Study programme
"Business Informatics"
Bachelor of Science Module

Catalogue

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Status as of: September 2019

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Module matrix

Modules	Sem.	Art	V	Ü	L	P	ges.	PF	CP
Managerial accounting	1	PM	2.0	2.0	0.0	0.0	4.0	FMP	5.0
Fundamentals of business administration and economics	1	PM	2.0	2.0	0.0	0.0	4.0	KMP	5.0
Basics of information and communication technology (GIKT)	1	PM	2.0	0.0	2.0	0.0	4.0	FMP	5.0
Mathematics I	1	PM	2.0	2.0	0.0	0.0	4.0	FMP	5.0
Software development I	1	PM	2.0	0.0	2.0	0.0	4.0	FMP	5.0
Static internetworking	1	PM	2.0	0.0	2.0	0.0	4.0	KMP	5.0
Operating systems	2	PM	2.0	0.0	2.0	0.0	4.0	SMP	5.0
Databases	2	PM	2.0	0.0	2.0	0.0	4.0	KMP	5.0
Business Process Management	2	PM	2.0	2.0	0.0	0.0	4.0	FMP	5.0
Mathematics II	2	PM	2.0	2.0	0.0	0.0	4.0	FMP	5.0
Project Planning and Management (PPPM)	2	PM	2.0	2.0	0.0	0.0	4.0	SMP	5.0
Software development II	2	PM	2.0	0.0	2.0	0.0	4.0	FMP	5.0
Business Intelligence (BI)	3	PM	2.0	0.0	2.0	0.0	4.0	FMP	5.0
Dynamic internetworking	3	PM	2.0	0.0	2.0	0.0	4.0	SMP	5.0
Intercultural Management (Soft Skill)	3	WPM	2.0	2.0	0.0	0.0	4.0	KMP	5.0
Job Applications (Soft Skill)	3	WPM	2.0	2.0	0.0	0.0	4.0	KMP	5.0
Operations Research	3	PM	2.0	0.0	2.0	0.0	4.0	FMP	5.0
Law	3	PM	2.0	2.0	0.0	0.0	4.0	FMP	5.0
Software Engineering	3	PM	2.0	0.0	2.0	0.0	4.0	KMP	5.0
Team development (soft skill)	3	WPM	2.0	2.0	0.0	0.0	4.0	SMP	5.0
Controlling	4	PM	2.0	2.0	0.0	0.0	4.0	FMP	5.0
Data Warehouse (DWH)	4	PM	2.0	0.0	2.0	0.0	4.0	KMP	5.0
Enterprise Resource Planning Systems	4	PM	2.0	0.0	2.0	0.0	4.0	KMP	5.0
Investment and finance	4	PM	2.0	2.0	0.0	0.0	4.0	KMP	5.0
Production Management, Logistics and Modelling	4	PM	2.0	2.0	0.0	0.0	4.0	SMP	5.0
Project I + II (*)	4	PM	0.0	0.0	0.0	4.0	4.0	SMP	5.0
Algorithms and Data Structures (Business Informatics)	5	WPM	2.0	0.0	2.0	0.0	4.0	FMP	5.0
Service Management (Business Administration)	5	WPM	2.0	2.0	0.0	0.0	4.0	SMP	5.0
E-Business and IT Management	5	PM	2.0	2.0	0.0	0.0	4.0	KMP	5.0
Installation and configuration of complex IT systems (Business Informatics)	5	WPM	2.0	0.0	2.0	0.0	4.0	SMP	5.0

Cooperation Management (Business Administration)	5	WPM	2.0	2.0	0.0	0.0	4.0	KMP	5.0
Marketing and market research	5	PM	2.0	2.0	0.0	0.0	4.0	SMP	5.0
Marketing Simulation (Business Administration)	5	WPM	2.0	2.0	0.0	0.0	4.0	KMP	5.0
Marketing Strategies (Business Administration)	5	WPM	2.0	2.0	0.0	0.0	4.0	SMP	6.0
Mobile Applications (Business Informatics)	5	WPM	2.0	0.0	2.0	0.0	4.0	SMP	5.0
Business English	5	PM	2.0	2.0	0.0	0.0	4.0	KMP	5.0
Economic Policy - Selected Topics (Business Administration)	5	WPM	2.0	2.0	0.0	0.0	4.0	SMP	5.0
Bachelor thesis	6	PM	0.0	0.0	0.0	0.0	0.0	SMP	12.0
Internship	6	PM	0.0	0.0	0.0	0.0	0.0	SMP	15.0
Total semester hours per week			72	42	30	4	148		

Module matrix

Sum of the CP to be achieved from WPM									0
Sum of CP from PM									157
Total CP									157

V - Lecture   **PF** - Form of examination   **FMP** - Fixed module examination

Ü - Exercise   **CP** - Credit Points   **SMP** - Course-related module examination

L - Laboratory   **PM** - compulsory module   **KMP** - Combined Module Examination

P - Project   **WPM** - Compulsory elective module

* Module extends over several semesters

Managerial accounting

Module:	
Managerial accounting	

Study programme:	Graduation:
Business Informatics	Bachelor of Science

Responsible for the module:		
Prof. Dr. rer. pol. Ralf Szymanski		

Semester:	Semester part-time:	Duration:
1	3	1

SWS:	of which V/Ü/L/P:	CP according to ECTS:
4.0	2.0/2.0/0.0/0.0	5.0

Type of course:	Language:	Status as of:
Mandatory	German	2019-07-16

Recommended prerequisites:

Flat-rate crediting of:

Special regulations:

Breakdown of the workload	Hours:
Presence:	60.0
Preparation and follow-up:	88.0
Project work:	0.0
Examination:	2.0
Total:	150

Managerial accounting

Learning objectives	Share
Professional skills	

Knowledge/Knowledge - The students know the terms and methods of internal and external accounting that are important for studying business informatics and can explain them. This enables the students to work on questions relevant to practice and to interpret selected results from a business management perspective.	60%
Skills - Students can handle common methods of double-entry accounting concepts and approaches. They can complete a BAB with an internal activity allocation. Basic features of the annual financial statement, the financial statement, the P&L statement and the In principle, balance sheets can be prepared and interpreted.	20%
Personal competences	
Social competence	20%
Independence - The students are able to actively participate in a group and to adequately communicate the conveyed contents in the class discussion. They can The students are able to actively participate in a group and to adequately communicate the conveyed contents in the class discussion. They can discuss and solve tasks in a team. They can present their own results to the group and respond appropriately to questions. The students are able to set their own learning and working goals and to realise them. They can compare their own knowledge with the set learning objectives and, if necessary, initiate necessary steps, e.g. ask for learning guidance.	

Content:

1. Accounting basics and techniques
2. Annual accounts
3. Cost accounting systems
4. Cost type, cost centre, cost unit and contribution margin accounting
5. Processing of selected business transactions

Managerial accounting

Form of examination:

Written exam
Compulsory literature:
Recommended literature:
will be announced in the course

Fundamentals of business administration and economics

Module:
Fundamentals of business administration and economics

Study programme:	Graduation:
Business Informatics	Bachelor of Science

Responsible for the module:
Prof. Dr. rer. pol. Christian Müller

Semester:	Semester part-time:	Duration:
1	3	1

SWS:	of which V/Ü/L/P:	CP according to ECTS:
4.0	2.0/2.0/0.0/0.0	5.0

Type of course:	Language:	Status as of:
Mandatory	German	2017-05-26

Recommended prerequisites:

Flat-rate crediting of:

Special regulations:

Breakdown of the workload	Hours:
Presence:	60.0
Preparation and follow-up:	60.0
Project work:	0.0
Examination:	30.0
Total:	150

Fundamentals of business administration and economics

Learning objectives	Share
Professional skills	

Knowledge/Knowledge - Students know and understand the basic business issues, business administration as a theoretical and applied science as well as introduction to micro- and macroeconomics	50%
Skills - They acquire the skills to describe and analyse business management issues with the help of suitable methods, to develop practice-oriented solutions for business management problems, to analyse and evaluate economic problems and on the basis of a theoretical framework, Understand economic policy requirements	30%

Personal competences	
Social competence	20%
Independence - Through teamwork and teaching discussions, social skills such as the ability to discuss, active listening, etc. are to be promoted Through the independent analysis of facts, the setting of goals, scheduling etc. Independence is to be promoted	

Content:

1. 1. business administration basics 1.1 Subject and methods of business administration 1.2 Business administration as a science 1.3 Basic development phases of business administration
2. 2. economic fundamentals 2.1 Classification and areas of the Economics 2.2 Explanatory approaches and methods 2.3 Functioning of Economic systems 2.4 Real and monetary foreign trade structures

Form of examination:

Written exam (100%)

Fundamentals of business administration and economics

Compulsory literature:

Samuelson, P. & Nordhaus, W. (2010). *Economics.* München: miWirtschaftsbuch, Finanzbuch Verl..
Wöhe, G. & Döring, U. (2013). *Introduction to general business administration.* Munich: Vahlen.

Recommended literature:

Baßeler, U. & Heinrich, J. & Utecht, B. (2003). *Fundamentals and problems of economics.* Stuttgart: Schäffer-Poeschel.

Fundamentals of Information and Communication Technology (GIKT)

Module:	
Fundamentals of Information and Communication Technology (GIKT)	

Study programme:		Graduation:
Business Informatics		Bachelor of Science

Responsible for the module:		
Prof. Dr. rer. nat. Alexander Lübbe		

Semester:	Semester part-time:	Duration:
1	3	1

SWS:	of which V/Ü/L/P:	CP according to ECTS:
4.0	2.0/0.0/2.0/0.0	5.0

Type of course:	Language:	Status as of:
Mandatory	German	2019-08-28

Recommended prerequisites:	

Flat-rate crediting of:	

Special regulations:	

Breakdown of the workload	Hours:
Presence:	60.0
Preparation and follow-up:	88.0
Project work:	0.0
Examination:	2.0
Total:	150

Learning objectives	Share
Professional skills	

Fundamentals of Information and Communication Technology (GIKT)

Knowledge/Knowledge • Introduction to the history and basic concepts of computer science and business informatics • Basic knowledge of coding, exchange and processing of information in IT systems and networks (incl. network topologies and forms of transmission) • Introduction to computer architectures • Overview of standards for data storage, processing and transmission • Introduction to the types of operational application systems and enterprise architectures • Basics of information security and data protection • Spectrum of possible fields of work for business informatics specialists	50%
Skills • Students can explain and classify important terms in the IT environment • Students can understand coding and transmission of information • Students know computer architectures • Students the state and challenge of current corporate IT (incl. data protection) against the background of the job profile of a business informatics specialist. • Students can deepen their knowledge in sub-areas independently on the basis of the basic knowledge imparted	30%
Personal competences	
Social competence	20%
Independence • Identify technical contexts, independently research gaps in knowledge and understand and explain basic ICT systems, basic technologies and functions. • Develop problem solving strategies • Self-organisation, concentration, group work	

Content:

Fundamentals of Information and Communication Technology (GIKT)

1. Introduction to Business Informatics
2. Coding information
3. Hardware and computer architectures
4. Transmission of information
5. Structure and functioning of networks
6. Introduction to the modelling of information systems
7. Operational application systems and IT architectures in companies
8. Licences, operating models and and costs of IT systems
9. Information security and data protection

Form of examination:

Written exam

Compulsory literature:

Recommended literature:

Hansen, H. (2009). *Fundamentals and Applications [Wirtschaftsinformatik/1]*.

Mathematics I

Module:	
Mathematics I	

Study programme:	Graduation:
Business Informatics	Bachelor of Science

Responsible for the module:		
Dr. rer. nat. Gabriela Birgit Witte		

Semester:	Semester part-time:	Duration:
1	1	1

SWS:	of which V/Ü/L/P:	CP according to ECTS:
4.0	2.0/2.0/0.0/0.0	5.0

Type of course:	Language:	Status as of:
Mandatory	German	2019-08-20

Recommended prerequisites:
Confident application of basic calculation techniques, especially term transformations with Fractions, powers and roots at upper school level. It is recommended to attend a bridge course "Mathematics

Flat-rate crediting of:

Special regulations:

Breakdown of the workload	Hours:
Presence:	60.0
Preparation and follow-up:	88.0
Project work:	0.0
Examination:	2.0
Total:	150

Learning objectives	Share

Professional skills	
Knowledge/Knowledge • The students know the terms and methods of analysis that are important for studying business informatics and can explain them. • In this way, the students can present basic things such as sets and set operations. • They can distinguish different, also more complex (un)equation types from each other and assign corresponding solution methods. - The students are able to classify different types of sequences and sums in the context of mathematical and application-oriented problems. • You can classify common functions and explain their properties. • You have mastered the most important phrases and rules of differential calculus and can transfer the concepts to functions with two variables.	40%
Skills • The students can confidently handle common methods of analysis. They can recognise and formulate simpler economic questions in the field of analysis as mathematical problems, they can solve such problems and interpret the calculated results in a relevant manner. • Students are able to define and link quantities mathematically correctly. They can interpret relations geometrically in two- and three-dimensional space. • They can solve different types of equations and inequalities independently and verify the results. They can plan and carry out necessary case distinctions. • Students can evaluate (especially arithmetic and geometric) sequences and their partial sums also in the context of practical examples. • They can analyse and differentiate functions, Carry out curve discussions and solve extreme value problems. Students can form partial derivatives and calculate extrema of functions with two variables.	40%

Personal competences

Social competence	20%
- The students are able to actively participate in a group and to adequately communicate mathematical content in class discussions. They can discuss and solve tasks in a team. They can present their own results in front of the group and respond appropriately to follow-up questions.	
Independence	
- The students are able to set learning and working goals for themselves and to realise them. They are able to compare their own knowledge with the set learning goals and, if necessary, initiate necessary steps such as asking for learning guidance.	

