr> </thead> <tbody> <tr> <td>Final written exam</td> <td>120 min.</td> <td>100 %</td> </tr> </tbody> </table>			Number and Type; Connection to Course	Duration	Part of final mark in %	Final written exam	120 min.	100 %
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10	Prerequisites for Credit Points: The credit points will be granted after all relevant work and study work have been successfully completed.								
11	Weight of the module grade for the overall grade: 3.33% (6 of 180 CP)								
12	Module Prerequisites: Basic knowledge of operations management and micro- and macroeconomics. This module cannot be taken together with the module "Logistics Management". The module "Transport Economics" is not excluded.								
13	Presence: none								
14	Use of the module for other course programs: Bachelor Business Administration, Bachelor Economics, Bachelor Politics and Economics, Bachelor Economics and Law, Dual Bachelor Economics, Bachelor Mathematics, Bachelor Geography								
15	Responsible Lecturer: Professor Dr. Gernot Sieg	Department: School of Business and Economics							
16	Misc.:								

Quantitative Economic History

Module Title english:		Quantitative Economic History				
Course Program:		Bachelor Economics PO 2010				
1	Module No: VWL 26	State: Elective	Language of Instruction: German			
2	Turn: each term	Duration: 1 term	Semester: 5, 6	CP: 6	Workload (h): 180	
3	Module Structure:					
	No	Type	Course	CP	Presence (h + CH)	Self-Study (h)
	1	Course	Lecture in Economic History	3	30 h (2 CH)	60
	2	Seminar	Seminar in Economic History	3	30 h (2 CH)	60
4	Module Contents:					
5	Learning outcomes:					
	<p>Academic: The module teaches broad knowledge in economic history. It helps students to develop a long-run view on economic outcomes. Furthermore, the relevance of economic institutions is emphasized and explained as well as the ability to bring theory and data together.</p> <p>Soft skills: Students learn to use model-oriented thinking in real world problems. They also practice to work together in interdisciplinary teams, to communicate effectively, and to make convincing presentations. Working with historical data, they develop their computer skills using MS Excel, MS Powerpoint, and statistical software.</p>					
6	Description of possible electives within the modules: none					
7	Examination: Examinations for every part of the module					
8	Relevant Work:					
	Number and Type; Connection to Course		Duration	Part of final mark in %		
	Exam		90 min.	50 %		
	Written project description		6 pages	50 %		
9	Study Work:					
	Number and Type; Connection to Course			Duration		
	none					
10	Prerequisites for Credit Points: The credit points will be granted after all relevant work and study work have been successfully completed.					
11	Weight of the module grade for the overall grade: 3.33% (6 of 180 CP)					

12	Module Prerequisites: none	
13	Presence: Regular attendance required.	
14	Use of the module for other course programs: Bachelor Business Administration, Bachelor Economics, Bachelor Mathematics, Bachelor Geography	
15	Responsible Lecturer: Professor Dr. Ulrich Pfister	Department: School of Business and Economics
16	Misc.:	

Information Systems

Module Title english:		Information Systems				
Course Program:		Bachelor Economics PO 2010				
1	Module No: VWL 27	State: Elective	Language of Instruction: German			
2	Turn: each winter term	Duration: 1 term	Semester: 5, 6	CP: 6	Workload (h): 180	
3	Module Structure:					
	No	Type	Course	CP	Presence (h + CH)	Self-Study (h)
	1	Course	Introduction to Information Systems	3	30 h (2 CH)	60
	2	Course	Specialization Information Systems	3	30 h (2 CH)	60
4	Module Contents:					
	Background and relations to other courses:					
	Based on Knowledge about principles of Business Administrations, the students will learn how Data and Processes can be integrated into Information Systems and Information Technology. From the Curriculum of the Bachelor in Information Systems the Lecture “Introduction to Information Systems” is integral part of the Module. Further information about this Lecture are integrated in the Module Compendium of the Bachelor in Information Systems. Special Aspects from this lecture will be discussed in more detail in the second lecture “Specialization: Information Systems”.					
	Main topics and learning objectives:					
	The Students will get an overview of the field of Information Systems. Single aspects will be discussed in more detail:					
	Themes	Learning objectives				
	Data modelling	The relation of Data in Businesses can be visualised via Entity-Relationship-Models. Furthermore the conceptional models can be translated into databases and simple queries on databases with SQL are possible.				
	Process modelling	Business Processes can be modelled with Event-driven Process Chains (EPC). Additionally, the difference between generic Process Modeling Languages such as EPC and semantic Process Modeling Languages such as PICTURE are known.				
	Application Systems	The fields of application for information technology in Businesses are understood.				
	Software Engineering	Methods and Phases of Software Engineering are known and understood.				
5	Learning outcomes:					
	Academic: The participants will get a comprehensive overview of the profile and methods of Information Systems. They are able to describe requirements for Application Systems and Information Technology in words and with conceptual models. They are able to support the design and sourcing of such technologies.					
	Soft skills:					

	The lecture is combined with practical studies, which are integrated into the lecture time and where students work in teams.													
6	Description of possible electives within the modules: none													
7	Examination: Final Module Exam													
8	<table border="1"> <thead> <tr> <th colspan="3">Relevant Work:</th> </tr> <tr> <th>Number and Type; Connection to Course</th> <th>Duration</th> <th>Part of final mark in %</th> </tr> </thead> <tbody> <tr> <td>Final written exam</td> <td>60 min.</td> <td>100 %</td> </tr> </tbody> </table>		Relevant Work:			Number and Type; Connection to Course	Duration	Part of final mark in %	Final written exam	60 min.	100 %			
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Study Work:														
Number and Type; Connection to Course	Duration													
Participation in excursion; For excused absence: Thesis	1 day / 5 pages													
Preparation of and participation in mid-presentation	10 min.													
Preparation of and participation in final presentation	10 min.													
Complete and punctual handing in of project documentation	approx. 25 pages													
10	Prerequisites for Credit Points: The credit points will be granted after all relevant work and study work have been successfully completed.													
11	Weight of the module grade for the overall grade: 3.33% (6 of 180 CP)													
12	Module Prerequisites: none													
13	Presence: Attendance is highly recommended. The attendance in the following parts of the Lecture "Introduction to Information Systems" is compulsory: - Excursion - Mid-presentation - Final presentation Absence during the excursion must be substituted by a separate thesis. Without a separate thesis, the MTP will not be passed. Absence during presentations has to be excused. The module only can be passed if at least only one presentation is missed due to a excused reason.													
14	Use of the module for other course programs: Bachelor Economics													
15	Responsible Lecturer: Prof. Dr. Dr. h.c. Jörg Becker	Department: School of Business and Economics												
16	Misc.:													

Principles of Transport Economics

Module Title english:		Principles of Transport Economics				
Course Program:		Bachelor Economics PO 2010				
1	Module No: VWL 28	State: Elective	Language of Instruction: German			
2	Turn: each winter term	Duration: 1 term	Semester: 5, 6	CP: 6	Workload (h): 180	
3	Module Structure:					
	No	Type	Course	CP	Presence (h + CH)	Self-Study (h)
	1	Course	Transport Economics	4	45 h (3 CH)	75
	2	Exercise	Tutorial Transport Economics	2	15 h (1 CH)	45
4	Module Contents:					
	<p>Background and relations to other courses: The module deals with transport markets and deepens the knowledge gained from the modules Microeconomics and Applied Research in Economics: Economic Policy and Regulation.</p> <p>Main topics and learning objectives: In this module, a basic understanding of transport economics is provided. Based on that, specific features of each transport carrier and the transport infrastructure are discussed. In the lecture, a theoretical and carrier-specific analysis of relevant problems is made. Here, an insight into current research projects of the Institute of Transport Economics will also be given.</p>					
5	Learning outcomes:					
	<p>Academic: In the module Principles of Transport Economics, the specific problems of road, rail, air and maritime transport and its infrastructure are examined by using the tools of the economic science.</p> <p>Soft skills: The obtained knowledge can be used both in other modules and for a career in the transport industry, in associations or in transport policy.</p>					
6	Description of possible electives within the modules: none					
7	Examination: Final Module Exam					
8	Relevant Work:					
	Number and Type; Connection to Course	Duration	Part of final mark in %			
	Final written exam	120 min.	100 %			
9	Study Work:					
	Number and Type; Connection to Course	Duration				
	none					

