Erste Ordnung zur Änderung der Prüfungsordnung für den konsekutiven Masterstudiengang Information Systems an der Westfälischen Wilhelms-Universität

(Prüfungsordnung 2010) vom 14. Oktober 2010 vom 30. November 2012

Auf Grund der §§ 2 Abs. 4, 64 Abs. 1 des Gesetzes über die Hochschulen des Landes Nordrhein-Westfalen (Hochschulgesetz - HG) in der Fassung des Hochschulfreiheitsgesetzes vom 31.10.2006 (GV. NRW. S. 474), zuletzt geändert auf Grund Art. 1 des Gesetzes vom 31.01.2012 (GV. NRW. S. 90), hat die Westfälische Wilhelms-Universität folgende Ordnung erlassen:

Artikel 1

Die Prüfungsordnung für den konsekutiven Masterstudiengang Information Systems an der Westfälischen Wilhelms-Universität (PO 2010) vom 14. Oktober 2010 (AB Uni 2010/21, S. 1719 ff.) wird wie folgt geändert:

1. § 6 Absatz 2 wird wie folgt neu gefasst:

"(2) ¹Für einen erfolgreichen Abschluss des Studiums sind 120 Leistungspunkte zu erwerben. ²Leistungspunkte sind ein quantitatives Maß für die Gesamtbelastung der/des Studierenden. ³Sie umfassen sowohl den unmittelbaren Unterricht als auch die Zeit für die Vor- und Nachbereitung des Lehrstoffes (Präsenz- und Selbststudium), den Prüfungsaufwand und die Prüfungsvorbereitungen einschließlich Abschluss- und Studienarbeiten sowie gegebenenfalls Praktika. ⁴Für den Erwerb eines Leistungspunkts wird insoweit ein Arbeitsaufwand von 30 Stunden zugrunde gelegt. ⁵Der Arbeitsaufwand für ein Studienjahr beträgt 1800 Stunden. ⁶Das Gesamtvolumen des Studiums entspricht einem Arbeitsaufwand von 3600 Stunden. 尽Ein Leistungspunkt entspricht einem Credit-Point nach dem ECTS (European Credit Transfer System)."

2. § 7 Absatz 1 wird wie folgt neu gefasst:

"(1) ¹Der Masterstudiengang Information Systems ist nicht in Fächer, sondern in fächerübergreifende Themengebiete gegliedert, von denen zwei gewählt werden müssen. ²Jedes Themengebiet besteht aus mehreren Modulen. ³Hinzu kommen fünf Wahlpflichtmodule, ein Projektseminar und das Masterarbeitsmodul. ⁴Der Gesamtumfang der für den erfolgreichen Abschluss des gesamten Studiums erforderlichen Leistungspunkte beträgt 120."

3. § 7 Absatz 3 wird wie folgt neu gefasst:

"(3) Das Projektseminar (12 LP) und das Masterarbeitsmodul (30 LP) vertiefen einerseits die in den Themenbereichs bezogenen Modulen erworbenen Kenntnisse und Fähigkeiten, andererseits unterstützen sie die Vermittlung von Methoden-, Sozial- und Selbstkompetenz."

4. § 7 Absatz 4 wird wie folgt neu gefasst:

"(4) ¹Die Wahlpflichtmodule (jeweils 6 LP) bieten den Studierenden die Möglichkeit, je nach Interessen und angestrebter beruflicher Ausrichtung weitere Kenntnisse und Fähigkeiten zu erwerben. ²Zwei der Wahlpflichtmodule müssen die Form eines Seminars haben, insgesamt sind fünf Wahlpflichtmodule auszuwählen."

5. § 7 Absatz 5 wird wie folgt neu gefasst:

"(5) ¹Von den zum erfolgreichen Abschluss des Masterstudiums erforderlichen 120 Leistungspunkten entfallen 90 auf die genannten Modulleistungen und 30 auf das Masterarbeitsmodul. ²Eine Mehrerbringung von Modulen innerhalb der Wahlbereiche ist nicht möglich."

6. § 13 Absatz 9 wird wie folgt neu gefasst:

"(9) ¹Legt der/die Studierende Widerspruch gegen die Bewertung einer Prüfungsleistung ein, so kann der Prüfungsausschuss neben der Stellungnahme der Prüferinnen/Prüfer die Stellungnahme einer weiteren Prüferin/eines weiteren Prüfers für seine Entscheidung heranziehen. ²In dem Fall, in dem die Masterarbeit zum endgültigen Nichtbestehen führt, ist die Heranziehung einer dritten Prüferin/eines dritten Prüfers zwingend erforderlich."

7. § 16 Absatz 1 wird wie folgt neu gefasst:

"(1) ¹Die Masterprüfung hat bestanden, wer alle dazu erforderlichen Module sowie das Masterarbeitsmodul mindestens mit der Note ausreichend (4,0) bestanden hat. ²Zugleich müssen mindestens 120 Leistungspunkte erworben worden sein."

8. § 16 Absatz 2 wird wie folgt neu gefasst:

"(2) ¹Für das Bestehen jeder Prüfungsleistung eines Moduls stehen den Studierenden zwei Versuche zur Verfügung. ²Insgesamt stehen den Studierenden darüber hinaus Drittversuche für Prüfungsleistungen im Umfang von 12 Leistungspunkten zur Verfügung. ³Bestandene Prüfungsleistungen können nicht zur Notenverbesserung wiederholt werden. ⁴Für Hochschulwechsler/innen, die an einer anderen Universität oder gleichgestellten Hochschule gleichwertige Prüfungsleistungen eines Moduls oder Module insgesamt nicht bestanden haben, werden diese Fehlversuche auf die Zahl ihrer Wiederholungsmöglichkeiten angerechnet."

9. § 20 wird wie folgt neu gefasst:

"§ 20 Einsicht in die Studienakten

¹Der/dem Studierenden wird auf Antrag nach Abschluss jeder Prüfungsleistung Einsicht in ihre bzw. seine Arbeiten, die Gutachten der Prüferinnen/Prüfer und in die entsprechenden Protokolle gewährt.
²Für solche Leistungen, für die kein allgemeiner Einsichtnahmetermin vorgesehen ist, ist der Antrag spätestens innerhalb von zwei Wochen nach Bekanntgabe des Ergebnisses der Prüfungsleistung beim Prüfungsausschuss zu stellen. Der Prüfungsausschuss bestimmt Ort und Zeit der Einsichtnahme.
³Gleiches gilt für die Bachelorarbeit bzw. das Bachelorpraktikum.
⁴§ 29 VwVfG bleibt unberührt."