Content:

1. Set theory: set operations, n - tuples and Cartesian products, relations
2. Equations and inequalities: Different methods for solving different types of equations such as zeros of polynomials, fractions, roots,
   Exponential and logarithmic equations, solving inequalities,
   Case distinctions for solving fraction inequalities and/or absolute (un)equations
3. Consequences and sums: Convergence concept, evaluation of summation formulae, properties of arithmetic and geometric sequences and sums as well as their practical application to typical problems.
4. Real-valued functions with one variable: Definition and forms of representation of Functions, basic properties such as continuity, symmetry, monotonicity, reversibility, overview of the specifics of basic functions, sectionally defined functions, visualisation of functions and their properties (using suitable software if necessary), examples for modelling economic relationships.
5. Differential calculus for real functions with one variable: Concept of the derivative, geometric and economic interpretations of the derivatives, differentiation rules, discussion of curves, extreme value problems.
6. Real-valued functions with two variables: Conceptualisation, partial derivatives, characterisation of local extrema

Mathematics I

Form of examination:
Written exam
Compulsory literature:
Recommended literature:
Ohse, D. (2004). *Analysis [Mathematics for economists/1st].* Munich: Vahlen. **Sydsæter, K. & Hammond, P. & Böker, F. (2013).** *Mathematics for economists.* München [u.a.]: Pearson. **Tietze, J.** (2014). *Introduction to applied business mathematics.* Wiesbaden: Springer Spektrum.

Software development I

Module:	
Software development I	

Study programme:	Graduation:
Business Informatics	Bachelor of Science

Responsible for the module:		
Prof. Dr.-Ing. Michael Hendrix		

Semester:	Semester part-time:	Duration:
1	1	1

SWS:	of which V/Ü/L/P:	CP according to ECTS:
4.0	2.0/0.0/2.0/0.0	5.0

Type of course:	Language:	Status as of:
Mandatory	German	2018-02-07

Recommended prerequisites:

Flat-rate crediting of:

Special regulations:

Breakdown of the workload	Hours:
Presence:	60.0
Preparation and follow-up:	88.0
Project work:	0.0
Examination:	2.0
Total:	150

Software development I

Learning objectives	Share

Professional skills	
Knowledge/Knowledge - The students know and understand the architecture of an object-oriented programming language using Java as an example, the basic programming techniques and the paradigms of object-oriented programming.	45%
Skills - Students are able to develop simple programmes, execute them and systematically search for syntactic or semantic errors. Furthermore, they are able to solve simple problems by breaking them down into even simpler sub-problems.	35%
Personal competences	
Social competence	20%
Independence - Students are able to actively participate in a group and adequately communicate software development content in class discussions. They can discuss and solve tasks in a team. They can present their own results to the group and respond appropriately to follow-up questions. The Students are able to analyse simple problems independently and to find appropriate approaches to solutions and to implement a concrete solution. They are also able to set their own learning and working goals and to realise them. They are able to compare their own knowledge with the set learning objectives and, if necessary, initiate necessary steps such as asking for learning guidance.	

Content:

1. 1. architecture and basic language elements 2. variables, constants and primitive data types 3. type compatibility and type conversion 4. operators and Expressions 5. data input and output 6. control structures 7. classes and objects 8. Object methods 9. inheritance and polymorphism 10. abstract classes and Interfaces

Form of examination:

  Written exam

Software development I

Compulsory literature:
Java is also an island. Rheinwerk Verlag.
Recommended literature:

Static internetworking

Module:	
Static internetworking	

Study programme:	Graduation:
Business Informatics	Bachelor of Science

Responsible for the module:
Bachelor of Science Daniel Schmohl-Linsenbarth

Semester:	Semester part-time:	Duration:
1	1	1

SWS:	of which V/Ü/L/P:	CP according to ECTS:
4.0	2.0/0.0/2.0/0.0	5.0

Type of course:	Language:	Status as of:
Mandatory	German	2017-05-30

Recommended prerequisites:

Flat-rate crediting of:

Special regulations:

Breakdown of the workload	Hours:
Presence:	60.0
Preparation and follow-up:	88.0
Project work:	0.0
Examination:	2.0
Total:	150

Static internetworking

Learning objectives	Share

Professional skills	
Knowledge/Knowledge - Students know and understand the basic services and functions of the Internet. They develop knowledge regarding the methods and basic techniques for generating WEB pages and their standards. They acquire knowledge of the design basics as well as the legal framework.	40%
Skills - The students acquire the skills to independently create simple, but design and technically professional WEB pages completely. They learn to use common tools and to familiarise themselves with advanced techniques.	40%
Personal competences	
Social competence	20%

Independence
  - The students practise designing solutions in small groups and realising them together. Based on concrete
    The students develop tasks independently
     The students are encouraged to find solutions and work independently.	

Static internetworking

Content:

1. Definitions and explanations of terms
2. Structure and services of the internet
3. Standards on the web
4. HTML 5, XHTML5
5. CSS properties
6. JavaScript and XML
7. Basics of typography, function of colours and fonts
8. Integration of multimedia elements
9. HTML editor, code validator, link checker, graphics SW, FTP client
10. Publication
11. Internet law
12. Web security

Form of examination:

Written exam (50%)
Project work (50%)

Additional regulations:
Computerised

Compulsory literature:

Kröner, P. (2011). *HTML5*. Munich: Open Source Press.
Münz, S. & Gull, C. (2010). *HTML5 handbook*. Poing: Franzis.
Vonhoegen, H. (2015). *Getting Started with XML: Basics, Practice, Reference*. Rheinwerk Computing.
Förster, K. (2011). *HTML5 - Guide for web developers*. Munich: Addison-Wesley Verlag.

Recommended literature:

Operating systems

Module:
Operating systems

Study programme: Business Informatics		Graduation: Bachelor of Science
Responsible for the module: Prof. Dr. rer. pol. Christian Müller		
Semester: 2	**Semester part-time:** 2	**Duration:** 1
SWS: 4.0	**of which V/Ü/L/P:** 2.0/0.0/2.0/0.0	**CP according to ECTS:** 5.0
Type of course: Mandatory	**Language:** German	**Status as of:** 2017-05-26
Compulsory Prerequisites: Software Development 1		
Recommended prerequisites:		
Flat-rate crediting of:		
Special regulations:		

Breakdown of the workload	Hours:
Presence:	60.0
Preparation and follow-up:	20.0
Project work:	65.0
Examination:	5.0
Total:	150

Operating systems

Learning objectives	Share
Professional skills	

Knowledge/Knowledge • Acquisition of general technical theoretical knowledge about the tasks and types of operating systems • Acquire general technical theoretical knowledge about the differences of operating systems • Acquisition of general theoretical knowledge about the tasks of an operating system API • Acquire broad integrated knowledge on the use of operating system functionalities in Java.	20%
Skills - Acquisition of a very broad range of methods for the use of Operating system functionalities for the creation of complex Java applications	60%
Personal competences	
Social competence - Promoting teamwork and communication skills, as the vouchers are created in a team.	20%
Independence - Promotion of independence and learning competence, as students have to acquire detailed knowledge independently.	

Content:

1. Tasks and types of operating systems
2. Comparison of the architecture of different operating systems with regard to file system, process system and network services
3. Tasks of an operating system API
4. Use of the operating system functionalities from Java
5. Creation of a complex Java application in which the operating system functionalities regarding file system, process system and network services are used.

Form of examination:

Project work (100%)

Operating systems

Compulsory literature:

Bovet, D. & Cesati, M. (2003). *Understanding the Linux kernel.* Beijing [et al.]: O'Reilly.

Davis, W. & Rajkumar, T. (2001). *Operating systems.* Boston [u.a.]: Addison Wesley.

Quade, J. & Kunst, E. (2004). *Developing Linux drivers.* Heidelberg: dpunkt-Verl..

Stallings, W. (2003). *Operating systems.* Munich: Pearson Studium.

Tanenbaum, A. (2003). *Computer networks.* München [u.a.]: Pearson Studium.

Tanenbaum, A. (2009). *Modern operating systems.* Munich [et al.]: Pearson Studium.

M. Deitel, H. & J. Deitel, P. & R. Choffnes, D. (2004). *Operating Systems.* Pearson.

Maurice J. Bach, UNIX - How does the operating system work, Hanser 1991

Rochkind, M. (1988). *UNIX programming for advanced users.* Munich et al: Hanser et al.

Stevens, W. (1992). *Programming UNIX networks.* Munich: Hanser [u.a.].

Recommended literature:

Module: Databases	
Study programme: Business Informatics	**Graduation:** Bachelor of Science
Responsible for the module: Prof. Dr.-Ing. Stefan Kubica	

Semester: 2	**Semester part-time:** 4	**Duration:** 1
SWS: 4.0	**of which V/Ü/L/P:** 2.0/0.0/2.0/0.0	**CP according to ECTS:** 5.0
Type of course: Mandatory	**Language:** German	**Status as of:** 2018-02-13

Recommended prerequisites: Dealing with PCs: logging in, opening/starting programmes, Office programmes (file system, structure). Basics of (business) informatics

Flat-rate crediting of:

Special regulations:

Breakdown of the workload	Hours:
Presence:	60.0
Preparation and follow-up:	88.0
Project work:	0.0
Examination:	2.0
Total:	150

Learning objectives	Share

Databases

Professional skills	
Knowledge/Knowledge - Students are able to explain differences/advantages and disadvantages between conventional file systems and database systems. With a focus on data processing using databases, the aspects of data security, data consistency and data integrity, the most important commands of standard SQL are learned and applied in data modelling. Additional database tools (e.g. sqldeveloper or similar) serve as tools.	40%
Skills - The students are able to independently develop a data model (ERM) from simple facts (practice-relevant, business aspect) and to convert this from the ERM into a relational data model by using standard SQL.	40%
Personal competences	

Social competence
  - Exchange with fellow students to develop approaches for the Data modelling: Students are able to actively participate in a group and in class discussion
          communicate database content adequately. You can discuss and solve tasks in a team. They can present their own results to the group and react appropriately to questions. In addition, working in a group (conception, planning, implementation) is promoted within the framework of the exam-relevant project work (database-oriented online game).
	20%

Independence - The students are able to set learning and working goals for themselves and to realise them. They can compare their own knowledge with the set learning objectives and, if necessary, initiate necessary steps such as seeking learning guidance. The development of the Project work is done independently in groups. Students learn to pursue and implement (partial) goals they have set themselves.	

Content:

1. Differences/advantages and disadvantages between file system and database system
2. Design/structure of database system, database management system and database
3. Data modelling with the Entity Relationship Model (ERM)/logical design
4. Relational data model, components/structure
5. Normal forms and normalisation
6. Data integrity, data consistency
7. Design of conceptual data models
8. Learning the most important standard SQL commands
9. Apply standard SQL: creation of relational data models, data definition, Data manipulation, data queries (queries/subqueries), constraints, views, transactions, hierarchical structures, sets, operators, functions
10. Use of DB tools (e.g. server/client applications from Microsoft)

Form of examination:

Written exam (0%)
Project work (100%)

Additional regulations:
Written examination must be passed. Project work (database game in group work) is graded.

Compulsory literature:

Elmasri, R. & Navathe, S. (2002). *Fundamentals of database systems.* Munich: Pearson Studium.

Recommended literature:

Business Process Management

Module:	
Business Process Management	

Study programme:	Graduation:
Business Informatics	Bachelor of Science

Responsible for the module:		
Prof. Dr. rer. nat. Alexander Lübbe		

Semester:	Semester part-time:	Duration:
2	4	1

SWS:	of which V/Ü/L/P:	CP according to ECTS:
4.0	2.0/2.0/0.0/0.0	5.0

Type of course:	Language:	Status as of:
Mandatory	German	2019-07-03

Recommended prerequisites:	
Basics of software development	

Flat-rate crediting of:	

Special regulations:	

Breakdown of the workload	Hours:
Presence:	60.0
Preparation and follow-up:	88.0
Project work:	0.0
Examination:	2.0
Total:	150

Business Process Management

Learning objectives	Share

Professional skills	
Knowledge/Knowledge • The students get an overview of the Application areas of process management including the terminology, the requirements of process management in an organisation and the possibilities of modelling, automation, analysis and optimisation. • Students acquire the competence to model and automate business processes.	40%
Skills • Students learn to record and present facts in processes themselves and to identify IT-relevant issues. • Students learn about and use systems for modelling and process automation.	40%
Personal competences	
Social competence • In laboratory exercises, students solve modelling and automation tasks in small teams. • In the evaluation of laboratory exercises students get insight into alternative solutions and give constructive feedback	20%
Independence - Exercises are completed independently or in small teams of a maximum of 3 people.	

