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Appendix 2

Module descriptions

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<tr><td colspan="8">Principles of Business Administration</td><td>Module ID
5 MG 82</td></tr>
<tr><td>No.</td><td>Workload</td><td>Credits</td><td>Study semester</td><td>Frequency</td><td>Sem.</td><td>Dura-tion</td><td>Type</td><td>Q-level</td></tr>
<tr><td></td><td>150 h</td><td>6</td><td>1st sem.</td><td>Annual</td><td>Winter</td><td>1 sem.</td><td>Compulsory</td><td>B.Sc.</td></tr>
<tr><td>1</td><td colspan="2">Course type</td><td>Contact time</td><td>Self-study</td><td colspan="2">Forms of teaching (learning methods)</td><td>Planned group size</td><td>Language</td></tr>
<tr><td></td><td colspan="2">Sem. lessons</td><td>4 SCH/60 h</td><td>90 h</td><td colspan="2">Lecture, examples and exercises</td><td>60</td><td>German</td></tr>
<tr><td>2</td><td colspan="8">Learning outcomes/competences
On successful completion of the module, students have the following knowledge and skills:
• They are able to explain and differentiate the basic terms and knowledge objects of general business administration.
• They are able to define and describe central business issues and approaches to finding solutions in performance management, finance and supporting management functions.
• They are able to utilise the first holistic and overarching understanding of businesses and companies that they acquire and to use it for specific case examples.
• They are able to work on and understand first scientific texts independently.
• They are able to autonomously absorb and process knowledge. The digital learning tool promotes the autonomous acquisition of knowledge, reading skills and digital skills.</td></tr>
<tr><td>3</td><td colspan="8">Contents
Introduction to the professional field
Introduction to economic thinking
• Entrepreneurial objectives: economic, ecological and social objectives
○ The economic principle
○ Business administration as a science
○ Sustainability in business administration
Strategic management

Production and logistics, including:
• Principles of production
• Forms of production
• Logistics and procurement

Corporate taxation and auditing, including:
• Legal forms
• Taxation and auditing approaches

HR management and company organisation, including:
• Leadership styles and motivational instruments
• Structural organisation and workflow management

Marketing and sales, including:
• Principles of marketing
• Marketing instruments

Other areas of business administration, e.g.:
• Information technology
• Innovation management
• Service management</td></tr>
<tr><td>4</td><td colspan="8">Participation requirements
None</td></tr>
</table>

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5	**Form of assessment** Written examination or oral examination or course-integrated online examination
6	**Condition for the award of credits** Module examination pass
7	**Application of the module** (in the following study programmes)**:** Business Information Systems (B.Sc.), Business Information Systems (work-integrated) (B.Sc.)
8	**Module coordinator** Prof. Dr. Andreas Stute
9	**Other information** -

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<table>
<tr><td colspan="8">Financial Accounting and Corporate Financing</td><td>Module ID
5 CFR 93</td></tr>
<tr><td>No.</td><td>Workload</td><td>Credits</td><td>Study semester</td><td>Frequency</td><td>Sem.</td><td>Dura-tion</td><td>Type</td><td>Q-level</td></tr>
<tr><td></td><td>150 h</td><td>6</td><td>1st sem.</td><td>Annual</td><td>Winter</td><td>1 sem.</td><td>Compulsory</td><td>B.Sc.</td></tr>
<tr><td>1</td><td colspan="2">Course type</td><td>Contact time</td><td>Self-study</td><td colspan="2">Forms of teaching (learning methods)</td><td>Planned group size</td><td>Language</td></tr>
<tr><td></td><td colspan="2">Lecture</td><td>4 SCH/60 h</td><td>90 h</td><td colspan="2">Lecture and exercises</td><td>60</td><td>German</td></tr>
<tr><td>2</td><td colspan="8">Learning outcomes/competences
On successful completion of the module, students have the following knowledge and skills:
After successfully completing this module, students are able to:

• describe the value creation process in the company using the value chain from both an accounting and an information perspective,
• map the operational value creation processes using an ERP system (enterprise resource planning) and explain their structure,
• explain and practice the principle techniques of bookkeeping, in accordance with legal regulations and practice financial bookkeeping, both by traditional means and with an ERP system,
• develop accounting records for a wide variety of real situations and thus perform bookkeeping for the most important functional areas in companies,
• prepare annual financial statements in accordance with the German Commercial Code, depending on the legal form,
• analyse, interpret and evaluate annual financial statements in part,
• name and explain detailed terms in financing,
• identify different forms of corporate financing and integrate them into the financial decision-making process.

All learning outcomes are based, amongst other things, on the practiced handling of the applicable legal standards for accounting, and preferably commercial law (HGB).</td></tr>
</table>

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3	**Contents** a) Introduction to the corporate value chain • Relationships between businesses' functional areas • Outline of the value chain • Introduction to the process-oriented view in using ERP systems to support the value chain of a company • Architecture and technical principles of ERP systems b) Introduction to Financial Accounting • Tasks and structure of financial accounting • Basic accounting terms • Legal regulations and organisation c) Introduction to accounting techniques • Central elements of financial accounting • Business transactions that do not affect profit or loss • Relevant master data for accounting in ERP systems d) Transactions in important areas of the company • Procurement (goods and capital goods) • Production • Sales • Human resources e) Preparation of annual financial statements • Specific questions of evaluation according to commercial law • Accrual • Preparing the legal statement (Balance and P&L) in accordance with German regulations f) Corporate Financing • Foundations; tasks, principles and procedures of financial planning • Different forms of financing • Approaches to optimising the financing and capital structure
4	**Participation requirements** None
5	**Form of assessment** Written examination or oral examination
6	**Condition for the award of credits** Module examination pass
7	**Application of the module** (in the following study programmes)**:** Business Information Systems (B.Sc.)
8	**Module coordinator** Prof. Dr. Volker Wiemann
9	**Other information** -

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<table>
<tr><td colspan="8">Principles of Computer Science</td><td>Module ID
5 WIP 22</td></tr>
<tr><td>No.</td><td>Workload</td><td>Credits</td><td>Study semester</td><td>Frequency</td><td>Sem.</td><td>Dura-tion</td><td>Type</td><td>Q-level</td></tr>
<tr><td></td><td>300 h</td><td>12</td><td>1st sem.</td><td>Annual</td><td>Winter</td><td>1 sem.</td><td>Compulsory</td><td>B.Sc.</td></tr>
<tr><td>1</td><td colspan="2">Course type</td><td>Contact time</td><td>Self-study</td><td colspan="2">Forms of teaching (learning methods)</td><td>Planned group size</td><td>Language</td></tr>
<tr><td></td><td colspan="2">Lecture
Exercise</td><td>4 SCH/60 h
4 SCH/60 h</td><td>180 h</td><td colspan="2">Lecture
Case studies/task processing</td><td>60
20</td><td>German
German</td></tr>
<tr><td>2</td><td colspan="8">Learning outcomes/competences
On successful completion of the module, students have the following knowledge and skills:
• They know the principles of object-oriented programming and its implementation in the Java programming language.
• They know the type system, control structures, exception handling and the object concept in Java.
• They are able to design simple algorithms and programme them in Java.
• They are able to implement and test programmes using a development environment (e.g. Eclipse).
• They are able to explain the properties of different models of data modelling and can use the data models to design specific application scenarios.
• They are able to implement a data model using an actual database system.
• They are proficient in the SQL language and can manipulate databases and formulate complex inquiries.</td></tr>
<tr><td>3</td><td colspan="8">Contents
Programming
• Principles of programming
• Elements of the Java programming language
• Control structures
• Object-oriented programming in Java
• Programming tools
• ECLIPSE development environment

Data modelling
• Conceptual data modelling
o Entity-relationship (ER) model
o Extensions to ER models
o Object-oriented data models
• Theoretical principles
o Calculi of the database theory
o Algebra relations
o Regular expressions
• Logical data modelling
o Relational model concepts
o Principles of SQL
o XML</td></tr>
<tr><td>4</td><td colspan="8">Participation requirements
None</td></tr>
<tr><td>5</td><td colspan="8">Form of assessment
Written examination or oral examination</td></tr>
</table>

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6	**Condition for the award of credits** Module examination pass
7	**Application of the module** (in the following study programmes)**:** Business Information Systems (B.Sc.)
8	**Module coordinator** Prof. Dr. Peter Hartel
9	**Other information** -

Cost Accounting and Corporate Investment								**Module ID 5 CFR 94**
No.	**Workload**	**Credits**	**Study semester**	**Frequency**	**Sem.**	**Dura-tion**	**Type**	**Q-level**
	150 h	**6**	2nd sem.	Annual	Summer	1 sem.	Compulsory	B.Sc.
1	**Course type**		**Contact time**	**Self-study**	**Forms of teaching (learning methods)**		**Planned group size**	**Language**
	Lecture Exercise		2 SCH/30 h 2 SCH/30 h	90 h	Lecture Case studies/task processing		60 20	German German

2 **Learning outcomes/competences**

On successful completion of the module, students have the following knowledge and skills:

After successfully completing this module, students are able to

- map the integration of cost accounting and financial accounting in the ERP system,
- name and explain reference models (data, process and function models) within the framework of ERP systems,
- define the essential terms and possible applications of cost accounting,
- name and explain the procedures of the three levels of cost accounting,
- apply cost accounting methods to practical tasks in the ERP system,
- assess the decision-making relevance of the results of different cost accounting systems,
- name and explain detailed terms in corporate investment decisions,
- assess investment decisions in practice with regard to their contribution to the corporate goals, while taking into account how risk-adverse the decision-maker is and the information situation, and derive recommendations for management.

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3	**Contents** • Architecture of ERP systems • Reference models of ERP systems • Integration principles of application systems • Principles of cost accounting (tasks, goals, terms) • Types of accounting and cost allocation • Cost accounting systems on a full cost basis • Cost accounting systems on a partial cost basis • Insight into further cost accounting systems • Principles and types of investment decisions; tasks, principles and procedures of investment planning and calculation; dynamic investment calculation methods (including net present value, internal rate of return and annuity method); static methods of investment calculation (e.g. cost, profit, profitability and amortisation comparison calculation); determination of the optimal service life and resolution of the replacement problem.
4	**Participation requirements** None
5	**Form of assessment** Written examination or oral examination
6	**Condition for the award of credits** Module examination pass
7	**Application of the module** (in the following study programmes)**:** Business Information Systems (B.Sc.)
8	**Module coordinator** Prof. Dr. Volker Wiemann
9	**Other information** -

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Databases								Module ID 5 WIP 24
No.	**Workload**	**Credits**	**Study semester**	**Frequency**	**Sem.**	**Dura-tion**	**Type**	**Q-level**
	150 h	**6**	2nd sem.	Annual	Summer	1 sem.	Compulsory	B.Sc.

1	**Course type**	**Contact time**	**Self-study**	**Forms of teaching (learning methods)**	**Planned group size**	**Language**
	Lecture	2 SCH/30 h	90 h	Lecture	60	German
	Exercise	2 SCH/30 h		Case studies/task processing	20	German

2 **Learning outcomes/competences**

After successful participation in the course, students are able to:

- explain the most important functions of database management systems,
- assess the benefits of database systems in a project,
- create a database application, taking into account the transaction concept on the basis of different implementation concepts,
- utilise access rights and views for data protection,
- explain and evaluate the phases of data warehousing and the reference architecture of a data warehouse,
- apply the multidimensional data model, associated analysis operations and notations of conceptual modelling with a modelling tool,
- design the relational storage (star, snowflake schema) of the multidimensional data model,
- assess the use of NoSQL databases against the background of Big Data applications.

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3	**Contents** Assignment of rights and access control • Security models • Assignment of rights in SQL Database integrity and triggers • Architectures for securing integrity • Classification of integrity conditions • Integrity conditions in SQL • Integrity assurance through triggers Big data, data warehousing and OLAP • NoSQL databases • Development of analytical information systems • Data warehouse architecture • Data warehouse modelling and design • OLAP concepts and operations • ROLAP (Relational online analytical processing), MOLAP (Multidimensional online analytical processing), HOLAP (Hybrid Online Analytical Processing) Data mining • Classification • Data mining techniques • Association rules • Sequence analysis Database programming • JDBC (Java Database Connectivity) • Database programming frameworks Database design • Logical database design • Functional dependencies • Normalisation Transactions • Concurrency and anomalies • ACID (atomicity, consistency, isolation, and durability) properties of transactions • Execution plans and serialisability
4	**Participation requirements** Formal: none Content: participants are expected to have previous knowledge in the areas of programming, data modelling and SQL, as taught in Module 5 WI 22 (Principles of Computer Science).
5	**Form of assessment** Written examination or oral examination
6	**Condition for the award of credits** Module examination pass
7	**Application of the module** (in the following study programmes)**:** Business Information Systems (B.Sc.)
8	**Module coordinator** Prof. Dr. Peter Hartel
9	**Other information** -

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System Development								Module ID 5 WIP 25
No.	**Workload**	**Credits**	**Study semester**	**Frequency**	**Sem.**	**Dura-tion**	**Type**	**Q-level**
	300 h	**12**	2nd sem.	Annual	Summer	1 sem.	Compulsory	B.Sc.