10	<p>Prerequisites for Credit Points: The credit points will be granted after all relevant work and study work have been successfully completed.</p>	
11	<p>Weight of the module grade for the overall grade: 3.33% (6 of 180 CP)</p>	
12	<p>Module Prerequisites: The mastery of the content of the modules Microeconomics I, Macroeconomics I and Applied Research in Economics: Economic Policy and Regulation is required. The participation in this module does not rule out the participation in the module Transport Economics and Logistics.</p>	
13	<p>Presence: recommended</p>	
14	<p>Use of the module for other course programs: Bachelor Business Administration, Bachelor Economics, Bachelor Politics and Economics, Bachelor Economics and Law, Dual Bachelor Economics, Bachelor Mathematics, Bachelor Geography</p>	
15	<p>Responsible Lecturer: Professor Dr. Gernot Sieg</p>	<p>Department: School of Business and Economics</p>
16	<p>Misc.: The module Principles of Transport Economics serves as foundation for the master-module Advanced Transport Economics.</p>	

Sports Economics

Module Title english:		Sports Economics						
Course Program:		Bachelor Economics PO 2010						
1	Module No: VWL 29	State: Elective	Language of Instruction: German					
2	Turn: each summer term	Duration: 1 term	Semester: 5, 6	CP: 6	Workload (h): 180			
3	Module Structure:							
	No	Type	Course	CP	Presence (h + CH)	Self-Study (h)		
	1	Course	Sports Economics	6	30 h (2 CH)	60		
	2	Exercise	Tutorial Sports Economics	0	30 h (2 CH)	60		
4	Module Contents:							
	<p>Background and relations to other courses: Sport, especially in form of major events like the Olympic Games, the NFL Superbowl or the UEFA Champions League, gains more and more economic importance. Commercialized sports are a crucial part of the entertainment industry. Therefore, it is meaningful to study these industries and their ways of functioning.</p> <p>Main topics and learning objectives: Meanwhile, sports economics is an established academic subject in teaching and research at many universities, especially in the USA. In sports economics, sports leagues are analyzed regarding competition rules; moreover, the labor market for players, as well as public interventions like subsidies for sports facilities, are also studied thoroughly.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Themes</td> <td style="width: 50%;">Learning objectives</td> </tr> <tr> <td>Will be announced in the lectures</td> <td>Will be announced in the lectures</td> </tr> </table>					Themes	Learning objectives	Will be announced in the lectures
Themes	Learning objectives							
Will be announced in the lectures	Will be announced in the lectures							
5	<p>Learning outcomes:</p> <p>Academic: Learn to analyze sports markets and to understand their mechanisms.</p> <p>Soft skills: Active listening and taking notes in lectures. Answering of questions in front of other students. Preparing solutions of homework assignments. Presenting and discussing solutions of exercises.</p>							
6	Description of possible electives within the modules: none							
7	Examination: Final Module Exam							
8	Relevant Work:							
	Number and Type; Connection to Course	Duration	Part of final mark in %					
	Final written exam	90 min.	100 %					

9	Study Work: Number and Type; Connection to Course Duration <hr/> none	
10	Prerequisites for Credit Points: The credit points will be granted after all relevant work and study work have been successfully completed.	
11	Weight of the module grade for the overall grade: 3.33% (6 of 180 CP)	
12	Module Prerequisites: All modules of semesters 1 and 2 have to be passed.	
13	Presence: Regular attendance recommended.	
14	Use of the module for other course programs: Bachelor Economics	
15	Responsible Lecturer: Professor Dr. Aloys Prinz	Department: School of Business and Economics
16	Misc.:	

Regional Economics: Integrated Economic Areas I

Module Title english:		Regional Economics: Integrated Economic Areas I				
Course Program:		Bachelor Economics PO 2010				
1	Module No: VWL 30	State: Elective	Language of Instruction: German			
2	Turn: each winter term	Duration: 1 term	Semester: 5, 6	CP: 6	Workload (h): 180	
3	Module Structure:					
	No	Type	Course	CP	Presence (h + CH)	Self-Study (h)
	1	Course	Integrated Economic Areas	6	30 h (2 CH)	150
4	Module Contents:					
	<p>Background and relations to other courses: This course relates to all courses which cover aspects of regional economics and adds on to them.</p> <p>Main topics and learning objectives: Basics of spatial economic development, catching-up processes in threshold countries including regional convergence, distribution of income and reasons for growth especially considering China, adjustment processes caused by globalization, international factor flow, institutional framework conditions for growth (“Doing Business” of the world bank)</p>					
5	Learning outcomes:					
	<p>Academic: The goal is to become better acquainted with relevant questions concerning the development of the global economy, especially the driving forces and effects of globalization with consideration of economic aspects. Further, the ability of forming an economic judgment is enhanced by looking closely at subjects of economic importance. Students will learn how to analyze complex economic problems. In the seminar, such problems will be worked on independently; afterwards they will also be presented.</p> <p>Soft skills: Independent revision of macroeconomic tasks in small groups. You will learn how to analyze complex problems independently and in a team and present the results.</p>					
6	Description of possible electives within the modules: none					
7	Examination: Final Module Exam					
8	Relevant Work:					
	Number and Type; Connection to Course	Duration	Part of final mark in %			
	Final written exam	90 min.	100 %			
9	Study Work:					
	Number and Type; Connection to Course	Duration				
	Participation in the lecture and accompanying literature study					

10	Prerequisites for Credit Points: The credit points will be granted after all relevant work and study work have been successfully completed.	
11	Weight of the module grade for the overall grade: 3.33% (6 of 180 CP)	
12	Module Prerequisites: Basic knowledge in quantitative methods of economics (mathematics, statistics) is required. It is moreover recommended to complete the module “Regional Economics: Fundamentals” before signing up for this module. All modules of the first two semesters should be successfully completed.	
13	Presence: The presence is recommended.	
14	Use of the module for other course programs: Bachelor Business Administration, Bachelor Economics, Bachelor Mathematics, Bachelor Geography	
15	Responsible Lecturer: Professor Dr. Ulrich Suntum	Department: School of Business and Economics
16	Misc.:	

Topics in Economics

Module Title english:		Topics in Economics				
Course Program:		Bachelor Economics PO 2010				
1	Module No: VWL 31	State: Elective	Language of Instruction: German			
2	Turn: each summer term	Duration: 1 term	Semester: 5, 6	CP: 6	Workload (h): 180	
3	Module Structure:					
	No	Type	Course	CP	Presence (h + CH)	Self-Study (h)
	1	Seminar	Topics in Economics	6	30 h (2 CH)	150
4	Module Contents:					
	<p>Background and relations to other courses: Application of (mainly) basic Microeconomic Theory to different Economic Topics.</p> <p>Main topics and learning objectives: The Seminar “Topics in Economics” focusses every Semester on a “cross-sectional” Topic in Economics (such as Development Economics, Environmental Economics) where Students learn to apply their theoretical knowledge from their basic economics lectures in order to consistently think through a specific economic question. This will form the basis for their Bachelor thesis and in general to learn the value of a consistent argument, but also the limitations of economic theory.</p>					
5	Learning outcomes:					
	<p>Academic: Learn to understand state-of-the-art research literature and acquire the ability to use their tools to understand and analyse an economic question.</p> <p>Soft skills: Learn to present their research outcome and to discuss questions within a professional setting.</p>					
6	Description of possible electives within the modules: none					
7	Examination: Examinations for every part of the module					
8	Relevant Work:					
	Number and Type; Connection to Course		Duration	Part of final mark in %		
	Written term paper		10-20 pages	70 %		
Presentation and Discussion of the paper		45-60 min.	30 %			
9	Study Work:					
	Number and Type; Connection to Course			Duration		
none						