Content:

1. Definitions, terms and market overview
2. Process maps and process architectures
3. Modelling business processes with BPMN2.0
4. Alternative approaches for process-oriented modelling (EPK, CMMN, DMN)
5. Tools for process modelling and process automation
6. Methods of business process analysis and optimisation
7. Process controlling and key figure systems
8. Process mining

Business Process Management

Form of examination:
Written exam
Compulsory literature:
Recommended literature:
Business Process Management: Concepts, Languages, Architectures (Weske) Fundamentals of Business Process Management (Dumas, La Rosa, Mendling, Reijers) Praxishandbuch BPMN (Freund, Rücker) BPM Toolmarktmonitore (Lübbe et. al.) www.bpmn.org

Module:	
Mathematics II	

Study programme:	Graduation:
Business Informatics	Bachelor of Science

Responsible for the module:		
Dr. rer. nat. Gabriela Birgit Witte		

Semester:	Semester part-time:	Duration:
2	2	1

SWS:	of which V/Ü/L/P:	CP according to ECTS:
4.0	2.0/2.0/0.0/0.0	5.0

Type of course:	Language:	Status as of:
Mandatory	German	2019-08-20

Recommended prerequisites:
Contents of the module Mathematics I

Flat-rate crediting of:

Special regulations:

Breakdown of the workload	Hours:
Presence:	60.0
Preparation and follow-up:	88.0
Project work:	0.0
Examination:	2.0
Total:	150

Learning objectives	Share
Professional skills	

Knowledge/Knowledge • Students will be able to apply the basic methods of descriptive Explain statistics in context. They know, among other things, the criteria to classify characteristics and to present data meaningfully in tables and graphs. They can explain the different position and They can compare scattering parameters and give the corresponding calculation formulas. They can explain the difference between univariate and bivariate questions and understand the principles of regression and correlation calculation. • Furthermore, the students know and understand central methods of linear algebra, in particular vector and matrix calculus as well as the Gauss algorithm for solving linear systems of equations.	40%
Skills • Students can critically read and question statistics produced by others, present data appropriately and select, calculate and interpret suitable parameters in a well-founded manner, as well as Calculate and evaluate regression lines and discuss and interpret them in connection with the correlation coefficient. • Furthermore, the students can apply the above-mentioned knowledge from linear algebra mathematically correctly. They can model and solve selected business management problems and interpret the calculated results.	40%
Personal competences	
Social competence - The students are able to actively participate in a group and to communicate module contents mathematically correctly in class discussions. They can discuss, structure and solve tasks in a team. They can present their own results to the group, justify solutions and react appropriately to questions.	20%
Independence - The students are able to set their own learning and working goals and to realise them on their own responsibility. They are able to compare their own knowledge with the learning objectives set and, if necessary, to initiate the necessary steps. They can research content independently and acquire specialised knowledge from different sources.	

Content:

Mathematics II

1. Statistics (1.1 Introduction: Typical questions, distinction between descriptive/inductive statistics, population, samples; 1.2 Basic concepts of descriptive statistics: Features and feature carriers, classification of features; 1.3 Preparation of Data: Urlists, absolute and relative frequencies, tables without/with class formation, Standard charts; 1.4 Key figures: Location and dispersion parameters; 1.5 Bivariates Statistics: linear regression and correlation calculation, outlook on non-linear regression calculation)

2. Linear algebra (2.1 Vectors: vector operations, scalar product and its Applications, linear combinations, linear dependence and independence, basis, geometric and economic interpretations; 2.2 Matrices: Matrix operations, application examples from input-output calculation, rank and inverse of a matrix; 2.3 Linear systems of equations: solution cases, dimension of the solution set, Gaussian-Algorithm)

Form of examination:

Written exam

Compulsory literature:

Recommended literature:

Bamberg, G. & Baur, F. & Krapp, M. (2008). *Statistics workbook.* Munich [et al:] Oldenbourg.
Eckstein, P. (2013). *Repetitorium statistics.* Wiesbaden: Springer Gabler.
Schira, J. (2009). *Statistical Methods in Economics and Business Administration.* Munich [et al.]: Pearson Studium.
Schwarze, J. (2009). *Beschreibende Verfahren [Grundlagen der Statistik/1].*
Ohse, D. (2005). *Linear economic algebra [Mathematics for economists/2].* **Sydsæter, K. & Hammond, P. (**2009). *Mathematics for economists.* Munich [et al.]: Pearson.
Tietze, J. (2014). *Introduction to applied business mathematics.* Wiesbaden: Springer Spektrum.

Project Planning and Management (PPPM)

Module: Project Planning and Management (PPPM)	

Study programme: Business Informatics	**Graduation:** Bachelor of Science

Responsible for the module: Prof. Dr.-Ing. Stefan Kubica	

Semester: 2	**Semester part-time:** 4	**Duration:** 1
SWS: 4.0	**of which V/Ü/L/P:** 2.0/2.0/0.0/0.0	**CP according to ECTS:** 5.0
Type of course: Mandatory	**Language:** German	**Status as of:** 2017-05-26

Recommended prerequisites: Basics of information and communication technology	

Flat-rate crediting of:	

Special regulations:	

Breakdown of the workload	Hours:
Presence:	60.0
Preparation and follow-up:	88.0
Project work:	0.0
Examination:	2.0
Total:	150

Learning objectives	Share
Professional skills	

Project Planning and Management (PPPM)

Knowledge/Knowledge
  - - Basics and methods of project planning and
    Project management with focus on Org/IT projects - Basics of change
    management - Characteristics and typical technical and economic
    process variants of projects - Basics of agile methods
	40%

Skills
  - Ability to assist the project manager with project planning and
    Project management and understanding its tasks -
      Ability to use practical examples to illustrate individual steps and
    Develop and test decisions independently and create project plans for
    smaller projects or sub-projects independently.
	40%

Personal competences	

Social competence
  - Students can assess tasks and responsibilities as well as required skills of
    the different roles.
	20%

Independence
  - Students are able to assess tasks and responsibilities as well as required
    skills of the different roles - They are able to assess a project task and
    process it appropriately and systematically.	

Content:

Project Planning and Management (PPPM)

1. Basic terms project and project management
2. Tasks of the project management
3. Project team, project manager, client, project organisation
4. Tasks and methods of project management
5. Elements and methods and tools of project planning
6. Project documentation
7. Project phases
8. Project implementation
9. Completion, acceptance, warranty, post-calculation
10. Contract design
11. Estimation of the effort
12. Change Request, Plan Changes, Settlement
13. Approach, roles and artefacts of agile methods, esp. Scrum

Form of examination:

Written exam + voucher (0%)

Additional regulations:
  Written exam + voucher (50% + 50%)

Project Planning and Management (PPPM)

Compulsory literature:
- DIN 69900 Project Management.   - Managing Successful Projects with PRINCE2® (OGC) ISBN: 9780113312146   **Grau, N. & Wagner, R.** *Basiswissen Projektmanagement - Führung im Projekt.* GPMFachpublikation.   **H.R. Hansen, G.** (2009). *Information systems.* Lucius & Lucius.   **Kupper, H.** (2000). *On the art of project management.* Oldenbourg.   **Litke, H. & Kunow, I. & Schulz-Wimmer, H. (2012).** *Project management.* Munich: Haufe.   **Schwarze, J.** (2010). *Project management with network planning.* Herne: Verl. Neue Wirtschafts-Briefe.   **Steinbuch, P.** (1998). *Project organisation and project management.* Ludwigshafen (Rhine): Kiehl.   **Wischnewski, E.** (2001). *Modern Project Management.* Braunschweig [u.a.]: Vieweg.
Recommended literature:

Software development II

Module:
Software development II

Study programme:	Graduation:
Business Informatics	Bachelor of Science

Responsible for the module:
Prof. Dr.-Ing. Michael Hendrix

Semester:	Semester part-time:	Duration:
2	2	1

SWS:	of which V/Ü/L/P:	CP according to ECTS:
4.0	2.0/0.0/2.0/0.0	5.0

Type of course:	Language:	Status as of:
Mandatory	German	2018-02-07

Recommended prerequisites:
Software Development I

Flat-rate crediting of:

Special regulations:

Breakdown of the workload	Hours:
Presence:	60.0
Preparation and follow-up:	88.0
Project work:	0.0
Examination:	2.0
Total:	150

Learning objectives		Share
Professional skills		

Knowledge/Knowledge
 - Students know and understand advanced
   Programming techniques as well as the basic data structures and
   algorithms and their complexity.
	45%

Software development II

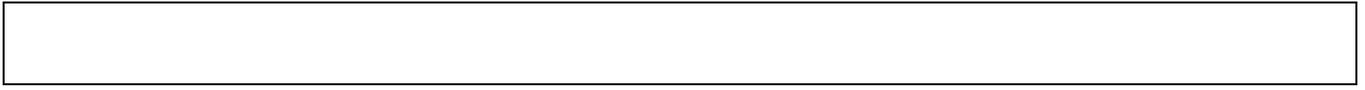| Skills - Students are able to develop and execute more complex programmes in Java, implement basic algorithms and classify them according to their complexity. Furthermore, they are able to solve complex problems by breaking them down into simpler sub-problems.	35%
Personal competences	
Social competence	20%
Independence - Students are able to actively participate in a group and adequately communicate software development content in class discussions. They can discuss and solve tasks in a team. They can present their own results to the group and respond appropriately to follow-up questions. The students are able to independently analyse even complex problems and to find appropriate approaches to solutions and to implement a concrete solution. Furthermore, they are able to set their own learning and working goals and to realise them. They are able to compare their own knowledge with the set learning objectives and, if necessary, initiate necessary steps such as Ask for learning guidance.	

Content:
Form of examination:
Written exam
Compulsory literature:
Ullenboom, C. *Java is also an island*. Rheinwerk Verlag.
Recommended literature:

Business Intelligence (BI)

Module:	
Business Intelligence (BI)	

Study programme:	Graduation:
Business Informatics	Bachelor of Science

Responsible for the module:
Prof. Dr.-Ing. Stefan Kubica

Semester:	Semester part-time:	Duration:
3	5	1

SWS:	of which V/Ü/L/P:	CP according to ECTS:
4.0	2.0/0.0/2.0/0.0	5.0

Type of course:	Language:	Status as of:
Mandatory	German	2017-05-16

Recommended prerequisites:
Basics of database systems, data processing, standard SQL

Flat-rate crediting of:

Special regulations:

Breakdown of the workload	Hours:
Presence:	60.0
Preparation and follow-up:	88.0
Project work:	0.0
Examination:	2.0
Total:	150

Learning objectives	Share
Professional skills	

Business Intelligence (BI)

Knowledge/Knowledge - Students are aware of the possibilities and limitations of Business Intelligence as an instrument to support corporate decision-making. You will learn the basic structures and approaches of various management and executive information systems (MSS, MIS, DSS, EIS, ESS) and know the backgrounds and needs that lead to the Further development of these approaches led to the approach known today as Business Intelligence. As an important component, the topic of data warehousing is taught in initial approaches and the later separate lecture on this topic is prepared. The focus is placed on imparting knowledge from the perspective of the operational user in the form of interactive reports, dashboards and control methods, such as balanced scorecards.	40%
Skills - The students are enabled to conceptually prepare a set of heterogeneous data (operational business data from Enterprise Resource Planning (ERP), historical data, market data, ...) in such a way that entrepreneurial questions can be answered. Furthermore, the first standard tool solutions for managing and interactively evaluating heterogeneous data are applied and learned in exercises. The skills acquired also include the ability to Application of the balanced scorecard approach with a focus on providing the necessary key figures and presenting them in appropriate dashboards with suitable software tools.	40%
Personal competences	
Social competence - Social skills (communication, ability to work in a team, ...) are strengthened through work in groups as well as presentations on defined milestones.	20%
Independence - The theoretical knowledge acquired is applied during the exercises. The project work (part of the examination performance) is independently designed, planned and implemented within the group.	

Content:

1. Overview and history of Business Intelligence (Management Information Systems, Decision Support Systems, Executive Information Systems, Data Warehouse/-Mining, Business Performance Management)

2. Business Intelligence Framework (architecture, tools, application examples)

3. Fundamentals of decision support systems in theory and practice

4. Basics Data Mining & Forecasting

5. Focus on interactive reporting (reports, dashboards, cockpits, interactive reports)

6. Balanced Scorecards (Vision, Strategy Map, Key Performance Indicators, Measures, analysis and adaptation) with exercise and example from practice

Form of examination:

Project work

Additional regulations:
   The project work consists of a group work (implementation of a Balanced Scorecard in a virtual company)

Compulsory literature:

Recommended literature:

Azevedo, P. & Brosius, G. & Dehnert, S. & Neumann, B. (2009). *Business Intelligence and Reporting with Microsoft SQL Server 2008.* Microsoft.
Kaplan, R. & Norton, D. (1997). *Balanced scorecard*. Stuttgart: Schäffer-Poeschel.
Giessen, S. (2015). *PowerPivot: Getting Started with PowerPivot for Microsoft Excel 2013*. CreateSpace Independent Publishing Platform.