10. Der "Anhang: Modulbeschreibungen" wird wie folgt neu gefasst:

Module compendium of the Master's degree course of Information Systems

(Version 2012-05)

- Information Management: Managing the Information Age Organization
- Information Management: Tasks and Techniques
- Information Management: Theories
- Information Management: Information Systems Architecture
- Process Management: Workflow Management
- Process Management: Model-Driven Software Development
- Process Management: Information Modeling
- Process Management: Production Planning and Control
- Business Networks: Supply Chain Management and Logistics
- Business Networks: Interorganizational Systems
- Business Networks: Enterprise Application Integration
- Business Networks: Information Security
- Business Intelligence: Management Information Systems and Data Warehousing
- Business Intelligence: Data Integration
- Business Intelligence: Data Analytics Theory
- Business Intelligence: Data Analytics Applications
- Elective Modules 1 3 (Lecture)
- Elective Modules 4 5 (Seminar)
- Project Seminar
- · Master's thesis

Bemerkung zu den Modulbeschreibungen:

Das vorgegebene Formular wurde den Gegebenheiten des Studiengangs angepasst und vereinfacht. Die folgenden Punkte wurden ausgelassen:

Punkt	Bezeichnung	Grund				
Heading	Programme	Der Studiengang ergibt sich aus der Zuordnung zu diesem				
		Modulhandbuch.				
Heading	Module Title German	No German title available				
6	Wahlmöglichkeiten in-	Die Zusammensetzung eines Moduls ist festgelegt, es gibt				
	nerhalb des Moduls	keine Wahlmöglichkeiten				
7	Leistungsüberprüfung	Die Leistung wird in der Regel durch eine Modulabschluss-				
		leistung erbracht. Setzt diese sich aus Einzelleistungen				
		zusammen, ist dies unter Punkt 8 beschrieben.				
9	Studienleistungen	Es gibt keine unbewerteten Studienleistungen.				
11	Gewichtung der Modulno-	Die Gesamtnote setzt sich aus allen Prüfungsleistungen im				
	te	Verhältnis ihrer Leistungspunkte zusammen. Da angerech-				
		nete Leistungen nicht in diese Rechnung eingehen, gibt es				
		keine feste Prozentzahl.				
14	Verwendbarkeit in ande-	Die Möglichkeit der Verwendung in anderen Studiengängen				
	ren Studiengängen	ist in deren Prüfungs- oder Studienordnungen beschrieben				
		– auf die fehlerträchtige Angabe wird daher hier verzichtet.				
15	Fachbereich	Der Fachbereich Wirtschaftswissenschaften ist in allen				
		Fällen verantwortlicher Anbieter.				

Master of Information Systems: Course Schedule

	Information Management	Process Management	Business Networks	Business Intelligence
Winter term	Managing the Information Age Organization (6) IM Tasks and Techniques (6) Model driven Software Development (6)		Supply Chain Management and Logistics (6) Interorganizational Systems (6)	Data Integration (6) Management Information Systems and Data ta Warehousing (6)
Summer term	Information Management Theories (6) Information Systems Architecture (6)	Information modeling (6) Production Planning and Control (6)	Enterprise Application Integration (6) Information Security (6)	Data Analytics – Theory (6) Data Analytics – Applications (6)

Every term: Elective Modules (6 CP) – Project Seminar (12 CP) – Master's Thesis (30)

Mod	ule Title: Informati	on Management: Man	aging the	Informatio	n Age Orgar	nization	
1	Module No: IM1 State: Compulsory						
2	Turn: every winter term	Duration: 1 term	Semeste	er: 1-2	CP: 6	Workload (h): 180	
3	Module Structure:NoTypeCourse1LLecture2EExercise		СР	45	ce (h + CH) (3 CH) (1 CH)	Self-Study (h) 90 30	
4	Contents: Background: The lecture Managing the Information Age Organization assumes that students have a basic understanding of Business Administration, Management Studies, and business applications of information technology as conveyed in Bachelor Programs in IS and related fields. Main topics and learning objectives: The lecture provides students with a sound understanding of management and management theories as well as with the foundations of the information society. On the basis of this understanding, students are confronted with management challenges prevalent in the information age. While doing this, special emphasis is laid on how information technology affects the capabilities of an organization to compete in the information economy. Teaching is conducted through traditional lectures complemented with case study work and discussions in the classroom. Additional reading material is provided in order to allow students to review parts of the						
5	Learning outcomes: Academic: After attending the course students should be familiar with the foundations of management, i.e. (strategic) planning, controlling, organization, and leadership. They should understand the specific conditions organizations are exposed to in the "Information Age" and be able to explain the technological, social and economic phenomena constituting it. Furthermore, they are expected to have an idea of how the information age challenges traditional management concepts and what appropriate responses to these challenges might look like. Soft skills: The course introduces students to the analysis of case studies in small groups and furthers their ability to actively participate in classroom discussions.						
	Relevant Work:			1		Part of final	
8	Number and Type; Connectio	n to Course			Duration	mark in %	
	Written Exam				90 Min.	100	
10	Prerequisites for Credit Points: The credit points will be granted when the module has been successfully completed, i.e. when the written examination is passed.						
12	Module Prerequisites:						

13

15

None Presence:

16 Misc.:

Presence is strictly advised.

Responsible Lecturer: Prof. Dr. Stefan Klein

Modu	dule Title: Information Management: Tasks and Techniques							
1	Mod	lule No:	IM2 State: Compulsory					
2	Turn	urn: every winter term Duration: 1 term Semester: 1-2 CP: 6 Workload (h): 180						Workload (h): 180
	Mod	lule Stru	cture:					
١,	No	Type	Course		CP	Presen	ce (h + CH)	Self-Study (h)
3	1 L Lecture				40	(4 CH)	90	
	2	E	Exercise	·		20	(1 CH)	30

Background: The course requires a sound understanding of both management studies and information processing in business. This course interlinks with the course "Managing the Information Age Organization", which deepens the students' understanding of management basics that this course builds upon. In order to provide students from a non IS-background with the managerial understanding of information processing necessary for participating successfully in this course, an extensive script on this subject is provided at the beginning of the semester.

Main topics and learning objectives: The lecture provides students with an overview of executives' duties in managing an organization's information and communication capabilities. These duties include tasks such as strategic information planning, strategy implementation, as well as sourcing and organizing the information function. These tasks are structured in a comprehensive framework based on management theory. While identifying critical IM tasks and responsibilities, the course presents methods and techniques that can be applied to deal with them. Class discussions on case studies give students the opportunity to consolidate their newly acquired knowledge and apply the techniques presented to typical problems. In addition, occasional discussions with IT executives allow students to reflect their conceptual knowledge in light of real world practices.

Learning outcomes:

Academic: The course provides students with skills indispensable for an IT executive. In particular, students will obtain a comprehensive overview of the field of IT management and get acquainted with the typical tasks IT managers are charged with. They will also get to know prominent frameworks and techniques to solve IM tasks as proposed in textbooks.

Soft skills: In addition to expertise in the fields mentioned above, students will deepen their skills in constructively analyzing and solving case studies in both classroom settings and as part of individual assignments.

	Relevant Work:		
8	Number and Type; Connection to Course	Duration	Part of final mark in %
	Written Exam	90 Min.	100

Prerequisites for Credit Points:

The credit points will be granted when the module has been successfully completed, i.e. when the written examination is passed.