10	Prerequisites for Credit Points: The credit points will be granted after all relevant work and study work have been successfully completed.	
11	Weight of the module grade for the overall grade: 3.33% (6 of 180 CP)	
12	Module Prerequisites: Basic Economic knowledge (from the first 3 Semester, i.e. Econ 101, Micro, Macro Statistics)	
13	Presence: Compulsory attendance	
14	Use of the module for other course programs: Bachelor Business Administration, Bachelor Economics	
15	Responsible Lecturer: Dr. Jörg Peter Lingens	Department: School of Business and Economics
16	Misc.:	

Regional Economics: Integrated Economic Areas II

Module Title english:		Regional Economics: Integrated Economic Areas II				
Course Program:		Bachelor Economics PO 2010				
1	Module No: VWL 32	State: Elective	Language of Instruction: German			
2	Turn: each summer term	Duration: 1 term	Semester: 5, 6	CP: 6	Workload (h): 180	
3	Module Structure:					
	No	Type	Course	CP	Presence (h + CH)	Self-Study (h)
	1	Seminar	Seminar	6	30 h (2 CH)	150
4	<p>Module Contents:</p> <p>Background and relations to other courses: This course relates to all courses which cover aspects of regional economics and adds on to them.</p> <p>Main topics and learning objectives: Basics of spatial economic developments, catching-up processes in threshold countries including regional convergence, distribution of income and reasons for growth especially considering China, adjustment processes caused by globalization, international factor flow, institutional framework conditions for growth (“Doing Business” of the world bank)</p>					
5	<p>Learning outcomes:</p> <p>Academic: The goal is to become better acquainted with relevant questions concerning the development of the global economy, especially the driving forces and effects of globalization with consideration of economic aspects. Further, the ability of forming an economic judgment is enhanced by looking closely at subjects of economic importance. Students will learn how to analyze complex economic problems. In the seminar, such problems will be worked on independently; afterwards they will also be presented.</p> <p>Soft skills: Students will learn how to work self-organized and to work in a team under scientific conditions.</p>					
6	Description of possible electives within the modules: none					
7	Examination: Examinations for every part of the module					
8	Relevant Work:					
	Number and Type; Connection to Course		Duration	Part of final mark in %		
	Preparation of a seminar paper		15 pages	70 %		
	Presentation and Discussion of the contents of the seminar		30 min.	30 %		
9	Study Work:				Duration	
	Number and Type; Connection to Course					

	none		
10	Prerequisites for Credit Points: The credit points will be granted after all relevant work and study work have been successfully completed.		
11	Weight of the module grade for the overall grade: 3.33% (6 of 180 CP)		
12	Module Prerequisites: Basic knowledge in quantitative methods of economics (mathematics, statistics) is required. It is moreover recommended to complete the module “Regional Economics: Fundamentals” before signing up for this module. All modules of the first two semesters should be successfully completed.		
13	Presence: The Presence is required. The attendance rate must be at least 90 %.		
14	Use of the module for other course programs: Bachelor Business Administration, Bachelor Economics, Bachelor Mathematics, Bachelor Geography		
15	<table border="1"> <tr> <td>Responsible Lecturer: Professor Dr. Ulrich Suntum</td> <td>Department: School of Business and Economics</td> </tr> </table>	Responsible Lecturer: Professor Dr. Ulrich Suntum	Department: School of Business and Economics
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16	Misc.:		

Labour Market Economics

Module Title english:		Labour Market Economics				
Course Program:		Bachelor Economics PO 2010				
1	Module No: VWL 33	State: Elective	Language of Instruction: German			
2	Turn: each summer term	Duration: 1 term	Semester: 5, 6	CP: 6	Workload (h): 180	
3	Module Structure:					
	No	Type	Course	CP	Presence (h + CH)	Self-Study (h)
	1	Seminar	Seminar: Labour Market Economics	6	30 h (2 CH)	150
4	Module Contents:					
	<p>Background and relations to other courses: In the Seminar the students learn theoretic knowledge about labor market economics, what goes beyond the standard micro- and macroeconomics. Knowledge of the labor economic lectures are expanded. In the master courses this seminar can be continued in a similar module.</p> <p>Main topics and learning objectives: The Seminar gives insights into important facts of the labor market and a survey about theoretic models of this market. It is provided a special view on interlinkage between theoretic modules and empirical studies and out of this economic interpretation as much as policy implications.</p>					
	Themes	Learning objectives				
	Themes vary every semester	Students should think deeply about the themes and analyze them professionally. In the seminar the individual theme is integrated in the whole context				
5	Learning outcomes:					
	<p>Academic: In the seminar students learned the important context on the labor market and are skilled to make policy implications to reduce unemployment. Students learned the knowledge to answer systematically questions of the labor market economics</p> <p>Soft skills: Students will learn how to work self-organized and to work in a team under scientific conditions.</p>					
6	Description of possible electives within the modules: Student's preferences can be taken into account in respect to the focus of the seminar.					
7	Examination: Examinations for every part of the module					
8	Relevant Work:					
	Number and Type; Connection to Course		Duration	Part of final mark in %		
	Preparation of a seminar paper		10-15 pages	70 %		
Presentation and discussion of the contents of the seminar		30 min.	30 %			

9	Study Work:	
	Number and Type; Connection to Course	Duration
	none	
10	Prerequisites for Credit Points: The credit points will be granted after all relevant work and study work have been successfully completed.	
11	Weight of the module grade for the overall grade: 3.33% (6 of 180 CP)	
12	Module Prerequisites: Application at the Institut für Siedlungs- und Wohnungswesen is required. Further information will be given at the course announcement. Please note the rules for application at the examination office.	
13	Presence: The presence is recommended.	
14	Use of the module for other course programs: Bachelor Business Administration, Bachelor Economics, Bachelor Mathematics, Bachelor Geography	
15	Responsible Lecturer: Professor Dr. Ulrich Suntum	Department: School of Business and Economics
16	Misc.: Topics are announced in the winter-term and the topics are allocated to the students in the end of the winter-term. The seminar paper can be written during the holidays. A later begin is possible after consultation of the institute.	

Cases in Economic Policy

Module Title english:		Cases in Economic Policy				
Course Program:		Bachelor Economics PO 2010				
1	Module No: VWL 34	State: Elective	Language of Instruction: German			
2	Turn: each term	Duration: 1 term	Semester: 5, 6	CP: 6	Workload (h): 180	
3	Module Structure:					
	No	Type	Course	CP	Presence (h + CH)	Self-Study (h)
	1	Seminar	Cases in Economic Policy	6	30 h (2 CH)	150
4	Module Contents:					
	Background and relations to other courses:					
	In the seminar “Current Economic Developments” students can apply the knowledge they acquired in the lecture “Economic Policy and Regulation”. By analyzing e.g. the regulation of network sectors and financial markets there is a close relation to modules in energy economics, transport economics or from finance modules.					
	Main topics and learning objectives:					
In this module students apply their knowledge from the lectures to economic policy problems by preparing reports, working in projects, doing case studies and intensively discussing their results. The economic policy problems are chosen from the current economic development and vary each semester according to current economic policy developments. In addition students learn how to prepare a scientific report and present and discuss their ideas in a group. Research assistants support students in the preparation of their report.						
	Themes	Learning objectives				
	1. Preparing a report on an economic policy case study	To learn how to research and evaluate relevant bibliography. To development scientific hypotheses based on the researched bibliography. To reasonably suggest solutions for the economic policy problem of the case study at hand				
	2. Presenting a case study	To present and discuss the economic problem and the developed solutions				
	3. Discussion of the case study	To assess other reports and to identify remaining fields for research.				
5	Learning outcomes:					
	Academic:					
	Students acquire a solid knowledge of economic policy issues and are able to suggest solutions for these problems. They are able to apply their knowledge to national and international economic policy problems. They have learned how to prepare a report, derive research hypotheses and present their work and to discuss their ideas in class.					
	Soft skills:					
	Students learned soft skills in writing a research report, which prepares them for writing their bachelor thesis. Such soft skills are: targeted researching of literature, evaluating the existing literature, applying the literature to the case study, deriving hypotheses, consistently reasoning and verifying the own					