Module: Dynamic internetworking	
Study programme: Business Informatics	**Graduation:** Bachelor of Science
Responsible for the module: Prof. Dr. rer. pol. Christian Müller	

Semester: 3	**Semester part-time:** 5	**Duration:** 1
SWS: 4.0	**of which V/Ü/L/P:** 2.0/0.0/2.0/0.0	**CP according to ECTS:** 5.0
Type of course: Mandatory	**Language:** German	**Status as of:** 2017-05-26

Compulsory Prerequisites: Static Internetworking, Software Development I + II, Operating Systems	
Recommended prerequisites:	
Flat-rate crediting of:	
Special regulations:	

Breakdown of the workload	**Hours:**
Presence:	60.0
Preparation and follow-up:	20.0
Project work:	65.0
Examination:	5.0
Total:	150

Dynamic internetworking

Learning objectives	Share
Professional skills	
Knowledge/Knowledge • Acquire general technical theoretical knowledge about Network basics. Acquire general technical theoretical knowledge about J2EE Acquire integrated technical theoretical knowledge about the model, view and controller concept. Acquire general technical knowledge about the basics and architecture of servlet applications. Acquire general technical theoretical knowledge about JSP and similar frameworksAcquire integrated technical theoretical knowledge about XML technologies. • Acquire general technical theoretical knowledge about J2EE • Acquire integrated theoretical knowledge about the model, view and controller concept. • Acquire general theoretical knowledge about the fundamentals and architecture of servlet applications. • Acquire general technical theoretical knowledge about JSP and similar frameworks • Acquire integrated technical theoretical knowledge about XML technologies	30%
Skills - Acquisition of a very broad range of methods for creating J2EE-based web applications	50%
Personal competences	
Social competence - Promoting teamwork and communication skills, as the vouchers are created in a team.	20%
Independence - Promotion of independence and learning competence, as students have to acquire detailed knowledge independently.	

Content:

1. Network basics (TCP, HTTP)
2. Overview J2EE
3. Model, View, Controller
4. Servlet, basics and architecture
5. JSP
6. XML family
7. Creating a complex dynamic web application based on J2EE

Form of examination:

Project work (100%)

Compulsory literature:

Pawson, D. (2002). *XSL-FO*. Beijing [et al.]: O?eilly.
Krüger, G. (2006). *Handbook of Java Programming*. München [u.a.]: Addison-Wesley.
Van der Vlist, E. (2002). *XML Schema*. Beijing [et al.]: O'Reilly.
Bergsten, H. (2001). *JavaServer pages*. Beijing [et al.]: O'Reilly.
Musciano, C. & Kennedy, B. (2000). *HTML and XHTML*. Beijing [et al.]: O'Reilly.
Hunter, J. & Crawford, W. (2001). *Java servlet programming*. Beijing [et al.]: O'Reilly.
Tidwell, D. (2002). *XSLT*. Beijing [et al.]: O'Reilly.
Deitsch, A. & Czarnecki, D. (2001). *Java internationalization*. Beijing ; Cambridge ; Farnham ; Köln ;: O'Reilly.
Balzert, H. (2005). *Object-oriented programming with java 5*. Elsevier.

Recommended literature:

Operations Research

Module: Operations Research	

Study programme: Business Informatics	**Graduation:** Bachelor of Science

Responsible for the module: Prof. Dr. rer. pol. Christian Müller & Prof. Dr. rer. pol. Mike Steglich	

Semester: 3	**Semester part-time:** 5	**Duration:** 1

SWS: 4.0	**of which V/Ü/L/P:** 2.0/0.0/2.0/0.0	**CP according to ECTS:** 5.0

Type of course: Mandatory	**Language:** German	**Status as of:** 2017-05-26

Compulsory Prerequisites: Mathematics 2

Recommended prerequisites: Accounting

Flat-rate crediting of:

Special regulations:

Breakdown of the workload	Hours:
Presence:	60.0
Preparation and follow-up:	60.0
Project work:	0.0
Examination:	30.0
Total:	150

Operations Research

Learning objectives	Share
Professional skills	
Knowledge/Knowledge • Acquire general technical theoretical knowledge about the simplex method for solving LPs and thus broaden mathematical knowledge. • Acquire general technical theoretical knowledge about graphical solution methods for solving LP's. • Acquisition of general technical-theoretical knowledge about the business interpretation of the solution procedures and thus deepening of the business knowledge. • Acquire general technical theoretical knowledge of sensitivity analysis methods. Acquire broad integrated knowledge for modelling diverse case studies.	30%
Skills • The students can solve LPs independently using the simplex tableau method. • Students have a very wide range of methods to model practical planning tasks as LP and to solve them with modelling tools	60%
Personal competences	
Social competence - When working on the exercises, the better students support and guide the weaker ones.	10%
Independence - In order to complete the exercises, the students have to plan their work processes.	
Content:	
1. The simplex method for solving LP's 2. Graphical interpretation of the solution procedure 3. Business interpretation of the calculated solutions 4. Sensitivity analysis and its business interpretation 5. Working on simple case studies with modelling tools	

Operations Research

Form of examination:
Written exam
Compulsory literature:
Suhl, L. & Mellouli, T. (2006). *Optimisation systems.* Berlin [u.a.]: Springer. **Domschke, W. & Drexl, A. (**2011). *Introduction to operations research.* Heidelberg [et al:] Springer. **Domschke, W.** (2007). *Exercises and case studies in operations research.* Berlin [et al:] Springer. **Ellinger, T. & Beuermann, G. & Leisten, R. (2001).** *Operations research.* Berlin [u.a.]: Springer. **Bronson, R. & Naadimuthu, G. (**1997). *Schaum's outline of theory and problems of operations research.* New York, N.Y. u.a.: McGraw-Hill.
Recommended literature:

Module:	
Law	

Study programme:	Graduation:
Business Informatics	Bachelor of Science

Responsible for the module:		
Prof. Dr. jur. Stefan Strassner		

Semester:	Semester part-time:	Duration:
3	9	1

SWS:	of which V/Ü/L/P:	CP according to ECTS:
4.0	2.0/2.0/0.0/0.0	5.0

Type of course:	Language:	Status as of:
Mandatory	German	2017-05-26

Recommended prerequisites:

Flat-rate crediting of:

Special regulations:

Breakdown of the workload	Hours:
Presence:	60.0
Preparation and follow-up:	88.0
Project work:	0.0
Examination:	2.0
Total:	150

Learning objectives	Share
Professional skills	

Knowledge/Knowledge - The students have basic theoretical knowledge in the field of information technology law. In particular, the basic features of data protection law including encryption and signature concepts are taught. Basic terminology and concepts of provider contracts (online mobile business) and intellectual property law are also acquired.	25%
Skills - Students have experience in dealing with information technology law, decision and contract texts. They can understand and explain the elements in online mobile business. They are able to assess and apply the requirements and technical implementations within the framework of data protection law.	25%

Personal competences

Social competence	50%
Independence - Students will be able to assess contractual conditions and, if necessary, negotiate them in such a way that the typical rights and obligations in the field of information technologies are appropriately distributed and risks are not unilaterally imposed on one party to the contract. The students can independently recognise important and practice-relevant legal problems and sufficiently assess the risk potential associated with them.	

Content:

1 The content is oriented towards fundamental, practice-relevant legal issues from the area of special theoretical knowledge provided for by the Specialist Lawyers' Regulations for the specialisation "Information Technology Law". Accordingly, the following topics are addressed in a way that is comprehensible to non-lawyers and are partly dealt with in depth: - Contract law of information technologies, including the drafting of individual contracts and general

General terms and conditions (AGB) - Law of electronic commerce, including the drafting of provider contracts and terms and conditions of use (online mobile business) Copyright law in the field of information technologies with references to the Labelling law, in particular "domain law". - Law of data protection and security of information technologies including encryption and electronic signatures - Main features of civil law liability for damages in the

Area of information technologies - Basic features of criminal law

Accountability in the area of information technologies

Form of examination:

Written exam

Compulsory literature:

IT and computer law, 10th edition 2012, Beck -Texte im dtv
THW/Digital Library: Beck -Online: IT and Multimedia Law PLUS with commentaries,
Handbooks, formu lar books and journals on information technology law

Recommended literature:

Module:		
Software Engineering		

Study programme:		Graduation:
Business Informatics		Bachelor of Science

Responsible for the module:		
Dipl.-Wirtsch.infor. (FH) Peter Bernhardt		

Semester:	Semester part-time:	Duration:
3	7	1

SWS:	of which V/Ü/L/P:	CP according to ECTS:
4.0	2.0/0.0/2.0/0.0	5.0

Type of course:	Language:	Status as of:
Mandatory	German	2019-07-09

Recommended prerequisites:
Basics of software development, business process management

Flat-rate crediting of:

Special regulations:

Breakdown of the workload	Hours:
Presence:	60.0
Preparation and follow-up:	60.0
Project work:	28.0
Examination:	2.0
Total:	150

Software Engineering

Learning objectives	Share

Professional skills	

Knowledge/Knowledge
 - The students experience the challenges associated with the conception of a
    application system problems that arise. You develop
    Knowledge, functional and quality requirements for
    Differentiate application systems from the user's and developer's point of view. You will learn basic concepts and modelling methods of the
    software development process in a structured and detailed manner.
	40%

Skills
 - The students learn to apply the acquired knowledge to realistic problems
    and tasks. They learn to apply selected classical and modern
    development concepts and methods and to present their results in writing
    within the framework of a project work.
	40%

Personal competences	
Social competence	20%

Independence
 - Students learn independently in small groups
    to analyse problems, to design solutions and to describe them together
    as well as to evaluate them self-critically.	

Content:

1. What is Software Engineering? - Introduction
2. Process Modelling & Risk Management
3. Process models - classical and agile methods
4. Requirements analysis - stakeholders, goals, requirements, specifications and requirements documents
5. Rough design - system architecture etc.
6. Implementation aspects - frameworks, persistence, distribution
7. Quality assurance - correctness, unit tests, metrics 8. Optimisation of the design model - software design, patterns
9. Interface design - usability etc.
10. Software development environment - version management, effort estimation

Software Engineering

Form of examination:
Written exam (50%)   Project work (50%)

Compulsory literature:
Kleuker, S. (2018). *Basic course in software engineering with UML*. Wiesbaden: Springer Vieweg.

Recommended literature:
Balzert, H. (2011). *Textbook of object modelling*. Heidelberg: Spektrum, Akad. Verl.. *Requirements Engineering", 3rd edition*. Heidelberg: Spektrum Akademischer Verlag.   **Balzert, H.** (1999). *Textbook Grundlagen der Informatik*. Heidelberg [u.a.]: Spektrum Akad. Verl..   **Bleek, W. & Wolf, H. (**2011). *Agile software development*. Heidelberg: dpunkt.verlag.   **Schatten, A. & Östreicher, T. & Gostischa-Franta, E. & Biffl, S. & Winkler, D. & Demolsky, M. (2010).** *Best Practice Software Engineering*. Heidelberg: Spektrum Akademischer Verlag.

Intercultural Management (Soft Skill)

Module:	
Intercultural Management (Soft Skill)	

Study programme:	Graduation:
Business Informatics	Bachelor of Science

Responsible for the module:	
Prof. Dr. rer. pol. Christian Müller	

Semester:	Semester part-time:	Duration:
3	7	1

SWS:	of which V/Ü/L/P:	CP according to ECTS:
4.0	2.0/2.0/0.0/0.0	5.0

Type of course:	Language:	Status as of:
Elective	German	2019-04-15

Recommended prerequisites:

Flat-rate crediting of:

Special regulations:

Breakdown of the workload	Hours:
Presence:	60.0
Preparation and follow-up:	60.0
Project work:	0.0
Examination:	30.0
Total:	150

Intercultural Management (Soft Skill)

Learning objectives	Share

Professional skills	
Knowledge/Knowledge • The ability to act interculturally has become a key competence. In order to be able to act successfully (as a leader), it is necessary to be able to conduct dialogues in social contexts characterised by heterogeneity (i.e. in mixed cultural, cross-border or foreign contexts), to negotiate processes and conflicts together and to work with each other in a results-oriented manner. • The aim of the course is to impart basic knowledge on dealing and working under different cultural conditions, to sensitise for cultural differences and their consequences for intercultural communication and cooperation and thus to broaden your scope of action in intercultural situations.	20%
Skills • Students know and understand: • the central elements of different cultures and are able to distinguish the different types and dimensions of a culture according to Trompenaars, Hall, Hofstede, Thomas. • the goals, requirements, characteristics of intercultural competence. • introductory terms and concepts of intercultural management. • theoretical models of intercultural interaction and learn appropriate communication strategies • Students will be able to assess the risks arising from socio-cultural Identify divergences for international business activities and master tools and approaches to problem solving in this area.	50%

Intercultural Management (Soft Skill)

Personal competences

Technische
Hochschule
Wildau
Technical University
of Applied Sciences
W I L D A U

Social competence - Students should: • be sensitised to the complexity of an intercultural business environment and learn strategies for acting in such environments. • develop intercultural management competences and learn to appropriately consider cultural influences on leadership styles (GLOBE), company goals and company structures (leadership competence). • train their abilities to analyse intercultural situations, to grasp and recognise cultural influences, to reflect on their own behaviour, to avoid misunderstandings and to independently develop solution strategies for culture-related conflicts (problem-solving competence).	30%
Independence • The students • recognise their own cultural imprint and, against this background, can achieve the strengthening of their own intercultural competence, the successful design of intercultural encounters and the targeted application of intercultural communication.	

Intercultural Management (Soft Skill)

Content:

1. Basic concepts of culture in the context of interculturality
2. Culture and cultural difference
3. Cultural dimensions and cultural standards
4. Confrontation with the Other
5. The foreign and the own, multi-, inter-, transculturality
6. Prejudices, stereotyping, ethnocentrism, dealing with self-images and images of others
7. Intercultural communication
8. Know theoretical models of intercultural interaction and be able to apply them practically
9. Global leadership models
10. Management of intercultural overlap situations (differences in leadership, communication and work behaviour)
11. What does (my) interculturally competent leadership style look like?
12. Leadership and conflicts in internationally staffed teams (tapping and utilising intercultural resources in international teams)
13. perceive intercultural differences in the workplace using selected country examples and deal with them constructively, especially in negotiations, conflict situations, problem solving, etc.
14. Preparation for possible work-related stays abroad, culture shock, reintegration problems
15. Interculturality in multinational organisations

Form of examination:

The concrete examination modalities can be found in the examination scheme, which will be provided by the lecturer within the first two weeks of the lecture. (100%)

Additional regulations:
Preparation and presentation of a paper on one of the topics of the course.