Module Prerequisites: None

Presence:

Presence is strictly advised. Participation in assignments for continuous assessment is a prerequisite to successfully complete the course.

Responsible Lecturer: Prof. Dr. Stefan Klein

Mod	Module Title: Information Management: Theories							
1	1 Module No: IM3 State: Compulsory							
2	2 Turn: every summer term Duration: 1 term Semester: 1-2 CP: 6 Workload (h): 180						Workload (h): 180	
	Mod	lule Stru	cture:					
9	No Type Course				СР	Presen	ce (h + CH)	Self-Study (h)
3	1	1 L Class Discussion				45 (3 CH)		80
	2	Е	Presentation, pr	reparation of discussi	on	30	(2 CH)	25

Background: A sound understanding of management and information management as provided in the courses "Managing the Information Age Organization" and "Information Management Tasks & Techniques".

Main topics and learning objectives: This course deepens the students' understanding of IM tasks and techniques in that it enables them to assess underlying theoretical propositions in more detail. To this end, the lecture introduces important management theories, including market, resource and capability based theories of strategic information systems, IT strategy theory, IT value and productivity theory, organization theory of IT and theories of sourcing and governing the information function. Moreover, on the basis of this theoretical knowledge, critical issues of IM are discussed in the light of the controversial academic discussions surrounding them.

The course builds on well-prepared class discussions rather than traditional lectures. The lecturer will support learning by carefully selecting papers and placing them into a broader "theoretical landscape". He will moderate and facilitate the discussions, and provide feedback on the assignments during the semester (reading papers, preparing presentations, writing minutes).

Learning Outcomes:

Academic: The overall aim of this course is to give students access to the academic debate on IM. More specifically, the course is intended to introduce students to the international academic debate on the most important or discussed issues of information management. The students will gain insight into the theories underlying the frameworks and techniques proposed for solving IM tasks and will be able to assess these tools and the underlying theories critically.

Soft skills: In addition to providing students with the capabilities to deal with academic literature reflectively, the course helps to further the students' ability to take an active part in academic discussions. This ability is based on a combination of reading, thinking, writing, discussing and listening skills.

	Relevant Work:								
8	Number and Type; Connection to Course	Duration	Part of final mark in %						
	Written Exam	90 Min.	60						
	Course Assignments		40						

Prerequisites for Credit Points:

Regular class attendance and active participation in the discussion, solving the course assignments and passing the written examination.

Module Prerequisites: None

Presence:

Presence is strictly advised. Participation in assignments for continuous assessment is a prerequisite to successfully complete the course.

Responsible Lecturer Prof. Dr. Stefan Klein

Mod	ıle Ti	tle:		Information Management: Information Systems Architecture				
1	. Module No: IM4 State: Compulsory							
2	Turr	ı: every s	ry summer term Duration: 1 term Semester: 1-2 CP: 6 Workload (h): 180					
	Mod	lule Stru	icture:					
	No Type Course				СР	Presen	ce (h + CH)	Self-Study (h)
3	1	L	Lecture	cture		30	(2 CH)	60
	2	E	Exercise			30	(2 CH)	60

This course provides insights into the methods of information system architecture giving a holistic view on information systems. The need for architecture in complex organizations is motivated by a wide interpretation of information systems. Architecture supports the effective planning and governance of enterprises. Consistently implemented, it facilitates the understanding of business entities' interrelationships and helps to explicate their contribution to superior enterprise goals. This course conveys an overview of concepts and methods typically discussed in the context of Information Systems Architecture. The introduction of a specialized modeling language introduces the students to the creation of architectural artifacts. The concrete architecture realization process is underlined by the study of architecture frameworks currently discussed in research and practice.

Background and relations to other courses:

This course stresses the aspect of IM as an engineering discipline, in contrast to being a management discipline only. The fundamental idea is to describe organizations as a whole, consisting of goals and strategies, business models, processes, people and information technology. Information Systems Architecture propagates a holistic approach that primarily aims at aligning the spheres of business and IT within one or across several companies and at facilitating and governing transformation processes The Information Manager thereby has the role of an architect of the corporate information infrastructure.

The Module "Managing IT in the Information Age" introduces students to the tasks and tools in Information Management thus setting the scene for this Module.

Main topics and learning objectives:

Themes	Learning objectives				
Motivation of Information	To learn about the challenges today's enterprises are facing and the solu-				
Systems Architecture	tion statement Information Systems Architecture provides in this context.				
Positioning Information	To learn the definition and major concepts of Information Systems Archi-				
Systems Architecture	tecture and about its key applications and its role in governance.				
Management areas and	To learn about the management areas relevant to Information Systems				
best practices	Architecture and associated best practices commonly applied.				
Modeling of the Informa-	To learn how to create different architectural artifacts and connect them to				
tion Systems Architecture	create a holistic, purposeful picture of the enterprise. Moreover, to learn to				
	use viewpoints to generate stakeholder-specific views of the architecture.				
Frameworks in Informa-	To learn why frameworks play an important role in Information Systems				
tion Systems Architecture	Architecture and to get to know prominent frameworks that are vividly				
	discussed in research and practice.				

Learning outcomes:

Academic:

The students' ability to develop and implement an Information Systems Architecture is the course's major goal. An understanding of current developments and frameworks in the domain of architecture implementation should be obtained. Students are equipped with methods for planning, creating and governing such architectures. Furthermore, practical skills in architecture development will be conveyed with work on case studies and presentation of the results.

5 Soft skills:

Students are encouraged to prepare the contents of the lecture and exercise and to perform follow-up work in teams. This is supported by a Learnweb discussion forum that is guided by the chair. The case study is organized as group work and thus promotes the students' ability cooperate in teams and to manage their time efficiently. The intermediary results are presented regularly by the groups in front of the complete audience. This enhances the students' presentation and discussion skills. The creation of architectural models by using a syntactically and semantically defined modeling language sharpens analytical skills logic skills.