	reasoning. Moreover students learn how to concisely present their work and their ideas for solving the problem and they learn how to discuss and defend their ideas in class.		
6	Description of possible electives within the modules: none		
7	Examination: Final Module Exam		
8	Relevant Work:		
	Number and Type; Connection to Course	Duration	Part of final mark in %
	Academic paper and presentation of paper/results in class (4 days presence, 90 min. own presentation, defense, feed-back)	15 pages, 90 min.	100 %
9	Study Work:		
	Number and Type; Connection to Course	Duration	
	none		
10	Prerequisites for Credit Points: The credit points will be granted after all relevant work and study work have been successfully completed.		
11	Weight of the module grade for the overall grade: 3.33% (6 of 180 CP)		
12	Module Prerequisites: Knowledge of the contents of the module „Applied Research in Economics: Economic Policy and Regulation“ is a prerequisite, but the module has not to be passed..		
13	Presence: Presence is required (at least 90 % of the seminar).		
14	Use of the module for other course programs: Bachelor Business Administration, Bachelor Economics, Bachelor Politics and Economics, Bachelor Economics and Law, Dual Bachelor Economics, Bachelor Mathematics, Bachelor Geography		
15	Responsible Lecturer: Prof. Dr. Theresia Theurl		Department: School of Business and Economics
16	Misc.:		

Public Choice Theory

Module Title english:		Public Choice Theory				
Course Program:		Bachelor Economics PO 2010				
1	Module No: VWL 35	State: Elective	Language of Instruction: German			
2	Turn: each winter term	Duration: 1 term	Semester: 5, 6	CP: 6	Workload (h): 180	
3	Module Structure:					
	No	Type	Course	CP	Presence (h + CH)	Self-Study (h)
	1	Course	Lecture Public Choice Theory	3	30 h (2 CH)	60
	2	Exercise	Exercises	3	30 h (2 CH)	60
4	Module Contents:					
	<p>Background and relations to other courses: This module starts from the modules Microeconomics and Macroeconomics. By contrast to normative welfare economics, this module does not deal with deriving policy recommendations based on some defined values but rather with the question as to which political behavior is to be expected under alternative political and institutional restrictions.</p> <p>Main topics and learning objectives: The object of analysis in this module is governmental decision makers, bureaucrats, interest groups as well as actors and their respective decision-making behavior. Insights will be conveyed as to the restrictions under which collective decision-makers typically act and to what kind of collective action can be expected from them. Deriving insights will be based on the methodology of economics. More generally, the module also aims at systematically practicing the application of micro- and macroeconomic techniques.</p>					
5	Learning outcomes:					
	<p>Academic: The module conveys fundamental analytical skills on the positive analyses of political behavior. Moreover, the students will learn about instruments available for a professional evaluation of political processes.</p> <p>Soft skills: In this module, the students will be trained in the analysis of complex public-policy issues concerning multiple factors of influence. They are also trained in thinking in abstract and joined-up thinking. During the exercises, skills in the solution of policy issues will be practiced using cases.</p>					
6	Description of possible electives within the modules: none					
7	Examination: Final Module Exam					
8	Relevant Work:					
	Number and Type; Connection to Course	Duration	Part of final mark in %			
	Final written exam	90 min.	100 %			
9	Study Work:					

	Number and Type; Connection to Course	Duration
	none	
10	Prerequisites for Credit Points: The credit points will be granted after all relevant work and study work have been successfully completed.	
11	Weight of the module grade for the overall grade: 3.33% (6 of 180 CP)	
12	Module Prerequisites: recommended: mathematics, statistics, microeconomics I, macroeconomics I	
13	Presence: recommended	
14	Use of the module for other course programs: Bachelor Business Administration, Bachelor Economics	
15	Responsible Lecturer: Professor Dr. Thomas Apolte	Department: School of Business and Economics
16	Misc.:	

Business Ethics

Module Title english:		Business Ethics				
Course Program:		Bachelor Economics PO 2010				
1	Module No: VWL 36	State: Elective	Language of Instruction: German			
2	Turn: each summer term	Duration: 1 term	Semester: 5, 6	CP: 6	Workload (h): 180	
3	Module Structure:					
	No	Type	Course	CP	Presence (h + CH)	Self-Study (h)
	1	Course	Business ethics I	3	30 h (2 CH)	60
	2	Course	Business ethics II	3	30 h (2 CH)	60
4	Module Contents:					
	<p>Background and relations to other courses: The lecture on Business Ethics serves as an introduction into the most important parts of ethics being central to economic sciences. The module Business Ethics includes one lecture (4 h) which is given for the whole semester.</p> <p>Main topics and learning objectives: This course introduces students to basic ethical concepts (consequentialism, deontology and virtue ethics) and applies them to economically relevant issues. Criteria will be developed by which actions can be morally evaluated. The analysis of ethical conflict situations follows game-theoretic modeling and microeconomic concepts. There will be a systematical distinction between institutional-ethical issues of the framework, questions of business ethics and issues of individual ethics in business principal-agent relationships. In terms of corporate practice, important topics such as "Corporate Governance" or "corporate social responsibility" will be theoretically sound. They will be derived from the principles learned and systematically integrated into the overall picture of the economic and business ethics. Questions about the justification and validity issues of business ethics set complete the module.</p>					
5	Learning outcomes:					
	<p>Academic: The students learn to recognize moral conflict situations and their description in the term dimensions of ethics. Applying game theory and formal analytical methodology, analytical insight for specific aspects of social and economic relations will be trained. A strong foundation in reality of business issues helps to make use of the content learned in business and everyday life. The literature gives an introduction resp. deeper insight in the relevant economic discourses of ethics.</p> <p>Soft skills: The course requires the active participation and collaboration of students. In particular, their language skills and ability to argue in ethical issues should be promoted through discussions and responses. Their sensitivity to ethical issues and solutions will be sharpened. They will be able to better identify and resolve problem areas in business reality.</p>					
6	Description of possible electives within the modules: none					
7	Examination: Final Module Exam					

8	Relevant Work:		
	Number and Type; Connection to Course	Duration	Part of final mark in %
	Final written exam	90 min.	100 %
9	Study Work:		
	Number and Type; Connection to Course		Duration
	none		
10	Prerequisites for Credit Points: The credit points will be granted after all relevant work and study work have been successfully completed.		
11	Weight of the module grade for the overall grade: 3.33% (6 of 180 CP)		
12	Module Prerequisites: If this module is absolved, the course "Business ethics I" cannot be absolved as part of the module "Business Skills".		
13	Presence: none		
14	Use of the module for other course programs: Bachelor Business Administration, Bachelor Economics, Bachelor Politics and Economics, Bachelor Economics and Law, Dual Bachelor Economics, Bachelor Mathematics, Bachelor Geography		
15	Responsible Lecturer: Professor Dr. Christian Müller		Department: School of Business and Economics
16	Misc.:		