Intercultural Management (Soft Skill)

Compulsory literature:

Recommended literature:

Berger, M. (Hrsg.) (1996) Cross-cultural team building: Guidelines for more effective communication and negotiation. London: McGraw-Hill

Bolten, J. (2007): Einführung in die interkulturelle Wirtschaftskommunikation. Vandenhoeck & Ruprecht, Göttingen

Engelen, A. , Tholen, E. (2014): Interkulturelles Management. Schäffer Poeschel, Stuttgart

Modules:		
Job Applications (Soft Skill)		

Degree programme:		Degree:
Business Informatics		Bachelor of Science

Responsible for the module:		
M.A. John Paul O Donoghue		

Semester:	Semester part time:	Duration:
3	7	1

Hours per week per semester:	Of which L/S/LW/P:	CP according to ECTS:
4.0	2.0/2.0/0.0/0.0	5.0

Form of course:	Language:	As of:
Elective	English	2017-06-14

Recommended prior knowledge:		

Recognition of external relevant qualification/experience:		

Special regulations:		

Workload distribution	Hours:
In class:	60.0
Pre- and post-course work:	60.0
Project:	28.0
Examinations:	2.0
Total:	150

Learning objectives	Share

Job Applications (Soft Skill)

Subject specific competences	
Knowledge - Students become familiar with the principles, structure and style of AngloAmerican CVs and Covering Letters. They learn how to structure answers to general and specific interview questions.	30%
Skills - The students learn how to structure an effective and impressive CV and Covering Letter. They learn how to analyse and interpret a Job Advert and formulate their CV/Letter accordingly.	30%
Personal competences	
Social competence - Students comment on and evaluate other students' CVs and Covering letters in class and on the Moodle platform. They perform a simulation job interview in pairs.	40%
Autonomy - Students write their own CV and Covering Letter. Students prepare and conduct their own interview, as interviewer and interviewee based on their own material. They reflect on their own written work and that of other students in the light of the principles presented in the first part of course. This is carried out both in class and on the Moodle platform.	

Content:

1.

    1.1 Job Applications

    1.2 Start with yourself

    1.3 How to read ads

    1.4. Presenting your strengths and weaknesses

2.

    2.1 CVs and Résumés

    2.2 Essential elements

    2.3 CV Formats

    2.4 CV Style

    2.5 Chronological CV

2.6. Making a positive first impression

2.7. Highlighting your professional experience

3.

3.1 Covering Letters

3.2. Purpose of a covering letter

3.3. example

3.4. Writing a clear opening paragraph

3.5. Integrating key words from the job advert

3.6. Writing a convincing final paragraph

3.7. Covering letter key phrases

4.

4.1 Interviews

4.2. Advice for interview preparation

4.3. Phases of the interview

4.4. How to deal with interview questions

4.5. Asking questions yourself

4.6. Demonstrating your experience and skills

4.7. Structuring your answer: situation, action, result

4.8 Common questions

4.9 Example interview

Examination format:

short written test (50%)
simulation job interview(role-play) (50%)

Additional rules:
  + job interview (role-play)

Job Applications (Soft Skill)

Compulsory reading:
Recommended reading:
Handout provided by course instructor.

Team development (soft skill)

Module:	
Team development (soft skill)	

Study programme:	Graduation:
Business Informatics	Bachelor of Science

Responsible for the module:		
Prof. Dr. rer. pol. Markus Karp		

Semester:	Semester part-time:	Duration:
3	7	1

SWS:	of which V/Ü/L/P:	CP according to ECTS:
4.0	2.0/2.0/0.0/0.0	5.0

Type of course:	Language:	Status as of:
Elective	German	2017-06-14

Recommended prerequisites:		
none		

Flat-rate crediting of:		

Special regulations:		

Breakdown of the workload	Hours:
Presence:	60.0
Preparation and follow-up:	0.0
Project work:	0.0
Examination:	0.0
Total:	60

Team development (soft skill)

Learning objectives	Share

Professional skills	
Knowledge/Knowledge • Participants learn about team development as an important motivational tool and important building block of organisational development. • They know typical situations in which teams are used (e.g. product, process and organisational developments with a particularly high demand for complexity and innovation). • The participants are aware of the advantages and benefits as well as the disadvantages and limitations of teamwork.	35%
Skills - The participants work out concrete techniques of team development in practical exercises.	35%
Personal competences	
Social competence - Acquire various components of social and self-competence necessary for building and leading teams.	30%
Independence - The students' independence is further developed through independent practice.	

Team development (soft skill)

Content:

1. Introduction
    1.1. Clarification of terms: group or team?
    1.2. Team forms in corporate practice
    1.3. Advantages and limitations of teams
2. Team composition
    2.1. Optimal size
    2.2. Staff audit - selection of team members
    2.3. Role clarification and assignment in the team
3. Team development and communication
    3.1. Phase models of team development
    3.2. Design of qualification offers
    3.3. Team sociogram
4. Team leadership
    4.1. Function of the team leader
    4.2. Team design
    4.3. Leadership substitutes
5. Project teams
    5.1. Classic and virtual project teams
    5.2. Groupware to support teamwork
6. Case exercises on team development techniques
    6.1. Creativity in the team
    6.2. Team communication
    6.3. Team development and decision-making through workshops
    6.4. Conflict resolution in the team

Form of examination:

Team development (soft skill)

Compulsory literature:

Recommended literature:

Herrmann, D. & Hüneke, K. & Rohrberg, A. (2006). *Leadership at a distance*. Wiesbaden: Gabler.
Kauffeld, S. (2001). *Team diagnosis*. Göttingen: Verl. für Angewandte Psychologie.
Staehle, W. (1999). *Management*. Munich: Vahlen.
Stahl, E. (2012). *Dynamics in groups: Handbook of group leadership*. Beltz. **van Dick, R. & A. West, M. (**2013). *Teamwork, team diagnosis, team development (Praxis der Personalpsychologie, Vol. 8)*. Hogrefe Verlag.

Controlling

Module:	
Controlling	

Study programme:	Graduation:
Business Informatics	Bachelor of Science

Responsible for the module:		
Prof. Dr. rer. pol. Ralf Szymanski		

Semester:	Semester part-time:	Duration:
4	6	1

SWS:	of which V/Ü/L/P:	CP according to ECTS:
4.0	2.0/2.0/0.0/0.0	5.0

Type of course:	Language:	Status as of:
Mandatory	German	2019-07-16

Recommended prerequisites:
Basic concepts of internal and external accounting

Flat-rate crediting of:

Special regulations:

Breakdown of the workload	Hours:
Presence:	60.0
Preparation and follow-up:	88.0
Project work:	0.0
Examination:	2.0
Total:	150

Controlling

Learning objectives	Share

Professional skills	
Knowledge/Knowledge - The students know the terms and methods of controlling that are important for studying business informatics and can explain them. The students are able to explain the basic tasks of cost accounting (traditional approach, activity-based costing, target costing) and interpret them from a business management perspective. They can create key figures and distinguish them from each other. The students are able to determine and analyse variance analyses and budgets.	50%
Skills - The students can carry out multi-period analyses of Carry out and confidently handle company key figures (ROI; cash flow, etc.). You can work in the environment of activity-based costing and Compare target costing with traditional approaches. The Students can evaluate the business situation of a company and discuss suitable measures on the basis of business and profit and loss accounts, variance analyses and budgets.	30%
Personal competences	
Social competence	20%
Independence - Students are able to actively participate in a group and adequately communicate controlling contents in class discussions. They can discuss and solve tasks in a team. They can present their own results in front of the group and respond appropriately to follow-up questions. The students are able to set their own learning and working goals and to realise them. They can compare their own knowledge with the learning objectives set and, if necessary, initiate necessary steps, such as Ask for learning guidance.	
Content:	
Fundamentals and techniques of operational controlling - Cost type, cost centre and cost allocation, Cost unit and contribution margin process cost accounting - target costing - Profit and loss account - Operating profit and loss account - Transfer prices - Deviation analysis - Budgeting - Key figure systems - Processing of case studies	

Controlling

Form of examination:
Written exam
Compulsory literature:
Recommended literature:
will be announced in the course

Data Warehouse (DWH)

Module: Data Warehouse (DWH)	

Study programme: Business Informatics	**Graduation:** Bachelor of Science

Responsible for the module: Computer scientist Jacqueline Markwardt		

Semester: 4	**Semester part-time:** 8	**Duration:** 1

SWS: 4.0	**of which V/Ü/L/P:** 2.0/0.0/2.0/0.0	**CP according to ECTS:** 5.0

Type of course: Mandatory	**Language:** German	**Status as of:** 2019-03-14

Recommended prerequisites: Basics of database systems, data processing, standard SQLBasics of business Intelligence

Flat-rate crediting of:

Special regulations:

Breakdown of the workload	Hours:
Presence:	60.0
Preparation and follow-up:	87.0
Project work:	2.0
Examination:	1.0
Total:	150

Learning objectives	Share

Data Warehouse (DWH)

Professional skills	
Knowledge/Knowledge - With knowledge of data processing and data modelling of a relational data model and the OLTP process (Online Transaction Processing), students learn to perform data modelling and data processing in the dimensional data space. The data warehouse modelling approach will be addressed here (DWH). Basics of data analysis by means of OLAP (Online Analytical Processing), differences, advantages and disadvantages versus operational data processing are learned and applied. The students can develop data models for a dimensional data space, perform data processing (data analysis) for hierarchical, historical and summarised data structures. For importing data, the Extraction Transformation Loading process (ETL) is discussed.	40%
Skills - Students independently develop data warehouse (DWH) models on the basis of practice-relevant, business management examples. In doing so, they draw on the basic knowledge and can thus optimally develop models with regard to different analysis approaches. OLAP approaches are used for data analysis. Standard SQL and/or PL/SQL and/or ETL tools can be used to create database applications and import data. In addition, students learn how to use DWH tools (SAP BW, OWB, or similar) and apply them.	40%
Personal competences	
Social competence	20%
Independence - Students are able to actively participate in a group and adequately communicate database-related content in class discussions. They can discuss and solve tasks in a team. They can present their own results to the group and react appropriately to questions. The assignment is prepared in a team (small group), for which the team independently develops a Concept of how DWH modelling can be done. Apply knowledge, use DWH tools, find independent solution to the problem, develop architecture of a data warehouse application.	

Content:

Data Warehouse (DWH)

1. Data Warehouse Applications with Practical Relevance - Reference Architecture Data Warehouse - operational (OLTP) vs. analytical databases (OLAP) - Data transfer and data preparation (ETL) - Semantic data modelling - Metadata

2. Business Intelligence - effective data preparation, - visualisation - Management/Executive Information Systems - Online Analytical Processing (OLAP) - Document Task (Programming an Application)

3. Data Model (ERM) for Dimensional Data Space (DWH) - ERM - ADAPT Notation - Transfer of operational data into the data warehouse (ETL) - Data aggregation (Data Mining) - Data preparation (Business Intelligence) - Techniques for the Updating Presentation of statistical evaluations - Reporting

Form of examination:

Digital exam (40%)
Documentary work as group work (40%)
Homework Individual work (20%)

Compulsory literature:

Literature recommendations will be made in the course room

Recommended literature:

Module:	
Enterprise Resource Planning Systems	
Study programme:	**Graduation:**
Business Informatics	Bachelor of Science
Responsible for the module:	
Computer scientist Jacqueline Markwardt	

Semester:	**Semester part-time:**	**Duration:**
4	8	1
SWS:	**of which V/Ü/L/P:**	**CP according to ECTS:**
4.0	2.0/0.0/2.0/0.0	5.0
Type of course:	**Language:**	**Status as of:**
Mandatory	German	2017-06-13

Recommended prerequisites:
Operational accounting, business processes
Flat-rate crediting of:
Special regulations:

Breakdown of the workload	**Hours:**
Presence:	60.0
Preparation and follow-up:	88.0
Project work:	0.0
Examination:	2.0
Total:	150

Learning objectives	**Share**
Professional skills	

Enterprise Resource Planning Systems

Knowledge/Knowledge - Students are able to explain concepts, advantages and disadvantages of individual and standard business software systems. They learn the basics of operational know business process modelling, understand the workflows of different business processes and have a focus on the Integration aspect in business processing. By means of the integration aspect, students understand the advantages of an ERP system with regard to the optimisation of business process flows and the planning and provision of company resources. In addition, students recognise the possibilities and limitations of specific ERP systems and gain knowledge of the design, structure and most important core components of an ERP system.	40%
Skills - Students are able to apply, carry out and understand selected business processes (BP). ERP system tools (e.g. SAP or similar) are used (model company). The students implement their theoretical basic knowledge by means of the practical execution of business processes in a model company and thus understand the functioning of an ERP system and can actively accompany and modify it.	40%
Personal competences	
Social competence - Students can support each other in the practice sessions.	20%
Independence - Students are able to actively participate in a group and to discuss business management issues in class. communicate business process contents adequately. They can discuss and solve tasks (case studies) in a team. They can present their own results to the group and respond appropriately to follow-up questions. Theoretical knowledge from the lectures is practically applied by means of case studies, exercises take place in the laboratory room: The use of an ERP system (model company -> is equivalent to a real system) is carried out independently by performing different task roles (sales, purchasing, logistics, accounting) as an individual or in team arrangements and thus consolidates the integration aspect between the different business areas of a company.	