	Relevant Work:						
8	Number and Type; Connection to Course	Duration	Part of final mark in %				
	Written Exam	90 Min.	60				
	Course Assignments		40				
10	Prerequisites for Credit Points: Regular class attendance, solving the course assignments, and passing the written examination.						
12	Module Prerequisites: None						
13	Presence: Presence is strictly advised.						
15	Responsible Lecturer: Prof. DrIng. Bernd Hellingrath	_					
16	Misc.:						

Mod	ule Title:		Process Managemer	ıt: Workflo	w Manag	ement			
1	Module No:	PM1	State: Compulsory						
2	Turn: winter	,	Duration: 1 term	Semeste	er: 1-2	CP: 6	Workload (h): 180		
3	Module Stru No Type	cture: Course Lecture		СР	30	nce (h + CH)	Self-Study (h)		
		Exercise and relations to				o (2 CH)	50		
	tation of the environmen	ese. It therefore p	provides means for im to topics in IM1, IM2,	plementi	ng busine	ss requirem	the technical implemenents in an organizational BN3.		
4	Themes (1) Basics (Themes (1) Basics of Workflow Management				provide an orkflow impl	overview of the entire ementation and to ex-		
	(2) Conceptual workflow definition (3) Technical workflow implementation			defin To be imple	To be able to understand and create workflow definitions. To be able to understand and create workflow implementations, and to explain the relations				
	(4) Workflo	(4) Workflow Management Systems				between (2) and (3) To be able to actually implement workflows with Workflow Management Systems used in practice.			
5	the challeng	The ability to mar ges faced in the c The ability to orga	ourse of such a projec	t, and tec	hniques t	o cope with	ions, an understanding o them. e presentations in front o		
	a large audi								
8	Number and	d Type; Connectio	on to Course			Duration	Part of final mark in %		
		Written exam Course Assignments				90 min.	60 40		
10	The credit p					sfully comp	leted, i.e. when both the		
12	Module Prerequisites:								
13	Presence: Presence is strictly advised.								
15	Responsible Lecturer: Prof. Dr. Jörg Becker								
16	Misc.:	<u>, </u>							
L	1								

Modu	ıle Title:		Process Manag	gement	: Model-	Driven So	ftware Devel	opment
1	Module No:	PM2	State: comp	ulsory				
2	Turn: every v	vinter term	Duration: 1 ter	m	Semest	er: 1-2	CP: 6	Workload (h): 180
	Module Structure:				ı	1		1
3		pe Course			СР		nce (h + CH)	Self-Study (h)
	1 L Lecture 2 E Exercise						5 (3 CH) 5 (1 CH)	60 60
	l	LACICISC				1 1) (1 (1)	
4	Contents: Background and relations to other courses: It is assumed that the students have some taught in the bachelor program. Depending of the subject of the intended material Main topics and learning objectives: The course consists of lectures providing the concepts are applied in a practical example. Themes Foundations of Model-Driven Software Development (MDSD) Domain-Specific Languages Model-to-Model Transformations			ne theo informa Learni Under and m Under guage specif Knowi to-mo Knowi el-to-t Applyi	retical betion system objects tanding standing leading leading leading teams trans	taught manackground tem. ctives g the main a-modeling g the fou and bein ages. ing tools (ing tools (ing tools (ing tools (aterial can be a dand of 5 a dand of 5 a dand of 5 a dand delay and a delay and being such as Xterns and being and being and being and being and being	e helpful.
5	Soft skills:	s learn to know t			nd to ap			oftware. ne experience with team
	Relevant Wo	rk:						
8	Number and	Type; Connection	on to Course				Duration	Part of final mark in %
	Exam						90 Min.	80
	Course assig					ev	ery 14 days	20
10		s for Credit Point course assignme		g the w	ritten ex	amination		
12	Module Prer	equisites:						
13	Presence: Presence is s	strongly recomm	ended.					
15	Responsible Prof. Dr. Herl							
16	Misc.:	_	-				-	

Modu	ıle Title:		Process	Managemer	t: Inform	ation Mode	eling		
1	Module No:	PM3	State:	Compulsory					
2	Turn: summe	er	Duration	n: 1 term	Semest	er: 1-2	CP: 6	Workload (h): 180	
3	Module Structure No Type 1 L 2 E	cture: Course Lecture Exercise			СР	CP Presence (h + CH) 30 (2 CH) 30 (2 CH)		Self-Study (h) 60 60	
4	Contents: Background and relations to other courses: This lecture introduces the theoretical foundation of one of the core methods in Information Sy Modeling relevant parts of organizational information systems with diagrammatic modeling notat therefore provides a theoretical basis for courses applying these techniques, such as PM1, PM4, Bl or IM4. Main topics and learning objectives: Themes Meta modeling / meta meta modeling To be able to explain and apply the concept well as to be able to explain the rationale be them. Modeling frameworks To be able to provide an overview of the first courses.							tic modeling notations. It is as PM1, PM4, BN1, Bl1, Bl1, Bl1, Bl1, Bl1, Bl1, Bl1, Bl	
	Advanced concepts Domain-specific modeling				work comp parts To b taugl work To e able	works introduced, to be able to evaluate and compare them, and to be able to apply selected parts of them. To be able to explain and apply the concepts taught, to compare them, and to explain how they work together. To explain domain-specific modeling and to be able to argue both in favor and against the usage of such modeling approaches.			
5	information. for specific c	mpart a broad a Facilitate unders ontexts of applic he ability to orga	standing ation.	of different r	nodeling	approache	es and judg	I challenges of modeling ing their appropriateness e presentations in front of	
8	Relevant Wo Number and	rk: Type; Connectio	n to Coui	rse			Duration	Part of final mark in %	
	Written exam	1				90 min. 100			
10	Prerequisites for Credit Points: The credit points will be granted when the module has been successfully completed, i.e. when the written examination is passed.								
12	Module Prere	equisites:							
13	Presence:	strictly advised.							
15	Responsible	Lecturer:							
16	Prof. Dr. Jörg Becker Misc.:								

Modu	ıte Ti	tle:		Process Managemer	it: Produc	tion Plan	ining and Cor	ntrol	
1	Mod	lule No:	PM4	State: Compulsory					
2	Turn	: every s	summer term	Duration: 1 term	Semest	er: 1-2	CP: 6	Workload (h):	
		lule Stru		•			•		
_	No	Type	Course		СР	Presence (h + CH)		Self-Study (h)	
3	1	L	Lecture				30 (2 CH)	60	
	2	E	Exercise		30 (2 CH) 60				
4	ing concepts to the manufacturing sector. Taking mation flows and business functions relevant to processes like material management, capacity manufacturing, and computer aided quality assur contributes to the theoretical foundation of PM1, F Main topics and learning objectives: The students learn to know the different approach methods and instruments. In sum, the students Planning and Control and techniques proposed for				PPC) lecture addresses the adaptation of process model an integrated process perspective data structures, inform this domain are presented. The course encompasses management, computer aided design, computer aided ance in an integrated manner. It therefore bases on and				
5	Acad To u Soft To m	skills: nanage a	nd and to be ab	le to apply the address group work regarding g	ed topics	;		ationale behind them.	
8		vant Wo	ork: Type; Connecti	on to Course			Duration	Part of final mark in %	
	Writ	ten Exan	n				120 min.	100%	
10			s for Credit Poin s attendance, se	ts: olving the course assig	nments,	and pass	ing the writte	n examination.	
12	Mod Non		equisites:						
13	Pres		strictly advised.						
15		onsible . Dr. Jörg	Lecturer: Becker						
16	Misc	C.:							

Module Title: Business Networks: Supply Chain Management and Logist					Logistics			
1 Module No: BN1 State: Compulsory								
2	2 Turn: every winter term Duration: 1 term S				Semeste	emester: 1-2 CP: 6 Workload (h): 180		
	Mod	lule Stru	ıcture:					
_	No	Type	Course		СР	Prese	nce (h + CH)	Self-Study (h)
3	1	L	Lecture			30 (2 CH)		60
	2	Ε	Exercise	ise		30 (2 CH)		60

Supply chains focus onto value creation networks of often legally independent companies that are tightly connected via different linkages or flows (e.g. material, information and financial flows). The course "Supply Chain Management (SCM)" elaborates those linkages across companies and specifically addresses issues of supply chain design, planning, coordination and optimization. Collaborative process concepts integrating the different business activities of the companies in the supply chain are investigated in detail. For each lectured topic related IT-Systems are introduced and their application in Supply Chain Management is discussed. Furthermore, the different modes of usage and architectures of Information Systems in Supply Chain Management are examined. Case studies carried out with the help of SCM tools currently used in practice underline the practical aspects of the contents taught.