Foundations of Business Administration

Module Title english:		Foundations of Business Administration				
Course Program:		Bachelor Economics PO 2010				
1	Module No: BWL 1	State: Compulsory	Language of Instruction: German, partly English			
2	Turn: each winter term	Duration: 1 term	Semester: 1, 2	CP: 9	Workload (h): 270	
3	Module Structure:					
	No	Type	Course	CP	Presence (h + CH)	Self-Study (h)
	1	Course	Introduction to Business Administration	2	30 h (2 CH)	30
	2	Course	Finance (German and English)	3	30 h (2 CH)	45
	3	Course	Investment (German and English)	3	30 h (2 CH)	45
	4	Exercise	Tutorial	1	30 h (2 CH)	30
4	Module Contents:					
	<p>Background and relations to other courses: The course serves as a natural starting point for every student of economic sciences by identifying and analysing the structure of modern enterprises. Therefore, transmission of basic knowledge and methods for analytic decision making are the course's main objectives. In the following semesters, students will mainly analyze parts of economic institutions isolatedly. Therefore, it is vital to provide a broader perspective on economic theory. Knowledge gained in the fields of investment and finance is meant to support everyday decision making.</p> <p>Main topics and learning objectives: The module provides elementary students with an overview of essential economic questions and methods and introduces the diverse functional units a firm is composed of. A profound analysis of investment and finance decisions – including the utilization of associated mathematical tools – serves as basis for further observations: students are expected to reason by using elementary economic concepts, autonomously develop solution approaches, classify tasks into a broader context and solve these especially in the area of investment and finance. The course is divided into two different parts that pursue the following learning objectives:</p>					
5	Learning outcomes:					
	<p>Academic: The students will be able to argue with basic business concepts, develop own simple solutions, classify tasks into a broader context and solve them. The knowledge gained from the more in-depth discussed area "Investment and corporate finance" can be used in practical decision-making.</p>					
6	Description of possible electives within the modules: none					
7	Examination: Final Module Exam					
8	Relevant Work:					
	Number and Type; Connection to Course	Duration	Part of final mark in %			

	Final written exam	120 min.	100 %
9	Study Work: Number and Type; Connection to Course		Duration
	none		
10	Prerequisites for Credit Points: The credit points will be granted after all relevant work and study work have been successfully completed.		
11	Weight of the module grade for the overall grade: 5% (9 of 180 CP)		
12	Module Prerequisites: none		
13	Presence: none		
14	Use of the module for other course programs: Bachelor Business Administration, Bachelor Economics, Bachelor Information Systems, Bachelor Mathematics, Bachelor Physics, Master Political Science		
15	Responsible Lecturer: Prof. Dr. Andreas Pfingsten	Department: Münster School of Business and Economics	
16	Misc.:		

Foundations of Accounting

Module Title english:		Foundations of Accounting				
Course Program:		Bachelor Economics PO 2010				
1	Module No: BWL 2	State: Compulsory	Language of Instruction: German, partly English			
2	Turn: each summer term	Duration: 1 term	Semester: 1, 2	CP: 9	Workload (h): 270	
3	Module Structure:					
	No	Type	Course	CP	Presence (h + CH)	Self-Study (h)
	1	Course	Accounting and Annual Financial Statements	3	30 h (2 CH)	60
	2	Course	Foundations of Accounting (German an English)	4	45 h (3 CH)	75
	3	Exercise	Tutorial on Foundations of Corporate Accounting (German and English)	2	30 h (2 CH)	30
4	Module Contents:					
	<p>Background and relations to other courses: Accounting and Annual Financial Statement: As businesses constantly execute financial transactions including sales, purchase, payments etc. students will learn to book those transactions in the course of the account systems. The accumulation of all transactions is recorded in the annual financial statements. Those provide an overview of the financial condition of an enterprise. All information regarding the business is presented in a structured manner. To filter the required internal and external accounting information from the report, managers and investors must be capable of reading and interpreting financial statements. Students will therefore learn to read annual financial statements and understand them in detail. The first part of the course comprises the fundamentals of financial accounting as part of the organisational bookkeeping and annual reporting. The course will continue with the system of accounting transactions and annual statements. Within the scope of double-entry bookkeeping students will learn to execute accounting transactions on their own. In the fourth part students will organise transactions in standard forms of accounting on their own. The course closes with a comprehensive view as a basis for closing accounts. Foundations of Accounting: Managers and investors require internal and external accounting information for business and investment decisions. This course will enable students to learn about the roles, procedures and shortcomings of the mathematical models in use. In the first half of the semester students gain knowledge on costing systems and cost information for managers' decision-making and control. Thus, students learn on how to gain quantitative information, which is in other classes frequently taken for granted. During the second half of the semester, students gain knowledge about financial accounting principles within Germany which forms the basis for other courses focusing on special accounting issues. Furthermore, it enables students to assess differences between German GAAP and international accounting principles in advanced courses.</p> <p>Main topics and learning objectives: Accounting and Annual Financial Statement: The aim of this course is that students will gain the ability to understand accounting and financial accounting statements. By the end of the course students will be capable of independently booking transactions in the course of the accounting system. Beyond that they will be able to read and interpret annual financial statements. Foundations of Accounting: The aim of this course is that students will be able to understand the principles of both management and financial accounting systems. By the end of the course, it is expected that the students understand</p>					

and are able to apply management accounting systems in different settings. In addition, students will gain an understanding in developing and analysing annual financial statements under German GAAP.

Themes	Learning objectives
Financial accounting as an element of organisational bookkeeping	To learn about the systematisation of organisational bookkeeping
Fundamentals of financial accounting	To study the organisation, legal bases and components of financial accounting
System of accounting and financial statements	To evaluate the financial and profit situation of a business as well as the system of doubleentry-bookkeeping and financial statements
Booking of complex business transactions	To book capital assets, personnel expenditures, inventory, fuel, raw and auxiliary materials as well as legal titles To learn about the structure of standard forms of accounts and standard forms of accounts in industry enterprises
Standard forms of accounts to organise the booking system	To execute a closing account
Purpose of accounting systems	To learn about the objectives of accounting systems and differences between essential terms.
Management accounting systems	To comprehend the scope of internal accounting systems depending on allocated costs and time
Cost-type accounting	To read and have a basic understanding of cost types focusing on mathematical methods and calculatory costs.
Cost-centre accounting	To assess the appropriateness in allocating costs to different costcentres applying the cost distribution sheet.
Cost-object accounting	To learn about a variety of methods to conduct cost-object accounting. To explain techniques which provide information concerning the company's success.
Selected cost accounting systems	To use additional cost accounting systems with a special focus on providing information for decision making.
Basic principles in financial accounting	To appreciate the intention and legal fundamentals of the financial statement considering addressees and legal principles emerging from the literature.
Balance sheet	To evaluate the elements of the balance sheet including both fixed and current assets and equity and debt.
Profit and loss statement	To study the types of profit and loss statements in use. To gain knowledge about the disposition of the net income.
Financial statement analysis	To perform financial statement analysis in order to assess the financial situation (profitability and financial risk) of a company applying the understanding gained before

5

Learning outcomes:

Academic:

Accounting and Annual Financial Statement:

	<p>During the 90 minutes written examination students have to accomplish various bookings in standard forms of accounts. Finally all of those are merged in the closing account.</p> <p>In the written examination, students are supposed to demonstrate their abilities</p> <ul style="list-style-type: none"> • Understand the fundamentals of financial accounting • Book specific transactions in standard forms of accounts • Read and interpret annual financial statements • Select and identify relevant information from the statement <p>Foundations of Corporate Accounting:</p> <p>The aim of this course is that students will be able to understand the principles of both management and financial accounting systems. By the end of the course, it is expected that the students understand and are able to apply management accounting systems in different settings. In addition, students will gain an understanding in developing and analysing annual financial statements under German GAAP.</p> <p>In the written examination, students are supposed to demonstrate their abilities</p> <ul style="list-style-type: none"> • to solve problems effectively within a limited period of time, • to transfer and integrate knowledge, methods and theory from lectures and workshops, • to present their solutions in a coherent and sophisticated manner, • to select and identify the most relevant aspects first. 											
6	Description of possible electives within the modules: none											
7	Examination: Examinations for every part of the module											
8	<p>Relevant Work:</p> <table border="1"> <thead> <tr> <th>Number and Type; Connection to Course</th> <th>Duration</th> <th>Part of final mark in %</th> </tr> </thead> <tbody> <tr> <td>Written exam on Accounting and Annual Statements</td> <td>90 min.</td> <td>33.33 %</td> </tr> <tr> <td>Written exam on Foundations of Accounting</td> <td>120 min.</td> <td>67.67 %</td> </tr> </tbody> </table>			Number and Type; Connection to Course	Duration	Part of final mark in %	Written exam on Accounting and Annual Statements	90 min.	33.33 %	Written exam on Foundations of Accounting	120 min.	67.67 %
Number and Type; Connection to Course	Duration	Part of final mark in %										
Written exam on Accounting and Annual Statements	90 min.	33.33 %										
Written exam on Foundations of Accounting	120 min.	67.67 %										
9	<p>Study Work:</p> <table border="1"> <thead> <tr> <th>Number and Type; Connection to Course</th> <th>Duration</th> </tr> </thead> <tbody> <tr> <td>None</td> <td></td> </tr> </tbody> </table>			Number and Type; Connection to Course	Duration	None						
Number and Type; Connection to Course	Duration											
None												
10	Prerequisites for Credit Points: The credit points will be granted after all relevant work and study work have been successfully completed.											
11	Weight of the module grade for the overall grade: 5% (9 of 180 CP)											
12	Module Prerequisites: none											
13	Presence: none											
14	Use of the module for other course programs: Bachelor Business Administration, Bachelor Economics, Bachelor Information Systems, Bachelor Mathematics, Bachelor Physics, Master Political Science											
15	Responsible Lecturer: Professor Dr. Wolfgang Berens	Department: School of Business and Economics										

16	Misc.:
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Specialisation in Business

Module Title english:		Specialisation in Business				
Course Program:		Bachelor Economics PO 2010				
1	Module No: BWL 3 - BWL 24, BWL-S1, BWL-S2	State: Elective	Language of Instruction: German and English			
2	Turn: each term	Duration: 1 term	Semester: 5, 6	CP: 6	Workload (h): 180	
3	Module Structure:					
	No	Type	Course	CP	Presence (h + CH)	Self-Study (h)
	1	Course / Exercise	Cost Accounting and Cost Management	6	60 h (4 CH)	120
	2	Course / Exercise	Operations Management	6	60 h (4 CH)	120
	3	Course / Exercise	Foundations of Marketing	6	60 h (4 CH)	120
	4	Course / Exercise	Financial Accounting	3	45 h (3 CH)	45
	5	Course / Exercise	Principles of Corporate Taxation	3	45 h (3 CH)	45
	6	Course / Exercise	Corporate Finance	6	60 h (4 CH)	120
	7	Course / Exercise	Introduction to Operations Research	3	60 h (4 CH)	30
	8	Course	Planning and Decision	3	30 h (2 CH)	60
	9	Course	Rational Decision Making (RDM)	3	30 h (2 CH)	60
	10	Course / Exercise	Market Research	3	45 h (3 CH)	45
	11	Course / Exercise	Marketing Operations	3	45 h (3 CH)	45
	12	Course / Exercise	Organization and Management	3	45 h (3 CH)	45
	13	Course / Exercise	Corporate Governance	3	45 h (3 CH)	45
	14	Course	Advanced Financial Accounting	3	30 h (2 CH)	60
	15	Course	Business Analysis	3	30 h (2 CH)	60
16	Course / Exercise	Transaction Tax	3	30 h (2 CH)	60	

	17	Course / Exercise	Income Tax	3	30 h (2 CH)	60
	18	Course / Exercise	Specialization in Finance	6	45 h (3 CH)	135
	19	Course	Insurance Economics	6	60 h (4 CH)	120
	20	Course	Customer Management	3	30 h (2 CH)	60
	21	Course	Services Marketing	3	30 h (2 CH)	60
	22	Course	Retail Management	3	30 h (2 CH)	60
	23	Course	Advanced Management	6	60 h (4 CH)	120
	24	Course / Exercise	International Financial Management	6	45 h (3 CH)	135
	25	Course / Exercise	Public Firms	6	60 h (4 CH)	120
	26	Course / Exercise	Logistics Management	6	60 h (4 CH)	120
	27	Course / Exercise	Business Cooperation: Governance	6	60 h (4 CH)	120
	28	Course / Exercise	Business Cooperation: Management	6	60 h (4 CH)	120
	29	Seminar	Business Cooperation: Current Cases	6	30 h (2 CH)	150
	30	Seminar	Finance and Accounting Case Study Seminar	6	30 h (2 CH)	150
	31	Seminar	INTOP	6	60 h (4 CH)	120
	32	Seminar	Innovation Management	6	45 h (3 CH)	135
	33	Seminar	Case Study Seminar Strategic Management	6	45 h (3 CH)	135
4	<p>Module Contents: Main topics and learning objectives: The electives in Business can be chosen from all modules in business administration, if the prerequisites are fulfilled. Two modules with a total of 12 CP have to be chosen. The modules "Foundatons of Business Administration" and "Foundations of Accounting" cannot be chosen, as these are mandatory. Also the modules "Advanced Statistics", "Econometrics I", "Econometrics II", "Information Systems", and "Business Ethics" cannot be chosen as a specialisation in Business.</p>					
5	<p>Learning outcomes: Academic: Deeper knowledge in Business Administration</p>					
6	<p>Description of possible electives within the modules: From the modules in Business Administration, two have to be taken. Only complete modules can be chosen.</p>					
7	<p>Examination: Examinations for every part of the module</p>					

8	Relevant Work:		
	Number and Type; Connection to Course	Duration	Part of final mark in %
	If course or course/exercise respectively is absolved: written exam	max. 120 min.	100 %
	If a seminar is absolved: paper and presentation	max. 20 pages + max. 90 Min.	100 %
9	Study Work:		
	Number and Type; Connection to Course	Duration	
	none		
10	Prerequisites for Credit Points: The credit points will be granted after all relevant work and study work have been successfully completed.		
11	Weight of the module grade for the overall grade: 3.33% (6 of 180 CP)		
12	Module Prerequisites: none		
13	Presence: recommended		
14	Use of the module for other course programs: Bachelor Business Administration, Bachelor Economics		
15	Responsible Lecturer: Professor Dr. Wolfgang Berens, Prof. Dr. Alexander Dilger, Prof. Dr. Thomas Ehrmann, Professor Nadja Guenster, Prof. Dr.-Ing. Bernd Hellingrath, Univ.-Prof. Dr. Thorsten Hennig-Thurau, Professor Dr. Peter Kajüter, Professor Dr. Hans-Jürgen Kirsch, Professor Dr. Manfred Krafft, Professor Dr. Thomas Langer, Prof. Dr. Stephan Nüesch, Prof. Dr. Theresia Theurl, Professor Dr. Christoph Watrin, Professor Dr. Thorsten Wiesel		Department: School of Business and Economics
16	Misc.:		