Enterprise Resource Planning Systems

Content:

1. - Representation of supporting performance and exchange relationships in
     Presentation of essential components of current ERP software systems for Supply
     Chain Management (SCM), Customer Relationship Management (CRM), Supplier
     Relationship Management (SRM), Electronic Business and their assessment for
     operational practice - Aspects of operational
     Information systems - modelling, processes, interrelationships of
     Business processes - design, structure, core functions of ERP systems -
     Integration aspect within an ERP system - optimisation of
      Business processes, planning and provision of corporate resources
2. Prospects for parallel, building-up areas of study -> Data analysis, market research
   based on the data stock of an ERP system -> Business intelligence, data warehousing,
   data mining, big data analyses, etc.

Form of examination:

Digital exam (80%)
Practical test (20%)

Compulsory literature:

Literature recommendations will be made in the course room

Recommended literature:

Module:
Investment and finance

Study programme:	Graduation:
Business Informatics	Bachelor of Science

Responsible for the module:
Prof. Dr. Ivonne Klipstein

Semester:	Semester part-time:	Duration:
4	8	1

SWS:	of which V/Ü/L/P:	CP according to ECTS:
4.0	2.0/2.0/0.0/0.0	5.0

Type of course:	Language:	Status as of:
Mandatory	German	2019-02-14

Recommended prerequisites:
General business administration, financial accounting, cost and activity accounting

Flat-rate crediting of:

Special regulations:

Breakdown of the workload	Hours:
Presence:	60.0
Preparation and follow-up:	88.0
Project work:	0.0
Examination:	2.0
Total:	150

Learning objectives	Share
Professional skills	

Investment and finance

Knowledge/Knowledge • Students know and understand the basics and important terms of finance. • Students know and understand the investment planning process. • The students know and understand the problems in determining the input variables of investment appraisal and approaches to solving these problems. • The students know and understand the strengths and weaknesses of the different methods of investment appraisal. • Students know and understand methods of business valuation. • Students know and understand the basics of balance sheet analysis. • The students know and understand the structure of essential figures of the balance sheet analysis. • Students know and understand the differences between equity and debt financing. • Students know and understand different forms of debt financing. • Students know and understand different loan collateral.	40%
Skills • Students will be able to apply static and dynamic methods in a practical way and critically evaluate the results. • Students can develop financing options for a company. • The students can check and evaluate different types of financing for their economic advantageousness. • Students will be able to identify key business ratios and recognise simple processes in the company on the basis of their development.	40%
Personal competences	
Social competence	20%
Independence • Students can plan and design work processes cooperatively. • Students can justify processes and results. • The students can present facts comprehensively. • Students will be able to lead field-specific and cross-field discussions.	

Content:

1. Fundamentals of Finance
2. Investment planning
3. Static methods of investment appraisal
4. Dynamic methods of investment appraisal
5. Value-in-use calculations
6. Company valuation - occasions and procedures
7. Balance sheet analysis
8. Financing basics

Form of examination:

The concrete examination modalities can be found in the examination scheme, which will be provided by the lecturer within the first two weeks of the lecture. (100%)

Compulsory literature:

Thommen, J. -P./Achleitner, A. -K.: Allg emeine Betriebswirtschaftslehre , Auflage: 7.,2012 ; Bösch, M.,: Finanzwirtschaft: Investition, Finanzierung, Finanzmärkte und Steuerung, Auflage: 2, 2013 ; Kruschwitz, L.: Investitionsrechnung, Auflage:

Recommended literature:

Module:
Production Management, Logistics and Modelling

Study programme:	**Graduation:**
Business Informatics	Bachelor of Science

Responsible for the module:
Prof. Dr. rer. pol. Matthias Forster, Prof. Dr. rer. pol. Christian Müller & Prof. Dr. rer. pol. Mike Steglich

Semester:	**Semester part-time:**	**Duration:**
4	6	1

SWS:	**of which V/Ü/L/P:**	**CP according to ECTS:**
4.0	2.0/2.0/0.0/0.0	5.0

Type of course:	**Language:**	**Status as of:**
Mandatory	German	2019-03-13

Compulsory Prerequisites:
Fundamentals of Business Administration

Recommended prerequisites:
Operations Research

Flat-rate crediting of:

Special regulations:

Breakdown of the workload	**Hours:**
Presence:	60.0
Preparation and follow-up:	0.0
Project work:	85.0
Examination:	5.0
Total:	150

Production Management, Logistics and Modelling

Learning objectives	Share
Professional skills	
Knowledge/Knowledge • Acquiring general technical theoretical knowledge about the production and cost theory and thus deepens business knowledge. • Acquire general technical theoretical knowledge about production systems and thus deepens business knowledge. • Acquire general technical-theoretical knowledge about production planning and logistics and thus deepen business management knowledge. • Acquire general technical theoretical knowledge about the modelling techniques for MIP and thus deepen knowledge from OR Event.	40%
Skills - Acquisition of a very broad spectrum of methods for modelling planning tasks from production management and logistics	40%
Personal competences	
Social competence - Promoting teamwork and communication skills, as the vouchers are created in a team.	20%
Independence - Promotion of independence and learning competence, as students have to acquire detailed knowledge independently.	

Content:

1. Fundamentals of production theory and cost theory Production factors, production functions, cost functions

2. Production systems Types, distinguishing features and characteristic values

3. Production and materials management planning tasks Programme planning, Product structures, batch size planning, lead time scheduling, Capacity scheduling, in-house production/external procurement, demand forecasting, order quantity planning, inventory management

4. Modelling techniques for mixed integer problems (MIP)

5. Review of the functioning and use of mathematical optimisation software

6. Working on case studies from production management and logistics

Form of examination:

Project presentation and project documentation (0%)

Compulsory literature:

Dinkelbach, W. & Rosenberg, O. (2000). *Success and environment-oriented production theory*.
Berlin ; Heidelberg ; New York ; Barcelo: Springer.
Fandel, G. (1996). *Production and cost theory [Production/1st]*. Berlin [u.a.]: Springer.
Schneeweiß, C. (1999). *Introduction to production management*. Berlin [u.a.]: Springer.
Steven, M. (2013). *Introduction to production management*. Kohlhammer W., GmbH.
Zäpfel, G. (2000). *Strategic production management*. Munich et al: Oldenbourg.
Zäpfel, G. (1989). *Tactical production management*. Berlin u.a.: de Gruyter.
Domschke, W. & Drexl, A. (2011). *Introduction to operations research*. Heidelberg [et al:] Springer.
Domschke, W. & Drexl, A. & Klein, R. & Scholl, A. & Voß, S. (2007). *Exercises and case studies in operations research (Springer textbook)*. Springer.
Ellinger, T. & Beuermann, G. & Leisten, R. (2001). *Operations research*. Berlin [u.a.]: Springer.

Recommended literature:

Project I + II

Module:
Project I + II

Study programme:	Graduation:
Business Informatics	Bachelor of Science

Responsible for the module:
Prof. Dr. rer. pol. Christian Müller

Semester:	Semester part-time:	Duration:
4	6	2

SWS:	of which V/Ü/L/P:	CP according to ECTS:
4.0	0.0/0.0/0.0/4.0	5.0

Type of course:	Language:	Status as of:
Mandatory	German	2017-05-26

Recommended prerequisites:
is specified by the lecturers carrying out the course

Flat-rate crediting of:

Special regulations:
The projects are advertised in the pre-semester and chosen by the students. Thus, the projects have changing contents.

Breakdown of the workload	Hours:
Presence:	60.0
Preparation and follow-up:	0.0
Project work:	90.0
Examination:	0.0
Total:	150

Learning objectives	Share
Professional skills	

Knowledge/Knowledge - See content - will only be determined and communicated in the current semester planning.	30%

Project I + II

Skills - s.o	50%

Personal competences	

Social competence - The tasks must be worked on in a team. This strengthens the students' ability to work in a team.	20%
Independence - The students are able to set learning and working goals for themselves and to realise them. They are able to compare their own knowledge with the set learning goals and, if necessary, initiate necessary steps such as asking for learning guidance.	

Content:

 1. the content depends on the specific event

Form of examination:

   Project work (100%)

Compulsory literature:

The literature depends on the specific event

Recommended literature:

Module: E-Business and IT Management	
Study programme: Business Informatics	**Graduation:** Bachelor of Science

Responsible for the module:		
Prof. Dr. rer. nat. Ulrike Tippe		

Semester: 5	**Semester part-time:** 9	**Duration:** 1
SWS: 4.0	**of which V/Ü/L/P:** 2.0/2.0/0.0/0.0	**CP according to ECTS:** 5.0
Type of course: Mandatory	**Language:** German	**Status as of:** 2017-08-17

Recommended prerequisites:

Flat-rate crediting of:

Special regulations:

Breakdown of the workload	**Hours:**
Presence:	60.0
Preparation and follow-up:	60.0
Project work:	28.0
Examination:	2.0
Total:	150

E-Business and IT Management

Learning objectives	Share
Professional skills	
Knowledge/Knowledge • The students know typical electronic business architectures and can name the procedure for the development of an electronic business strategy. • They are able to distinguish the characteristics and properties of different electronic business forms (B2B, B2C, etc.....) and to name the differences between a digital and a real value creation process. • They know the different aspects of electronic business such as Procurement, sales, payment systems , online marking as well as knowledge management and e-learning • They can name the central challenges that the digital transformation brings with it. • They know parts of the relevant scientific sources in this subject area	40%
Skills • You are able to give an overview of the current trends in e-business • You are able to write a current scientific short article on a suitable topic from the relevant subject area in individual work. • They sit down with the	40%
Personal competences	
Social competence • Students are able to exchange and build up knowledge in small groups. • They are encouraged to keep up with current news (also from the daily press, such as data security in social networks and the like.) on the topic and to discuss it in the course.	20%
Independence - Students are able to work independently and scientifically.	

Content:

1. Basics of e-business (definition, systematisation) and the digital value creation process

2. E-Procurement and Supply Chain Management
3. E-collaboration, e-learning and basics of information and knowledge management

4. E-commerce and payment systems
5. Online marketing
6. The digital transformation: societal, political and social impacts

Form of examination:

Written work (60%)
Written exam (40%)

Additional regulations:
   Combined module examination

Compulsory literature:

Kollmann, T. & Schmidt, H. (2016). *Germany 4.0: How the Digital Transformation succeeds*. Springer Gabler.

Recommended literature:

Kollmann, T. & Schmidt, H. (2016). *Germany 4.0: How the Digital Transformation succeeds*. Springer Gabler.
Kollmann, T. (2016). *E-Business: Fundamentals of Electronic Business Processes in the Digital Economy*. Springer Gabler.
W. Wirtz, B. (2010). *Electronic Business*. Gabler Verlag.
Meier, A. & Stormer, H. (2012). eBusiness *& eCommerce: Managing the digital value chain.* Springer-Verlag.
Bächle, M. & R Lehmann, F. (2010). *E-Business: Grundlagen elektronischer Geschäftsprozesse im Web 2.0*. Oldenbourg Verlag.

Module:	
Marketing and market research	
Study programme:	**Graduation:**
Business Informatics	Bachelor of Science

Responsible for the module:		
Prof. Dr. rer. pol. Frank Sistenich		

Semester:	Semester part-time:	Duration:
5	11	1

SWS:	of which V/Ü/L/P:	CP according to ECTS:
4.0	2.0/2.0/0.0/0.0	5.0

Type of course:	Language:	Status as of:
Mandatory	German	2017-05-29

Recommended prerequisites:
Introduction to General Business Administration, Introduction to Economics and Microeconomics

Flat-rate crediting of:

Special regulations:

Breakdown of the workload	Hours:
Presence:	60.0
Preparation and follow-up:	88.0
Project work:	0.0
Examination:	2.0
Total:	150

Marketing and market research

Learning objectives	Share
Professional skills	
Knowledge/Knowledge - The students know and understand the - basics of significance of market-oriented corporate management, - significance of the distinction between strategic and operative instruments or perspectives of marketing for a successful Corporate management - central methods and approaches of both strategic marketing planning and the individual operational instruments for implementing the previously elaborated strategy -. Differentiation into primary and secondary market research - basic methods of data collection	60%
Skills - You will acquire the skills - Marketing objectives within the framework of the To independently derive corporate goals or critically reflect on existing goals - To carry out a segmentation of the market within the framework of the marketing goals and to independently develop or adapt a marketing strategy to achieve the goals - In accordance with the Marketing strategy a marketing mix to align the operational independently develop marketing instruments in the context of product, price, sales and communication policy - conduct a secondary analysis of a research question - develop their own survey design for primary research	30%
Personal competences	
Social competence	10%
Independence - The students are able - to work actively in a small group and to help shape and continuously support their learning or working environment - to legitimise tasks, processes and results in the team - to present facts comprehensively, to actively represent solutions and to react adequately to questions - The students are able to set learning and working goals and to realise them independently. They are able to compare their own knowledge with the set learning objectives and, if necessary, to improve it. take the necessary steps. Content can be researched independently, Expertise is acquired from a variety of sources	

Content:

1. Introduction Introduction, development of the marketing philosophy What is marketing? Classification of marketing in the corporate objectives Marketing objectives