Background and relations to other courses:

This module studies companies in the context of the business ecosystem, i.e. inter-organizational relations of variable density to different stakeholders. It explores the contingencies and strategies that lie behind the evolution and use of inter-organizational IT infrastructures and applications (IOS). On the other side business networks of value creation and the hereby used IT systems and application will be examined in the context of Supply Chain Management (SCM).

Main topics and learning objectives:

Main topics and tearning obje	ectives.
Themes	Learning objectives
Basic Principles of Supply	To learn about basic terms, ideas, challenges and targets of Supply Chain
Chain Management	Management.
Supply Chain Modeling	To learn about the basic elements to be modeled in a supply chain.
	To understand the intention and objectives of modeling supply chains and
	to be able to create such a model.
Supply Chain Design	To learn about the relevant influencing factors for supply chain design
	decisions and to understand design options and principles.
Supply Chain Planning	To understand the core tasks of supply chain planning and the methods being used for demand planning, network planning, supply planning, production planning and distribution planning as well as the objectives and key indicators of order promising.
Supply Chain Execution	To learn about the scope of supply chain execution. To get a basic under-
	standing of the basic concepts and functions of Supply Chain Event Man-
	agement.
IT-Systems in Supply	To get an idea of features and characteristics of different SCM software
Chain Management	systems.

Learning outcomes:

Academic:

The course's major academic outcome is a broad and profound understanding of supply chains' challenges, targets, and related concepts for managing supply chain activities. Furthermore, a profound knowledge in actual methods and concepts of supply chain design, modeling, planning, and optimization should be obtained.

Soft skills:

5

Students are encouraged to prepare the contents of the lecture and exercise and to perform follow-up work in teams. This is supported by a Learnweb discussion forum that is guided by the chair. Case studies that accompany the lecture especially in Supply Chain Design and Planning provide the opportunity for students to get acquainted to selected SCM tools and to apply them in a realistic scenario. The case studies are organized as group work and thus promote the students' ability to cooperate in teams. The intermediary results are presented regularly by the groups in front of the complete audience. This enhances the students' presentation and discussion skills.

	Relevant Work:						
8	Number and Type; Connection to Course	Duration	Part of final mark in %				
	Written Exam	90 Min.	60				
	Course Assignments		40				
10	Prerequisites for Credit Points: Regular class attendance, solving the course assignments, and pas	sing the written ex	camination.				
12	Module Prerequisites: None						
13	Presence: Presence is strictly advised.						
15	Responsible Lecturer: Prof. DrIng. Bernd Hellingrath	_					
16	Misc.:						

Module Title: Business Network					: Interorgan	nizationa	l Systems	
1 Module No: BN2 State: Compulsory								
2	2 Turn: every winter term Duration: 1 term So				Semeste	e r: 1-2	CP: 6	Workload (h): 180
	Mod	lule Stru	ıcture:					
_	No	Type	Course		CP	Prese	nce (h + CH)	Self-Study (h)
3	1	L	Lecture		3	3	o (2 CH)	45
	2 E Exercise			3	3	o (2 CH)	75	
	Contents:							

Networks have become ubiquitous forms of organizing in and between economy, public administration and society at large. On the backdrop of this development this module introduces interorganizational systems and networks in a business context, yet with linkages to public administration (e.g. customs) and social networks. It aims to explore the contingencies and strategies that lie behind the evolution and use of interorganizational information infrastructures and applications (IOS). Further, students will examine the impact of IOS on distributed forms of value generation such as electronic markets and various types of networks.

Drawing on case examples as well as theoretical concepts, a life cycle perspective of IOS management will be introduced. The implications of IOS will be discussed from various perspectives such as industry transformation, intermediation, strategic management, organization, information management and IS development. This discussion will be informed by theories addressing networking issues such as institutional economics, collective action or organization theory.

Learning Goals:

Academic: The course will provide students with analytical skills enabling them to explain the emergence of networks. Students should be able to both identify specific network management tasks (networkability) and apply prominent theories and frameworks to explain the impact of IOS.

Soft skills: In addition to providing students with the capabilities to deal with academic concepts and literature reflectively, the course helps to further the students' ability to take an active part in discussions. This ability is based on a combination of reading, thinking, writing, discussing and listening skills. Moreover, students will develop skills in applying these techniques to practical problems, e.g. through problem based learning exercises. Course assignments will be organized as group work, so that students can practice their collaboration skills and learn techniques for efficient collaboration.

	Relevant Work:		
8	Number and Type; Connection to Course	Duration	Part of final mark in %
	Written Exam	60 Min.	50
	Course Assignments		50

Prerequisites for Credit Points: 10 Regular class attendance, solving the course assignments, and passing the written examination.

Module Prerequisites: 12 None

Presence:

Presence is strictly advised. Participation in assignments for continuous assessment is a prerequisite to 13 successfully complete the course.

Responsible Lecturer: 15 Prof. Dr. Stefan Klein

Mod	ule Ti	tle:		Business Networks	: Enterpris	se Applic	ation Integra	tion
1 Module No: BN3				State: compulso	ry			
2	2 Turn: every summer term			Duration: 1 sem.	Semest	t er: 1-2	CP: 6	Workload (h): 180
	Moc No	lule Stru Type	ıcture: Course		СР	Prese	nce (h + CH)	Self-Study (h)
3	1	Ĺ	Lecture			4.	5 (3 CH)	60
	2	Е	Exercise			1	5 (1 CH)	60
	Con	tents:						
	It is	assum		other courses: ents have some expe elor program. The lear				

Main topics and learning objectives:

Several technologies for the intra- and inter-organizational integration of information systems are presented, among them EJB, message-oriented middleware, and web services. Moreover, suitable software architectures are introduced.

The participants learn how to apply these technologies in practical applications. This is mainly achieved

by corresponding assignments.

	<u>~) </u>					
	Themes	Learning objectives				
4	Basic EAI concepts	Knowing and being able to evaluate typical EAI topologies and possible integration layers.				
	Web applications and Middleware	Knowing typical concepts and frameworks for the development of enterprise applications.				
		Being able to use these frameworks for developing enterprise applications with Java.				
	.NET	Being able to develop enterprise applications with .NET.				
	Web Services	Being able to connect existing enterprise applications using web-service technologies.				
	Message-oriented middleware	Being able to connect enterprise applications using message- oriented middleware.				
	BPEL	Knowing how to connect existing web services with BPEL.				
	Data integration	Knowing how to integrate software systems on the data layer.				