Mathematics and IT

Module Title english:		Mathematics and IT				
Course Program:		Bachelor Economics PO 2010				
1	Module No: QR1	State: Compulsory	Language of Instruction: German			
2	Turn: each term	Duration: 1 term	Semester: 1, 2	CP: 12	Workload (h): 360	
3	Module Structure:					
	No	Type	Course	CP	Presence (h + CH)	Self-Study (h)
	1	Course / Exercise	Mathematics for Economics	7	75 h (5 CH)	105
	2	Course	Mathematics Refreshment Course	0	30 h (2 CH)	0
	3	Course	Financial Mathematics	2	15 h (1 CH)	45
	4	Course	Techniques in IT	3	30 h (2 CH)	60
4	Module Contents:					
	Main topics and learning objectives:					
	<p>1. Mathematics are fundamental in every kind of quantitative study of business and economics. Mathematical skills are essentially needed, e.g., in Statistics, Operations Management and Finance. There are no prerequisites except a thorough knowledge of school mathematics, in particular differential and integral calculus for functions of one variable. 2. Financial mathematics is one of the most fundamental and traditional instruments of business administration. It is essentially deployed in professional as well as private life. Managers and investors require internal and external financial information taken as a basis for business and investment decisions. That information can be drawn from mathematical finance, which comprises the branches of applied mathematics concerned with financial markets and business accounting. 3. Information systems are used nearly everywhere in the academic study and later on in the job. The typical IT-tool of the manager for his job in planning and making decisions is the spreadsheet software. Therefore the professional use of Excel will be introduced, including the use of the features of Excel that base on the mathematical theories of the module like the solver. Most of the data needed can be found in databases. The students have to learn how to access these databases and to extract data using Access, SQL and ODBC.</p>					
	Themes	Learning objectives				
Systems of linear equations	To understand how to translate linear dependencies between economical variables into systems of linear equations and how to solve them. To find optimal solutions.					
Vectors and operations with vectors	To learn how to mathematize economic profiles by means of vectors and how to do and interpret elementary operations with vectors, such as linear combinations.					
Matrices and operations with matrices	To use matrices as mathematical models of linear economical mappings between groups of economical variables. To do basic operations such as products of matrices, matrix inverses, determinants and eigenvalues of matrices and to understand how these operations are used in quantitative economics.					

	Series	To characterize economical series by means of implicit and explicit formulas. To sum up finite and infinite series. To understand the interrelation between power series and functions of one variable.
	Diferential calculus	To understand how functions of several variables are used in quantitative economics. To learn the role of partial/directed/total derivatives as tools describing variational properties of those functions. To use implicit derivatives. To understand the interrelation between curvature of functions and their second-order-derivatives
	Nonlinear Optimization	To use derivatives of functions in optimization of economically motivated differentiable functions. To understand the treatment of differentiable restrictions in optimization (Lagrange-method). Finally, to investigate the influence of exogenous variables on the optimal
	Introduction to financial mathematics	To gain an overview over financial mathematics issues
	Fundamentals of financial mathematics	To learn about the objective of financial mathematics, calculation of sequences and orders as basic tools as well as the calculation of logarithms
	Interest calculation	To accomplish yearly, in the course of the year and constant interest calculation
	Annuity computation	To accomplish yearly, eternal and progressive calculation of annuity
	Repayment calculation	To accomplish the calculation of amortization by instalments and annuity repayment
	Determination of rates, especialle effective interest rates	To understand the nexus of rate and return and the systematisation of capital debt. To accomplish the calculation of rate and return
	Excel	To use a spreadsheet program for your own work in study and job. To structure the spreadsheets using the input-process-output way. To know the functions of decision making and finance. To make diagrams in many different ways. To Use Scenarios, Pivot-tables and Solver
	Access, SQL and ODBC	To get use of the data in databases. To connect foreign databases with my personal database system. To select and to aggregate data of these databases using the techniques of SQL and QBE
5	<p>Learning outcomes:</p> <p>Academic: The student should demonstrate the ability</p> <ul style="list-style-type: none"> • to do mathematical calculations such as optimizations and solutions of economical equations which are necessary in further economical analyses. • to mathematize economical problems, that is find mathematical structure in those problems • to implement complex mathematical models in professional software like Excel • to use professional software to solve their problems but know the difference between academic and professional use of items <p>Soft skills: Reading and understanding formal texts (like mathematical formulas in economics), Working in small groups (self study) in order to solve mathematical problems, Presentation Skills (when visiting the tutorial), structuring given problems in a formal way, e.g. rows and columns</p>	
6	<p>Description of possible electives within the modules: none</p>	

7	Examination: Examinations for every part of the module		
8	Relevant Work:		
	Number and Type; Connection to Course	Duration	Part of final mark in %
	Electronic Exam "Mathematics"	90 min.	58 %
	Written exam Financial Mathematics	30 min.	17 %
	Computerized exam "Techniques in IT" using Excel and Access	60 min.	25 %
9	Study Work:		
	Number and Type; Connection to Course	Duration	
	none		
10	Prerequisites for Credit Points: The credit points will be granted after all relevant work and study work have been successfully completed.		
11	Weight of the module grade for the overall grade: 6.67% (12 of 180 CP)		
12	Module Prerequisites: none		
13	Presence: none		
14	Use of the module for other course programs: Bachelor Business Administration, Bachelor Economics		
15	Responsible Lecturer: Dr. Alfred Brink, Dr. Walter Schmitting, Dr. Ingolf Terveer		Department: School of Business and Economics
16	Misc.:		

Statistics

Module Title english:		Statistics				
Course Program:		Bachelor Economics PO 2010				
1	Module No: QR 2	State: Compulsory	Language of Instruction: German			
2	Turn: each term	Duration: 2 terms	Semester: 1, 2	CP: 12	Workload (h): 360	
3	Module Structure:					
	No	Type	Course	CP	Presence (h + CH)	Self-Study (h)
	1	Course	Statistics I	3	30 h (2 CH)	60
	2	Exercise	Tutorial on Statistics I	3	30 h (2 CH)	60
	3	Course	Statistics II	3	30 h (2 CH)	60
4	Exercise	Tutorial on Statistics II	3	30 h (2 CH)	60	
4	Module Contents:					
	<p>Background and relations to other courses: The course Statistics I introduces (a) basic methods to describe empirical data, and (b) some of the basic tool of economic statistics. In conjunction with the course Statistics II this course is required for all more advanced courses and modules in econometrics and statistics.</p> <p>Main topics and learning objectives: Statistics I: The main topics are: Basic notation and terminology, data sources, statistics software (R), absolute and relative frequencies, frequency tables, graphics and their manipulation, empirical distribution function, empirical quantiles and quantile function, measures of location and dispersion, aggregation of means and variances, histograms, Simpsons paradox, harmonic and geometric mean, growth rates and factors, index numbers, subindices, high dimensional data: frequencies, conditional distributions, descriptive independence, coefficient of correlation, rank correlation, contingency coefficient, descriptive regression, elementary time series analysis, seasonal adjustment, measures of inequality and concentration. The learning objective is to obtain a passive and active knowledge of all these concepts. The course Statistics II introduces the basics of probability theory and statistical inference. In conjunction with the course Statistics I this course is required for all more advanced courses and modules in econometrics and statistics. Statistics II: The main topics are: Basic notation and terminology, combinatorics, conditional probability, independence, Bayes theorem, random variables, distribution function, quantile function, discrete and continuous random variables, density function, linear transformations of random variables, expectation, variance, Bernoulli distribution, binomial distribution, Poisson distribution, geometric distribution, normal and standard normal distribution, exponential distribution, uniform distribution, joint distribution (bivariate), limit theorems, sample, sample function, statistics, point estimation, interval estimation, hypothesis tests for expectations and proportions, chi square tests of goodness of fit and independence. The learning objective is to obtain a passive and active knowledge of all these concepts.</p>					
5	Learning outcomes:					
	<p>Academic: After completion of this module, students will have elementary knowledge of statistical and probabilistic methods, which are used in economics. They know the conventional simple statistical techniques and are able to recognize the conventional manipulation techniques in graphics. You are able to communicate quantitative information using statistical methods. You have the skills for advanced probabilistic events in the field of econometrics and statistics, and in the field of</p>					