2. Strategies Market segmentation Marketing strategies

3. Marketing mix Instruments (marketing mix) Product policy Contracting policy Communication policy Distribution policy

4. Market research Introduction Secondary market research (i nternal and external sources) Primary market research Requirements of the quality criteria of a measurement

5. Methods of data collection Observation Interview Experiment

Form of examination:

Presentation with written elaboration or paper (100%)

Compulsory literature:

Kotler, P./Armstrong, G./Saunders, J., Fundamentals of Marketing, 5th ed. - •
Meffert, Heribert, Mark eting, 11th ed., Wiesbaden, 2011 . - Nieschlag, R./Dichtl,
E./Hörschgen, H., Market ing, 19th ed., Berlin, 2002. - Berekove

Recommended literature:

Business English

Modules: Business English		

Degree programme: Business Informatics		**Degree:** Bachelor of Science

Responsible for the module: M.A. John Paul O Donoghue		

Semester: 5	**Semester part time:** 11	**Duration:** 1

Hours per week per semester: 4.0	**Of which L/S/LW/P:** 2.0/2.0/0.0/0.0	**CP according to ECTS:** 5.0

Marketing and market research

Form of course: Compulsory	Language: English	As of: 2018-12-19

Recommended prior knowledge:
B1- English Language level

Recognition of external relevant qualification/experience:

Special regulations:

Workload distribution	Hours:
In class:	60.0
Pre- and post-course work:	88.0
Project:	0.0
Examinations:	2.0
Total:	150

Business English

Learning objectives	Share
Subject specific competences	
Knowledge - The students learn how business meetings are structured and the key vocabulary for conducting a meeting/presenting a product at a trade fair and communicating by phone.	25%
Skills - Students practice a range of role plays for meetings and develop their own topics for a meeting in the final weeks of the semester. This involves evaluating different opinions and reaching consensus. The also plan a Trade Fair meeting and focus on selling strategies. A further aspect of communication is trained when the students practice using the phone in a commercial situation.	25%
Personal competences	
Social competence	50%
Autonomy - They have to create and role-play a meeting and practice interacting within their team, presenting, discussing and solving problems. Participants also have to choose a meeting group and develop a topic with an agenda and with suitable content for the simulation. They are encouraged to adopt an Anglo-American approach to the treatment of their topic.	

Content:

1. Taking part in a meeting 1.1 Small talk 1.2 The agenda 1.3 Introductions 1.4 Suggesting/replying to suggestions 1.5 Agreeing/disagreeing/criticizing 1.6 Interrupting 1.7 Persuading 1.8 Expressing and clarifying expectations 1.9 Reaching agreement 1.10 Taking a vote
2. Crisis Management 2.1 Definitions 2.2 Case studies (Johnson & Johnson - Tylenol, Heineken, Daimler, Union Carbide) 2.3 Rules of crisis management 2.4 Dealing with the media in a crisis

Examination format:

Written test and role play/meeting simulation. (0%)

Business English

Compulsory reading:
Recommended reading:

Business English

Algorithms and Data Structures (Business Informatics)

Module:
Algorithms and Data Structures (Business Informatics)

Study programme:	Graduation:
Business Informatics	Bachelor of Science

Responsible for the module:
Prof. Dr. rer. pol. Ralf Szymanski

Semester:	Semester part-time:	Duration:
5	9	1

SWS:	of which V/Ü/L/P:	CP according to ECTS:
4.0	2.0/0.0/2.0/0.0	5.0

Type of course:	Language:	Status as of:
Elective	German	2019-07-16

Recommended prerequisites:
Basic knowledge of programming

Flat-rate crediting of:

Special regulations:

Breakdown of the workload	Hours:
Presence:	60.0
Preparation and follow-up:	88.0
Project work:	0.0
Examination:	2.0
Total:	150

Algorithms and Data Structures (Business Informatics)

Learning objectives	Share

Technische
Hochschule
Wildau
Technical University
of Applied Sciences
WILDAU

Professional skills	

Knowledge/Knowledge
  - The students know the terms and access methods of scalar, linear,
    chained and non-linear data structures that are important for studying
    business informatics and can explain them. In this way, the students can
    explain the basics of
    Demonstrate complexity analysis via algorithms and "in memory" data
    models. You can create different sorting and search algorithms.
	40%

Skills
  - The students can create common data structures for practice-relevant
    tasks in software development and distinguish their advantages and
    disadvantages from each other - especially for applications in the "in
    memory" context. They can design sorting and search algorithms for
    specific programming tasks and integrate them into applications.
	40%

Personal competences	
Social competence	20%

Independence
  - The students are able to actively participate in a group and to discuss
    algorithmic contents and
    communicate data structures adequately. You can
    discuss and solve tasks in a team. They can present their own results to
    the group and respond appropriately to questions. The students are able
    to set their own learning and working goals and to realise them. They can
    compare their own knowledge with the set learning objectives and, if
    necessary, initiate necessary steps, e.g. ask for learning guidance.	

Algorithms and Data Structures (Business Informatics)

Content:

1 - Definitions and data types - I/O operation of different access modes for large files - Introductory algorithms, scalar data types, arrays, check digit procedures, nested array access - Sequential linear data structures (stack, queue) Duplicity checking - Concatenated linear data structures (single, double and circular concatenated lists), Free Space List - Sorting algorithms (Selection Sort, Insertion Sort, Distribution Count Sort, Shell Sort), Permutation Vector, Complexity Analysis Search Algorithms (Sequential Search, Binary Search, Hash Algorithm with different collision resolutions) Non-linear data types (binary tree, heap, B-tree)

Form of examination:

Written exam

Compulsory literature:

will be announced in the course

Recommended literature:

Sedgewick, R. & Wayne, K. (2011). *Algorithms.* Upper Saddle River, NJ [u.a.]: AddisonWesley.

Service Management (Business Administration)

Module: Service Management (Business Administration)		
Study programme: Business Informatics		**Graduation:** Bachelor of Science
Responsible for the module: Prof. Dr. rer. pol. Thomas Biermann		
Semester: 5	**Semester part-time:** 11	**Duration:** 1
SWS: 4.0	**of which V/Ü/L/P:** 2.0/2.0/0.0/0.0	**CP according to ECTS:** 5.0
Type of course: Elective	**Language:** German	**Status as of:** 2017-06-14

Recommended prerequisites:	
Basic knowledge of business administration	

Flat-rate crediting of:	

Special regulations:	

Breakdown of the workload	Hours:
Presence:	60.0
Preparation and follow-up:	25.0
Project work:	25.0
Examination:	25.0
Total:	135

Service Management (Business Administration)

Learning objectives	Share
Professional skills	
Knowledge/Knowledge • The students know and understand business-relevant special features of the service, • Dimensions of service, • Concrete challenges in the management of services (capacity utilisation problems, integration of the external factor)	40%
Skills • They acquire the skills to develop and market service concepts, • to successfully manage service areas economically, • Lead service staff in a goal-oriented manner.	40%
Personal competences	

Social competence - Students are able to work in teams to illuminate different perspectives of a problem and develop proposals.	20%
Independence - Students are able to research and analyse independently.	

Service Management (Business Administration)

Content:

1. Basics

   1.1. Industrial or service society?

   1.2. Definition of terms and special features

   1.3. Result, process and potential dimension

2. Capacity and cost issues

   2.1. Costs of operational readiness

   2.2. Seasonality problems

   2.3. Possibilities of capacity control

3. Design service processes

   3.1. Service Design

   3.2. Customer integration

   3.3. Process optimisation

4. Pricing strategies in service

   4.1. Product and price differentiation

   4.2. Innovative pricing policy

   4.3. Service Level Agreements

   4.4. Yield Management

5. Quality management in the service sector

   5.1. Service quality and customer orientation

   5.2. The Gap Model of Quality Policy

   5.3. Measure and control service quality

   5.4. Quality management tools

6. Current problems of service management

   6.1. Lead and motivate service staff

   6.2. Public services

   6.3. Import and export of services

   6.4. Service and innovation

7. Summary / Exam Preparation

Service Management (Business Administration)

Form of examination:

Additional regulations:
Written exam in case study form

Compulsory literature:

Biermann, T. (2007). *Kompakt-Training Dienstleistungsmanagement.* Ludwigshafen (Rhine): Kiehl.

Recommended literature:

Biermann, T. (1997). *Service providers must become better.* in Harvard Business Manager 2.
Bruhn, M. (2000). *Service quality.* Wiesbaden: Gabler.
Haller, S. (2012). *Service management.* Wiesbaden: Springer Gabler.
Lovelock, C. (1992). *Managing services.* London u.a.: Prentice-Hall Internat..
Bruhn, M. & Meffert, H. (2012). *Handbook of services marketing.* Wiesbaden: Gabler.

Installation and configuration of complex IT systems (business informatics)

Module: Installation and configuration of complex IT systems (business informatics)	

Study programme: Business Informatics	**Graduation:** Bachelor of Science

Responsible for the module: Prof. Dr. rer. pol. Christian Müller	

Semester: 5	**Semester part-time:** 9	**Duration:** 1

SWS: 4.0	**of which V/Ü/L/P:** 2.0/0.0/2.0/0.0	**CP according to ECTS:** 5.0

Type of course: Elective	**Language:** German	**Status as of:** 2017-05-26

Recommended prerequisites: This course combines business and IT knowledge from previous courses in the installation of application systems.	

Flat-rate crediting of:	

Special regulations:	

Breakdown of the workload	**Hours:**
Presence:	60.0
Preparation and follow-up:	20.0
Project work:	50.0
Examination:	20.0
Total:	150

Learning objectives	**Share**
Professional skills	

Knowledge/Knowledge - Students acquire a broad and integrated knowledge in the relation to the system they study	25%

Installation and configuration of complex IT systems (business informatics)

Skills - Students learn to develop independent solutions to solve the installation task	25%
Personal competences	
Social competence - These tasks have to be worked on in a team. This strengthens the students' ability to work in a team.	50%
Independence - Project management is required for successful implementation, time management and self-organisation are required. These are encouraged.	

Content:

1. Analysis of the task
2. Introduction to the basic system functionalities
3. Preparation of a work plan
4. Determination of test items
5. Implementation
6. System test
7. Presentation of results

Form of examination:

Project presentation and documentation (100%)

Compulsory literature:

Literature on the systems to be studied. This literature is to be researched by the students themselves.

Recommended literature:

Module:
Cooperation Management (Business Administration)

Study programme:	Graduation:
Business Informatics	Bachelor of Science

Responsible for the module:
Reinhard Hannesschläger (Mag. rer. soc. oec.)

Semester:	Semester part-time:	Duration:
5	9	1

SWS:	of which V/Ü/L/P:	CP according to ECTS:
4.0	2.0/2.0/0.0/0.0	5.0

Type of course:	Language:	Status as of:
Elective	German, English	2018-01-31

Recommended prerequisites:
Participation in the Change Management module would be helpful.

Flat-rate crediting of:

Special regulations:

Breakdown of the workload	Hours:
Presence:	60.0
Preparation and follow-up:	40.0
Project work:	49.0
Examination:	1.0
Total:	150

Learning objectives	Share
Professional skills	

Cooperation Management (Business Administration)

Knowledge/Knowledge • Students know the importance of cooperation management for progress at regional, national and international level. • They know and understand approaches for the management of cooperations in non-hierarchical systems • They know and understand the success factors for the success of change processes in cooperation systems. • They know tools and methods for analysis, for developing options for action and for decision-making in the management of cooperation systems.	30%
Skills • Students can distinguish cooperation situations from situations for hierarchical management, describe and analyse them. • They can apply methods to identify and analyse stakeholders in cross-organisational change processes. • You can plan cooperative development processes • They can use methods to analyse framework conditions for Processes of change at the level of societal The following table shows the application of the principles. • They can apply methods for decision-making in cooperation systems	40%
Personal competences	
Social competence • Students can guide and lead groups in the application of methods in cooperation management • By working on real and pseudo-real cases, the students' conflict resolution skills are strengthened.	30%
Independence - Students can plan and implement processes for the management of cooperations	

Content:

Cooperation Management (Business Administration)

1. Introduction to cooperation management and conceptual delimitation
2. Areas of application of cooperation management
3. Map of organisational logics
4. Success factors for the success of cooperation projects a) Strategy b) Cooperation c) Governance structure d) Processes e) Learning and innovation
5. Iterative and circular planning and project approaches for cooperation systems
6. Selected instruments and methods for implementing change processes in non-hierarchical systems.
7. Project work based on problem situations from the participants' field of experience or on case studies provided.