1	**Course type**	**Contact time**	**Self-study**	**Forms of teaching (learning methods)**	**Planned group size**	**Language**
	Lecture	4 SCH/60 h	180 h	Sem. lessons	60	German
	Exercise	4 SCH/60 h		Case studies/task processing	20	German

2 **Learning outcomes/competences**

On successful completion of the module, students have the following knowledge and skills:

- They are able to explain the principles of process management.
- They are able to define operational procedures as processes.
- They are able to map processes as a process model in the BPMN (Business Process Model and Notation) language.
- They are able to elaborate on and explain essential elements of a process model in BPMN.
- They are able to define and explain the basic terms of software engineering.
- They are able to explain and apply different approaches in software engineering.
- They are able to collect and define requirements for a software system and model them as use cases and use case diagrams.
- They are able to model application domain concepts in domain class diagrams and derive sequence diagrams from use cases.
- They know the Java programming language and can use it to solve complex problems.
- They are able to implement systems using dynamic data structures.
- They are able to implement user interfaces.

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3	Contents

System analysis

- Process management in business information systems
  - Concept of a business process
  - Modelling business processes with the BPMN language
  - Application of modelling tools for business processes
  - Principles of process automation and process optimisation
- Principles of software engineering (SE)
  - Definition of terms
  - Properties of software
  - Motivation and history of SE
  - Principles, languages, methods and tools of SE
- Organisation of development projects
  - Software development tasks
  - Process models
  - Project organisation
- Definition of requirements for a software system
  - Scope of tasks
  - Classification of requirements
  - Specification sheet
  - Prototyping
  - Use cases and use case diagrams
  - Domain class diagrams
- Creation of an analysis model of the software system
  - Creating system sequence diagrams
  - Analysis class diagram

Programming

- Class hierarchies
  - Inheritance and polymorphism
  - Interfaces
  - Packages
- Standard input/output
  - Console input and output
  - Files and persistence
  - Standard class library
- Error and exception handling
  - Error classes
  - Exceptions and inheritance
- Dynamic data structures
  - Classes of the collection framework
  - Generics
  - Iterator concept
- Client-server architectures
  - Networking
  - Basic concepts of cloud-based software
- User interfaces
  - Structures of modern user interfaces
  - Event-driven programming, inversion-of-control
  - UI Controls
  - Layout and design

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4	**Participation requirements** Formal: none In terms of content: Participants in the course are expected to be proficient in the concept of algorithms, know the elementary data and control structures of programming, and to be confident in handling data modelling methods. This is the classic content of the introductory course "Principles of Computer Science."
5	**Form of assessment** Written examination or oral examination
6	**Condition for the award of credits** Module examination pass
7	**Application of the module** (in the following study programmes)**:** Business Information Systems (B.Sc.)
8	**Module coordinator** Prof. Dr. Jochen Küster, Prof. Dr. Alexander Förster
9	**Other information** -

Communication and Project Management								**Module ID 5 WIP 29**
No.	**Workload**	**Credits**	**Study semester**	**Frequency**	**Sem.**	**Dura-tion**	**Type**	**Q-level**
	150 h	**4**	3rd sem.	Annual	Winter	1 sem.	Compulsory	B.Sc.

1	**Course type**	**Contact time**	**Self-study**	**Forms of teaching (learning methods)**	**Planned group size**	**Language**
	Lecture	2 SCH/30 h	90 h	Lecture	60	German
	Exercise	2 SCH/30 h		Case studies/ task processing	20	German

2 Learning outcomes/competences

On successful completion of the module, students have the following knowledge and skills:

- They can successfully prepare, plan and carry out projects in an IT context.
- They are familiar with the central concepts of IT service management.
- They are able to discuss essential communication models and techniques, as well as forms of conversations, and apply these in the context of conversations.
- They are able to describe conflict types and levels and lead negotiations to resolve the conflict.

In addition, they are able to analyse and evaluate practical problems and ultimately derive recommendations for actions, in which, in addition to business information systems aspects, ethical and social issues are also taken into account.

They are able to reflect the relationships between scientific findings, complex situations and their own roles. In terms of engagement in society, students have an understanding of communication, negotiation and conflict resolution, and can apply this accordingly.

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3	**Contents** **Communication skills**: • Interview techniques • Feedback and active listening • Communication models (iceberg model, four-ears model, transaction analysis, TCI) • Communication types in IT projects **Project management (PM)**: • Principles of general PM • Special features of IT projects • Project goals • Project organisation • Stakeholder and risk management • Effort estimation, cost management, project controlling, change requests • Project agreements **Conflict management**: • Types and levels of conflicts • Conflict resolution techniques in IT projects, crisis management **IT service management** • Necessity and principles • Overview: books, processes, roles and organisation units of ITIL (IT Infrastructure Library) • In detail: IT operations management processes according to ITIL
4	**Participation requirements** None
5	**Form of assessment** Written examination or oral examination or a combination of project work and written examination
6	**Condition for the award of credits** Module examination pass
7	**Application of the module** (in the following study programmes)**:** Business Information Systems (B.Sc.)
8	**Module coordinator** Prof. Dr. Ulrich Schäfermeier
9	**Other information** -

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Software Engineering								Module ID 5 WIP 27
No.	**Workload**	**Credits**	**Study semester**	**Frequency**	**Sem.**	**Dura-tion**	**Type**	**Q-level**
	150 h	**6**	3rd sem.	Annual	Winter	1 sem.	Compulsory	B.Sc.

1	**Course type**	**Contact time**	**Self-study**	**Forms of teaching (learning methods)**	**Planned group size**	**Language**
	Lecture	2 SCH/30 h	90 h	Lecture	60	German
	Exercise	2 SCH/30 h		Case studies/task processing	20	German

2 Learning outcomes/competences

On successful completion of the module, students have the following knowledge and skills:

- They are able to define and explain the basic concepts of software design.
- They are able to systematically derive an analysis class diagram from the requirements by using sequence diagrams.
- They are able to explain the principles of software architecture.
- They are able to explain essential architectural patterns and apply them in software design.
- They are able to explain essential design patterns and apply them in software design.
- They are able to define and explain the basic terms of quality assurance.
- They are able to explain essential test procedures and apply them in system development.

3 Contents

- Creation of an analysis model of the software system
- Creation of analysis sequence diagrams and analysis class diagrams
- System design
- Component design
- General design concepts
- Object-oriented design concepts
- Transformation of business requirements
- Creation of an analysis model of the software system
- System sequence diagrams and analysis sequence diagrams
- Analysis class diagram
- Modelling of software architectures
- Model and code generation
- Software quality
- Preparation of integration and test plans
- Test methods
- Quality assurance
- Configuration management

4 Participation requirements

Formal: none

In terms of content: Participants are expected to have previous knowledge in the areas of programming and system analysis, as taught in Module 5 WI 25 (System Development).

5 Form of assessment

Written examination or oral examination

6 Condition for the award of credits

Module examination pass

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7	**Application of the module** (in the following study programmes)**:** Business Information Systems (B.Sc.)
8	**Module coordinator** Prof. Dr. Jochen Küster
9	**Other information** -

Mathematics for Business Information Systems								**Module ID 5 M/S 93**
No.	**Workload**	**Credits**	**Study semester**	**Frequency**	**Sem.**	**Dura-tion**	**Type**	**Q-level**
	150 h	**6**	3rd sem.	Annual	Winter	1 sem.	Compulsory	B.Sc.

1	**Course type**	**Contact time**	**Self-study**	**Forms of teaching (learning methods)**	**Planned group size**	**Language**
	Sem. lessons	4 SCH/60 h	90 h	Lecture and exercises	60	German

2	**Learning outcomes/competences** After successfully completing the module, students are able to analyse models on the basis of quantities, propositional logic and relations through acquired basic knowledge of the mathematical methods in business information systems. They master the basics of combinatorics and probability theory and are able to apply them.
3	**Contents** • Quantities • Logic • Relations • Figures • Combinatorics • Probability calculations
4	**Participation requirements** None
5	**Form of assessment** Written examination or oral examination
6	**Condition for the award of credits** Module examination pass
7	**Application of the module** (in the following study programmes)**:** Business Information Systems (B.Sc.)
8	**Module coordinator** Prof. Dr. Wolfgang Kohn
9	**Other information** -

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Software Project								Module ID 5 WIP 28
No.	**Workload**	**Credits**	**Study semester**	**Frequency**	**Sem.**	**Dura-tion**	**Type**	**Q-level**
	150 h	**6**	4th sem.	Annual	Summer	1 sem.	Project	B.Sc.

1	**Course type**	**Contact time**	**Self-study**	**Forms of teaching (learning methods)**	**Planned group size**	**Language**
	Project	4 SCH/60 h	90 h	Project work in small groups	15	German

2 Learning outcomes/competences

After successfully completing the module, students are able to develop a suitable information system for a complex task as part of a project team. They have the following knowledge and skills:

- They are able to analyse and plan a complex project task.
- They are able to develop a software system, from the requirements analysis up to final implementation.
- They know all the development phases that must be carried out as part of a software project and can create the necessary documents.
- They are able to apply the skills acquired in the first two semesters from the areas of programming, databases and software engineering in an extensive software project.

In addition, they are able to analyse and evaluate practical problems and ultimately derive recommendations for action, in which, in addition to business information systems aspects, ethical and social issues are also taken into account.

They are able to reflect on the relationships between scientific findings, complex situations of action and themselves. In terms of civic engagement, these students have an understanding of communication, negotiation and conflict resolution and can apply it accordingly.

3 Contents

Students develop a software system in teams of 4–6 people. The exact form of the assignment varies from semester to semester. The focus here is on creating, expanding or migrating an application system that is deployed in a business context. Techniques from the areas of programming, software engineering and database systems are to be used for implementation. In addition to the very small-scale training in software technology in the first two semesters, the focus here is on large-scale programming, i.e. modelling, modularisation, object orientation, use of libraries, tools, teamwork, documentation, etc.

4 Participation requirements

Formal examination requirements: Students must have passes in modules 5 WIP 25 (System Development) and 5 WIP 24 (Databases).

5 Form of assessment

Project work

6 Condition for the award of credits

Module examination pass

7 Application of the module (in the following study programmes)**:**

Business Information Systems (B.Sc.)

8 Module coordinator

Prof. Dr. Peter Hartel

9 Other information

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Web Technologies								Module ID 5 WIP 13
No.	**Workload**	**Credits**	**Study semester**	**Frequency**	**Sem.**	**Dura-tion**	**Type**	**Q-level**
	150 h	**6**	4th sem.	Annual	Summer	1 sem.	Compulsory	B.A.

1	**Course type**	**Contact time**	**Self-study**	**Forms of teaching (learning methods)**	**Planned group size**	**Language**
	Lecture	2 SCH/30 h	90 h	Lecture	60	German
	Exercise	2 SCH/30 h		Exercises on the PC	20	German

2 Learning outcomes/competences

On successful completion of the module, students have the following knowledge and skills:

- They are able to map the basic structure of web applications and their components.
- They are able to explain basic web technologies.
- They are able to justify the use of basic web technologies.
- They are able to create a web application based on HTML, CSS, and JavaScript.

3 Contents

- Introduction
- Architectural overview
- HTML (Hypertext Markup Language)
- CSS (Cascading Style Sheets)
- JavaScript
- AJAX
- Mobile web applications
- Alternative approaches

4 Participation requirements

Basic knowledge of programming, as taught in Modules 5 WI 22 (Principles of Computer Science) and 5 WI 25 (System Development) of the bachelor's degree in Business Information Systems.

5 Form of assessment

Written examination or oral examination

6 Condition for the award of credits

Module examination pass

7 Application of the module (in the following study programmes)**:**

Business Information Systems (B.Sc.)

8 Module coordinator

Prof. Dr. Hans Brandt-Pook

9 Other information

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Materials Management and Production Planning and Monitoring								Module ID 5 WIP 23
No.	**Workload**	**Credits**	**Study semester**	**Frequency**	**Sem.**	**Dura-tion**	**Type**	**Q-level**
	150 h	**6**	4th sem.	Annual	Summer	1 sem.	Compulsory	B.Sc.

1	**Course type**	**Contact time**	**Self-study**	**Forms of teaching (learning methods)**	**Planned group size**	**Language**
	Lecture Exercise	2 SCH/30 h 2 SCH/30 h	90 h	Lecture Case studies/ task processing	60 20	German German

2 Learning outcomes/competences

After successfully completing this module, students are able to:

- determine the different types of business and classify suitable methods in terms of the characteristics scheme within the framework of production planning and control,
- derive and describe necessary master and movement data for production planning and control,
- determine suitable forecasting methods for typical industries and products,
- explain and evaluate different disposition types and procedures,
- carry out material requirements planning (MRP) in the ERP system and apply the results (planned orders),
- describe the basic administrative handling of production orders, from initiation to confirmation,
- name and explain the steps in the procurement process,
- trace the order flow in sales, production, materials management and logistics on an ERP system,
- recognise and evaluate integration with other operational systems (e.g. CRM (Customer Relationship Management), SCM (Supply-Chain Management), MES (Manufacturing Execution Systems)),
- define the logistical processes associated with production processes.

3 Contents

Principles

- Definition of production, typological company diagram
- Master and movement data for production planning and control
- Reference models for production planning and control
- Elements of production programme planning, production requirements planning, production management, procurement

Concepts of materials management and production planning in ERP systems

- Sales planning within the framework
- Production programme planning, MRP (material requirements planning), consumption-based scheduling
- Capacity planning and alignment
- Production management, MES
- Logistics systems, SCM in contrast to ERP systems and interfaces

4 Participation requirements

None

5 Form of assessment

Written examination or oral examination

6 Condition for the award of credits

Module examination pass

7 Application of the module (in the following study programmes)**:**

Business Information Systems (B.Sc.)

8 Module coordinator

Prof. Dr. Achim Schmidtmann

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9	**Other information**
	-

Mathematics for Economists								**Module ID 5 M/S 91**
No.	**Workload**	**Credits**	**Study semester**	**Frequency**	**Sem.**	**Dura-tion**	**Type**	**Q-level**
	150 h	**6**	4th sem.	Bi-annual	Summer/ Winter	1 sem.	Compulsory	B.Sc.

1	**Course type**	**Contact time**	**Self-study**	**Forms of teaching (learning methods)**	**Planned group size**	**Language**
	Sem. lessons	4 SCH/60 h	90 h	Lecture and exercises	60	German

2	**Learning outcomes/competences**
	After successfully completing the module, students are able to analyse and resolve business issues (e.g. internal cost accounting, annuity calculation, income and cost functions) using their acquired basic knowledge of mathematical methods in economics and business administration.
3	**Contents**
	Elements of matrix algebra, linear equation systems, linear optimisation, economic applications of linear algebra, financial mathematics, differential calculus, microeconomic application of analysis, functions with two variables, extreme value calculation under secondary conditions, principles of integral calculus
4	**Participation requirements**
	None
5	**Form of assessment**
	Written examination or oral examination.
6	**Condition for the award of credits**
	Module examination pass
7	**Application of the module** (in the following study programmes)**:**
	Business Administration (B.A.), International Studies in Management (B.A.), Business Information Systems (B.Sc.)
8	**Module coordinator**
	Prof. Dr. Wolfgang Kohn
9	**Other information**

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Networks								Module ID 5 WIP 12
No.	**Workload**	**Credits**	**Study semester**	**Frequency**	**Sem.**	**Dura-tion**	**Type**	**Q-level**
	150 h	**6**	5th sem.	Annual	Winter	1 sem.	Compulsory	B.Sc.

1	**Course type**	**Contact time**	**Self-study**	**Forms of teaching (learning methods)**	**Planned group size**	**Language**
	Lecture Exercise	2 SCH/30 h 2 SCH/30 h	90 h	Lecture Practical application in the lab	60 20	German German

2 Learning outcomes/competences

On successful completion of the module, students have the following knowledge and skills:

Students are able to

- name the most important common protocols,
- explain their tasks and their structure,
- describe the interaction of the protocols,
- cable and configure simple local networks,
- name the components of network security architecture,
- explain their mode of operation and effectiveness.

3 Contents

Principles of networking

The ISO/OSI layer model

Local networks

- Ethernet
- WLAN

Wide area networks

- Broadband Internet
- FTTH (fibre-to-the-home)
- Transatlantic connections

Active network components

- Switches
- Bridges
- Routers/gateways

TCP/IP protocol stack

- IPv4
- IPv6
- TCP (Transmission Control Protocol)
- UDP (User Datagram Protocol)

Routing protocols

- Distance-vector routing protocols
- Link-state routing protocols
- Current examples of routing protocols

Network security

- Firewall components
- Firewall architectures
- Special network attacks

4 Participation requirements

None

5 Form of assessment

Written examination or oral examination

6 Condition for the award of credits

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	Module examination pass
7	**Application of the module** (in the following study programmes)**:** Business Information Systems (B.Sc.)
8	**Module coordinator** Prof. Dr. J.-M. Keuntje
9	**Other information** -

International Networking and Collaboration Project								**Module ID 5 S/P 94**
No.	**Workload**	**Credits**	**Study semester**	**Frequency**	**Sem.**	**Dura-tion**	**Type**	**Q-level**
	150 h	**6**	5th sem.	Annual	Winter	1 sem.	Compulsory	B.Sc.

1	**Course type**	**Contact time**	**Self-study**	**Forms of teaching (learning methods)**	**Planned group size**	**Language**
	Sem. lessons	4 SCH/60 h	90 h	Case studies, project and teamwork with coaching	60	English

2 Learning outcomes/competences

On successful completion of the module, students have the following knowledge and skills:

- They are able to express themselves orally and in writing in a corporate environment.
- They are able to extract specific information from research publications.
- They are able to prepare and create professional presentations and media on specialist topics in English.
- They are reasonably proficient in English to the extent that they can confidently handle teamwork, presentations, project reports and meetings.

In addition, they are able to analyse and evaluate practical problems and ultimately derive recommendations for action, in which, in addition to business information systems aspects, wider societal aspects are also taken into account.

They are able to reflect on the communication of scientific findings, on corporate and social problems and relevant IT-based support tools and their own role in the process.

3 Contents

Guidance and coaching regarding the

- oral and written presentation of processes and results in IT-related company areas such as:
  - Product development
  - Communication
  - Relevant aspects of human resources/organisation and
  - The economic environment of companies.
- Professional presentation and communication training on a project idea, plan or completed project.
- Training in writing English-language reports.
- Language tools for drafting reports, in particular preparing business reports or media.
- Use of IT-specific language in English.

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4	**Participation requirements** None
5	**Form of assessment** Project work
6	**Condition for the award of credits** Module examination pass
7	**Application of the module** (in the following study programmes)**:** Business Information Systems (B.Sc.)
8	**Module coordinator** Bernd Kleinheyer
9	**Other information** -

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<table>
<tr><td colspan="8">Technology of Enterprise Resource Planning Systems</td><td>Module ID 5
WIP 26</td></tr>
<tr><td>No.</td><td>Workload</td><td>Credits</td><td>Study semester</td><td>Frequency</td><td>Sem.</td><td>Dura-tion</td><td>Type</td><td>Q-level</td></tr>
<tr><td></td><td>150 h</td><td>6</td><td>5th sem.</td><td>Annual</td><td>Winter</td><td>1 sem.</td><td>Compulsory</td><td>B.Sc.</td></tr>
<tr><td>1</td><td colspan="2">Course type</td><td>Contact time</td><td>Self-study</td><td colspan="2">Forms of teaching (learning methods)</td><td>Planned group size</td><td>Language</td></tr>
<tr><td></td><td colspan="2">Lecture</td><td>2 SCH/30 h</td><td>90 h</td><td colspan="2">Lecture</td><td>60</td><td>German, English</td></tr>
<tr><td></td><td colspan="2">Exercise</td><td>2 SCH/30 h</td><td></td><td colspan="2">Practical application in the lab</td><td>20</td><td>German, English</td></tr>
<tr><td>2</td><td colspan="8">Learning outcomes/competences
Upon successful completion of the module, students are able to demonstrate the following knowledge and skills:
Students are able to explain the basic concepts of customising up-to-date standard ERP systems.
They are able to select ERP systems and systematically introduce them in a business application environment.
They can ensure smooth system operation.
Students are able to make adjustments to a selected system in the form of customising and enhancement programming.</td></tr>
<tr><td>3</td><td colspan="8">Contents
The transfer of conceptual knowledge takes place in the following areas:
Process models for the introduction of ERP systems
Technical organisation of ERP projects
Configuration options/customising of ERP systems in operational use, in particular mapping of organisational structures, international application and the process mapping of selected scenarios
System administration tasks
Enhancement programming
Practical exercises to convey and consolidate practical skills in the fields of enhancement programming and customising are scenario-based in a widespread ERP system.</td></tr>
<tr><td>4</td><td colspan="8">Participation requirements
None</td></tr>
<tr><td>5</td><td colspan="8">Form of assessment
Written examination or oral examination</td></tr>
<tr><td>6</td><td colspan="8">Condition for the award of credits
Module examination pass</td></tr>
<tr><td>7</td><td colspan="8">Application of the module (in the following study programmes):
Business Information Systems (B.Sc.)</td></tr>
<tr><td>8</td><td colspan="8">Module coordinator
Prof. Dr. Volker Wiemann</td></tr>
<tr><td>9</td><td colspan="8">Other information
-</td></tr>
</table>

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Concepts and Technologies in E-Commerce								Module ID 5 WIP 14
No.	**Workload**	**Credits**	**Study semester**	**Frequency**	**Sem.**	**Dura-tion**	**Type**	**Q-level**
	150 h	**6**	5th sem.	Annual	Winter	1 sem.	Compulsory	B.Sc.

1	**Course type**	**Contact time**	**Self-study**	**Forms of teaching (learning methods)**	**Planned group size**	**Language**
	Lecture	2 SCH/30 h	90 h	Lecture	60	German
	Exercise	2 SCH/30 h		Case studies/task processing	20	German

2 Learning outcomes/competences

On successful completion of the module, students have the following knowledge and skills:

- They are able to define the terms e-commerce and e-business and describe their current meaning.
- They are able to create a database-based server application with PHP.
- They are able to design and implement interfaces in e-commerce.
- They are able to design a website and implement it with a content management system.
- They are able to explain basic legal regulations in e-commerce.
- They are able to select, install, configure and operate tools in e-commerce.

3 Contents

Introduction

- e-Business & e-Commerce – Definitions

Server technologies

- MySQL & PHP
- XML & co.

Website & e-Commerce

- Design of a website
- Relevant legal regulations in e-commerce
- Content management systems
- Technical search engine optimisation

Tools in e-commerce

- Online shop systems
- Payment systems
- Analytical systems
- Outlook

4 Participation requirements

Knowledge of web technologies as taught, for example, in module 5 WI 13 of the bachelor's degree study in Business Information Systems.

5 Form of assessment

Written examination or oral examination

6 Condition for the award of credits

Module examination pass

7 Application of the module (in the following study programmes)**:**

Business Information Systems (B.Sc.)

8 Module coordinator

Prof. Dr. Hans Brandt-Pook

9 Other information

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IT Systems and Security								Module ID 5 WIP 11
No.	**Workload**	**Credits**	**Study semester**	**Frequency**	**Sem.**	**Dura-tion**	**Type**	**Q-level**
	150 h	**6**	4th sem.	Annual	Summer	1 sem.	Compulsory	B.Sc.

1	**Course type**	**Contact time**	**Self-study**	**Forms of teaching (learning methods)**	**Planned group size**	**Language**
	Sem. lessons	4 SCH/60 h	90 h	Sem. lessons and exercises	60	German

2 Learning outcomes/competences

On successful completion of the module, students have the following knowledge and skills:

Students are able to

- name the most important hardware components of a computer,
- explain their structure and functionality,
- describe the tasks and mode of operation of operating systems,
- explain the tasks of systems support,
- act in a security-conscious manner,
- understand and assess security measures.

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3	**Contents**
	• Introduction
	  ○ Definition of the term "operating system"
	  ○ Tasks and objectives
	  ○ Examples
	• Hardware
	  ○ Electrotechnical basics
	  ○ Processor (CPU)
	  ○ Virtual and real main memory
	  ○ Hard disks
	  ○ Interrupts
	  ○ Buses
	  ○ Booting a computer
	• General information on operating systems
	  ○ Modular structure
	  ○ Operating system requirements
	  ○ Classification of computers
	  ○ Configuration of a computer
	  ○ Regular system support tasks
	• Processes
	  ○ Threads
	  ○ Process context
	  ○ Process states
	  ○ Scheduling
	  ○ Deadlocks
	  ○ Process synchronisation
	• Files
	  ○ File properties
	  ○ Files and directories
	  ○ Implementation of files
	• Network operating systems
	  ○ Distributed systems
	  ○ Architectures
	• IT security
	  ○ Responsibilities
	  ○ Certification according to BSI
	  ○ Hazards and protective measures
	  ○ Attacks and protective measures
	  ○ Cryptology
	  ○ Digital signatures
	  ○ Certificates from trust centres

4	**Participation requirements** None
5	**Form of assessment** Written examination or oral examination
6	**Condition for the award of credits** Module examination pass
7	**Application of the module** (in the following study programmes)**:** Business Information Systems (B.Sc.)
8	**Module coordinator** Prof. Dr. J.-M. Keuntje
9	**Other information** -

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Seminar on Business Information Systems								Module ID 5 WIP 15
No.	**Workload**	**Credits**	**Study semester**	**Frequency**	**Sem.**	**Dura-tion**	**Type**	**Q-level**
	150 h	**6**	4th sem.	Bi-annual	Summer/ Winter	1 sem.	Compulsory	B.Sc.

1	**Course type**	**Contact time**	**Self-study**	**Forms of teaching (learning methods)**	**Planned group size**	**Language**
	Seminar	4 SCH/60 h	90 h	Seminar with coaching	60	German

2 Learning outcomes/competences

On successful completion of the module, students have the following knowledge and skills:

They are able to work independently on a current topic in business information systems, present and discuss the topic in a scientific talk, and prepare it in the form of a written paper.

They are familiar with the principles of scientific work and are able to implement them in the context of a scientific paper.

They are proficient in communication and presentation techniques and can apply them in a specialist talk.

3 Contents

The themes dealt with differ from those on other courses by their topicality. In particular, themes that reflect the current state of research are dealt with. As an example, seminar topics from the following subject areas may be offered:

- Software Engineering
- Databases
- Information systems
- ERP systems
- Network technology
- IT security
- E-commerce

4 Participation requirements

None

5 Form of assessment

Presentation

6 Condition for the award of credits

Module examination pass

7 Application of the module (in the following study programmes)**:**

Business Information Systems (B.Sc.)

8 Module coordinator

Prof. Dr. Peter Hartel

9 Other information

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Bachelor Thesis								Module ID 5 WIP 49
No.	**Workload**	**Credits**	**Study semester**	**Frequency**	**Sem.**	**Dura-tion**	**Type**	**Q-level**
	300 h	**12**	6th sem.	Bi-annual	Summer/ Winter	1 sem.	Compulsory	B.Sc.

1	**Course type**	**Contact time**	**Self-study**	**Forms of teaching (learning methods)**	**Planned group size**	**Language**
	--	--	300 h	--	--	German

2	**Learning outcomes/competences** After completing the bachelor thesis, students are able to independently perform a practice-oriented task from their special subject within a specified time period, usually in connection with the work term, both in its technical details and in an interdisciplinary context, according to scientific methods.
3	**Contents** As a rule, the bachelor thesis consists of the conception, implementation and evaluation of a project in institutions that are related to the objectives and content of the study programme. The bachelor thesis should not exceed 40 pages of text in length.
4	**Participation requirements** These are governed by the Examination Regulations, cf. Section 24 (1) SPO
5	**Form of assessment** Bachelor thesis
6	**Condition for the award of credits** Bachelor thesis pass
7	**Application of the module** (in the following study programmes)**:** Business Information Systems (B.Sc.)
8	**Module coordinator** Prof. Dr. Peter Hartel
9	**Other information** -

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Work-Related Module I								Module ID 5 WIP 40
No.	**Workload**	**Credits**	**Study semester**	**Frequency**	**Sem.**	**Dura-tion**	**Type**	**Q-level**
	75 h	**3**	1st sem.	Annual	Winter	1 sem.	Compulsory	B.Sc.
1	**Course type**		**Contact time**	**Self-study**	**Forms of teaching (learning methods)**		**Planned group size**	**Language**
	Internship		--	75 h	--		--	--

2 Learning outcomes/competences

On successful completion of the module, students have the following knowledge and skills:

They are able to apply the specialist knowledge acquired during the previous course in operational practice and transfer it to specific tasks in operational practice.

In addition, they are able to analyse and evaluate practical problems and ultimately derive recommendations for action, in which, in addition to business information systems aspects, ethical and social issues are also taken into account.

They are able to reflect on the relationships between scientific findings, complex situations of action and themselves. In terms of civic engagement, these students have an understanding of communication, negotiation and conflict resolution and can apply it accordingly.

3 Contents

In the so-called "short" work-related module, students are introduced to the professional activities of a business information systems specialist through practical work in a business. Based on the contents of the course of study previously imparted in the academic terms, the students should be confronted with the requirements of operational practice. They are given the opportunity to make observations and gain practical experience and, if necessary, are given scope for their own decision-making. Instruction in practical work is provided by an in-company supervisor, with the support of teaching staff if necessary.

The internship includes the following central elements:

a) Agreement on the terms of the internship and preparatory discussions with the in-company supervisor
b) Accompaniment of the internship by an in-company supervisor and needs-oriented support by a member of teaching staff
c) Evidence of practical activity through listing the activities carried out in a table (proof of the implementation of the "short" internship).
d) Final meeting with the in-company supervisor

4 Participation requirements

Compulsory participation after the academic term of the first semester.

5 Form of assessment

Requirements for the award of credit points are governed by the Examination Regulations. Cf. Section 18 (3) SPO.

6 Condition for the award of credits

Module examination pass

7 Application of the module (in the following study programmes)**:**

Business Information Systems (B.Sc.)

8 Module coordinator

Prof. Dr. Peter Hartel

9 Other information

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Work-Related Module II								Module ID 5 WIP 41
No.	**Workload**	**Credits**	**Study semester**	**Frequency**	**Sem.**	**Dura-tion**	**Type**	**Q-level**
	75 h	**3**	2nd sem.	Annual	Summer	1 sem.	Compulsory	B.Sc.

1	**Course type**	**Contact time**	**Self-study**	**Forms of teaching (learning methods)**	**Planned group size**	**Language**
	Internship	--	75 h	--	--	--

2 Learning outcomes/competences

On successful completion of the module, students have the following knowledge and skills:

They are able to apply the specialist knowledge acquired during the previous course in operational practice and transfer it to specific tasks in operational practice.

In addition, they are able to analyse and evaluate practical problems and ultimately derive recommendations for action, in which, in addition to business information systems aspects, ethical and social issues are also taken into account.

They are able to reflect on the relationships between scientific findings, complex situations of action and themselves. In terms of civic engagement, these students have an understanding of communication, negotiation and conflict resolution and can apply it accordingly.

3 Contents

In the so-called "short" work-related module, students are introduced to the professional activities of a business information systems specialist through practical work in a business. Based on the contents of the course of study previously imparted in the academic terms, the students should be confronted with the requirements of operational practice. They are given the opportunity to make observations and gain practical experience and, if necessary, are given scope for their own decision-making. Instruction in practical work is provided by an in-company supervisor, with the support of teaching staff if necessary.

The internship includes the following central elements:

a) Agreement on the terms of the internship and preparatory discussions with the in-company supervisor
b) Accompaniment of the internship by an in-company supervisor and needs-oriented support by a member of teaching staff
c) Evidence of practical activity through listing the activities carried out in a table (proof of the implementation of the "short" internship).
d) Final meeting with the in-company supervisor

4 Participation requirements

Compulsory participation after the academic term of the second semester.

5 Form of assessment

Requirements for the award of credit points are governed by the Examination Regulations. Cf. Section 18 (3) SPO.

6 Condition for the award of credits

Module examination pass

7 Application of the module (in the following study programmes)**:**

Business Information Systems (B.Sc.)

8 Module coordinator

Prof. Dr. Peter Hartel

9 Other information

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Work-Related Module III								Module ID 5 WIP 42
No.	**Workload**	**Credits**	**Study semester**	**Frequency**	**Sem.**	**Dura-tion**	**Type**	**Q-level**
	225 h	**9**	3rd sem.	Annual	Winter	1 sem.	Compulsory	B.Sc.

1	**Course type**	**Contact time**	**Self-study**	**Forms of teaching (learning methods)**	**Planned group size**	**Language**
	Internship	--	225 h	--	--	--

2 Learning outcomes/competences

On successful completion of the module, students have the following knowledge and skills:

They are able to apply the specialist knowledge acquired during the previous course in operational practice and transfer it to specific tasks in operational practice.

In addition, they are able to analyse and evaluate practical problems and ultimately derive recommendations for action, in which, in addition to business information systems aspects, ethical and social issues are also taken into account.

They are able to reflect on the relationships between scientific findings, complex situations of action and themselves. In terms of civic engagement, these students have an understanding of communication, negotiation and conflict resolution and can apply it accordingly.

3 Contents

In the so-called "long" work-related module, students have to work on specific projects/questions in the context of business information systems. Individual problems should be examined and resolved holistically.

The procedure and results of the project/question are documented and graded according to the rules of the techniques of scientific work.

The topics to be dealt with must be related to business information systems and based on the module content of the curriculum.
The subject is approved by teaching staff at the suggestion of the student. The faculty tutor guides the students with the support of the in-company supervisor and oversees the course.

The internship includes the following central elements:

a) Internship and preparatory talks with the in-company supervisor
b) Internship and preparatory talks with the faculty tutor
c) Topic definition (based on proposals determined in preliminary discussions) by the faculty tutor
d) Accompaniment of the internship by the in-company supervisor and the faculty tutor
e) Preparation of a term paper by students
f) Final meeting with the in-company supervisor
g) Grading and final interview with the supervising professor

4 Participation requirements

Compulsory participation after the academic term of the third semester.

5 Form of assessment

Requirements for the award of credit points are governed by the Examination Regulations. Cf. Section 18 (3) SPO.

6 Condition for the award of credits

Module examination pass

7 Application of the module (in the following study programmes)**:**

Business Information Systems (B.Sc.)

8 Module coordinator

Prof. Dr. Peter Hartel

9 Other information

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Work-Related Module IV								Module ID 5 WIP 43
No.	**Workload**	**Credits**	**Study semester**	**Frequency**	**Sem.**	**Dura-tion**	**Type**	**Q-level**
	75 h	**3**	4th sem.	Annual	Summer	1 sem.	Compulsory	B.Sc.

1	**Course type**	**Contact time**	**Self-study**	**Forms of teaching (learning methods)**	**Planned group size**	**Language**
	Internship	--	75 h	--	--	--

2 Learning outcomes/competences

On successful completion of the module, students have the following knowledge and skills:

They are able to apply the specialist knowledge acquired during the previous course in operational practice and transfer it to specific tasks in operational practice.

In addition, they are able to analyse and evaluate practical problems and ultimately derive recommendations for action, in which, in addition to business information systems aspects, ethical and social issues are also taken into account.

They are able to reflect on the relationships between scientific findings, complex situations of action and themselves. In terms of civic engagement, these students have an understanding of communication, negotiation and conflict resolution and can apply it accordingly.

3 Contents

In the so-called "short" work-related module, students are introduced to the professional activities of a business information systems specialist through practical work in a business. Based on the contents of the course of study previously imparted in the academic terms, the students should be confronted with the requirements of operational practice. They are given the opportunity to make observations and gain practical experience and, if necessary, are given scope for their own decision-making. Instruction in practical work is provided by an in-company supervisor, with the support of teaching staff if necessary.

The internship includes the following central elements:

a) Agreement on the terms of the internship and preparatory discussions with the in-company supervisor
b) Accompaniment of the internship by an in-company supervisor and needs-oriented support by a member of teaching staff
c) Evidence of practical activity through listing the activities carried out in a table (proof of the implementation of the "short" internship).
d) Final meeting with the in-company supervisor

4 Participation requirements

Compulsory participation after the academic term of the fourth semester.

5 Form of assessment

Requirements for the award of credit points are governed by the Examination Regulations. Cf. Section 18 (3) SPO.

6 Condition for the award of credits

Module examination pass

7 Application of the module (in the following study programmes)**:**

Business Information Systems (B.Sc.)

8 Module coordinator

Prof. Dr. Peter Hartel

9 Other information

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Work-Related Module V								Module ID 5 WIP 44
No.	**Workload**	**Credits**	**Study semester**	**Frequency**	**Sem.**	**Dura-tion**	**Type**	**Q-level**
	75 h	**3**	5th sem.	Annual	Winter	1 sem.	Compulsory	B.Sc.
1	**Course type**		**Contact time**	**Self-study**	**Forms of teaching (learning methods)**		**Planned group size**	**Language**
	Internship		--	75 h	--		--	--

2 Learning outcomes/competences

On successful completion of the module, students have the following knowledge and skills:

They are able to apply the specialist knowledge acquired during the previous course in operational practice and transfer it to specific tasks in operational practice.

In addition, they are able to analyse and evaluate practical problems and ultimately derive recommendations for action, in which, in addition to business information systems aspects, ethical and social issues are also taken into account.

They are able to reflect on the relationships between scientific findings, complex situations of action and themselves. In terms of civic engagement, these students have an understanding of communication, negotiation and conflict resolution and can apply it accordingly.

3 Contents

In the so-called "short" work-related module, students are introduced to the professional activities of a business information systems specialist through practical work in a business. Based on the contents of the course of study previously imparted in the academic terms, the students should be confronted with the requirements of operational practice. They are given the opportunity to make observations and gain practical experience and, if necessary, are given scope for their own decision-making. Instruction in practical work is provided by an in-company supervisor, with the support of teaching staff if necessary.

The internship includes the following central elements:

a) Agreement on the terms of the internship and preparatory discussions with the in-company supervisor
b) Accompaniment of the internship by an in-company supervisor and needs-oriented support by a member of teaching staff
c) Evidence of practical activity through listing the activities carried out in a table (proof of the implementation of the "short" internship).
d) Final meeting with the in-company supervisor

4 Participation requirements

Compulsory participation after the academic term of the fifth semester.

5 Form of assessment

Requirements for the award of credit points are governed by the Examination Regulations. Cf. Section 18 (3) SPO.

6 Condition for the award of credits

Module examination pass

7 Application of the module (in the following study programmes)**:**

Business Information Systems (B.Sc.)

8 Module coordinator

Prof. Dr. Peter Hartel

9 Other information

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Please note: The German version of this document is the legally binding version. The English translation provided here is for information purposes only.

Work-Related Module VI								Module ID 5 WIP 45
No.	**Workload**	**Credits**	**Study semester**	**Frequency**	**Sem.**	**Dura-tion**	**Type**	**Q-level**
	225 h	**9**	6th sem.	Annual	Summer	1 sem.	Compulsory	B.Sc.

1	**Course type**	**Contact time**	**Self-study**	**Forms of teaching (learning methods)**	**Planned group size**	**Language**
	Internship	--	225 h	--	--	--

2 Learning outcomes/competences

On successful completion of the module, students have the following knowledge and skills:

They are able to apply the specialist knowledge acquired during the previous course in operational practice and transfer it to specific tasks in operational practice.

In addition, they are able to analyse and evaluate practical problems and ultimately derive recommendations for action, in which, in addition to business information systems aspects, ethical and social issues are also taken into account.

They are able to reflect on the relationships between scientific findings, complex situations of action and themselves. In terms of civic engagement, these students have an understanding of communication, negotiation and conflict resolution and can apply it accordingly.

3 Contents

In the so-called "long" work-related module, students have to work on specific projects/questions in the context of business information systems. Individual problems should be examined and resolved holistically.

The procedure and results of the project/question are documented and graded according to the rules of the techniques of scientific work.

The topics to be dealt with must be related to business information systems and based on the module content of the curriculum.
The subject is approved by teaching staff at the suggestion of the student. The faculty tutor guides the students with the support of the in-company supervisor and oversees the course.

The internship includes the following central elements:

a) Internship and preparatory talks with the in-company supervisor
b) Internship and preparatory talks with the supervising university professor
c) Topic definition (based on proposals determined in preliminary discussions) by the faculty tutor
d) Accompaniment of the internship by the in-company supervisor and the faculty tutor
e) Preparation of a term paper by students
f) Final meeting with the in-company supervisor
   Grading and final interview with the supervising professor

4 Participation requirements

Compulsory participation after the academic term of the sixth semester.

5 Form of assessment

Requirements for the award of credit points are governed by the Examination Regulations. Cf. Section 18 (3) SPO.

6 Condition for the award of credits

Module examination pass

7 Application of the module (in the following study programmes)**:**

Business Information Systems (B.Sc.)

8 Module coordinator

Prof. Dr. Peter Hartel

9 Other information

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Principles of Controlling								Module ID 5 CFR 43
No.	**Workload**	**Credit points**	**Study semester**	**Frequency**	**Sem.**	**Dura-tion**	**Type**	**Q-level**
	150 h	**6**	6th or 7th sem.	Bi-annual	Winter/ Summer	1 sem.	Compulsory elective	B.Sc.

1	**Course type**	**Contact time**	**Self-study**	**Forms of teaching (learning methods)**	**Planned group size**	**Language**
	Sem. lessons	4 SCH/60 h	90 h	Lecture	35	German

2 Learning outcomes/competences

After successfully participating in this module, students are able to organise and create period-specific plans, and in particular carry out budgeting and the associated controls.
They are also able to describe indicators and carry out an indicator analysis. In addition, students are able to evaluate operational overall operational and functional area-related indicators with regard to the management of the company after data preparation.
Participants are able to formulate the main features of value-based controlling, carry out an environmental and company analysis, and develop a risk management system.

3 Contents

General part: planning and control, key performance indicators (KPI) and KPI analysis, data preparation, reporting (information supply)
Operational part: budgeting, overall operational indicator analysis, indicator analysis in the functional areas
Strategic sub-area: principles of value-based controlling, principles of risk management, environmental analysis, company analysis (PIMS (Production Information Management System), core competences, SWOT, etc.), strategic control, strategic performance measurement systems (BSC (Balanced scorecard), etc.)

4 Participation requirements

Basic knowledge of internal and external accounting is recommended.

5 Form of assessment

Written examination or term paper or oral examination

6 Condition for the award of credit points

Module examination pass

7 Application of the module (in the following study programmes)**:**

Business Administration (B.A.), Business Administration (work-integrated) (B.A.), Business Information Systems (B.Sc.)

8 Module coordinator

Prof. Dr. Martin Wördenweber

9 Other information

Term papers can, if applicable, be written during the preceding lecture-free period. If this is case, further information can be found in ILIAS.

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Financial Management								Module ID 5 CFR 44
No.	**Workload**	**Credit points**	**Study semester**	**Frequency**	**Sem.**	**Dura-tion**	**Type**	**Q-level**
	150 h	**6**	6th or 7th sem.	Bi-annual	Winter/ Summer	1 sem.	Compulsory elective	B.Sc.

1	**Course type**	**Contact time**	**Self-study**	**Forms of teaching (learning methods)**	**Planned group size**	**Language**
	Sem. lessons	4 SCH/60 h	90 h	Lecture, exercises, case studies	35	German

2 Learning outcomes/competences

After successfully completing this module, students are able to:

- define essential goals of the financial management of a company,
- understand and evaluate the structure and process organisation of financial management in medium-sized to large companies in all sectors,
- analyse financial flows in groups and carry out detailed financial planning,
- apply concepts for optimising financial structures and developing overall solutions for financial management,
- explain essential capital market-based financial instruments to cover capital requirements, evaluate them with appropriate models, and select suitable ones,
- identify basic financial risks and outline and apply risk reduction options,
- describe and utilise techniques and framework conditions of strategic financial management concepts,
- determine, evaluate and assess financial information using suitable methods.

3 Contents

- Principles + organisation of financial management
- Financial planning
  - Cash flows
  - Cash flow statement
  - Short-, medium- and long-term financial plans
- International financial processes
  - International trade finance
  - Netting, cash pooling, payment factory, in-house bank
  - Interest and currency management
- Investment + financing strategies
  - Principles of capital markets
  - Consolidation in bonds, stocks and asset-backed securities
  - Strategies
- Working capital management
- Capital costs and capital structure
- Finance controlling

4 Participation requirements

Basic knowledge as taught in Module 5 CFR 04 "Financing & Investments;" knowledge of mathematical and statistical principles is also recommended.

5 Form of assessment

Written examination or term paper or oral examination

6 Condition for the award of credit points

Module examination pass

7 Application of the module (in the following study programmes)**:**

Business Administration (B.A.), Business Administration (work-integrated) (B.A.), Business Information Systems (B.Sc.)

8 Module coordinator

Prof. Dr. Andreas Uphaus

9 Other information

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Annual Accounts and Analysis								Module ID 5 CFR 45
No.	**Workload**	**Credit points**	**Study semester**	**Frequency**	**Sem.**	**Dura-tion**	**Type**	**Q-level**
	150 h	**6**	6th or 7th sem.	Bi-annual	Winter/ Summer	1 sem.	Compulsory elective	B.Sc.

1	**Course type**	**Contact time**	**Self-study**	**Forms of teaching (learning methods)**	**Planned group size**	**Language**
	Sem. lessons	4 SCH/60 h	90 h	Lecture, exercises, case studies	35	German

2 Learning outcomes/competences

After successfully completing this module, students are able to:

- name and explain important terms in annual financial statement policy and analysis,
- identify accounting policy options and classify them in terms of their importance for annual financial statements,
- name concepts and procedures in annual financial statement analysis,
- select and apply suitable concepts and procedures related to specific issues concerning analysis,
- assess annual financial statements from practice with regard to their informative value and derive recommendations for management from them.

All learning outcomes are based, amongst other things, on a familiarity with the current legal standards for accounting, generally the commercial law (HGB – Handelsgesetzbuch – German Commercial Code), and in selected cases the International Financial Reporting Standards (IFRS).

3 Contents

- Nature of annual financial statement policy
- Motives and goals of annual financial statement policy
- Tools for annual financial statement policy
- Limits of annual financial statement policy
- Preparatory measures for annual financial statements
- Traditional methods of annual financial statement analysis (key figure calculation)
- Modern methods of annual financial statement analysis

4 Participation requirements

Basic knowledge of external accounting against the background of German and international legal standards (HGB and IFRS), as taught in Module 5 CFR 81 "External Accounting", is recommended.

5 Form of assessment

Written examination or term paper or oral examination

6 Condition for the award of credit points

Module examination pass

7 Application of the module (in the following study programmes)**:**

Business Administration (B.A.), Business Administration (work-integrated) (B.A.), Business Information Systems (B.Sc.)

8 Module coordinator

Prof. Dr. Ulrike Settnik

9 Other information

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Principles of Marketing								Module ID 5 MKT 21
No.	**Workload**	**Credit points**	**Study semester**	**Frequency**	**Sem.**	**Dura-tion**	**Type**	**Q-level**
	150 h	**6**	6th or 7th sem.	Bi-annual	Winter/ Summer	1 sem.	Compulsory elective	B.Sc.

1	**Course type**	**Contact time**	**Self-study**	**Forms of teaching (learning methods)**	**Planned group size**	**Language**
	Sem. lessons	4 SCH/60 h	90 h	Lecture	35	German

2 Learning outcomes/competences

On successful completion of the module, students have the following knowledge and skills:

- They are able to define the main terms and place them in the overall context of marketing.
- They are able to apply the essential methods of situation analysis.
- They are able to outline the structure and components of a marketing concept.
- They are able to discuss the specific characteristics of selected institutional marketing forms.
- They are able to represent basic process and structural regulations for coping with marketing tasks.
- They are able to define the main tasks of marketing controlling.
- They are able to resolve tasks using the technical and methodological skills that they have learned.

3 Contents

- Classification of marketing in the business context
- Information bases on buyer behaviour, marketing research and market segmentation
- Methods of situation analysis
- Marketing conceptualisation:
  - Targets, strategies of the Ansoff Matrix, principles of product, price, distribution and communication policy
- Marketing organisation
- Marketing controlling (MC)

4 Participation requirements

None

5 Form of assessment

Written examination or oral examination

6 Condition for the award of credit points

Module examination pass

7 Application of the module (in the following study programmes)**:**

Business Administration (B.A.), Business Information Systems (B.Sc.)

8 Module coordinator

Prof. Dr. Kerstin Stender-Monhemius

9 Other information

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Buyer Behaviour and Marketing Research								Module ID 5 MKT 31
No.	**Workload**	**Credit points**	**Study semester**	**Frequency**	**Sem.**	**Dura-tion**	**Type**	**Q-level**
	150 h	**6**	6th or 7th sem.	Bi-annual	Winter/ Summer	1 sem.	Compulsory elective	B.Sc.

1	**Course type**	**Contact time**	**Self-study**	**Forms of teaching (learning methods)**	**Planned group size**	**Language**
	Sem. lessons	4 SCH/60 h	90 h	Lecture, case studies, exercises, group work	35	German

2 Learning outcomes/competences

On successful completion of the module, students have the following knowledge and skills:

Buyer behaviour

- They know the essential parts of the brain, their functions and the sensory system and can derive and understand the context and significance for buyer behaviour.
- They are able to determine the intrapersonal determinants of buyer behaviour (e.g. activation, motives, attitudes, satisfaction, perception, learning) and the interpersonal determinants (e.g. affinity groups, influencers) and can derive, analyse and evaluate the relevance of these determinants to explain the triggered buyer behaviour.
- They are able to derive, analyse and further develop the implications of the explanatory approaches of buyer behaviour for the design of marketing stimuli.
- They are able to analyse and evaluate buyer behaviour in organisations based on specific aspects of industrial purchasing decisions and the buying centre approach.

Marketing research

- They are familiar with the measurement levels and their properties as well as the quality criteria for assessing measured data. They are familiar with essential scaling procedures and can analyse and critically reflect on these and their fields of application.
- They are able to measure the relevant psychological reactions (e.g. activation, motives, attitudes, satisfaction, etc.) and can apply, analyse and assess these in the context of market research.
- They are able to present selection procedures, as well as the surveying, observation and experimenting methods as well as special forms (e.g. panel, neuroscientific methods), and analyse and evaluate these for research into marketing issues.
- They are able to apply selected methods of uni-, bi- and multivariate data analysis and analyse and evaluate results of marketing research.

3 Contents

Buyer behaviour

- The discovery, use and rationale of buyer behaviour research
- Essential neuroanatomical structures and their significance for buyer behaviour
- Importance of the sensory system for buyer behaviour
- Intrapersonal determinants of buyer behaviour
- Interpersonal determinants
- Purchasing behaviour of companies
- Selected implications of the insights for marketing

Marketing research

- Marketing research as a make-or-buy decision
- Measurement and scaling
- Measurement approaches of intrapersonal determinants
- Non-random and random selection procedures
- Methods of information acquisition (secondary research, survey, observation, experiment, special methods)
- Information evaluation (uni-, bi-, multivariate evaluation methods)

4 Participation requirements

A basic knowledge of marketing is recommended.

5 Form of assessment

Written examination or oral examination

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6	**Condition for the award of credit points** Module examination pass
7	**Application of the module** (in the following study programmes)**:** Business Administration (B.A.), Business Information Systems (B.Sc.), Business Administration (work-integrated) (B.A.)
8	**Module coordinator** Prof. Dr. Kerstin Stender-Monhemius
9	**Other information** -

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Brand and Communication Management / Channel Management and Pricing								Module ID 5 MKT 32
No.	**Workload**	**Credit points**	**Study semester**	**Frequency**	**Sem.**	**Dura-tion**	**Type**	**Q-level**
	150 h	**6**	6th or 7th sem.	Bi-annual	Winter/ Summer	1 sem.	Compulsory elective	B.Sc.

1	**Course type**	**Contact time**	**Self-study**	**Forms of teaching (learning methods)**	**Planned group size**	**Language**
	Sem. lessons	4 SCH/60 h	90 h	Lecture	35	German

2 Learning outcomes/competences

In terms **of brand and communication management**, students are able to

- classify the terms and concepts of brand policy within the product policy context
- create brand and communication policy concepts with objectives, strategies and measures, analyse existing concepts and critically examine them
- derive brand, product and communication policy objectives, classify them in the target system and operationalise them
- present, analyse and evaluate strategic and operational programme planning options, brand strategies and methods for product variation, differentiation, elimination
- present, analyse and evaluate the importance of innovation management for companies as well as the phase-specific content of the innovation management process
- derive, analyse, evaluate positioning and communication strategies
- explain, analyse and evaluate the concepts of communication policy instruments
- present, analyse and evaluate the concepts and methods for determining, distributing the communication budget and designing communicative messages
- derive and analyse key performance indicators for controlling brand, innovation and communication management.

Channel management, e-commerce and pricing:

- They know the basics of e-commerce and can present and analyse the essential business models. They are able to assess the importance of e-commerce, know the current framework conditions, developments and special features. They are able to explain relevant market forms and players.
- They are able to explain key concepts of multi-channel sales, such as the systematisation of sales channel alternatives and cross- and omni-channel management. They are able to select problem- and case-based sales channels and assess the opportunities and risks of multi-channel sales.
- They are able to present and analyse key aspects of customer experience management, such as transaction process design, usability or user experience.
- They are able to explain and interpret key metrics for measuring success and optimising e-commerce. They are able to classify them into the corporate and marketing target system.
- They are able to explain and analyse key pricing strategies. They are able to relate them to the overall marketing and business strategy.
- They are able to present central pricing approaches and apply them to concrete case studies. These include, for example, behavioural and dynamic pricing.

3 Contents

Brand and communication management

- Objectives, strategies and instruments of product and brand policy
- Objectives, strategies and instruments of communication policy
- Determination and distribution of the communication budget; design of the communication message
- Key figures for controlling brand, innovation and communication management

Multi-channel management, e-commerce and pricing

- Basic e-commerce models
- Omni-, cross- and multi-channel management
- Customer experience management
- Controlling and conversion measurement
- Pricing strategies
- Selected pricing approaches

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4	**Participation requirements** A basic knowledge of marketing is recommended.
5	**Form of assessment** Written examination or oral examination or a combination of written examination and oral presentation
6	**Condition for the award of credit points** Module examination pass
7	**Application of the module** (in the following study programmes)**:** Business Administration (B.A.), Business Psychology (B.Sc.), Business Administration (work-integrated) (B.A.), Business Information Systems (B.Sc.)
8	**Module coordinator** Prof. Dr. Kerstin Stender-Monhemius
9	**Other information** -

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Digital Marketing / Strategic Marketing and Sustainability								Module ID 5 MKT 33
No.	**Workload**	**Credit points**	**Study semester**	**Frequency**	**Sem.**	**Dura-tion**	**Type**	**Q-level**
	150 h	**6**	6th or 7th sem.	Bi-annual	Winter/ Summer	1 sem.	Compulsory elective	B.Sc.
1	**Course type**		**Contact time**	**Self-study**	**Forms of teaching (learning methods)**		**Planned group size**	**Language**
	Sem. lessons		4 SCH/60 h	90 h	Lecture		35	German

2 Learning outcomes/competences

Digital and social media marketing

- They are familiar with the essential framework conditions, developments and particularities of the digital marketing environment and their influence on buyer behaviour. They are able to explain and apply key concepts and tools for analysis, such as buyer personas and customer journeys. They are able to determine the role and importance of key players in the online market environment.
- They are able to integrate digital marketing objectives into the business and marketing target system. They are able to analyse, evaluate and develop digital marketing strategies.
- They are able to classify and explain key digital marketing tools in the marketing mix and make choices appropriate for the strategy. This includes, e.g., the digitalisation of products and services, search engine marketing, affiliate marketing or online advertising.
- They are able to present and explain the basics of social media marketing. They are familiar with current developments and essential forms of social media. They are able to assess the current challenges and the advantages and disadvantages of social media marketing. They are able to explain key social media marketing tools and make case-based selections.
- They are able to describe and analyse key concepts of customer retention through social media. They are also able to explain the key instruments and apply them to specific cases.

Strategic marketing and sustainability

- They know the basics of the concept of strategy and are able to classify it in the context of marketing and sustainability.
- They know the tools and models of strategic analysis as well as sustainability and can transfer them to operational practice.
- Based on the results of the analysis and forecasting phase, they can design strategic marketing objectives and classify them into the target system of the company.
- They are able to develop and locate sustainability goals in the company's target system.
- At company and business unit level, they know strategy concepts and can develop and evaluate them with regard to customers, competitors, stakeholders.
- Elements of sustainability and stakeholder orientation are taken into account in the development of marketing strategies.
- They are able to develop a sustainable marketing and business concept based on the Business Model Canvas.

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3	**Contents** Digital and social media marketing • Digital marketing environment and buyer behaviour • Conception of digital marketing • Digital marketing tools • Social media marketing • Social media customer relationship management **Strategic marketing and sustainability** – Basics and definitions of strategic marketing and sustainability marketing – Strategic situation analysis and forecasting – Corporate, marketing and sustainability goals – Formation of strategic business units (SBU) and market coverage strategies – Strategy development and sustainability management in marketing – Sustainable Business Model Canvas
4	**Participation requirements** A basic knowledge of marketing is recommended.
5	**Form of assessment** Written examination or oral examination or a combination of written examination and oral presentation
6	**Condition for the award of credit points** Module examination pass
7	**Application of the module** (in the following study programmes)**:** Business Administration (B.A.), Business Psychology (B.Sc.), Business Administration (work-integrated) (B.A.), Business Information Systems (B.Sc.)
8	**Module coordinator** Prof. Dr. Denise Demisch
9	**Other information** -

Please note: The German version of this document is the legally binding version. The English translation provided here is for information purposes only.

Leadership – Theories and Practical Approaches								Module ID 5 P/O 01
No.	**Workload**	**Credit points**	**Study semester**	**Frequency**	**Sem.**	**Dura-tion**	**Type**	**Q-level**
	150 h	**6**	6th or 7th sem.	Bi-annual	Winter/ Summer	1 sem.	Compulsory elective	B.Sc.
1	**Course type**		**Contact time**	**Self-study**	**Forms of teaching (learning methods)**		**Planned group size**	**Language**
	Sem. tuition		4 SCH/60 h	90 h	Lecture, case studies, exercises, group work		35	German

2 Learning outcomes/competences

On successful completion of the module, students are able to

- present basic perspectives, tasks and solution approaches of leadership within the framework of corporate management,
- develop and implement an in-depth understanding of the networked interdisciplinary – organisational and social – aspects of leadership,
- describe, critically assess and apply classic and current leadership theories, techniques and tools to practical examples,
- present, classify and critically discuss current developments in the context of leadership, competences and skills of managers, dimensions of successful leadership.

3 Contents

- Introduction to leadership, importance in the context of corporate management
- Transformation of leadership
- Roles in the context of leadership
- Tasks, skills, selection and development of managers
- Conditional factors and perspectives on leadership such as motivation, communication, coordination, sustainability, agility, diversity management
- Principles of psychology and neuroscience for managers
- Classic and modern theoretical approaches to leadership, e.g. virtual leadership, virtual teamwork, sustainable leadership, agile leadership, leadership techniques and tools
- Leading oneself, personal leadership and personal management

4 Participation requirements

Basic knowledge of leadership behaviour, skills, tools and theories, as taught in Module 5 MG 01 "Communication and Management Skills," is recommended.

5 Form of assessment

Written examination or oral examination or term paper or a combination of written examination and oral presentation or a combination of written examination and term paper

6 Condition for the award of credit points

Module examination pass

7 Application of the module (in the following study programmes)**:**

Business Administration (B.A.), Business Information Systems (B.Sc.), Business Information Systems (work-integrated) (B.Sc.)

8 Module coordinator

Prof. Dr. Kathrin Papmeyer

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9	**Other information** -

Strategic HR Management: HR Strategy, HR Planning, Employer Branding								**Module ID 5 P/O 32**
No.	**Workload**	**Credit points**	**Study semester**	**Frequency**	**Sem.**	**Dura-tion**	**Type**	**Q-level**
	150 h	**6**	6th or 7th sem.	Bi-annual	Winter/ Summer	1 sem.	Compulsory elective	B.Sc.

1	**Course type**	**Contact time**	**Self-study**	**Forms of teaching (learning methods)**	**Planned group size**	**Language**
	Sem. lessons	4 SCH/60 h	90 h	Lecture, case examples, case studies, exercises, group work	35	German

2 Learning outcomes/competences

On successful completion of the module, students have the following knowledge and skills:

- They assess the integrating fields of action in HR management in the context of current megatrends such as sustainability, digitalisation and value shift in their interactions with one another and with the company management.
- They analyse company-related problems from the perspective of HR management using scientific tools, identify problem-oriented solutions and appropriate measures.
- They evaluate and optimise HR management measures in the fields of strategic management, HR planning, employer branding from a strategic and operational point of view against the background of theoretical concepts.

3 Contents

- Introduction to corporate HR management: basic concepts, classification from a historic, business administration and academic perspective, theoretical approaches
- Overview of the fields of action of HR management
- Strategic HR management: role, tasks and tools in the context of the corporate target system, sustainability requirements and culture design
- Organisation of HR management: models, roles and corporate integration
- HR planning: basic concepts, employee key figures, determining personnel requirements and headcount, analysis of age structure
- HR controlling: basic concepts, key figures, control systems, HR analytics trend
- Employer branding: employer brands, candidate and employee experience, brand communication

4 Participation requirements

None

5 Form of assessment

Written examination or oral examination or term paper or a combination of written examination and oral presentation or a combination of written examination and term paper

6 Condition for the award of credit points

Module examination pass

7 Application of the module (in the following study programmes)**:**

Business Administration (B.A.), Business Information Systems (B.Sc.), Business Psychology (B.Sc.), Business Administration (work-integrated) (B.A.), Business Information Systems (work-integrated) (B.Sc.)

8 Module coordinator

Prof. Dr. Sascha Armutat

9 Other information

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Legal Issues in HR Management								Module ID 5 P/O 33
No.	**Workload**	**Credit points**	**Study semester**	**Frequency**	**Sem.**	**Dura-tion**	**Type**	**Q-level**
	150 h	**6**	6th or 7th sem.	Bi-annual	Winter/ Summer	1 sem.	Compulsory elective	B.Sc.

1	**Course type**	**Contact time**	**Self-study**	**Forms of teaching (learning methods)**	**Planned group size**	**Language**
	Sem. lessons	4 SCH/60 h	90 h	Lecture, Case studies	35	German

2 Learning outcomes/competences

Upon the successful completion of the module, students have basic knowledge of German individual employment law necessary for human resources work in a company throughout the employee journey, including the related knowledge of collective labor law, occupational health and safety legislation and data (protection) legislation. They, consequently, have the following knowledge and skills:

- Students are able to provide legal support for the application and recruitment process.
- They are able to identify and assess important rights of employees and employers in the employment relationship and develop their own solutions.
- They are able to examine agreements on fixed-term and part-time employment for their effectiveness and justify the legal consequences of their outcomes.
- They are able to assess the chances of success of a due/extraordinary termination and carry out the legally relevant measures when the employment relationship is terminated (e.g. works council hearings).

3 Contents

Principles of individual employment law and occupational health and safety legislation, e.g.:

- Recruiting
  - Initiation and establishment of the employment relationship
  - Handling data from a legal perspective
  - Use of AI instruments in processing personal data
- Personnel selection
  - Requirements for a diverse employee structure
  - Temporary placements
- Deployment
  - Rights and obligations in and deriving from the employment relationship (e.g. annual leave, continued remuneration, secondment)
  - Questions of occupational health and safety (e.g. working time provisions, risk assessment, maternity leave)
  - Mobile work
- Employee remuneration, especially minimum wage
- Redundancy
  - Preventive measures, e.g. return-to-work programmes
  - Termination of the employment relationship (fixed-term, notice, termination agreement)
- Selected aspects of collective labor law, e.g.:
  - Duties and rights of the works council with regard to recruitment, secondment and termination
  - Significance of company agreements and collective agreements

4 Participation requirements

Successful completion of module 5 RE 23 "Economic Private Law" is recommended.

5 Form of assessment

Written examination or oral examination

6 Condition for the award of credit points

Successful passing of the module examination

7 Application of the module (in the following study programmes)**:**

Business Administration (B.A.), Business Administration (work-integrated) (B.A.), Business Information Systems (B.Sc.), Business Information Systems (work-integrated) (B.Sc.)

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8	**Module coordinator**
	Prof. Dr. Christiane Nitschke
9	**Other information**
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Operational HR Management: Designing the Employee Journey								Module ID 5 P/O 35
No.	**Workload**	**Credit points**	**Study semester**	**Frequency**	**Sem.**	**Dura-tion**	**Type**	**Q-level**
	150 h	**6**	6th or 7th sem.	Bi-annual	Winter/ Summer	1 sem.	Compulsory elective	B.Sc.

1	**Course type**	**Contact time**	**Self-study**	**Forms of teaching (learning methods)**	**Planned group size**	**Language**
	Sem. lessons	4 SCH/60 h	90 h	Lecture, case examples, case studies, exercises, group work	35	German

2 Learning outcomes/competences

On successful completion of the module, students have the following knowledge and skills:

- They assess the operational fields of action in HR management in the context of current trends in their interactions with the system of HR management as a whole and with corporate management.
- They analyse company-related problems from the perspective of the respective operational field of action in HR management, identify problem-oriented solutions and select suitable tools for the field of action.
- They assess and optimise concepts and tools of operational HR management in the fields related to the employee journey from recruiting to redundancy from a strategic and operational perspective against the background of theoretical concepts.

3 Contents

- Employee journey as a task of HR management
- Recruiting: recruiting channels and tools, target group orientation, use of AI
- Personnel selection: tasks and concepts, methods for aptitude assessment, use of AI
- Onboarding: evidence-based measures, developing induction programmes
- Working time management: influencing factors, design parameters, modern working time models
- Work design and New Work: agile forms of work, hybrid work, participation models
- Compensation and benefits: compensation elements and models, influencing factors, design parameters
- Performance management: performance concept, MBO, feedback, appraisal and incentive systems
- HR development: skills development, career models, talent management
- Retention management: commitment, explanatory models for fluctuation, measures to improve retention
- Redundancy: forms, flexible staff, alumni concepts

4 Participation requirements

5 Form of assessment

Written examination or oral examination or term paper or a combination of written examination and oral presentation or a combination of written examination and term paper

6 Condition for the award of credit points

Module examination pass

7 Application of the module (in the following study programmes)**:**

Business Administration (B.A.) , Business Information Systems (B.Sc.), Business Psychology (B.Sc.), Business Administration (work-integrated) (B.A.), Business Information Systems (work-integrated) (B.Sc.)

8 Module coordinator

Prof. Dr. Sascha Armutat

9 Other information

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Principles of Logistics								Module ID 5 P/L 38
No.	**Workload**	**Credit points**	**Study semester**	**Frequency**	**Sem.**	**Dura-tion**	**Type**	**Q-level**
	150 h	**6**	6th or 7th sem.	Bi-annual	Winter/ Summer	1 sem.	Compulsory elective	B.Sc.

1	**Course type**	**Contact time**	**Self-study**	**Forms of teaching (learning methods)**	**Planned group size**	**Language**
	Sem. lessons	4 SCH/60 h	90 h	Lecture, exercise, group work, case studies	35	German

2 Learning outcomes/competences

On successful completion of the module, students have the following knowledge and skills:

- They are able to understand logistical processes both inside and outside the company and to show the importance of logistics as a cross-sectional task.
- They are able to explain the basic terms and concepts of logistics and supply chain management and distinguish them from one another.
- They are able to apply the concepts and methods discussed in the course and transfer them to operational use cases.
- They are able to compare essential logistics concepts in procurement, production, distribution and disposal and assess which approaches and techniques are best suited to the situation.
- They are able to develop their own solution proposals based on the selection of suitable methods and concepts for specific problems or applications.

3 Contents

In view of the global networking of companies and markets, the design and coordination of spatio-temporal transformation processes are becoming increasingly important. Today, logistics is seen as a cross-divisional function that is required in all phases of the goods economy transformation process. The task of logistics is to coordinate the material and information flows associated with the exchange of services, which are used to link internal and external stages in the value chain. On the one hand, the areas of procurement logistics, production logistics, distribution logistics and disposal logistics are dealt with in accordance with the value chain and based on the goals and tasks of logistics. On the other hand, there is an integrated consideration of company-wide value creation activities within the framework of supply chain management. In this, the basic interrelationships are shown and application-related, selected conceptual and quantitative models are deployed as solution methods for strategic and operational logistics tasks. The contents of the lecture are consolidated and discussed on the basis of exercises.

4 Participation requirements

A basic knowledge of production and logistics is recommended.

5 Form of assessment

Written examination or oral examination

6 Condition for the award of credit points

Module examination pass

7 Application of the module (in the following study programmes)**:**

Business Administration (B.A.), Business Administration (work-integrated) (B.A.), Business Information Systems (B.Sc.)

8 Module coordinator

Prof. Dr. Gerald Oeser

9 Other information

References and learning materials will be made available during the course.

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Logistics Systems								Module ID 5 P/L 31
No.	**Workload**	**Credit points**	**Study semester**	**Frequency**	**Sem.**	**Dura-tion**	**Type**	**Q-level**
	150 h	**6**	6th or 7th sem.	Bi-annual	Winter/ Summer	1 sem.	Compulsory elective	B.Sc.

1	**Course type**	**Contact time**	**Self-study**	**Forms of teaching (learning methods)**	**Planned group size**	**Language**
	Sem. lessons	4 SCH/60 h	90 h	Lecture, project work	35	German

2 Learning outcomes/competences

After successfully completing the module, students are able to describe and apply the principles of logistics systems.
Students are able to verify the learned principles using practical examples and implement them in practice-oriented projects in companies (e.g. at Miele or Gestamp).
They are then able to justify and defend the solutions they have developed in front of management.
Students have a well-founded understanding of logistical relationships, which is increased by the factory tours. After participating in the module, students are able to evaluate logistical processes. In addition to the technical and financial aspects, they are able to evaluate the social, humanitarian and employment-law aspects of certain systems.

3 Contents

The tasks and functions of logistics systems are presented during the module. In addition to the seminar-based tuition, specific projects are carried out in companies. The focus of teaching depends on the relevant project situation. Outcomes must be presented after the project work is completed.
Contents include:

- Principles of logistics systems
- Transport systems
- Warehouse systems
- Picking systems
- Packing systems
- Information systems
- Deployment of logistics systems

4 Participation requirements

A basic knowledge of production and logistics is recommended.

5 Form of assessment

Project work or oral examination or term paper

6 Condition for the award of credit points

Module examination pass

7 Application of the module (in the following study programmes)**:**

Business Administration (B.A.), Business Information Systems (B.Sc.), Business Administration (work-integrated) (B.A.)

8 Module coordinator

Prof. Dr. Thomas Plümer

9 Other information

Project work and presentations usually take the form of group work. In addition, there is a lively exchange of information in technical discussions with the employees of the relevant company.

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Production Planning								Module ID 5 P/L 34
No.	**Workload**	**Credit points**	**Study semester**	**Frequency**	**Sem.**	**Dura-tion**	**Type**	**Q-level**
	150 h	**6**	6th or 7th sem.	Bi-annual	Winter/ Summer	1 sem.	Compulsory elective	B.Sc.

1	**Course type**	**Contact time**	**Self-study**	**Forms of teaching (learning methods)**	**Planned group size**	**Language**
	Sem. lessons	4 SCH/60 h	90 h	Lecture, case studies	35	German

2 Learning outcomes/competences

On successful completion of the module, students have the following knowledge and skills:

- They are able to name and outline the basic concepts and methods for the points listed under "Contents."
- They are able to explain and apply the concepts and methods listed.
- They are able to assess the applicability of selected concepts and methods and argue accordingly.

3 Contents

Principles, e.g.

- Manufacturing principles and manufacturing methods
- Production systems and factory automation
- CAX (Computer-aided technologies) concepts
- Order processing procedure

Production planning concepts, e.g.

- Production scheduling
- Consumption-oriented procurement
- Optimal order quantity
- Scheduling and capacity planning
- Production controlling

4 Participation requirements

A basic knowledge of production and logistics is recommended.

5 Form of assessment

Written examination or oral examination or project work

6 Condition for the award of credit points

Module examination pass

7 Application of the module (in the following study programmes)**:**

Business Administration (B.A.), Business Information Systems (B.Sc.), Business Administration (work-integrated) (B.A.)

8 Module coordinator

Prof. Dr. Thomas Plümer

9 Other information

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Economic Private Law								Module ID 5 RE 23
No.	**Workload**	**Credit points**	**Study semester**	**Frequency**	**Sem.**	**Dura-tion**	**Type**	**Q-level**
	150 h	**6**	6th or 7th sem.	Bi-annual	Winter/ Summer	1 sem.	Compulsory elective	B.Sc.

1	**Course type**	**Contact time**	**Self-study**	**Forms of teaching (learning methods)**	**Planned group size**	**Language**
	Sem. lessons	4 SCH/60 h	90 h	Lecture	35	German

2 Learning outcomes/competences

By acquiring knowledge of the legal principles of economic private law, especially contract law, at the end of the course students are able to analyse the legal issues of simple case studies from practice and find a reasonable solution using basic resolution techniques.

3 Contents

Overview of contract law in the BGB (Bürgerliches Gesetzbuch – German civil code) (formation, content, implementation and termination of contracts) with references to commercial and company law, e.g.:

- Representation, including general power of representation and power of attorney
- General terms and conditions
- Impairment of performance
- Limitation of claims
- Contract types in the BGB
- Statutory claims, especially unlawful acts
- Overview of company forms

4 Participation requirements

None

5 Form of assessment

Written examination or oral examination

6 Condition for the award of credit points

Module examination pass

7 Application of the module (in the following study programmes)**:**

Business Administration (B.A.), Business Information Systems (B.Sc.)

8 Module coordinator

Prof. Dr. Jörg-Dieter Oberrath

9 Other information

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Organisation and Management								Module ID 5 MG 07
No.	**Workload**	**Credit points**	**Study semester**	**Frequency**	**Sem.**	**Dura-tion**	**Type**	**Q-level**
	150 h	**6**	6th or 7th sem.	Bi-annual	Winter/ Summer	1 sem.	Compulsory elective	B.Sc.

1	**Course type**	**Contact time**	**Self-study**	**Forms of teaching (learning methods)**	**Planned group size**	**Language**
	Sem. lessons	4 SCH/60 h	90 h	Lecture, peer learning, case studies	35	German

2 Learning outcomes/competences

On successful completion of the module, students have the following skills and competences:
Knowledge of and critical reflection on management roles and objectives. Recognition of the relevance of new institutional economics for e.g. business law issues. Working on and solving an authentic management problem that addresses both economic and legal aspects.
At the end of the course, students understand and justify the crucial role of transactions. They are able to assess the impact of human behaviour and risk attitudes on organisational outcomes. They are capable of applying their knowledge to cases from practice. Course-related peer learning and case studies take place in small groups.

3 Contents

- Conceptual framework and business context
- Planning and monitoring, organisation, deployment
- Leadership, corporate culture
- Change management
- Property rights and transaction costs
- Economics, principal-agent approach
- Governance mechanisms and boundaries of the firm
- Incentive systems
- Sustainability-oriented corporate management

4 Participation requirements

Formal requirements: none
Content requirements: fundamentals in business administration, principles of economics

5 Form of assessment

Written examination or oral examination or written presentation or project work or a combination of several of the aforementioned forms of assessment

6 Condition for the award of credit points

Module examination pass

7 Application of the module (in the following study programmes)**:**

Business Information Systems (B.Sc.), Business Psychology (B.Sc.), Business Law (LL.B.)

8 Module coordinator

Prof. Dr. Vivian Carstensen

9 Other information

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Corporate Entrepreneurship								Module ID 5 MG 32
No.	**Workload**	**Credit points**	**Study semester**	**Frequency**	**Sem.**	**Dura-tion**	**Type**	**Q-level**
	150 h	**6**	6th or 7th sem.	Bi-annual	Winter/ Summer	1 sem.	Compulsory elective	B.Sc.
1	**Course type**		**Contact time**	**Self-study**	**Forms of teaching (learning methods)**		**Planned group size**	**Language**
	Seminar		2 SCH/30 h	120 h	Lecture, group work, project work		15	German
2	**Learning outcomes/competences**							
	On successful completion of the module, students have the following knowledge and skills: • They are able to explain the Lean Startup method. • They are able to apply the Lean Startup method to open up a new business area. • They are able to assess what it means to start a company or to initiate one's own project in an existing company. • They are able to describe real company processes, develop approaches to solving problems in a team, contribute their own ideas and present solutions to company representatives.							
3	**Contents**							
	How can existing companies behave in an entrepreneurial way? How can new growth areas be occupied? How can start-ups' success concepts be applied in large companies? In the "Corporate Entrepreneurship" module, the participants, in cooperation with employees from existing companies, find out answers to these questions by developing their own project idea in the context of a company. First, the relevant branch of the cooperating company is presented and introduced to the Lean Startup method. The teams then develop a project idea and the corresponding solution so that they can present it at the end.							
4	**Participation requirements**							
	None							
5	**Form of assessment**							
	Project work or term paper							
6	**Condition for the award of credit points**							
	Module examination pass							
7	**Application of the module** (in the following study programmes):							
	Business Administration (B.A.), Business Administration (work-integrated) (B.A.), Business Information Systems (B.Sc.)							
8	**Module coordinator**							
	Prof. Dr. Tim Kampe							
9	**Other information**							
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Business Plan								Module ID 5 MG 33
No.	**Workload**	**Credit points**	**Study semester**	**Frequency**	**Sem.**	**Dura-tion**	**Type**	**Q level**
	150 h	**6**	6th or 7th sem.	Bi-annual	Winter/ Summer	1 sem.	Compulsory elective	B.Sc.
1	**Course type**		**Contact time**	**Self-study**	**Teaching forms (learning methods)**		**Planned group size**	**Language**
	Seminar		2 SCH/30 h	120 h	Lecture, group work, project work		15	German/ English

2 Learning outcomes/competences

The overall goal is to impart knowledge and skills in terms of identifying business opportunities as well as to develop and implement own business ideas independently.

After successful completion of the module, students are able to:

- Understand and apply relevant content and methods of a business plan,
- Analyse opportunities, risks, market potential and competitive situations,
- Create new business models, brands and market entry strategies,
- Deal with uncertainty and information overload and evaluate entrepreneurial decisions, as well as
- Work together to develop and adequately present entrepreneurial concepts within the framework of group tasks.

3 Contents

The project work corresponds to the preparation of a business plan for a fictitious or real founding idea. The process includes:

- Identification of a business idea
- Development of a business model
- Application of design thinking & prototyping, if applicable
- Preparation of the business plan based on the requirements of the EXIST start-up scholarship (incl. analysis of the competitive situation and financial planning)

The module starts with a compact course that imparts the theoretical foundations. The assessment consists of a business plan and one or more (oral) presentations in which the founding idea and the final business plan are to be presented.
The business plan is based on the requirements of the EXIST Start-Up Scholarship. The fictitious or real business ideas are developed and presented during the semester in small groups (2–4 students).

4 Participation requirements

None

5 Form of assessment

Project work

6 Condition for the award of credit points

Module examination pass

7 Application of the module

Business Administration (B.A.), Business Administration (work-integrated) (B.A.), Business Information Systems (B.Sc.)

8 Module coordinator

Prof. Dr. Tim Kampe

9 Other information

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Entrepreneurship								Module ID 5 MG 34
No.	**Workload**	**Credit points**	**Study semester**	**Frequency**	**Sem.**	**Dura-tion**	**Type**	**Q level**
	150 h	**6**	6th or 7th sem.	Bi-annual	Winter/ Summer	1 sem.	Compulsory elective	B.Sc.
1	**Course type**		**Contact time**	**Self-study**	**Teaching forms (learning methods)**		**Planned group size**	**Language**
	Sem. lessons		4 SCH/60 h	90 h	Lecture, case examples, group work		35	German/ English

2 Learning outcomes/competences

The overarching goal is to impart knowledge and skills with regard to entrepreneurial activities. This basic course presents the foundation of a company as an attractive career choice and promotes awareness of the topic.

After successful completion of the module, students are able to:

- Understand business contexts, and consider entrepreneurship as a career in particular,
- Apply specific entrepreneurship methods and tools such as Business Model Canvas and analyse markets and competitive situations in particular,
- Evaluate entrepreneurial decisions and gain and assess (market) information, as well as
- Develop an individual attitude towards an entrepreneurial activity and adequately assess the probability of success of one's own founding idea in particular.

3 Contents

How do you develop a business idea? What makes for a successful start-up?

In the "Entrepreneurship" module, participants examine the following issues regarding the creation of a business:

- Entrepreneurship as a career choice,
- Recognising business opportunities,
- Developing business ideas and business models,
- Structure and content of business plans,
- Competitive analysis,
- Founding team composition, as well as
- Start-up financing.

First, basic knowledge is imparted and supplemented by case studies, which the students present to each other. The acquired knowledge will be tested in a written examination.

4 Participation requirements

None

5 Form of assessment

Written examination or oral examination

6 Condition for the award of credit points

Module examination pass

7 Application of the module

Business Administration (B.A.), Business Administration (work-integrated) (B.A.), Business Information Systems (B.Sc.)

8 Module coordinator

Prof. Dr. Tim Kampe

9 Other information

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Corporate and Tax Law Activities for Entrepreneurs								Module ID 5 StU 51
No.	**Workload**	**Credit points**	**Study semester**	**Frequency**	**Sem.**	**Duration**	**Type**	**Q level**
	150 h	**6**	6th or 7th sem.	Bi-annual	Winter/ Summer	1 sem.	Compulsory elective	B.Sc.
1	**Course type**		**Contact time**	**Self-study**	**Forms of teaching (learning methods)**		**Planned group size**	**Language**
	Sem. lessons		4 SCH/60 h	90 h	Lecture, case examples, group work		35	German/ English

2 Learning outcomes/competences

The overall objective is to impart legal and tax knowledge and skills with a focus on the specificities of companies in the start-up and growth phase.

On successful completion of the module, students have the following knowledge and skills:

- They are familiar with the founding requirements of different legal forms and can assess their advantages and disadvantages under corporate law
- They can explain and assess the tax consequences associated with various legal forms in the formation and day-to-day management of the company
- They can apply their knowledge to legal and tax cases by working out problem solutions and analysing their legal consequences

3 Contents

- Commercial and corporate law/legal framework:
  - Relevant legal forms for business founders
  - Requirements for founding and legal form (in selected examples)
  - Forms of participation for entrepreneurs (undisclosed partnerships, disclosed partnerships, management buy-out)
  - Corporate law characteristics of the company forms (corporate bodies, shareholders and managing directors, power of attorney)
  - Forms of capital raising, corporate financing
  - Drafting of employment contracts
  - Selected legal issues:
    e.g. "Corporate Criminal Law" (OWiG, Act for Strengthening the Integrity of the Economy), executive liability, principles of insolvency law

- Tax law:
  - Tax obligations and compliance with them (principles of the tax code)
  - Income tax consequences of legal forms and taxation of corporate profits
  - Declaration obligations and liability for registration taxes (VAT, income tax)
  - Selected tax issues:
    - e.g. corporate assets vs. private assets, tax consequences of corporate financing, business split-up, loss compensation and loss offsetting, tax support for small and medium-sized enterprises

4 Participation requirements

None

5 Form of assessment

Written examination or oral examination or written presentation or a combination of several of the aforementioned forms of assessment

6 Condition for the award of credit points

Module examination pass

7 Application of the module

Business Administration (B.A.), Business Administration (work-integrated) (B.A.), Business Information Systems (B.Sc.)

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8	**Module coordinator**
	Prof. Dr. Kraft
9	**Other information**
	-

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Machine Learning & Data Science								Module ID 5 WI 32
No.	**Workload**	**Credits**	**Study semester**	**Frequency**	**Sem.**	**Duration**	**Type**	**Q level**
	150 h	**6**	4	Annual	Summer	1 sem.	Compulsory	B.Sc.
1	**Course type**		**Contact hours**	**Self-study**	**Teaching forms (learning methods)**		**Planned group size**	**Language**
	Lecture Exercise		2 weekly hours/30 h 2 weekly hours/30 h	90 h	Lecture and exercises		60 20	German

2 Learning outcomes/competences

Upon successful completion of the module, students will be able to:

- Have recourse to a **basic understanding** of the core elements, techniques and algorithms of machine learning and data science.
- Deal with **scientific texts**.
- Effectively analyse, refine, and assess the **quality** of large and complex **data sets**, including an in-depth knowledge of data preparation and visualisation.
- Select, train and evaluate various **machine learning models** such as regression, classification and clustering.
- Develop an understanding of **evaluation methods** and criteria to assess the efficiency of machine learning models.
- Apply their acquired knowledge to **real projects** to address specific challenges with data science methods.
- Develop awareness of the **ethical implications and responsibilities** that arise when dealing with data and implementing machine learning models.
- Use the **latest technologies** and **software tools**.
- Recognise the continuous development of machine learning and data science and strive to constantly update and expand their **knowledge and skills**.

3 Contents

1. **Introduction to machine learning and data science:**
   a. History and development of machine learning
   b. History and development of data science
   c. Basics and applications
   d. Current trends and challenges
2. **Fundamentals:**
   a. Fundamentals of machine learning and artificial intelligence
   b. Selected standard process models in the field of data science
3. **Data sources and data processing:**
   a. Software tools for data analysis and processing
   b. Software tools for visualisation
   c. Data processing in the field of natural language processing
4. **Training and provision of ML models**
   a. Selected algorithms and methods
   b. Selected evaluation techniques
   c. Challenges of model deployment
5. **Machine learning and data science applications**
   a. Automated recommendation systems
   b. Computer vision applications (e.g. face recognition, object recognition)
   c. Voice recognition software and chatbots

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4	**Participation requirements** Formal: none Content: Programming skills and sound knowledge of operating systems such as Microsoft Windows and Linux are expected.
5	**Form of assessment** Written examination or oral examination
6	**Condition for the award of credits** Module examination pass
7	**Application of the module** (in the following study programmes): Business Information Systems (B.Sc.), Business Information Systems (work-integrated) (B.Sc.)
8	**Module coordinator** Prof. Dr. Frederik Bäumer
9	**Other information** -

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