	<p>microeconomics. You know the simplest statistical estimator and the basic concepts of statistical hypothesis testing and can apply them in standard situations. You can question the precision of estimates critical. Personal skills are not taught in this module.</p> <p>Soft skills: Students learn clear formal thinking and reasoning.</p>		
6	Description of possible electives within the modules: none		
7	Examination: Examinations for every part of the module		
8	Relevant Work:		
	Number and Type; Connection to Course	Duration	Part of final mark in %
	Written exam on Statistics I	120 min.	50 %
	Written exam on Statistics II	120 min.	50 %
9	Study Work:		
	Number and Type; Connection to Course	Duration	
	none		
10	Prerequisites for Credit Points: The credit points will be granted after all relevant work and study work have been successfully completed.		
11	Weight of the module grade for the overall grade: 6.67% (12 of 180 CP)		
12	Module Prerequisites: none		
13	Presence: Recommended		
14	Use of the module for other course programs: Bachelor Business Administration, Bachelor Economics, Bachelor Politics and Economics, Bachelor Economics and Law, Dual Bachelor Economics		
15	Responsible Lecturer: Professor Dr. Bernd Wilfling		Department: School of Business and Economics
16	Misc.:		

Law

Module Title english:		Law				
Course Program:		Bachelor Economics PO 2010				
1	Module No: QR3	State: Compulsory	Language of Instruction: German			
2	Turn: each summer term	Duration: 1 term	Semester: 1, 2	CP: 6	Workload (h): 180	
3	Module Structure:					
	No	Type	Course	CP	Presence (h + CH)	Self-Study (h)
	1	Course	Civil Law	6	60 h (4 CH)	120
4	Module Contents: Main topics and learning objectives: Introduction to Civil Law, specifically the general part of the German Civil Code, the law of obligations, and sales law. The lecture will essentially deal with the formation of contracts and their potential refutation. In addition, the lecture will provide the students with broad knowledge when it comes to minor's law and legal representation issues. Furthermore, the law of obligations part of the lecture focusses on warranty rights. Eventually, the students will be introduced to sales law which is substantial in business contexts.					
5	Learning outcomes: Academic: Basics of legal methodology will be taught. These include the close and intensive work with the facts of a certain case and the identification of the relevant and corresponding legal norms which are required in order to solve the problems of that certain case. The students will be able to transfer their theoretical knowledge onto practice-oriented cases. Soft skills: The students will be able to present their results in a coherent way					
6	Description of possible electives within the modules: none					
7	Examination: Final Module Exam					
8	Relevant Work:					
	Number and Type; Connection to Course	Duration	Part of final mark in %			
	Final written exam	90 min.	100 %			
9	Study Work:					
	Number and Type; Connection to Course	Duration				
	none					
10	Prerequisites for Credit Points: The credit points will be granted after all relevant work and study work have been successfully completed.					

11	Weight of the module grade for the overall grade: 3.33% (6 of 180 CP)	
12	Module Prerequisites: none	
13	Presence: recommended	
14	Use of the module for other course programs: Bachelor Business Administration, Bachelor Economics	
15	Responsible Lecturer: Professor Dr. Peter Kajüter	Department: School of Business and Economics
16	Misc.:	

Empirical Economics

Module Title english:		Empirical Economics				
Course Program:		Bachelor Economics PO 2010				
1	Module No: QR4	State: Compulsory	Language of Instruction: English			
2	Turn: each summer term	Duration: 1 term	Semester: 3, 4	CP: 9	Workload (h): 270	
3	Module Structure:					
	No	Type	Course	CP	Presence (h + CH)	Self-Study (h)
	1	Seminar	Empirical Economics	9	60 h (4 CH)	120
4	Module Contents:					
	<p>Background and relations to other courses: Prerequisite for this lecture course is the module “Statistics“. This module lays the foundation for all courses with empirical research components, in particular for the modules “Advanced Statistics“, “Econometrics 1” and “Econometrics 2”.</p> <p>Main topics and learning objectives: The main topics are: Empirical economic questions and data, linear regression with one regressor, linear regression with multiple regressors, nonlinear regressions, assessing the validity of empirical studies, instrumental variables regression, introduction to time series and forecasting, dynamic causal effects, vector autoregression, integrated time series and unit root tests, cointegration. The learning objective is to obtain a passive and active knowledge of these topics. The course skips most of the formal mathematical treatment and focuses on the intuitive understanding of the concepts. In the exercises, statistical software is used to apply the methods to real-world data.</p>					
5	Learning outcomes:					
	<p>Academic: Students learn to understand foreign empirical work and to question it critically. You will learn to conduct your own empirical work using today's standard econometric methods.</p> <p>Soft skills: Students learn clear formal thinking.</p>					
6	Description of possible electives within the modules: none					
7	Examination: Final Module Exam					
8	Relevant Work:					
	Number and Type; Connection to Course	Duration	Part of final mark in %			
	Final written exam	90 Min.	100 %			
9	Study Work:					
	Number and Type; Connection to Course	Duration				
	Active participation in module exercises, presentation of an exercise					

10	Prerequisites for Credit Points: The credit points will be granted after all relevant work and study work have been successfully completed.	
11	Weight of the module grade for the overall grade: 5% (9 of 180 CP)	
12	Module Prerequisites: Recommended: Module Statistics	
13	Presence: Recommended	
14	Use of the module for other course programs: Bachelor Economics, Bachelor Politics and Economics, Bachelor Economics and Law	
15	Responsible Lecturer: Professor Dr. Bernd Wilfling	Department: School of Business and Economics
16	Misc.:	

Bachelor Thesis (Economics)

Module Title english:		Bachelor Thesis (Economics)				
Course Program:		Bachelor Economics PO 2010				
1	Module No: BA	State: Compulsory	Language of Instruction: German			
2	Turn: each term	Duration: 1 term	Semester: 5, 6	CP: 12	Workload (h): 360	
3	Module Structure:					
	No	Type	Course	CP	Presence (h + CH)	Self-Study (h)
	1	Course	Bachelor Thesis	12	0 h (0 CH)	360
4	Module Contents: Main topics and learning objectives: The bachelor thesis aims to show that the student is able to work on his/her own on a problem using scientific methods within a limited time, and to present and document the results on an academical level. The thesis should be about 40 pages long. In case of an internship report §11 of the examination regulations must be taken into account.					
5	Learning outcomes: Academic: Students will gain experiences by applying the learned contents. Moreover they will learn to work with scientific literature and to formulate academic texts.					
6	Description of possible electives within the modules: none					
7	Examination: Final Module Exam					
8	Relevant Work:					
	Number and Type; Connection to Course	Duration	Part of final mark in %			
	Bachelor Thesis	ca. 40 pages	100 %			
9	Study Work:					
	Number and Type; Connection to Course	Duration				
	none					
10	Prerequisites for Credit Points: The credit points will be granted after all relevant work and study work have been successfully completed.					
11	Weight of the module grade for the overall grade: 6.67% (12 of 180 CP)					
12	Module Prerequisites: Students have to prove, that a Seminar in one of the elective courses in Economics or Business Administration is completed. The seminar must be finished before starting the Bachelor Thesis. This rule applies to all students who have not started the 3rd year of study in SS 2013.					

13	Presence: none	
14	Use of the module for other course programs: Bachelor Economics	
15	Responsible Lecturer: Professor Dr. Ulrich Suntum	Department: School of Business and Economics
16	Misc.: The bachelor thesis will be supervised and graded by an examiner in accordance with §13 of the examination regulations (the examiner has to regularly hold events about the subject which the bachelor thesis relates to). The student has a right of proposal concerning the examiner and also the topic of the bachelor thesis. If the examiner rejects the proposed supervision, the candidate will be assigned to a different supervisor by the examination board.	