Learning outcomes:

Academic:

The students learn to know and apply current integration technologies for software systems within a company and across collaborating enterprises

Soft skills:

The exercises are solved in teams of 5 students. Thus, the students are trained to collaborate in teams.

	Relevant Work:		
8	Number and Type; Connection to Course	Duration	Part of final mark in %
	Exam	90 Min.	75
	Course assignments	every 14 days	25

Prerequisites for Credit Points: 10 The credit points will be granted when the module has been successfully completed.

Module Prerequisites: 12 none

Presence:

13 Presence is strongly recommended.

Responsible Lecturer: 15 Prof. Dr. Herbert Kuchen

Misc.:

16

Modu	ıle Title:	Business Networks: Inform	ation Se	curity		
1	Module No: BN4	State: Compulsory				
2	Turn: Summer	Duration: 1 term	Semeste	er: 1-2	CP: 6	Workload (h): 180
3	Module Structure: No Type Course 1 L Information 2 E Information	•	СР	Prese	ence (h + CH) 30 (2) 30 (2)	Self-Study (h) 60 60
4	Contents: This lecture covers the foundations of information security including the specification of protection goals, adversary models, security mechanisms (e.g., identification, access control) and cryptographic primitives to enforce protection goals in distributed systems (e.g., symmetric and asymmetric encryption, integrity protection). Security mechanisms will be discussed both from the perspective of a system operator, who protects a larger distributed system, as well as from the end users' point of view, who may wish to use security technology to self-protect against untrustworthy system operators. Background and relations to other courses: None Main topics and learning objectives: Learning objectives Learning objectives to ensure that every grad-					
	Security Strategy, Prival Exercise: Primer on Intercooking Theory, Primer on Computational Contains Modes, exercises	uate ty im secun secun nolog cally ment respon	uate who potentially makes decisions with security impact has sufficient knowledge to a) identify security issues, b) communicate effectively with security experts, c) keep aware of changing technological limits, d) evaluate security advises critically and comprehensively, e) oversee the implementation of security measures, and f) assume responsibility for their effects and potential sideeffects.			
5	Learning outcomes: Academic: See objectives a), c), d), Soft skills: See objectives b) and f)	e)				
8	Relevant Work: Number and Type; Conn	ection to Course			Duration	Part of final mark in %
	Written assignment Oral examination				20 min.	20 80
10	Prerequisites for Credit Points: The credit points will be granted when the module has been successfully completed, i.e. all parts of the examination are passed.					
12	Module Prerequisites: N					
13	Presence: Presence is re	commended				
15	Responsible Lecturer: Pi	rof. Dr. Rainer Böhme				
16	Misc.:					

Mod	Module Title: Business Intelligence: Management Information Systems and Data Warehousing							
1	1 Module No: BI1 State: Compulsory							
2	2 Turn: every winter term Duration: 1 term Semester: 1-2 CP: 6 Workload (h): 180						Workload (h): 180	
	Mod	lule Stru	cture:					
	No Type Course			СР	Prese	nce (h + CH)	Self-Study (h)	
3	1	L	Lecture			4	5 (3 CH)	60
	2	Ε	Exercise, Case S	Exercise, Case Study, Presentations			5 (1 CH)	60

Background and relations to other courses:

Business Intelligence (BI) refers to a variety of methods and techniques for the analysis of business data such as data warehousing (DWH), reporting, Online Analytical Processing (OLAP), and data mining. This course addresses the methodical design and implementation of data warehouse systems in support of management's decision making, particularly via appropriate use of multidimensional schema design, ETL, and OLAP techniques. All relevant concepts are demonstrated from both a theoretical and a practical perspective.

In this course, traditional lectures are complemented by student presentations that provide additional content. In addition, exercises and case studies provide ample opportunities to perform the various development phases in realistic and practical settings.

Main topics and learning objectives:

Students will be able to explain the problems, issues, solutions, techniques, tools, and applications relating to BI and DWH. They will be able not only to design and implement ETL processes and OLAP solutions but also to discuss differences among OLAP design approaches and to evaluate the quality of multidimensional schemata.

4

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Themes	Learning objectives
Data Warehousing	To define architectures and use cases of data warehousing and management
Fundamentals	information systems and to assess their roles for companies
Query Processing and	To describe query processing in database systems and to demonstrate ap-
Optimization	propriate query optimization techniques
OLAP Processing and	To compare differences between OLTP and OLAP; to contrast OLAP workloads
Optimization	and demonstrate appropriate OLAP optimization techniques
ETL Design	To compare different ETL processes and tools; to design simple ETL processes
OLAP Modeling	To describe the role of functional dependencies for the identification of multi-
	dimensional structures; to design multidimensional structures
OLAP Modeling Ap-	To assess different OLAP modeling approaches; to demonstrate conceptual
proaches	modeling of scenarios according to an appropriate approach
OLAP Implementation	To describe the architecture and functionality of OLAP systems; to implement
	OLAP reports with a standard OLAP system according to a case study
Project Management	To compare different approaches to engage in a MIS/DWH project; to demon-
	strate exemplary OLAP system implementations

Learning outcomes:

Academic: To understand and to be able to apply the addressed topics

Soft skills: To manage and to organize group work regarding given task and presentations

	Relevant Work:		
8	Number and Type; Connection to Course	Duration	Part of final mark in %
	Written Exam	60 min.	50
	Course Assignments		50

Prerequisites for Credit Points:

Regular class attendance, solving the course assignments, and passing the written examination.

Module Prerequisites: None 12

Presence: Presence is strictly advised.

Responsible Lecturer:

15 Prof. Dr. Jörg Becker, Prof. Dr. Gottfried Vossen

Modu	Module Title: Business Intelligence: Data Integration								
1 Module No: Bl2 State: Compulsory									
2	2 Turn: every winter term Duration: 1 term Semester: 1-2 CP: 6 Workload (h): 180								
	Mod	lule Stru	cture:						
9	No Type Course					Presen	ce (h + CH)	Self-Study (h)	
3	1	L	Lecture			30	(2 CH)	75	
	2	Ē	Exercise, Case S	Study, Presentations		15	(1 CH)	60	

Background and relations to other courses:

Business Intelligence (BI) refers to a variety of methods and techniques for the analysis of business data. As business data usually reside in a variety of sources, data integration becomes a necessary prerequisite for successful BI projects.

In this course, a collection of tools and techniques is presented that can be applied in modern data integration tasks; these range from view construction and query processing in heterogeneous distributed databases to schema mapping and matching, Web services and mash-up APIs.

In this course, lectures are complemented by student presentations that provide additional content. In addition, exercises provide ample opportunities to apply the various techniques in realistic and practical settings.

Main topics and learning objectives:

Students will become able to explain the problems, issues, solutions, techniques, and tools relating to data integration. They will be able not only to locate and present relevant sources and research in the area, but also to apply data integration techniques in practical scenarios. Moreover, they will be familiarized with the current research literature in the field.

	nized with the current research interactive in the neta.							
	Themes	Learning objectives						
4	Introduction, Background,	To familiarize the audience with the problems, issues, solutions, tech-						
	Architectures	niques, and tools relating to data integration						
	Mash-up creation	To get some initial hands-on experience in a data integration task						
	Data cleansing, data fusion,	To learn about basic activities in data integration						
	data quality							
	Schema matching, schema	To appreciate formal issues arising when data schemas are present or						
	mapping	given						
	GaV/LaV Modeling	To recognize the importance of traditional database topics (in this case						
		relational algebra) in the novel context of data integration						
	Distributed Query	To become able to apply classical optimization techniques in distributed						
	Processing and Optimiza-	scenarios						
	tion							
	Web Crawling and Search	To take integration to the Web as the currently most dominating integra-						
	and Recommendation	tion application						
	Web Data Representation	To become familiar with recent developments regarding the handling of						
	and Processing (RDF,	data on the Web and to apply relevant techniques in sample scenarios						
	SPARQL, OWL, linked data)							

Learning outcomes:

5

Academic: In the oral presentation, the student should demonstrate the ability

- to select, engage with, assess, and apply pieces of literature,
- to build a concise, yet coherent argument, and
- to identify open issues.

In the written examination, the student should demonstrate the ability

- to integrate and apply several concepts,
- to apply the concepts to a data integration scenario.

Soft skills: All assignments are group assignment. Hence the student should demonstrate the ability

- to productively work in groups,
- to coordinate with a peer.

	Relevant Work:									
8	Number and Type; Connection to Course	Duration	Part of final mark in %							
	Written Exam	60 min.	60							
	Course Assignments		40							
10	Prerequisites for Credit Points: Regular class attendance, solving the course assignments, and pass	sing the written ex	kamination.							
12	Module Prerequisites: Basic database knowledge									
13	Presence: Presence is strictly advised.									
15	Responsible Lecturer: Prof. Dr. Gottfried Vossen									
16	Misc.:		_							

Modu	ule Title:		Business Intelligence:	Data An	alytics - Tl	neory		
1	Module No:	Bl3	State: Compulsory					
2	Turn: summ	er	Duration: 1 term	Semeste	r: 1-2	CP: 6	Workload (h): 180	
3	Module Stru No Type	Course	Analytics"	СР		ce (h + CH) (4 CH)	Self-Study (h)	
4	Contents: Background and relations to other courses: The track "Business Intelligence" ideally complemented by electives from marketing and by a seminar, offers a way to start a career in database management and the like. The students are supposed to be familiar with the basic concepts from probability theory and statistics. Main topics and learning objectives: Themes Learning objectives Data Analysis and Data Mining To have a survey of data analysis and data mining. To overview the main techniques in data mining: regression, classification, association rules and clustering. Input-Output-Analysis: Linear and T-Linear To have insight into models for regression and classification. To apply the least squares method in linear regression. To use models for logistic regres-							
5	Learning ou Academic: sis. Soft skills:		upposed to have an und	erstandii	ng of state	of the art te	echniques in data analy-	
8		d Type; Connecti	on to Course			Duration	Part of final mark in %	
10		es for Credit Poi	nts: The credit points wi		nted whe	90 min 1 the modul	e has been successfully	
12		requisites: None						
13		resence is strict						
15	Responsible	Lecturer: Prof.	Dr. Ulrich Müller-Funk					
	Responsible Lecturer: Prof. Dr. Ulrich Müller-Funk Misc.:							

Mod	ule Ti	tle:		Business Intelligence: Data Analytics - Applications							
1 Module No: BI4 State: Compulsory											
2 Turn: summer Duration: 1 term Semester: 1-2 CP: 6 Workload (h):							Workload (h): 180				
	Mod	ule Stru	cture:								
	No	Type	Course		CP	Presen	ce (h + CH)	Self-Study (h)			
3	1	S	Seminar			15 (1CH)		60			
	2	Ε	SPSS Tutorial			15	(1CH)	30			
	3	E	Case Studies			15	(1CH)	45			

Contents: In the SPSS tutorial which is held in the PC-lab, the standard software and its applications to data analysis is presented and can be used by the students. Additional case studies deepen the methodological knowledge.

The seminar is dealing with topics supplementing the methodological aspects, e.g. topics like data quality, customer relationship analytics and the like.

Background and relations to other courses:

The courses are directly related to the lecture "Data Analytics", as they discuss the use of elementary and more complicated data analysis techniques using statistical software.

Main topics and learning objectives:

Themes	Learning objectives
SPSS-Tutorial	To get an introduction to SPSS coping, at the same time, with basic problems of statistical data analysis.
Case Studies	To solve practical problems related to the data analysis lecture using, e.g., SPSS.
Seminar	To elaborate a specific topic of data analysis in business applications.

Learning outcomes:

Academic: The students have insight into statistical standard software and its application to problems of statistical analysis given in the lecture

Soft skills: The students are able to present a statistical topic giving a talk

ľ		Relevant Work:		
	0	Number and Type; Connection to Course	Duration	Part of final mark in %
	8	Seminar presentation		60%
		SPSS certificate		20%
		Case Study presentation	1	20%

Prerequisites for Credit Points: The credit points will be granted when the module has been successfully completed, i.e. all parts of the examination are passed.

- 12 Module Prerequisites: None
- 13 | Presence: Presence is strictly advised
- 15 Responsible Lecturer: Prof. Dr. Ulrich Müller-Funk
- 16 Misc.:

15 Responsible Lecturer: Prof. Dr. Ulrich Müller-Funk

Mod	ule Ti	tle:	Elective Modu	les 1 - 3	(Lecture)						
1	Module No: El 1-5 State: Compulsory										
2	Turn	: every	term	Duratio	n: 1 term	Seme	ster: 1-	4	CP: 6	Wo	orkload (h): 180
	1 .	lule Stru	1				i			ı	
3	No	Туре	Course			CF	Pr	· · · · · · · · · · · · · · · · · · ·)	Self-Study (h)
	1	<u> </u>	Lecture					30 (2 CH)			60
	2	E	Exercise					30	(2 CH)		60
4	Contents: Selection of modules with 6 CP from the "Minor" programs of the Master program of the department of Business Administration, namely "Basis Accounting", "Basis Finance", "Organisation und Personal", "Strategisches Management", "Krankenhausmanagement" and "Basis Marketing". Preconditions defined for the selected modules have to be obeyed. The module "Advanced Market Research" is excluded. Or: Choosing modules out of the not previously enrolled modules within IM, PM, BN and BI Or: Choosing special modules in Information Systems or Computer Science Two of the selected modules have to be seminars! Background and relations to other courses: to be found in the descriptions of the above mentioned modules Main topics and learning objectives: to be found in the descriptions of the above mentioned modules										
	Lear	ning out	comes: (in gene	ral) The	students dee	pen the	ir know	ledge	in specific	c topi	ics
	Aca	demic: t	o be found in th	e descri	iptions of the	above	mentior	ned m	nodules		
5	Soft	skills: to	o be found in th	e descri	ptions of the	above r	nention	ed m	odules		
8	Rele	vant Wo	rk: depending or	the sel	ected module	es					
40	Prer	equisite	s for Credit Poin	ts: The	credit points	will be	granted	l whe	en the pre	requi	sites of the selected
10	mod	lule have	e been successfu	lly comp	oleted.						
12	Mod	lule Prer	equisites: None								
13	Pres	ence: Pr	esence is strictly	advised	d.						

			(2 1)							
			es 4 – 5 (Seminar)							
1										
2	Turn: every term	•	Duration: 1 term	Se	meste	r: 1–4	CP: 6	Workload (h): 18	0	
	Module Structure: No Type Course CP Presence (h + CH) Self-Study								(1.)	
3	No Type Cour	i rse ninar			СР		<u>се (n + Сн)</u> (2 СН)	Self-Study	/ (n)	
	1 L Seili	IIIIai				30	(2 (11)	150		
	Contents: The el	lective semi	nars deal with topics	s tha	at arise	from rece	ent research	They are usual	ly orga-	
			dents. Each student							
	elaboration. Mair	n seminar-to	pics may change fro	m te	erm to	term.				
			other courses: Usua							
		M, PM, BN ar	nd BI. Therefore, kno	wle	dge of	the conte	nts of perta	ining track(s) is s	strongly	
	recommended.	loarning obje	ectives: To follow rec	ont o	dovolo	nmonts th	o tonics an	d accordingly th	o loarn-	
			rom term to term. Exa						e leaiii-	
4		al Model Ana		лр	(05 01 0	currier top.	es nave bec	••••		
	Model Visualisation - Layout and Perception									
	 Network 									
	Beautiful Data									
	ERP systems in industry, retail and supply chains									
		ion Retrieval		nt						
		cal Compute	oly Chain Managemer r Science	IIL						
	Learning outcome		Science							
			en their knowledge i	n sn	ecific 1	tonics				
5			e their skills in acq				ntific know	ledge and prese	ntation.	
			p working abilities ar							
	Relevant Work:					•				
8	Number and Type	e; Connectio	n to Course				Duration	Part of fir mark in '		
°									/6	
	Seminar elaborat	tion and talk						100		
10		Credit Point	s: The credit points	will	be gra	nted wher	the modul	e has been succ	essfully	
12	completed.									
13	Presence: Present		Orv							
15			. Ulrich Müller-Funk							
-2	responsible recti	uici. I Ioi. Di	. Other Mutter-Lunk							

Misc.:

Modi	ule Title: Project Sei	minar								
1	Module No: PS State: Compulsory									
2	Turn: every term Duration: 1term Semester: 3-4 CP: 12 Workload (h): 360									
3	Module Structure: No Type Course 1 Project Seminar		CP Presence (h + CH) Self-Study (h) 12 120 (8CH) 240							
	Contents: In the project sem Background and relations to in former Tracks IM, PM, BN Main topics and learning of	other courses: The prand/or BI. Djectives: The topics v	roject sen	ninar buil term to t	ds on concepterm. Frequer	ntly, they originate from				
4	ERCIS CodeSharingTAC/SCM - The TradiEARevLog - Developi	ndustrial partners. Ext formation Systems Eng ng Agent Competition ng an Enterprise Archi automatic Analysis of P	amples ar gineering in Supply tecture fo Process W	e: Chain Ma r Reverse eaknesse	anagement Logistics	ssional area and, nence				
5	Learning outcomes: Academic: The students lear (e.g. industrial) project. Soft skills: Students learn to tions, writing of scientific tex	realize a project in a	team. The	•		. ,				
	Relevant Work: Number and Type; Connection	on to Course			Duration	Part of final mark in %				
8	Assignments (see 10)					100				
10	Prerequisites for Credit Points: Seeking and reading relevant literature, presenting the material and writing a corresponding report. The project seminar may also include assignments in analyzing requirements, modeling, designing and implementing information systems.									
12	Module Prerequisites: Concre	ete Project Seminars m	nay requir	e certain	modules from	n IM, PM, BN and/or BI.				

Presence: Presence is obligatory.

Responsible Lecturer: Prof. Dr. Ulrich Müller-Funk

13

15

16

Module Title:			Master's thesis				
1	Module No: MT		State: Compulsory				
2	Turn: every term		Duration: 1 term	Semester: 3-4		CP: 30	Workload (h): 900
3	Module Structure:						
	No Type Course			CP Presen		ce (h + CH)	Self-Study (h)
	1 Writing the thes			24			800
	2 Research Metho		ods	6	20 (2 CH)		80
4	Contents: With his master's thesis the student is supposed to prove his ability to take part in the scientific process by doing a small piece of research and write an appropriate paper on it. The thesis should have a length of approximately 80 pages. Background and relations to other courses: The master thesis is written in the research context of one of the main tracks IM, PM, BN and/or BI.						
	Main topics and learning objectives: Those are subject to the topic and area where the thesis is intended.						
5	Learning Outcomes: Academic: The student can handle a research topic in a scientific way and apply the results to practical problems. Soft skills: The student can handle the formal requirements associated to a research paper: investigating the research context, collecting material from the scientific literature, performing and processing bibliographical inquiries, presenting own ideas in the scientific environment of the given topic.						
	Relevant Work:						
8	Number and Type; Connection to Course Master's thesis				Duratio	on P	art of final mark in %
10	Prerequisites for Credit Points: Writing of and fulfilling the requirements for a master's thesis.						
12	Module Prerequisites: 60 credit points.						
13	Presence:						
15	Responsible Lecturer Prof. Dr. Ulrich Müller-Funk						
16	Misc.:						

Artikel 2

Diese Ordnung tritt am Tage nach ihrer Veröffentlichung in den Amtlichen Bekanntmachungen der Westfälischen Wilhelms-Universität (AB Uni) in Kraft.

Ausgefertigt auf Grund der Beschlüsse des Fachbereichsrats der Wirtschaftswissenschaftlichen Fakultät (Fachbereich 04) vom 06.07.2011 und vom 04.07.2012.

Münster, den 30.11.2012

Die Rektorin

Prof. Dr. Ursula Nelles

Die vorstehende Ordnung wird gemäß der Ordnung der Westfälischen Wilhelms-Universität über die Verkündung von Ordnungen, die Veröffentlichung von Beschlüssen sowie die Bekanntmachung von Satzungen vom 08. Februar 1991 (AB Uni 91/1), geändert am 23. Dezember 1998 (AB Uni 99/4), hiermit verkündet.

Münster, den 30.11.2012

Die Rektorin

Prof. Dr. Ursula Nelles