Form of examination:

Written exam (30%)
Presentation (70%)

Compulsory literature:

Cooperation management in practice, ISBN 978-3-658-06275-0

Recommended literature:

Marketing Simulation (Business Administration)

Module:
Marketing Simulation (Business Administration)

Study programme:	Graduation:
Business Informatics	Bachelor of Science

Responsible for the module:
Dr. sc. Thomas Stürzer

Semester:	Semester part-time:	Duration:
5	11	1

SWS:	of which V/Ü/L/P:	CP according to ECTS:
4.0	2.0/2.0/0.0/0.0	5.0

Type of course:	Language:	Status as of:
Elective	German	2019-07-15

Recommended prerequisites:
Basics of ABWL , corporate management and financing, marketing, materials management, price calculation, controlling

Flat-rate crediting of:

Special regulations:

Breakdown of the workload	Hours:
Presence:	60.0
Preparation and follow-up:	58.0
Project work:	30.0
Examination:	2.0
Total:	150

Learning objectives	Share

Marketing Simulation (Business Administration)

Professional skills	

Knowledge/Knowledge
• Students acquire knowledge of the basics of
  Corporate governance in connection with the use of
  Simulation techniques (business games) with a focus on marketing,
• the importance of networked thinking when meeting
  corporate decisions to the aspect of taking all relevant marketing
  activities into account,
• the development and implementation of marketing strategies,
• the holistic making of operational decisions for the successful market
  positioning of the virtual company,
• the evaluation of balance sheets, profit and loss accounts and other
  business and primarily marketing reports
	40%

Skills
• Students acquire skills in the analysis and forecasting of
  Factors and key data on company development as a result of marketing
  decisions,
• for self-motivation and creative application of new business knowledge in
  the context of teamwork in simulated management teams,
• on the holistic design of marketing management based on the
  management of a virtual consumer goods company.
	40%

Personal competences	

Social competence
• Students work independently in teams,
• deal with emerging problems within teamwork in a proactive and
  guiding/leading manner,
• can communicate complex subject-related requirements as well as
  solutions, represent them argumentatively and develop them further
  together.
	20%

Independence
• Students independently define, reflect, present and evaluate objectives
  as well as requirements of contextual simulation processes,
• independently and sustainably design their self-study processes through
  efficient time management.	

Content:

1. Management of companies under changing market and
   Competitive conditions within the framework of a company simulation by taking over as well as executing the marketing management

2. Ways of thinking and working of managers and typification of managerial roles

3. Analysis of company key figures, balance sheets, profit and loss accounts and other business and market reports

4. Development of marketing strategies

5. Operational management of the company in the areas of

   5.1. Product policy

   5.2. Marketing

   5.3. Price calculation

   5.4. Personnel and material planning

   5.5. Investment/Financing

6. Evaluation and presentation of marketing business data

7. Coping with emotional psychological situations

Form of examination:

The concrete examination modalities can be found in the examination scheme, which will be provided by the lecturer within the first two weeks of the lecture. (100%)

Compulsory literature:

Participant manual for the TOPSIM-MARKETING *HandSim* business simulation.

Recommended literature:

Dillerup, R. & Stoi, R. (2011). *Corporate governance.* Munich: Vahlen.
Dubs, R. (2004). *Teile A - E [Einführung in die Managementlehre/1].*
Hopfenbeck, W. (2002). *General business administration and management.* Munich: Redline Economy at Verl. Modern Industry.
Stürzer, T. (2014). *HandSim2: in Planspiele in der beruflichen Bildung BIBB.* Bielefeld.

Module:
Marketing Strategies (Business Administration)

Study programme:	Graduation:
Business Informatics	Bachelor of Science

Responsible for the module:
Prof. Dr. rer. pol. Frank Sistenich

Semester:	Semester part-time:	Duration:
5	11	1

SWS:	of which V/Ü/L/P:	CP according to ECTS:
4.0	2.0/2.0/0.0/0.0	6.0

Type of course:	Language:	Status as of:
Elective	German	2017-06-14

Recommended prerequisites:
Introduction to marketing; statistics; macroeconomics and economic policy; databases

Flat-rate crediting of:

Special regulations:

Breakdown of the workload	Hours:
Presence:	60.0
Preparation and follow-up:	118.0
Project work:	0.0
Examination:	2.0
Total:	180

Learning objectives	Share
Professional skills	

Marketing Strategies (Business Administration)

Knowledge/Knowledge • Students know and understand the basics of market research; • Importance of studying target groups in consumer goods and industrial goods markets; • Importance of differentiation in secondary and primary research; • Necessity of differentiation in various methods and instruments of data collection depending on the objective of the question; • Need to distinguish between qualitative and quantitative Research approaches to market research and data interpretation.	50%
Skills • Students can independently identify and evaluate market developments; • conduct a secondary analysis on a research question; • develop a study design and independently design and conduct a primary market research study; • develop a questionnaire taking into account various questioning techniques and evaluate or interpret data.	30%
Personal competences	
Social competence • Students are able to work actively in a small group and to help design and continuously support their learning or working environment; • legitimise tasks, processes and results in the team; • to present facts comprehensively, to actively represent solutions and to react adequately to questions.	20%
Independence - The students are able to set learning and working goals and to realise them independently. They can compare their own knowledge with the learning objectives set and initiate necessary steps if necessary. Contents can be researched independently, specialised knowledge can be acquired from various sources.	

Content:

Marketing Strategies (Business Administration)

1. Introduction

   1.1. Tasks and importance of market research
   1.2. Requirements for information (relevance, validity, representativeness, significance)

   1.3. Investigation of markets, competitors and users
2. Market research data sources

   2.1. Secondary market research (internal and external sources)
   2.2. Primary market research (tracking studies, market potential studies, positioning studies, etc.)

3. Data collection methods

   3.1. Observation

   3.2. Interview

   3.3. Experiment
4. Conducting the primary research

   4.1. Qualitative and quantitative survey forms

   4.2. Questionnaire development

   4.3. Evaluation and data interpretation

Form of examination:

Additional regulations:
   Presentation with written elaboration

Marketing Strategies (Business Administration)

Compulsory literature:

Recommended literature:
Backhaus, K. & Erichson, B. & Plinke, W. & Weiber, R. (2015). *Multivariate analysis methods: An application-oriented introduction.* Springer Gabler. **Berekoven, L. & Eckert, W. & Ellenrieder, P. (2009).** *Market research.* Wiesbaden: Gabler. **Bühl, A. & Zöfel, P. (**2005). *SPSS 12.* Munich: Pearson Studium. **Raab, G. & Unger, A. & Unger, F. (2009).** *Marketing research methods.* Wiesbaden: Gabler.

Mobile Applications (Business Informatics)

Module:	
Mobile Applications (Business Informatics)	

Study programme:	**Graduation:**
Business Informatics	Bachelor of Science

Responsible for the module:
Prof. Dr. rer. pol. Mathias Walther

Semester:	**Semester part-time:**	**Duration:**
5	11	1

SWS:	**of which V/Ü/L/P:**	**CP according to ECTS:**
4.0	2.0/0.0/2.0/0.0	5.0

Type of course:	**Language:**	**Status as of:**
Elective	German	2019-03-14

Recommended prerequisites:
Basic knowledge of (object-oriented) programming, especially Java

Flat-rate crediting of:

Special regulations:

Breakdown of the workload	**Hours:**
Presence:	60.0
Preparation and follow-up:	45.0
Project work:	45.0
Examination:	0.0
Total:	150

Mobile Applications (Business Informatics)

Learning objectives	**Share**
Professional skills	

Knowledge/Knowledge	40%
• Platforms and operating systems for smartphones • Components and basic techniques for programme development and -execution of mobile applications • Special features of mobile applications and implementation options	

Skills	40%
• Evaluate implementation alternatives according to intended use • Develop programmes for smartphones (Android software platform)	

Personal competences	

Social competence	20%
- Students are able to actively develop software in a team. They can discuss tasks in a team, divide them up and solve them independently. They can present their own results to the group and react appropriately to questions.	
Independence	
- Students are able to set their own learning and working goals and to realise them.	

Content:

1. Characteristics of smartphones: Platforms: Manufacturers, operating systems, programming languages, devices
2. Components for programme development and execution: Programming interfaces, Runtime systems, development environments
3. Software platform Android
4. GUI programming for mobile devices
5. Persistence and databases
6. Communication and security
7. Sensors and location-based services
8. Distribution and commercialisation

Mobile Applications (Business Informatics)

Form of examination:
Project work (100%)
Compulsory literature:

D. Louis and P. Müller (2016). Android: The quick and easy introduction to the Programming and development environment. Munich: Hanser. ISBN: 9783446447486

Recommended literature:

Economic Policy - Selected Topics (Business Administration)

Module:	
Economic Policy - Selected Topics (Business Administration)	

Study programme:	Graduation:
Business Informatics	Bachelor of Science

Responsible for the module:		
Prof. Dr Christian Hederer		

Semester:	Semester part-time:	Duration:
5	11	1

SWS:	of which V/Ü/L/P:	CP according to ECTS:
4.0	2.0/2.0/0.0/0.0	5.0

Type of course:	Language:	Status as of:
Elective	German	2019-03-12

Recommended prerequisites:	
Basic knowledge of micro- and macroeconomics	

Flat-rate crediting of:	

Special regulations:	

Breakdown of the workload	Hours:
Presence:	52.0
Preparation and follow-up:	60.0
Project work:	30.0
Examination:	0.0
Total:	142

Economic Policy - Selected Topics (Business Administration)

Learning objectives	Share
Professional skills	

Knowledge/Knowledge • The students know the essential elements and problems of the fields of economic policy (jointly selected at the beginning of the course). In particular, the following can be chosen: • International trade and investment policy - Economics and politics of the European Economic and Monetary Union - Location policy, international location competition, location-based country comparisons - Energy and climate policy - Taxation and tax policy - Economic growth in global comparison; development policy - "Varieties of capitalism": market economy and social systems in the global Comparison - The Rise of China and its Economic Policy Implications - Economic Crises in Historical Comparison and Lessons for the Present	50%
Skills • Assessment of economic policy strategies and measures with regard to the achievement of objectives and conflicts of objectives • Assessment of economic policy strategies and measures in With regard to their consequences for individual sectors and companies • Understanding economic literature and studies at a glance • Argumentation and representation of proposals for economic policy measures	20%
Personal competences	
Social competence • Preparation and organisation of group discussions • (Short) presentation of research results in front of a larger group • Objective discussion and, if necessary, finding compromises regarding different (economic) policy positions	30%
Independence • Carrying out independent short research under time pressure; presentation of the results • Independent preparation of a short scientific analysis of a specific economic policy problem (paper)	
Content:	
The content of the course depends on the selected sub-areas (see above). In each case, a short economic-theoretical introduction is combined with an empirical review.	

Economic Policy - Selected Topics (Business Administration)

Form of examination:

The concrete examination modalities can be found in the examination scheme, which will be provided by the lecturer within the first two weeks of the lecture. (100%)
Compulsory literature:
Recommended literature:

Bachelor thesis

Module:
Bachelor thesis

Study programme:	Graduation:
Business Informatics	Bachelor of Science

Responsible for the module:
Prof. Dr. rer. pol. Christian Müller

Semester:	Semester part-time:	Duration:
6	12	1

SWS:	of which V/Ü/L/P:	CP according to ECTS:
0.0	0.0/0.0/0.0/0.0	12.0

Type of course:	Language:	Status as of:
Mandatory	German, English	2017-05-26

Recommended prerequisites:

Flat-rate crediting of:

Special regulations:
In the sixth semester, a Bachelor's thesis must be written. The Bachelor's thesis is an examination. It is intended to show that the student is able to work independently on a problem from his/her subject area within a specified period of time. The 360 Hours correspond to a processing time of 12 weeks for a working week of 32 hours

Breakdown of the workload	Hours:
Presence:	0.0
Preparation and follow-up:	360.0
Project work:	0.0
Examination:	0.0
Total:	360

Bachelor thesis

Learning objectives	Share
Professional skills	

Knowledge/Knowledge	100%
Skills - The student should be able to deepen and finally present scientific work in accordance with the rules.	0%
Personal competences	
Social competence	0%
Independence - The students should be empowered to work independently on an The students could work in teams and develop the solutions together, so that current topics are offered and thus establish a practical and contemporary reference in the education. The students could come together in teams and develop the solutions together, so that current topics are offered and thus the practical and contemporary reference is established in the education. A Bachelor's thesis is to be written in the sixth semester. The Bachelor's thesis is an examination. It should show that the student is able to work independently on a problem from his/her subject area within a specified period of time.	

Content:

1. the content results from the topic of the thesis work and is specified in the application for the thesis work.

Form of examination:

Thesis (0%)

Compulsory literature:

Depending on the thesis

Recommended literature:

Internship

Module: Internship	
Study programme: Business Informatics	**Graduation:** Bachelor of Science

Responsible for the module:		
Prof. Dr. rer. pol. Christian Müller		

Semester:	**Semester part-time:**	**Duration:**
6	10	1

SWS:	**of which V/Ü/L/P:**	**CP according to ECTS:**
0.0	0.0/0.0/0.0/0.0	15.0

Type of course:	**Language:**	**Status as of:**
Mandatory	German	2017-05-26

Recommended prerequisites:

Flat-rate crediting of:

Special regulations:
The internship is carried out under the supervision of the Business Information Systems degree programme at the TH in suitable companies and offices in industry, business, public authorities or social institutions. The aim of the internship is to establish a close connection between to establish a link between studies and professional practice. On the basis of the knowledge acquired so far in the degree programme, application-oriented knowledge and practical experience should be imparted and the processing of concrete problems in the intended professional field of activity should be made possible under guidance.

Breakdown of the workload	**Hours:**
Presence:	0.0
Preparation and follow-up:	450.0
Project work:	0.0
Examination:	0.0
Total:	450

Internship

Learning objectives	**Share**
Professional skills	
Knowledge/Knowledge	100%

Skills
  - The internship is intended to familiarise students with professional reality
    and to encourage them to individually shape their further course of study.
	0%

Personal competences	
Social competence	0%

Independence
  - Integration and experience in real everyday working life should reinforce
    the taught study contents.	

Content:

1. the content results from the internship contract approved by the university.

Form of examination:

Internship report (0%)

Compulsory literature:

Recommended literature: