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Enclosure 5

Module manual of the study program

Logistics Management

Bachelor

of the Department of Economics
of the Darmstadt University of Applied Sciences

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Module 111: Introduction to Business Administration

1	Module name Introduction to Business Administration
1.1	Module abbreviation 111
1.2	Type Mandatory module
1.3	Course Introduction to business administration
1.4	Semester Semester 1
1.5	Person(s) responsible for the module Dr. Almeling
1.6	Other teachers Dr. Wiese, Bopp, Puth
1.7	Degree level Bachelor
1.8	Teaching language German
2	Content <ul style="list-style-type: none"> • Subject and methods of business administration • Organization and corporate governance • Value-added process • Investment and financing • Accounting
3	Targets Knowledge: The students are familiar with the subject of business administration, the basic contexts and the basic terms. The students develop a basic understanding of the individual functional areas of business administration and can solve basic tasks. Skills: Students will be able to apply the working methodology and analytical techniques of business administration to simple business problems. Competencies: The interfaces to neighboring disciplines in economics and social sciences are recognized and their significance for business administration is understood.

Module 111: Introduction to Business Administration

4	<p>Teaching and learning methods</p> <p>Lecture (L), exercise (E) possibly including a business game</p> <p>Media used: communication media (e.g. electronic learning platforms), presentation media (e.g. beamer, whiteboard, flipchart, smartboard, metaplan)</p>
5	<p>Workload and Credit Points</p> <p>Total workload of 150 hours for 5 credit points (CP) Attendance time: 64 hours Self-study: 86 hours</p>
6	<p>Form of examination, duration and examination requirements</p> <ul style="list-style-type: none"> • Examination usually in the form of a written exam (also possible electronically) (duration: 60 to 120 min) on the entire course content of the module at the end of the module. • The exam can be repeated in the following semester.
7	<p>Necessary knowledge</p> <p>None</p>
8	<p>Recommended knowledge</p> <p>None</p>
9	<p>Duration, time structure and frequency of the offer</p> <p>The module covers one semester with 4 SWS and is offered once per semester.</p>
10	<p>Usability of the module</p> <p>Public Management B.Sc. Logistics Management B.Sc.</p>
11	<p>Literature</p> <p>Wöhe/Döring: Introduction to General Business Administration, Vahlen Bea/Dichtl/Schweitzer (Eds.): Allgemeine Betriebswirtschaftslehre, Vol. 1: Grundfragen, Lucius & Lucius Schierenbeck/Wöhle: Grundzüge der Betriebswirtschaftslehre, Oldenbourg Schmalen/Pechtl: Fundamentals and Problems of Business Administration, Schäffer-Poeschel</p>

Module 112 Organization and Management

1	Module name Organization and Management
1.1	Module abbreviation 112
1.2	Type Mandatory module
1.3	Course Management and Organization
1.4	Semester 1
1.5	Person(s) responsible for the module Dr. Seibert
1.6	Other teachers Dr. Kopsch, Dr. Nettelbeck, Dr. Stork
1.7	Degree level Bachelor, Basic level course
2	Content <ul style="list-style-type: none"> • Basic concepts of management and organization • Decision making and decision methods • Concepts and methods of strategic, normative and operational management. • Organizational forms of companies • Organizational design and change management • Business process management and continuous improvement processes (CIP) • Recent organizational and management concepts
1.8	Teaching language German

Module 112 Organization and Management

3	Targets Students will be able to ... <ul style="list-style-type: none">• give an overview of the concept, tasks and sub-areas of management and organization as well as their basic conceptual approaches (situational and system-oriented approaches);• give an overview of characteristics of entrepreneurial decision making and explain simple systematic methods of decision making (esp. systematic problem solving process, utility analysis, uncertainty/risk calculus) and apply them to simple problems;• explain the basic model and selected methods of operational, strategic and normative corporate management and apply them to simple problems (e.g. portfolio analysis, product-market and competitive strategies, corporate mission statement, MbO);• describe the forms of organizational structure of companies and explain their respective advantages and disadvantages (in particular functional and divisional organization, matrix organization, group organization);• Explain procedures and methods for analyzing and presenting organizational and process-related issues and provide an overview of simple concepts of organizational change (change management);• explain selected concepts and methods for process improvement (esp. Business Process Reengineering, Kaizen/KVP, PDCA cycle and PDCA tools) and apply them to simple problems;• describe newer concepts for the organization and management of companies and explain their respective advantages and disadvantages (e.g. virtual and network organization, knowledge management, management concepts for Industry 4.0);• Link current events and developments in business and the economy to knowledge content.
4	Teaching and learning methods Seminar-style lecture with lecture hall exercises and small case studies, self-study Supported by beamer presentations, lecture notes and electronic learning platform
5	Workload and Credit Points Total workload of 150 hours for 5 credit points (CP) Attendance time: 64 hours Self-study: 86 hours
6	Form of examination, duration and examination requirements <ul style="list-style-type: none">• Examination usually in the form of a written examination (also e-examination). With regard to the duration of the examination, § 12 ABPO applies.• Other forms of examination (e.g. homework, presentations), which usually complement the written examination, are possible as examination performance.• Preliminary examinations (e.g. laboratory experiments, processing of exercises or development tasks) - also in group work - are also possible. Preliminary examinations can be graded or ungraded. In the case of graded preliminary examinations, the share of the module grade may not exceed 30%.• The exam can be repeated in the following semester. If preliminary examinations are required, passing the preliminary examination is a prerequisite for participation in the examination.

Module 112 Organization and Management

7	<p>Necessary knowledge</p> <p>None</p>
8	<p>Recommended knowledge</p> <p>None</p>
9	<p>Duration, time structure and frequency of the offer</p> <p>The module covers one semester with 4 SWS and is offered once per semester.</p>
10	<p>Usability of the module</p> <p>Core module of all business administration bachelor programs at Darmstadt University of Applied Sciences. Prerequisite for business administration master's and MBA studies.</p> <p>The module is a compulsory module in the Bachelor's program. The module supplements and deepens the module Fundamentals of Business Administration with regard to methods of organization and corporate management that are particularly relevant for management. It prepares students for requirements in the further course of studies, especially in the modules Marketing, Human Resources Management, Controlling as well as the elective courses and the study and practical project.</p>
11	<p>Literature</p> <ul style="list-style-type: none"> ▪ Schreyögg, G., Koch, J.: Grundlagen des Managements: Basiswissen für Studium und Praxis; Gabler. ▪ Robbins, S. P. et. al: Management: fundamentals of business management; Pearson. ▪ Thommen, J., Achleitner, A.: Allgemeine Betriebswirtschaftslehre: Umfassende Einführung aus managementorientierter Sicht; Gabler (Kapitel Management und Kapitel Organisation). ▪ Dillerup, R., Stoi, R.: Unternehmensführung: Management & Leadership; Valen. ▪ Hungenberg, H., Wulf, T.: Grundlagen der Unternehmensführung; Springer. ▪ Breisig, T.: Betriebliche Organisation: Organisatorische Grundlagen und Managementkonzepte, nwb. ▪ Klimmer, M.: Unternehmensorganisation: Eine kompakte und praxisnahe Einführung. NWB. ▪ Vahs, D.: Organization: Introduction to organizational theory and practice; Schäffer Poeschel. ▪ Macharzina, K., Wolf, J.: Unternehmensführung - Das internationale Managementwissen: Concepts - Methods - Practice, Springer Gabler. <p>Additional and alternative literature recommendations in the course.</p>

Module 113 External accounting

1	Module name External accounting
1.1	Module abbreviation 113
1.2	Type Mandatory module
1.3	Course External accounting
1.4	Semester Semester 1
1.5	Person(s) responsible for the module Hartmann
1.6	Other teachers Dr. Almeling, Dr. Fresl, Dr. Wiese
1.7	Degree level Bachelor
1.8	Teaching language German
2	Content <ul style="list-style-type: none"> • Tasks and addressees of external accounting • Balance sheet theory basics • Accounting terms • Principles of proper accounting • Components of the financial statements • Technique of double-entry bookkeeping on stock and profit and loss accounts incl. closing entries • Functioning of the sales tax system, assessment and accounting of the facts • Operation of the social security system and payroll tax deduction, accounting for personnel expenses. • Recognition and measurement requirements in the area of non-current and current assets • Creation of provisions

Module 113 External accounting

3	Targets Knowledge: The students have understood the systematics of double-entry bookkeeping. They are also familiar with the legal framework relevant to accounting in the areas of sales tax, payroll tax and social security to which companies are subject. Skills: Students will be able to represent real-life situations in an accounting system. To this end, they are able to assess commonly occurring business transactions and the associated legal framework. They are able to apply recognition and measurement rules and to identify accrual issues. In addition, they can prepare annual financial statements with a balance sheet and income statement. Competencies: The students are able to assess the significance of recognition and measurement regulations for creditor protection. Finally, students will be able to assess the issues arising in a real company, to grasp the interrelationships of the accounting system and to independently post the business transactions customary there after an appropriate familiarization period.
4	Teaching and learning methods Lecture (L) and exercise (E) Media used: blackboard, beamer
5	Workload and Credit Points 5 Credit Points (CP) Attendance time: 64 hours Self-study: 86 hours
6	Form of examination, duration and examination requirements • Examination in the form of a written exam (duration: 90 - 120 min). The exam can be repeated in the following semester.
7	Necessary knowledge None
8	Recommended knowledge None
9	Duration, time structure and frequency of the offer The module covers one semester and is offered once per semester (BWL BSc.)

Module 113 External accounting

10	Usability of the module [This can be left blank for now.]
11	Literature Döring / Buchholz: Buchhaltung und Jahresabschluss, Erich Schmidt Verlag Eisele / Knobloch: Technik des betrieblichen Rechnungswesens, Vahlen Schmolke / Deitermann / Rückwart: Industrielles Rechnungswesen, Winklers Wüstemann: Buchführung case by case, Verlag Recht und Wirtschaft Zschenderlein: Buchführung 1, Kiehl

1	Module name Introduction to Law
1.1	Module abbreviation 114
1.2	Type Mandatory module
1.3	Course Introduction to Law
1.4	Semester Semester 1
1.5	Person(s) responsible for the module Dr. Hahn, Dr. Schulz
1.6	Other teachers
1.7	Degree level Bachelor
1.8	Teaching language German
2	<p>Content</p> <p>Fundamentals and systematics of law</p> <ul style="list-style-type: none"> • Functions of law, differentiation of law from custom, morality and ethics • Bifurcation of law into public law and civil law (private law) • Theory of sources of law (origin of law) • Classifications of law (objective and subjective law/formal and substantive law) • right/enforcing and yielding right). • Overview of state and state organization law, including fundamental rights. • Overview of the law of the European Union (EU) <p>Introduction to private commercial law.</p> <ul style="list-style-type: none"> • Overview of the legal areas of private commercial law • Structure and systematics of the German Civil Code (BGB) • Natural and legal persons • Legal objects • Legal transaction, declaration of intent, debt relationship • Formation of contracts • Right of representation • Deadlines and dates • Limitation

	<ul style="list-style-type: none"> • Freedom of contract (private autonomy) and limits (obligation to contract) • Overview of contractual obligations, with special emphasis on the law of sales contracts. • Overview of the performance problems (delay, impossibility) • Defects of quality and title in sales contract law • Overview of the law governing general terms and conditions (GTC) • Overview of the contract types of the BGB • Overview of the law of torts (tort law). • Overview of producer and product responsibility Methodology of jurisprudence. <ul style="list-style-type: none"> • Structure of the legal sentence • Interpretation of the legal sentence • Subsumption and syllogism
<p>3</p>	<p>Targets</p> <p>Knowledge: Students acquire an overview of the fundamentals of the German legal system, institutional core areas of the European Union and basic knowledge as well as application-related in-depth knowledge of civil law core areas of the first three books of the Civil Code. The students can reproduce key facts about the Federal Republic of Germany and the European Union and know the relevant regulatory locations and contents of the basic legal structures. In the area of the General Part, the Law of Obligations and the Law of Property of the German Civil Code, students acquire in-depth knowledge of the basic material of civil law, know the relevant normative material and are able to comprehend legislative solutions of interest.</p> <p>Skills: The students are able to understand both the origins and the interrelationships of German and EU law, to answer basic questions of German and EU law and to outline the legal background of the internal market with the four fundamental freedoms, in particular the free movement of goods. In the area of commercial private law core material of civil law, students master basic case resolution techniques.</p> <p>Competencies: In the combination of overview and in-depth knowledge paired with jurisprudential methodological knowledge, students acquire competencies to recognize the fundamental norm-bound nature of economic action and to both prognostically grasp and retrospectively solve prototypical fields of conflict under private commercial law.</p>
<p>4</p>	<p>Teaching and learning methods</p> <p>Lecture (L), Exercise (E) Media used: e.g. beamer, visualizer, whiteboard, electronic learning platform</p>
<p>5</p>	<p>Workload and Credit Points</p> <p>Total workload of 150 hours for 5 credit points (CP) Attendance time: 64 hours Self-study: 86 hours</p>

6	<p>Form of examination, duration and examination requirements</p> <ul style="list-style-type: none"> Examination in the form of a written exam (duration: 180 min) on the entire course content of the module at the end of the module. The exam can be repeated in the following semester.
7	<p>Necessary knowledge</p> <p>None</p>
8	<p>Recommended knowledge</p> <p>None</p>
9	<p>Duration, time structure and frequency of the offer</p> <p>The module covers one semester with 4 SWS and is offered once per semester.</p>
10	<p>Usability of the module</p> <p>For the advanced studies and all other courses with (partial) contents in law</p>
11	<p>Literature</p> <p>Kühl/Reichold/Ronellenfitsch: Introduction to Law (C.H. Beck Verlag)</p> <p>Detterbeck: Public Law (Franz Vahlen Verlag)</p> <p>Hakenberg: European Law (Franz Vahlen Verlag)</p> <p>Ann/Hauck/Obergfell: Wirtschaftsprivatrecht kompakt (Franz Vahlen Verlag)</p> <p>Lange: Basiswissen Ziviles Wirtschaftsrecht (Franz Vahlen Verlag) Mehring: Grundzüge des Wirtschaftsprivatrechts (Franz Vahlen Verlag) Müssig: Private Business Law (C.F. Müller Verlag)</p>

Module 115: Basics of Logistics

1	Module name Basics of Logistics
1.1	Module abbreviation 115
1.2	Type Mandatory module
1.3	Course Lecture and exercise
1.4	Semester 1
1.5	Person(s) responsible for the module Prod. Dr. Johanna Bucerius
1.6	Other teachers
1.7	Degree level Bachelor
1.8	Teaching language German
2	Content <ul style="list-style-type: none">- Introduction to logistics- Macrology- Procurement logistics- Inventory Management- Production logistics- Distribution logistics- Storage and picking systems- Spare parts and disposal logistics- Logistics networks- Site selection- IT in logistics

<p>3</p>	<p>Targets</p> <p>After successful completion of the module, students have basic knowledge, skills and competencies in the field of logistics.</p> <p>Knowledge: You will acquire the knowledge to classify and describe main phases of logistics. You will be able to name and calculate basic interrelationships. You will know and recognize the correct logistics instruments</p> <p>Skills: Students have the skills to understand and apply important basic logistics laws. In doing so, they analyze simple logistics systems and correctly apply the logistics tools they have learned.</p> <p>Competencies: They have the competence to structure logistical concepts and can propose sensible solutions for logistical problems.</p>
<p>4</p>	<p>Teaching and learning methods</p> <p>Lecture (L), Exercise (E) Media used: blackboard, overhead projector, beamer...</p>
<p>5</p>	<p>Workload and Credit Points</p> <p>64 hours of classroom study, 86 hours of self-study (preparation and follow-up, exam preparation), mainly teaching of technical competence</p>
<p>6</p>	<p>Form of examination, duration and examination requirements</p> <p>Examination usually in the form of a written exam</p>
<p>7</p>	<p>Necessary knowledge</p> <p>--</p>
<p>8</p>	<p>Recommended knowledge</p> <p>see § 5 Abs.2 BBPO</p>
<p>9</p>	<p>Duration, time structure and frequency of the offer</p> <p>Duration 1 semester, every semester</p>

Module 115: Basics of Logistics

10	Usability of the module Logistics Management (B.Sc.) Business Administration (B.Sc.) is also used in the same or similar form in IBWL- Bachelor, EWI-Bachelor, WIng-Bachelor, WIng-Master (bridge course), BWL-Master (bridge course)
11	Literature latest edition <ul style="list-style-type: none">• Gleissner/Femerling: Logistics: Basics - Exercises - Case Studies• Ehrmann: Compact Training Logistics further literature references will be given in the courses.

Module 116: Business Mathematics

1	Module name Business Mathematics
1.1	Module abbreviation 116
1.2	Type Mandatory module
1.3	Course Business Mathematics
1.4	Semester 1
1.5	Person(s) responsible for the module Puth, Dr. Böhmer
1.6	Other teachers Dr. Micol
1.7	Degree level Bachelor
1.8	Teaching language German
2	Content Excerpts of mathematical subareas such as general principles, differential and integral calculus, basic elements of financial mathematics including depreciation methods, linear systems of equations with a view to linear optimization, which have a significance for tasks in LOGISTICS, are treated. In addition, transport and shortest path problems in particular are worked out in advance with an introduction to graph theory.
3	Targets Graduates of this module are able to apply simple mathematical methods and models to solve economic problems in the field of LOGISTICS.

Module 116: Business Mathematics

4	<p>Teaching and learning methods</p> <p>Lectures/Exercises: 4 SWS</p> <p>(Slide-) presentation, case studies, exercises, lecture accompanying documents</p>
5	<p>Workload and Credit Points</p> <p>64 hours of classroom study, 86 hours of self-study (preparation and follow-up, exam preparation), essentially teaching technical competence.</p> <p>5 credits</p>
6	<p>Form of examination, duration and examination requirements</p> <p>Written exam or written exam with credit for homework or homework and professional discussion</p>
7	<p>Necessary knowledge</p> <p>none</p>
8	<p>Recommended knowledge</p> <p>none</p>
9	<p>Duration, time structure and frequency of the offer</p> <p>every semester</p>
10	<p>Usability of the module</p> <p>Logistics Management (B.Sc.)</p> <p>The acquisition of knowledge of the relevant basics with simultaneous transfers on examples from the practice of LOGISTICS is of fundamental importance.</p>
11	<p>Literature</p> <p>latest edition in each case:</p> <ul style="list-style-type: none"> • Tietze, J., Einführung in die angewandte Wirtschaftsmathematik, Vieweg Verlag • Helm, W.; Pfeifer, A., Ohser, J.: Mathematik für Wirtschaftswissenschaftler, Hanser Verlag <p>Additional references will be provided in the course.</p>

1	Module name Management of logistics projects
1.1	Module abbreviation 121
1.2	Type Mandatory module
1.3	Course Logistics project management
1.4	Semester 2
1.5	Person(s) responsible for the module Prof. Dr. Armin Bohnhoff
1.6	Other teachers Prof. Dr. Sebastian Herold, Prof. Werner Stork
1.7	Degree level Bachelor
1.8	Teaching language German
2	<p>Content</p> <p>Basic features and elements of professional management of logistics projects</p> <ul style="list-style-type: none"> • Basics, project definition, goals of the project • Organization of projects in logistics • Project planning and project process management • Risk and quality management • Project communication • Practical implementations and exercises on Microsoft Project <p>Presentation basics</p> <ul style="list-style-type: none"> • Structuring and visualization of logistics projects in the context of a presentation • Creation of handouts and infographics • Practical implementation and use of various presentation media as well as moderation techniques in a meaningful way • Presentation and discussion on the logistics project (presentation style, body language, rhetoric, argumentation technique) - especially as group performance • Workshop design

<p>3</p>	<p>Targets</p> <p>Knowledge: Students will be able to provide an overview of concepts for managing larger logistics projects according to the internationally recognized rules of project management (PMI Project Management Body of Knowledge PMBOK).</p> <p>Skills: Students will be able to apply logistics methods and tools to start, plan, coordinate, control and lead projects in the field of logistics to a positive conclusion as a team. They will be able to create a project plan, adjust it as the project progresses, and track it. You will be able to design, structure and professionally create a presentation for communicating interim statuses, project results and project management in a recipient-oriented manner using suitable tools (PowerPoint, Visio, Mind Mapping, etc.), present it in a team based on the division of labor in relation to the situation and defend it. Project meetings can be conducted independently, project-related roles can be assigned and performed, and adequate communication and conflict management can be ensured in the work teams. You will acquire the skills to adequately involve the respective project client and steering committee in the decision-making process in accordance with their role, to communicate project results in a way that is appropriate for the target group, and to develop and, if necessary, implement project marketing measures.</p> <p>Competencies: Students will be able to independently manage small to medium complex logistics projects, select and apply the right logistics methods and tools and present their results, place them in the context of the task and argue for them.</p>
<p>4</p>	<p>Teaching and learning methods</p> <p>L, E, Pro White board, beamer, flip chart, metaplan wall</p>
<p>5</p>	<p>Workload and Credit Points</p> <p>120 hours</p>
<p>6</p>	<p>Form of examination, duration and examination requirements</p> <p>The examination takes the form of a project. The project is worked on in groups. The project results as well as the project work are evaluated via a written documentation and via a presentation. The presentation is scheduled for 45 minutes, the written documentation comprises approx. 25-30 pages. The written documentation and the presentation are equally counted in the grade.</p>
<p>7</p>	<p>Necessary knowledge</p> <p>--</p>

Module 121: Management of logistics projects

8	Recommended knowledge --
9	Duration, time structure and frequency of the offer 4 UE in SoSe and WiSe
10	Usability of the module Logistics Management (B.Sc.)
11	Literature <ul style="list-style-type: none">• Heinz Schelle: Leading Projects to Success; Beck• Hans Litke: Project Management; Hanser• Gene Zelazny: The Presentation Book; Campus• Emil Hierhold: Presenting with confidence - presenting more effectively; redline

Module 122: Investment and financing

1	Module name Investment and financing
1.1	Module abbreviation 122
1.2	Type Mandatory Module
1.3	Course Investment and financing
1.4	Semester Semester 3
1.5	Person(s) responsible for the module Dr. Hensberg
1.6	Other teachers Dr. Fresl
1.7	Degree level Bachelor
1.8	Teaching language German
2	Content <ul style="list-style-type: none">• Planning of individual investments (suggestion, search, decision, implementation, control)• Static investment calculations (e.g. comparative cost calculation, comparative profit calculation, comparative profitability calculation, comparative amortization calculation)• Dynamic investment calculations (e.g. net present value method, internal rate of return method, annuity method)• Utility analysis• Equity financing / debt financing / external financing / internal financing

Module 122: Investment and financing

3	<p>Targets</p> <p>Knowledge: Students will be able to</p> <ul style="list-style-type: none"> • outline the main steps in an investment process • Explain and compare investment appraisal procedures • Describe and structure financing alternatives <p>Skills: Students will be able to</p> <ul style="list-style-type: none"> • Review and select investment appraisal methods for their suitability • Perform investment calculations and utility analyses independently • Determine the advantageousness of investment alternatives • Structure and classify types of financing • Enter, format and edit data in Excel <p>Competencies: Students will be able to visualize and structure investment processes using a flow chart</p>
4	<p>Teaching and learning methods</p> <p>Lecture (L) with integrated exercises (E) in the form of e.g. practical exercises, exercise cases and Excel applications in the computer room. The exercises are partly done in group work.</p> <p>Media used: beamer (Powerpoint presentations), blackboard (blackboard notes as PDF), lab computer, Excel downloads, PDF downloads, Moodle</p>
5	<p>Workload and Credit Points</p> <p>Total workload of 150 hours for 5 credit points (CP) Attendance time: 64 hours Self-study: 86 hours</p>
6	<p>Form of examination, duration and examination requirements</p> <ul style="list-style-type: none"> • Examination usually in the form of a written exam (also possible electronically) (duration: 90 min) on the entire course content of the module at the end of the module. • The exam can be repeated in the following semester.
7	<p>Necessary knowledge</p> <p>None</p>
8	<p>Recommended knowledge</p> <p>Internal accounting, business mathematics, external accounting</p>
9	<p>Duration, time structure and frequency of the offer</p> <p>The module covers one semester with 4 SWS and is offered once per semester.</p>
10	<p>Usability of the module</p> <p>Logistics Management B.Sc.</p>

Module 122: Investment and financing

11 Literature

Däumler /Grabe: Grundlagen der Investitions- und Wirtschaftlichkeitsrechnung, NWB Götze:

Investitionsrechnung, Springer

Microsoft Online Documentation

Olfert/Reichel: Investment, NWB

Olfert/Reichel: Kompakt-Training Finanzierung, NWB

Schäfer: Unternehmensinvestitionen, Physica

Perridon/Steiner: Finanzwirtschaft der Unternehmung, Vahlen

Prexl: Excel für BWLer, UTB

Schels/ Seidel: Excel in Controlling, Carl Hanser

Module 123: Internal accounting

1	Module name Internal accounting
1.1	Module abbreviation 123
1.2	Type Mandatory module
1.3	Course Internal accounting
1.4	Semester Semester 2
1.5	Person(s) responsible for the module Dr. Hensberg
1.6	Other teachers Bopp
1.7	Degree level Bachelor
1.8	Teaching language German
2	Content <ul style="list-style-type: none"> • Cost type accounting (basic costs, imputed depreciation, imputed interest, imputed risk, imputed entrepreneurial wage, imputed rent) • Cost center accounting (cost center formation, cost center plan, operational accounting sheet, primary cost and secondary cost allocation) • Unit costing (e.g. division costing, equivalence number costing, overhead costing, machine hour rate costing) • Cost unit time accounting (total cost method, cost of sales method) • Full cost accounting • Partial costing (single-stage contribution margin accounting, multi-stage contribution margin accounting)

Module 123: Internal accounting

3	Targets Knowledge: Students will be able to <ul style="list-style-type: none">• Define, explain and subdivide cost elements;• List criteria for cost center formation;• Describe aspects of cost center and cost object accounting;• Explain differences between absorption costing and direct costing. Skills: Students will be able to, <ul style="list-style-type: none">• Basic costs to be compiled and calcul. Calculate costs;• To prepare an operational accounting sheet;• To perform primary cost allocation and secondary cost allocation;• Calculate prices;• set up a single-stage or multi-stage contribution margin calculation; Competencies: Students will be able to solve problems related to internal accounting.
4	Teaching and learning methods Lecture (L) with integrated exercises (E) in the form of e.g. practical exercises, exercise cases and Excel applications in the computer room. The exercises are partly done in group work. Media used: beamer (Powerpoint presentations), blackboard (blackboard notes as PDF), lab computer, Excel downloads, PDF downloads, Moodle
5	Workload and Credit Points Total workload of 150 hours for 5 credit points (CP) Attendance time: 64 hours Self-study: 86 hours
6	Form of examination, duration and examination requirements <ul style="list-style-type: none">• Examination usually in the form of a written exam (also possible electronically) (duration: 90 min) on the entire course content of the module at the end of the module. The exam can be repeated in the following semester.
7	Necessary knowledge None
8	Recommended knowledge External accounting

Module 123: Internal accounting

9	<p>Duration, time structure and frequency of the offer</p> <p>The module covers one semester with 4 SWS and is offered once per semester.</p>
10	<p>Applicability of the module</p> <p>Logistics Management B.Sc.</p> <p>Public Management</p>
11	<p>Literature</p> <p>Coenenberg/Fischer/ Günther: Kostenrechnung und Kostenanalyse, Schäffer-Poeschel</p> <p>Däumler/Grabe: Kostenrechnung 1 - Grundlagen, NWB</p> <p>Friedl/Hofmann/Pedell: Kostenrechnung, Vahlen</p> <p>Olfert: Kostenrechnung, NWB</p> <p>Perridon/Steiner/Rathgeber: Finanzwirtschaft der Unternehmung, Vahlen Prexl:</p> <p>Excel für BWLer, UTB</p> <p>Schels/Seidel: Excel im Controlling, Carl Hanser</p> <p>Schmidt: Kostenrechnung, Kohlhammer</p>

1	Module name Applied microeconomics
1.1	Module abbreviation 124
1.2	Type Mandatory module
1.3	Course Applied microeconomics
1.4	Semester 1
1.5	Person(s) responsible for the module Prof. Dr. Benjamin Engelstätter
1.6	Other teachers Dr. Stefan Puth
1.7	Degree level Bachelor
1.8	Teaching language German
2	Content <ul style="list-style-type: none"> • Introduction to economics: basic problems of economics, modeling, economic systems, empiricism. • Fundamentals of market-based pricing: Supply and demand, elasticity • Market efficiency and market rents • Public Sector: Taxes, Externalities and Public Goods • Corporate behavior: Production and cost functions • Market forms: Polypole, Monopoly, Oligopoly, Monopolistic Competition.
3	Targets <ul style="list-style-type: none"> • <u>Knowledge</u>: Students will learn to use and develop an understanding of basic economic models such as supply and demand curves and cost functions. • <u>Skills</u>: Based on this knowledge, students will be able to assess historical but especially current market situations, such as price developments in various markets. • <u>Competencies</u>: Students will be able to explain the special role of government in a market economy facing market failure due to externalities and will be able to develop appropriate regulatory measures to avoid market failure.

Module 124: Applied microeconomics

4	<p>Teaching and learning methods</p> <p>Lecture with case studies and exercises, current media coverage. VL with Powerpoint - support on the beamer, each provided as a file, use of the visualizer if required.</p>
5	<p>Workload and Credit Points</p> <p>5 CP, 64 hours of attendance study, 86 hours of self-study, essentially teaching of technical competence.</p>
6	<p>Form of examination, duration and examination requirements</p> <ul style="list-style-type: none"> • Examination usually in the form of a written exam (duration: 90 min) at the end of the module with multiple choice questions and multi-level tasks on the entire course content of the module. • The exam can be repeated in the following semester.
7	<p>Necessary knowledge</p> <p>None.</p>
8	<p>Recommended knowledge</p> <p>None.</p>
9	<p>Duration, time structure and frequency of the offer</p> <p>Every semester, 4 SWS.</p>
10	<p>Usability of the module</p> <p>The module is used in the same or similar form in the Bachelor's degree programs: Business Administration (BSc), Energy Management (BSc) as well as International Business Administration (BSc).</p>
11	<p>Literature</p> <p>In each case the latest edition:</p> <p>Mankiw, N. Gregory and Taylor, Mark P.: Grundzüge der Volkswirtschaftslehre, 5th edition, Schäffer-Poeschel.</p> <p>Krugman, Paul and Wells, Robin: Volkswirtschafts-lehre, Schäffer-Poeschel. Further references will be given in the course.</p>

Module 124: Applied microeconomics

11 Literature

In each case the latest edition:

Mankiw, N. Gregory and Taylor, Mark P.: Grundzüge der Volkswirtschaftslehre, 5th edition, Schäffer-Poeschel.

Krugman, Paul and Wells, Robin: Volkswirtschafts-lehre, Schäffer-Poeschel. Further references will be given in the course.

Module 125: Business statistics

1	Module name Business statistics
1.1	Module abbreviation 125
1.2	Type Mandatory module
1.3	Course Economic statistics
1.4	Semester 2
1.5	Person(s) responsible for the module Puth, Dr. Zisgen
1.6	Other teachers Dr. Micol
1.7	Degree level Bachelor
1.8	Teaching language German
2	Content By means of the presented methods of descriptive statistics and the so-called quantitative methods of time series, correlation and regression calculation as well as the basics of inferential statistics, it is possible for the participants to prepare operational data of LOGISTICS in a meaningful way, i.e. to analyze, evaluate and forecast as well as to critically appreciate prepared data material.
3	Targets Graduates of this module will be able to apply statistical and stochastic methods to solve operational logistics problems and evaluate the performance characteristics of each method.

Module 125: Business statistics

4	<p>Teaching and learning methods</p> <p>Lectures/Exercises: 4 SWS</p> <p>(Slide-) presentation, case studies lecture-accompanying documents</p>
5	<p>Workload and Credit Points</p> <p>64 hours of classroom study, 86 hours of self-study (preparation and follow-up, exam preparation), essentially teaching technical competence.</p> <p>Credits 5</p>
6	<p>Form of examination, duration and examination requirements</p> <p>Written exam or written exam with credit for homework or homework and professional discussion</p>
7	<p>Necessary knowledge</p> <p>none</p>
8	<p>Recommended knowledge</p> <p>Module 116 (Business Mathematics)</p>
9	<p>Duration, time structure and frequency of the offer</p> <p>every semester</p>
10	<p>Usability of the module</p> <p>Logistics Management (B.Sc.)</p> <p>The knowledge acquisition of the relevant basics with simultaneous transfer performances on examples from the practice of LOGISTICS is of fundamental importance. The aim is to acquire introductory knowledge of stochastics for simulations and statistics for evaluations and statistical proofs.</p>
11	<p>Literature</p> <p>latest edition</p> <ul style="list-style-type: none"> • Helm, W.; Pfeifer, A., Ohser, J.: Mathematik für Wirtschaftswissenschaftler, Hanser Verlag • J. Steifl, Business Statistics, Oldenbourg • P. Dörsam, Economic Statistics, PD-Verlag <p>Additional references will be provided in the course.</p>

1	Module name Business informatics 1
1.1	Module abbreviation 126
1.2	Type Mandatory module
1.3	Course Business informatics 1
1.4	Semester 2
1.5	Person(s) responsible for the module Dr. Vieth
1.6	Other teachers NN
1.7	Degree level Bachelor
1.8	Teaching language German
2	Content <ul style="list-style-type: none"> • Introduction: Contents, goals and subject of business informatics <ul style="list-style-type: none"> ○ Business management problems in companies under consideration of information sciences ○ Contents, goals and subject ○ Developments ○ Science Context ○ System design • Technical basics: structure and function of hardware, software and networks <ul style="list-style-type: none"> ○ Hardware ○ Software ○ Networks • Management system "Information and Communication": System "Information and Communication", Information and communication with system <ul style="list-style-type: none"> ○ System elements and relationships between system elements ○ Culture ○ Organization ○ Processes ○ Leadership • Project management: development and implementation of system solutions

	<ul style="list-style-type: none"> ○ Project Management Systems ○ Challenges and potentials ○ Methods and instruments ○ From the project phase to the operating phase ○ Recent developments
<p>3</p>	<p>Targets</p> <p>Knowledge:</p> <p>Graduates will be able to describe the contents, objectives and subject matter of business information systems and to place business information systems in a holistic scientific context. They are able to outline the interactions between the information economic and the goods and financial economic processes in all areas and at all levels of a company. Graduates are able to explain digital information systems, the design and structures of hardware and software systems as well as networks and their integration into socio-technical systems. Furthermore, they are able to identify challenges and potentials in the present and explain the implementation and use of digital information systems in companies. They can explain the tasks of information management in companies and classify them organizationally. Graduates will be able to explain the individual phases of the project management process for digitization projects in companies. In addition, they are familiar with the contents of the phase-dependent methods and instruments as well as more recent approaches to increasing agility in projects in order to be able to reproduce them comprehensively. In the context of managing digitization projects, they can outline concepts as well as suitable methods and instruments of project management.</p> <p>Skills:</p> <p>Graduates are able to explain application areas of digital information systems and configure digital information systems. Furthermore, they are able to set up, quantify, compare and ultimately select efficient digital measures for the improvement of operational processes with the help of known methods and instruments. Graduates understand how to establish the functions of "information and communication" culturally, organizationally, technically and socially in a suitable manner in companies, so that this increases the acceptance of digital information systems and the associated use and benefits. They are able to plan, organize and control projects for the digitization of operational value creation systems and successfully transfer them to the operational phase. Graduates are able to provide appropriate support for the use of the implemented digital information systems. They are able to plan digitization projects and ensure their use in the operational phase.</p> <p>Competencies:</p> <p>On the basis of the systems, methods and tools presented, graduates are able to develop their own solution approaches, taking digitalization into account, to improve value creation systems in companies. And they are able to implement the developed catalogs of requirements for digital solution approaches in development and implementation projects. To do this, they assess the initial situation and select the appropriate approach, including the associated methods and tools, against the background of the agreed objectives. Furthermore, graduates are able to establish the importance of digital information systems in companies in an appropriate manner.</p>

<p>4</p>	<p>Teaching and learning methods</p> <ul style="list-style-type: none"> • Lecture (L) (Plenum work) • Exercises (E) in the form of presentation and discussion of case study solutions (partner work, group work) • Lab practical (LP) (individual work, partner work) • Self-study with the aid of a learning diary and the video material for the course <p>Media used include beamer, case study texts, inverted classroom, exam examples, learning platforms, reading texts, blackboard, overhead projector, exercises, video recordings, lecture notes</p>
<p>5</p>	<p>Workload and Credit Points</p> <p>Total workload of 150 hours for 5 credit points (CP) Attendance time: 64 hours Self-study: 86 hours</p>
<p>6</p>	<p>Form of examination, duration and examination requirements</p> <ul style="list-style-type: none"> • Preliminary examination in the form of a case study on the course. • Preliminary examination in the form of keeping a learning diary for the course. • Examination in the form of a written examination on the entire course content of the module at the end of the module or, as an alternative to a written examination, a comparable written performance. • Students have the opportunity to repeat the preliminary and final examinations in the following semester. • Prerequisite for the participation in the examination is the passing of the preliminary examination. • The share of the preliminary examination in the form of case study work in the module grade is a maximum of 25%, the share of the preliminary examination in the form of keeping a learning diary is a maximum of 25%. • The share of the examination performance in the form of a written examination or a comparable written performance in the module grade is at least 50%. Prerequisite for the participation in the examination is the passing of the preliminary examination.
<p>7</p>	<p>Necessary knowledge</p> <p>Organization and Management" Module</p>
<p>8</p>	<p>Recommended knowledge</p> <p>Knowledge of the use and benefits of digital application systems.</p>
<p>9</p>	<p>Duration, time structure and frequency of the offer</p> <p>The module covers one semester with 2 SWS lecture and 2 SWS practical exercises and is offered once per semester.</p>
<p>10</p>	<p>Usability of the module</p> <p>[This can be left blank for now.]</p>

Module 126: Business Informatics 1

11 Literature

- Abts, Dietmar / Müller, Wilhelm: Grundkurs Wirtschaftsinformatik, Springer Vieweg Verlag; 8th ed. 2013.
- Bächle, Michael / Kolb, Arthur: Einführung in die Wirtschaftsinformatik, Oldenbourg Verlag; 3rd ed. 2012.
- Bea, Franz Xaver / Scheuerer, Steffen / Hesselmann, Sabine: Projektmanagement, UVK Verlagsgesellschaft; 2nd ed. 2011.
- Gadatsch, Andreas: Grundkurs Geschäftsprozessmanagement, Springer Vieweg Verlag; 7th ed. 2012.
- Gronau, Norbert: Enterprise Resource Planning, Oldenbourg Verlag; 3rd ed. 2014.
- Hoppe, Mark / Wollmann, Martin: Lean Production mit SAP®, Galileo PRESS; 2011.
- Krcmar, Helmut: Informationsmanagement, Springer-Verlag; 6th ed. 2016.
- Laudon, Kenneth C. Laudon, Jane P. / Schoder, Detlef: Wirtschaftsinformatik, Pearson Germany; 3rd ed. 2015.
- Leimeister, Jan Marco: Einführung in die Wirtschaftsinformatik, Springer-Verlag; 12th ed. 2015.
- Schelle, Heinz: Leading Projects to Success: Projektmanagement systematisch und kompakt, Deutscher Taschenbuch Verlag; 7th ed. 2014.
- Schmelzer, Herrmann / Sesselmann, Wolfgang: Geschäftsprozessmanagement in der Praxis, Carl Hanser Verlag; 8th ed. 2013.
- Seidlmeier, Heinrich: Prozessmodellierung mit ARIS®, Vieweg + Teubner Verlag; 3rd ed. 2010.
- Timinger, Holger / Seel, Christian: A Framework for Adaptive Hybrid Project Management. In: Projektmanagement aktuell, 27. Jg. 4. 2016, pp. 55 - 61.

Module 131: Marketing

1	Module name Marketing
1.1	Module abbreviation 131
1.2	Type Mandatory module
1.3	Course Marketing
1.4	Semester Semester 2
1.5	Person(s) responsible for the module Dr. Valizade-Funder
1.6	Other teachers
1.7	Degree level Bachelor
1.8	Teaching language German
2	Content <ul style="list-style-type: none"> • Marketing as a management task and strategic marketing • Marketing goals • Marketing strategies and • Marketing measures (product, price, communication and distribution strategies) • Basics of consumer behavior • Market research • Competitive Strategies • Case Studies
3	Targets Knowledge: Students will have knowledge of the areas listed under "Content". Skills: Students will be able to select and apply appropriate concepts and methods to solve typical marketing problems.

Module 131: Marketing

4 Teaching and learning methods	<p>Lecture (L), Exercise (E)</p> <p>Media used: communication media (e.g. electronic learning platforms), presentation media (e.g. beamer, whiteboard, flipchart, smartboard, metaplan)</p>
5 Workload and Credit Points	<p>Total workload of 150 hours for 5 credit points (CP)</p> <p>Attendance time: 64 hours</p> <p>Self-study: 86 hours</p>
6 Form of examination, duration and examination requirements	<ul style="list-style-type: none"> Examination usually in the form of a written exam (also possible electronically) (duration: 90 min) on the entire course content of the module at the end of the module. The exam can be repeated in the following semester.
7 Necessary knowledge	<p>None</p>
8 Recommended knowledge	<p>None</p>
9 Duration, time structure and frequency of the offer	<p>The module covers one semester with 4 SWS and is offered once per semester.</p>
10 Usability of the module	<p>Logistics Management B.Sc.</p>
11 Literature	<p>Berekoven/Eckert/Ellenrieder: Market Research: Methodological Principles and Practical Application</p> <p>Homburg/Krohmer: Fundamentals of Marketing Management</p> <p>Kotler/Armstrong/Saunders/Wong: Fundamentals of Marketing</p> <p>Kroeber-Riel/Weinberg/Gröppel-Klein Consumer Behavior</p> <p>Meffert/Burmann/Kirchgeorg: Marketing: Fundamentals of Market-Oriented Management: Concepts - Instruments - Practical Examples</p> <p>Nieschlag/Dichtl/Hörschgen: Marketing</p>

1	Module name Business game and work methodology
1.1	Module abbreviation 132
1.2	Type Mandatory module
1.3	Course Business game and work methodology
1.4	Semester 3 The course is in the 3rd semester
1.5	Person(s) responsible for the module Mr. Richard Bopp
1.6	Other teachers Prof. Thomas Bauer, Wolfgang Hesse, Martin Düprè
1.7	Degree level Bachelor, Advanced level course (promotion and reinforcement of professional and methodological competence).
1.8	Teaching language German
2	Content <u>Business game submodule:</u> In a business management simulation, management-related decisions are demanded from the students under competitive conditions and thus under uncertainty, which require recourse to the acquired specialist knowledge and the coordination of the operational functional areas. The management simulation covers several periods, includes the analysis of key business figures, the consideration of macroeconomic framework data (economy, interest rates, wages ...) and forces strategic thinking. In presentations, strategic and operational situations, goals and results are presented in writing and delivered <u>Work methodology submodule:</u> Using a topic that is close to the business game (e.g. marketing strategies), students develop methodological procedures (e.g. mind mapping) for structuring the content of a scientific paper as well as the elements and characteristics of common standards for writing a scientific paper (e.g. bachelor thesis) in conjunction with the automation and formatting options of PC word processing software (e.g. MS Word).

<p>3</p>	<p>Targets</p> <p>Business game sub-module: In the business game</p> <ul style="list-style-type: none"> ▪ students recognize the necessity of reflecting and integrating knowledge and methods from different operational functional areas in a situation-appropriate manner on the basis of a concrete situation. ▪ students carry out the analysis and strategic conception of a complex corporate and competitive situation based on a division of labor. They recognize the necessity of a division of labor and can subsequently assess the efficiency. <p>Work methodology sub-module: In work methodology</p> <ul style="list-style-type: none"> ▪ students independently apply standards of science-oriented text production using short analyses. ▪ analyze, evaluate, and assess exemplary elaborations from the point of view of compliance with the standards.
<p>4</p>	<p>Teaching and learning methods</p> <p>Seminar lecture (L), group work (G), exercises (E) and presentations (P) Media used: whiteboard, beamer, computer (PC lab).</p> <p>The teaching, exercise and results documents are made available or exchanged in the electronic learning platform Moodle</p>
<p>5</p>	<p>Workload and Credit Points</p> <p>64 hours of classroom study, 86 hours of self-study</p> <p>5 credit points</p>
<p>6</p>	<p>Form of examination, duration and examination requirements</p> <ul style="list-style-type: none"> • Preparation and submission of a scientific paper in accordance with the rules of working methodology. This work is not evaluated. • Examination performance in the form of a press conference (presentation; duration: 10 min per group) on the corporate approach (analysis, strategies and appearance in relation to the stakeholders of a fictitious company). (= 20 % of the total credit points) • Examination performance in the form of a general meeting (presentation, duration: 30 min per group) on the period (6 fiscal years) of the fictitious company. (= 40 % of the total performance points) • Examination performance in the form of the results of the business game per group. (= 40% of the total credit points). The evaluation takes place according to selected key figures, which are known to the students in each case. • The exam can be repeated in the following semester.

Module 132: Business game and work methodology

7	<p>Necessary knowledge</p> <p>None; or see "Recommended prerequisites"</p>
8	<p>Recommended knowledge</p> <p>The module is regularly located in the 3rd semester and combines diverse subject and media competencies that are the subject of the course of study. Therefore, attendance of the preceding modules is strongly recommended.</p>
9	<p>Duration, time structure and frequency of the offer</p> <p>1 semester ; every semester</p>
10	<p>Applicability of the module</p> <p>Logistics Management (B.Sc.)</p> <p>Business Administration (B.Sc.)</p> <p>International Business</p> <p>Administration (B.Sc.)</p>
11	<p>Literature</p> <p>Participant documentation for the business game Latest editions:</p> <p style="padding-left: 40px;">Becker, G.; Quote and manuscript, Schäffer-Poeschel; Stuttgart</p> <p style="padding-left: 40px;">Theisen, R., Scientific Work: Technique-Methodology-Form, Vahlen 2008</p>

Module 133: Applied macroeconomics

1	Module name Applied macroeconomics
1.1	Module abbreviation 133
1.2	Type Mandatory module
1.3	Course Applied macroeconomics
1.4	Semester 2
1.5	Person(s) responsible for the module Klüh
1.6	Other teachers Dr. Stefan Puth
1.7	Degree level Bachelor
1.8	Teaching language German/English
2	Content <ul style="list-style-type: none"> – Macroeconomic problems and methods – Introduction to the measurement of macroeconomic and financial variables. – Introduction to national income and wealth accounting, circular flow relationships, macroeconomic identities. – Goods and capital market in the short term – Financial and money market in the short term – A model of the short term: The IS-LM model – Open economies and the IS-LM model – A model of the medium term: The AD-AS model – Economic growth
3	Targets <u>Knowledge:</u> Students know basic macroeconomic concepts, debates and patterns of argumentation. They know how developments in the overall economy and in financial markets are measured, described and analyzed.

Module 133: Applied macroeconomics

	<p><u>Skills:</u> Based on this knowledge, students are able to reflect on changes in the macroeconomic environment in terms of operational and personal implications. They master the handling of macroeconomic data, in particular the testing of hypotheses using simple empirical methods.</p> <p><u>Competencies:</u> Students develop a critical approach to economic theories and economic policy statements. They simplify complex interrelationships using the approaches they learned in the model analyses. They develop an understanding of basic macroeconomic relationships and learn how to use models (IS-LM model, AD-AS model, Mundell-Fleming model).</p>
4	<p>Teaching and learning methods</p> <p>Lecture with case studies and exercises, current media coverage. Media used: Multimedia. Among others blackboard, overhead projector, beamer, visualizer.</p>
5	<p>Workload and Credit Points</p> <p>150 hours, 5 CPs</p> <p>Attendance time: 64 hours</p> <p>Self-study: 86 hours</p>
6	<p>Form of examination, duration and examination requirements</p> <ul style="list-style-type: none"> – Examination usually in the form of a written exam (duration: 90 min) at the end of the module with multiple choice questions and multi-level tasks on the entire course content of the module. – The exam can be repeated in the following semester.
7	<p>Necessary knowledge</p> <p>None.</p>
8	<p>Recommended knowledge</p> <p>Applied Microeconomics</p>
9	<p>Duration, time structure and frequency of the offer</p> <p>Every semester, 4 SWS</p>
10	<p>Usability of the module</p> <p>[This can be left blank for now.]</p>

Module 133: Applied macroeconomics

11 Literature

In each case the latest edition:

Olivier Blanchard / Gerhard Illing: Macroeconomics, Pearson Verlag.

Josef Foster / Ulrich Klüh / Stephan Sauer: Exercises in Macroeconomics, Pearson Verlag. Further

literature references will be given in the course.

Module 134: Basics of controlling

1	Module name Basics of controlling
1.1	Module abbreviation 134
1.2	Type Mandatory module
1.3	Course Basics of controlling
1.4	Semester Semester 3
1.5	Person(s) responsible for the module Dr. Hensberg
1.6	Other teachers Dr. Hensberg
1.7	Degree level Bachelor
1.8	Teaching language German
2	Content <ul style="list-style-type: none"> • Tasks of controlling / differentiation between controlling and management • Introduction to operational, tactical and strategic planning and control • Planning direction, planning rhythm, planning calendar • Target/actual comparison, target/actual comparison, variance analysis • Basic instruments of strategic controlling (e.g. SWOT analysis, standard strategies according to Porter, strategic segmentation, value chain according to Porter) • Introduction to budgeting • Accounting figures • Introduction to important financial ratios (e.g. profitability, cash flow) and ratio systems (e.g. balanced scorecard, Du Pont scheme) • Benchmarking • Introduction to reporting • IT in controlling (e.g. Excel, databases)

Module 134: Basics of controlling

3 Targets
Knowledge: Students will be able to ... <ul style="list-style-type: none">• ... describe the tasks of controlling and distinguish them from management.• ... provide an overview of key aspects of planning, control, and budgeting. Skills: Students will be able to ... <ul style="list-style-type: none">• ... to apply planning and control instruments.• ... perform comparative calculations and variance analyses.• ... calculate key figures from accounting figures.• ...create basic key performance indicator systems and perform benchmarking.• ... Reports to be prepared. Competencies: Students will be able to <ul style="list-style-type: none">• ... solve simple controlling problems with IT support (e.g. Excel).
4 Teaching and learning methods
Lecture (L) with integrated exercises (E) in the form of e.g. practical exercises, exercise cases and Excel applications in the computer room. Media used: beamer, blackboard, Moodle, group work, computer lab if necessary
5 Workload and Credit Points
Total workload of 150 hours for 5 credit points (CP) Attendance time: 56 hours Self-study: 94 hours
6 Form of examination, duration and examination requirements
<ul style="list-style-type: none">• Form of examination: usually written examination (paper or electronic form; the exact form will be announced in the course). Other forms of examination (e.g. homework, presentations), which usually supplement the written examination, are possible. Preliminary examinations (e.g. working on exercises) - also in group work - are also possible. Preliminary examinations can be graded or ungraded. In the case of graded preliminary examinations, the share of the module grade may not exceed 30%.• Duration: according to § 12 ABPO• Content: about the entire teaching content of the module.• Time: during the examination period at the end of the module• Possibility to repeat: in the following semester
7 Necessary knowledge
None
8 Recommended knowledge
Internal accounting, external accounting
9 Duration, time structure and frequency of the offer
The module covers one semester with 4 SWS and is offered once per semester.

Module 134: Basics of controlling

10	Usability of the module In Bachelor's degree programs in economics as a foundation module.
11	Literature <ul style="list-style-type: none">• Bitzelmaier, Bernd: Controlling, Pearson Verlag.• Dillerup, Ralf / Stoi, Roman: Fallstudien zur Unternehmensführung, Vahlen Verlag.• Fischer, Thomas M. / Möller, Klaus / Schultze, Wolfgang: Controlling, Schäffer-Poeschel Verlag.• Graumann, Mathias: Controlling, NWB Verlag.• Prexl, Sebastian: Excel für BWLer, UTB Verlag.• Reichmann, Thomas: Controlling mit Kennzahlen, Vahlen Verlag.• Schels, Ignatz / Seidel, Uwe M.: Excel im Controlling, Carl Hanser Verlag.• Weber, Jürgen / Schäffer, Utz: Einführung in das Controlling, Schäffer-Poeschel Verlag.• Ziegenbein, Klaus: Controlling, NWB Verlag.

Module 135: Quantitative methods of logistics

1	Module name Quantitative methods of logistics
1.1	Module abbreviation 135
1.2	Type Mandatory module
1.3	Course quantitative methods of logistics, lecture and exercises
1.4	Semester 3
1.5	Person(s) responsible for the module Prof. Dr.-Ing. Rico Wojanowski
1.6	Other teachers
1.7	Degree level Bachelor
1.8	Teaching language German
2	Content <ul style="list-style-type: none">- Introduction to production theory- Basics of production management- Introduction to quantitative models and methods for solving selected problems in logistics.- Fundamentals of modeling logistic problems (LP)- Methods of solving logistics problems- Procurement logistics: selection problems and site selection- Production logistics: production program planning- Distribution logistics: transport problems

Module 135: Quantitative methods of logistics

3	<p>Targets</p> <p>After successful completion of the module, students possess knowledge, skills and competencies for model building and solving basic quantitative models of logistics.</p> <p>Knowledge: They know and name the elements of a logistics system in order to be able to describe the basic models of production theory. Students acquire knowledge of production economics as a basis for developing quantitative models of logistical problems.</p> <p>Skills: You are able to convert verbal sample problem definitions into analytical models. Redundant or non-binding constraints are identified and taken into account accordingly. Students are able to apply to these models methods for solving logistic problems (LP) of objective functions of linear optimization problems with multiple constraints. They are able to select and apply the method necessary for the problem at hand.</p> <p>Competencies: You will acquire the competence to structure the outcome of logistic problems and to formulate process-oriented reasonable management decision templates for the verbal initial problem.</p>
4	<p>Teaching and learning methods</p> <p>Lecture (L), Exercise (E) Media used: blackboard, overhead projector, beamer...</p>
5	<p>Workload and Credit Points</p> <p>64 hours of classroom study, 86 hours of self-study (preparation and follow-up, exam preparation), mainly teaching of technical competence</p>
6	<p>Form of examination, duration and examination requirements</p> <p>Examination usually in the form of a written exam (duration: 120 min) on the entire course content of the module at the end of the module.</p>
7	<p>Necessary knowledge</p> <p>Module 115 (Logistics) Module (116) Business Mathematics</p>
8	<p>Recommended knowledge</p> <p>see § 5 Abs.2 BBPO</p>

Module 135: Quantitative methods of logistics

9	<p>Duration, time structure and frequency of the offer</p> <p>Duration 1 semester in WS</p>
10	<p>Usability of the module</p> <p>Module 143 (OR Internship)</p> <p>Module 144 (Distribution and Disposal Logistics)</p> <p>Module 131 (Production and Procurement Logistics)</p>
11	<p>Literature</p> <p>In each case the latest edition</p> <ul style="list-style-type: none"> - Dyckhoff, H./ Spengler, T.: Produktionswirtschaft: Eine Einführung für Wirtschaftsingenieure, Springer, Berlin Heidelberg New York - Domschke, W.: Transport. Logistics. Oldenbourg, Munich - Domschke, W.: Locations. Logistics. Oldenbourg, Munich - Domschke, W./ Drexl, W.: Round trips and tours. Logistics. Oldenbourg, Munich - Domschke, W./ Scholl, A./ Voß, S.: Produktionsplanung. Springer Verlag, Berlin, Heidelberg, New York - Domschke, W./ Drexl, A.: Introduction to Operations Research. Springer Verlag, Berlin, Heidelberg, New York - Günther, H-O./Tempelmeier, H.: Produktion und Logistik. Springer Verlag, Berlin, Heidelberg, New York

Module 136: Business Informatics II

1	Module name Business informatics 2
1.1	Module abbreviation 136
1.2	Type Mandatory module
1.3	Course Business informatics 2
1.4	Semester 3
1.5	Person(s) responsible for the module Dr. Vieth
1.6	Other teachers NN
1.7	Degree level Bachelor
1.8	Teaching language German
2	Content <ul style="list-style-type: none"> • Process management in companies: Design and application of processes <ul style="list-style-type: none"> ○ Design and application of processes ○ Challenges and potentials • Application systems: support for business processes <ul style="list-style-type: none"> ○ Overview of different application areas ○ Basics of the use of application systems ○ Integration of application systems <ul style="list-style-type: none"> ○ Intra- and interorganizational systems ○ Enterprise resource planning systems ○ Electronic business systems ○ Computer Supported Collaborative Work ○ Business Intelligence Systems • Information security: safeguarding asset and revenue values <ul style="list-style-type: none"> ○ Risk Management ○ Causes of hazards ○ Methods and instruments of prevention ○ Methods and instruments of coping • New developments: Innovatively dealing with innovations <ul style="list-style-type: none"> ○ Challenges and potentials

Module 136: Business Informatics II

- Smart Applications
- Mobile Computing
- Industry 4.0
- Digital business models

3 Targets

Knowledge:

Building on the contents of the course "Business Information Systems 1", graduates further develop their knowledge of specific digital intra- and interorganizational application systems. They can outline tasks of process management in organizations. They get to know methods and instruments of process design, which they can present and interpret. They can outline and explain the application rules of the various methods and instruments.

Graduates will be able to name digital application systems from various value creation areas of organizations, describe their requirements for operational value creation systems and assign specific functionalities to them.

You will be able to illustrate the importance of information security and privacy to organizations, present problem statements, and reflect solution options.

With regard to digital innovations, graduates are also able to name innovative technologies and associated application areas as well as illustrate business models including the associated business plans.

Skills:

Graduates are able to analyze operational value-added processes at all levels and in all areas of a company, identify weak points, and develop measures to improve processes, primarily from the methods and toolset of digital information systems. Graduates will be able to determine the benefits of application systems holistically and compare the systems in terms of their relative advantageousness.

They are able to organize information security and data protection projects. With regard to innovative developments in the field of digitization, they are able to predict new options for organizations, develop and explain new business models including business plans.

Competencies:

Graduates are able to analyze operational value creation processes in order to identify challenges and potential and then initiate targeted change processes.

Graduates are able to analyze requirements for the digitization of value creation systems for operational problems and to develop catalogs of requirements for digital solutions, including business plans for their own business models. And they are able to implement the developed catalogs of requirements for digital solutions in development and implementation projects.

In connection with information security and data protection issues, they have a basic understanding of how to support projects in these areas in practice and how to promote the consistent application of the requirements in the organization.

Module 136: Business Informatics II

4	<p>Teaching and learning methods</p> <ul style="list-style-type: none"> • Lecture (L) (Plenum work) • Exercises (E) in the form of presentation and discussion of case study solutions (partner work, group work) • Lab practical (LP) (partner work, group work) • Self-study with the aid of a learning diary and the video material for the course Media used include beamer, case study texts, inverted classroom, exam examples, learning platforms, reading texts, blackboard, overhead projector, exercises, video recordings, lecture notes
5	<p>Workload and Credit Points</p> <p>Total workload of 150 hours for 5 credit points (CP) Attendance time: 64 hours Self-study: 86 hours</p>
6	<p>Form of examination, duration and examination requirements</p> <ul style="list-style-type: none"> • Preliminary examination in the form of a case study on the course. • Preliminary examination in the form of keeping a learning diary for the course. • Examination in the form of a written examination on the entire course content of the module at the end of the module or, as an alternative to a written examination, a comparable written performance. • Students have the opportunity to repeat the preliminary and final examinations in the following semester. • Prerequisite for the participation in the examination is the passing of the preliminary examination. • The share of the preliminary examination in the form of case study work in the module grade is a maximum of 25%, the share of the preliminary examination in the form of keeping a learning diary is a maximum of 25%. • The share of the examination performance in the form of a written examination or a comparable written performance in the module grade is at least 50%. Prerequisite for the participation in the examination is the passing of the preliminary examination.
7	<p>Necessary knowledge</p> <p>"Organization and Management" Module</p>
8	<p>Recommended knowledge</p> <p>Module "Business Informatics 1"</p> <p>Knowledge of the use and benefits of digital application systems.</p>
9	<p>Duration, time structure and frequency of the offer</p> <p>The module covers one semester with 2 SWS lecture and 2 SWS practical exercises and is offered once per semester.</p>
10	<p>Usability of the module</p> <p>[This can be left blank for now.]</p>

Module 136: Business Informatics II

11 Literature

- Abts, Dietmar / Mülder, Wilhelm: Grundkurs Wirtschaftsinformatik, Springer Vieweg Verlag; 8th ed. 2013. Bächle, Michael / Kolb, Arthur: Einführung in die Wirtschaftsinformatik, Oldenbourg Verlag; 3rd ed. 2012.
- Bea, Franz Xaver / Scheuerer, Steffen / Hesselmann, Sabine: Projektmanagement, UVK Verlagsgesellschaft; 2nd ed. 2011.
- Gadatsch, Andreas: Grundkurs Geschäftsprozessmanagement, Springer Vieweg Verlag; 7th ed. 2012. Gronau, Norbert: Enterprise Resource Planning, Oldenbourg Verlag; 3rd ed. 2014.
- Hoppe, Mark / Wollmann, Martin: Lean Production mit ^{SAP®}, Galileo PRESS; 2011. Krcmar, Helmut: Informationsmanagement, Springer-Verlag; 6th ed. 2016.
- Laudon, Kenneth C. Laudon, Jane P. / Schoder, Detlef: Wirtschaftsinformatik, Pearson Germany; 3rd ed. 2015.
- Leimeister, Jan Marco: Einführung in die Wirtschaftsinformatik, Springer-Verlag; 12th ed. 2015.
- Schelle, Heinz: Leading Projects to Success: Projektmanagement systematisch und kompakt, Deutscher Taschenbuch Verlag; 7th ed. 2014.
- Schmelzer, Herrmann / Sesselmann, Wolfgang: Geschäftsprozessmanagement in der Praxis, Carl Hanser Verlag; 8th ed. 2013.
- Seidlmeier, Heinrich: Prozessmodellierung mit ^{ARIS®}, Vieweg + Teubner Verlag; 3rd ed. 2010.
- Timinger, Holger / Seel, Christian: A Framework for Adaptive Hybrid Project Management. In: Projektmanagement aktuell, 27. jg. 4. 2016, pp. 55 - 61.

1	Module name Business English 1
1.1	Module abbreviation 141
1.2	Type Mandatory module
1.3	Course Business English 1
1.4	Semester 4 4 semesters
1.5	Person(s) responsible for the module Dr. Alessandra d'Aquino Hilt / Wenzel Stammnitz-Kim
1.6	Other teachers Wenzel Stammnitz-Kim et al.
1.7	Degree level Bachelor
1.8	Teaching language English
2	Content <ul style="list-style-type: none"> • Understanding and writing simple business texts, standard letters and emails. • Improve communication skills, related to the world of work (e.g. in conversations, phone calls, negotiations, presentations, conversation). • Understanding the main aspects of e.g. radio reports, presentations • Exercises on moderately difficult grammar topics that occur more often in the work environment <p>Word field expansion</p>
3	Targets <p>The ability to communicate in English at work, as well as to understand documents and write texts, is now considered a key qualification in the world of work.</p> <p>The aim of this module is for the participant to be able to give advice in English on simple matters within his/her own field of work. He/she will also be able to understand the meaning of letters and theoretical articles that do not arise on a daily basis and to take very precise notes in a meeting or seminar if the subject matter is familiar and predictable. This corresponds to level B1 in the area of "Profession" (Common European Framework of Reference/GER).</p>

Module 141: Business English 1

4	<p>Teaching and learning methods</p> <p>Seminar (Sem)</p> <ul style="list-style-type: none"> ▪ Lecture, instruction, teaching talk ▪ Self-study ▪ Group work ▪ Individual work <p>Media used: blackboard, beamer, textbook (e.g. from the Market Leader series), worksheets, original documents from everyday work, the business press, Business Spotlight, etc.</p>
5	<p>Workload and Credit Points</p> <p>approx. 48 - 52 hours of attendance (4 SWS), approx. 100 hours of self-study 5 CP</p>
6	<p>Form of examination, duration and examination requirements</p> <ul style="list-style-type: none"> • Preliminary examination in the form of a midterm exam (usually in the 5th or 6th session, duration: 45 min.) on the learning content of the sessions held up to that point. • Examination in the form of a final exam (at the end of the module, duration: 120 min) on the course content of the sessions held after the midterm exam. • Preliminary examination in the form of a presentation and active participation • The exam can be repeated in the following semester. • Prerequisite for the participation in the examination is the regular attendance of the seminar. • The share of the midterm exam in the module grade is 35%, the share of the presentation in the module grade is 15%, the share of the final exam (examination performance) in the module grade is 50%. • Prerequisite for the participation in the examination is the passing of the preliminary examination. • The module (examination performance and preliminary examination performance) is not graded. The separate certification of a grade outside of the transcript is possible. <p>Alternatively, an English certificate from level B1 can be recognized. The recognition of certificates is regulated in detail by the "Statutes of Darmstadt University of Applied Sciences for the Recognition of Competences in the Field of Foreign Languages Acquired Outside the University"; information on the recognition of certificates can be obtained from the Language Center.</p>
7	<p>Necessary knowledge</p> <p>None</p>
8	<p>Recommended knowledge</p> <p>For English course 1, at least 6 years of school English or general English knowledge at level B1 (CEFR) and at least sufficient technical English knowledge or English knowledge in the field of "profession" at level B1 (CEFR) are recommended.</p>

Module 141: Business English 1

<p>9</p>	<p>Duration, time structure and frequency of the offer</p> <p>every semester</p>
<p>10</p>	<p>Usability of the module</p> <p>Logistics Management (B.Sc.) Business Administration(B.Sc.)</p>
<p>11</p>	<p>Literature</p> <p>Textbook for the seminar, e.g. Market Leader Intermediate 3rd Edition</p>

Module 142: Elective module I OR Internship

1	Module name Elective Module I OR Internship
1.1	Module abbreviation 142
1.2	Type Optional module
1.3	Course Operations Research Seminar and Laboratory Practicum
1.4	Semester 4
1.5	Person(s) responsible for the module Prof. Dr. Julia Kallrath
1.6	Other teachers
1.7	Degree level Bachelor
1.8	Teaching language German
2	Content <ul style="list-style-type: none">– Operations research models for integer and mixed-integer optimization for logistics application problems.– Teaching the basics of modeling integer and mixed-integer linear optimization problems.– Conversion of verbal models from logistics applications into mathematical models of mixed-integer linear optimization; sensible use of binary and integer variables in the process.– Laboratory practical course on the solution of integer and mixed-integer optimization problems.– Introduction to the solution software: field of application, possibilities and limits– Learning the modeling language and the procedure for determining the solution (computer-based)

<p>3</p>	<p>Targets</p> <p>After successful completion of the module, students possess knowledge, skills and competences for the analysis, modeling, solution and evaluation of various practical problems of integer and mixed-integer optimization from the field of logistics.</p> <p>Knowledge: The students acquire knowledge in the field of integer and mixed integer optimization models and the appropriate solution software. They know the basic solution steps of the methods used in the solution software. Students will gain knowledge of the application steps involved in using such solution software.</p> <p>Skills: They are able to convert verbal sample problem formulations into a mathematical model. The students are able to assign the correct solution concept to the model formulation and take into account application requirements and limitations of the use of such tools. They are able to use the appropriate solution software on the described problem in the application context.</p> <p>Competencies: You will acquire the competence to solve practical logistic problems with methods of integer and mixed integer optimization and to elaborate and present meaningful decision templates for the management.</p>
<p>4</p>	<p>Teaching and learning methods</p> <p>Lecture (L), Exercise (E) Media used: blackboard, PC</p>
<p>5</p>	<p>Workload and Credit Points</p> <p>64 hours of classroom study, 86 hours of self-study (preparation and follow-up, exam preparation), mainly teaching of technical competence</p>
<p>6</p>	<p>Form of examination, duration and examination requirements</p> <p>Examination usually in the form of a written paper and a subsequent discussion.</p>
<p>7</p>	<p>Necessary knowledge</p> <p>Module 116 (Business Mathematics) Module 135 (Quantitative Methods in Logistics)</p>
<p>8</p>	<p>Recommended knowledge</p> <p>Module 133 (Logistics) see § 5 Abs.2 BBPO</p>

Module 142: Elective module I OR Internship

9	Duration, time structure and frequency of the offer Duration 1 semester, each summer semester
10	Usability of the module Logistics Management (B.Sc.)
11	Literature latest issue <ul style="list-style-type: none">• Domschke, Wolfgang et al. "Exercises and Case Studies in Operations Research" (Springer).• Kallrath, Josef "Mixed-Integer Optimization: Modeling in Practice" (Springer).• Suhl, Leena and Mellouli, Taïeb "Optimization systems: models, methods, software, applications" (Springer).

Module 143: Human Resources Management

1	Module name Human Resources Management
1.1	Module abbreviation 143
1.2	Type Mandatory module
1.3	Course Human Resources Management
1.4	Semester Semester 5
1.5	Person(s) responsible for the module Dr. Stork
1.6	Other teachers Dr. Kopsch, Dr. Nettelbeck, Dr. Vieth
1.7	Degree level Bachelor
1.8	Teaching language German
2	Content <ul style="list-style-type: none"> • Classification of human resource management in business administration, in particular the connections to strategy development, organization and management as well as to corporate culture. • Actors, goals and responsibilities in human resource management - basic approaches in human resource management and basic requirements for human resource management. • Personnel management and motivation • Human Resources Development • Human Resources Marketing • Personnel support • Personnel planning and change

Module 143: Human Resources Management

	<ul style="list-style-type: none"> • Personnel Controlling • Case studies on special and current topics in human resource management
<p>3</p>	<p>Targets</p> <p>Knowledge: Students can</p> <ul style="list-style-type: none"> • Classify human resource management as an operational function and identify the essential interrelationships in terms of strategy, organization, management and corporate culture. • Present and explain the basic requirements for personnel management • name and describe the basic approaches in human resource management • describe the core areas of personnel management (personnel management and motivation, personnel development, personnel marketing, personnel support, personnel planning and change, and personnel controlling) and present the concepts, methods, and tools commonly used in these areas <p>Skills: Students can</p> <ul style="list-style-type: none"> • Derive and conceptualize a suitable basic approach to human resources management in relation to the existing strategy and corporate culture in each case. • Select suitable specific concepts in the core task areas of personnel management (personnel management and motivation, personnel development, personnel marketing, personnel support, personnel planning and change, and personnel controlling) and present them in terms of their relationships to strategy and corporate culture • Apply methods and tools from the core task areas of personnel management (personnel management and motivation, personnel development, personnel marketing, personnel support, personnel planning and change, and personnel controlling) within the framework of sub-tasks and develop suitable approaches to solutions for them <p>Competencies: Students can</p> <ul style="list-style-type: none"> • independently select approaches to current and special tasks in human resource management, identify suitable concepts and apply the appropriate methods and tools, and design, present and defend a convincing solution (e.g. by means of a written paper or a presentation).
<p>4</p>	<p>Teaching and learning methods</p> <p>Seminar lecture (L) with lecture hall exercises (E) Media used: beamer/whiteboard presentations, lecture notes, worksheets (exercises) and electronic learning platform</p>
<p>5</p>	<p>Workload and Credit Points</p> <p>Total workload of 150 hours for 5 credit points (CP) Attendance time: 64 hours Self-study: 86 hours</p>

Module 144: Distribution and disposal logistics

6	Form of examination, duration and examination requirements <ul style="list-style-type: none">• Examination usually in the form of a written examination (also e-examination). With regard to the duration of the examination, § 12 ABPO applies.• Other forms of examination (e.g. homework, presentations), which usually complement the written examination, are possible as examination performance.• Preparatory work for examinations (e.g. laboratory experiments, processing of exercise or development tasks) - also in group work - are also possible. Preliminary examinations can be graded or ungraded. In the case of graded preliminary examinations, the share of the module grade may not exceed 30%.• The exam can be repeated in the following semester.• If preliminary examinations are required, passing the preliminary examination is a prerequisite for participation in the examination.
7	Necessary knowledge <p>None</p>
8	Recommended knowledge <p>Management and organization, controlling, marketing</p>
9	Duration, time structure and frequency of the offer <p>The module covers one semester with 4 SWS and is offered once per semester.</p>
10	Usability of the module <p>Business Administration (B.Sc.), can also be used in a similar form in other business master's programs.</p>
11	Literature <ul style="list-style-type: none">• Berthel; Becker: Personal-Management, Grundzüge für Konzeptionen betrieblicher Personalarbeit, Stuttgart• Brökermann: Human Resources Management, Schäffer-Poeschel, Stuttgart• Holtbrügge: Human Resources Management, Berlin• Rosenstiel; Regnet; Domsch: Leading Employees, Stuttgart• Scholz: Fundamentals of Personnel Management, Munich• Stock-Homburg: Personnel Management: Theories - Concepts - Instruments, Wiesbaden <p>Additional and alternative literature recommendations in the course.</p>

Module 144: Distribution and disposal logistics

1	Module name Distribution and disposal logistics
1.1	Module abbreviation 144
1.2	Type Mandatory module
1.3	Course Distribution and disposal logistics
1.4	Semester 4
1.5	Person(s) responsible for the module Prof. Dr. Johanna Bucerius
1.6	Other teachers Mrs. Ertas
1.7	Degree level Bachelor
1.8	Teaching language German
2	Content Distribution logistics: <ul style="list-style-type: none"> • Basics, tasks and goals • Optimal delivery service level • Distribution network planning • Selection and evaluation of distribution logistics strategies Disposal logistics: <ul style="list-style-type: none"> • Basics, tasks and goals • Recycling strategies and concepts • Circular economy • legal framework

Module 144: Distribution and disposal logistics

3	<p>Targets</p> <p>Students will know and understand the fundamentals of distribution and disposal logistics.</p> <p>Knowledge They are given an overview of the individual task areas and concepts of distribution logistics. In addition, students are taught the knowledge of technology, processes and costs of disposal logistics.</p> <p>Skills Students are able to place strategies and concepts of distribution and disposal logistics in the context of application problems and to work through them in a structured manner, taking into account legal framework conditions. They can determine and apply important key figures.</p> <p>Competencies Students acquire the competence to analyze and evaluate practical solution approaches within the framework of case studies and can compare them with each other. They develop decision-making templates for management to select suitable solution proposals.</p>
4	<p>Teaching and learning methods</p> <p>Lecture (L), Exercise (E) Media used: blackboard, overhead projector, beamer...</p>
5	<p>Workload and Credit Points</p> <p>64 hours of classroom study, 86 hours of self-study (preparation and follow-up, exam preparation), mainly teaching of technical competence</p>
6	<p>Form of examination, duration and examination requirements</p> <p>Examination usually in the form of a written exam</p>
7	<p>Necessary knowledge</p> <p>--Basics of logistics</p>
8	<p>Recommended knowledge</p> <p>see § 5 Abs.2 BBPO</p>
9	<p>Duration, time structure and frequency of the offer</p> <p>Duration 1 semester, every semester</p>

Module 144: Distribution and disposal logistics

10	Usability of the module Logistics Management (B.Sc.) Business Administration (B.Sc.) is also used in the same or similar form in the IBWL- Bachelor, EWI-Bachelor, WIng-Bachelor, WIng-Master (bridge course), BWL-Master (bridge course)
11	Literature latest issue <ul style="list-style-type: none">• Schulte: Logistics - ways to optimize the supply chain• Thonemann: Operations Management. Pearson• Literature on waste disposal logistics• Legal texts: Waste disposal law further literature references will be given in the course

Module 145: Production and procurement logistics

1	Module name Production and procurement logistics
1.1	Module abbreviation 145
1.2	Type Mandatory module
1.3	Course Lecture and exercise
1.4	Semester 3
1.5	Person(s) responsible for the module Prod. Dr. Johanna Bucerius
1.6	Other teachers
1.7	Degree level Bachelor
1.8	Teaching language German
2	<p>Content</p> <p>Procurement Logistics:</p> <ul style="list-style-type: none"> • Basics, tasks and goals • Procurement strategies and concepts • Needs assessment procedure • Optimal order quantity • Supplier Management • E-procurement <p>production logistics:</p> <ul style="list-style-type: none"> • Basics, tasks and goals • Tactical production management • Operational production management • Control concepts

Module 145: Production and procurement logistics

3	<p>Targets</p> <p>After successful completion of the module, students will have basic knowledge, skills and competencies in the field of procurement and production logistics.</p> <p>Knowledge: They are familiar with production and procurement logistics as the main phases of logistics and are able to identify and differentiate between them. The students are methodically able to think process-oriented and to classify suitable procedures and instruments.</p> <p>Skills: Students have the skills to understand methods, procedures and instruments of procurement and production logistics and to apply them in the right context.</p> <p>Competencies: They possess the competence to structure function-oriented corporate systems and to propose process-oriented sensible approaches to solutions.</p>
4	<p>Teaching and learning methods</p> <p>Lecture (L), Exercise (E) Media used: blackboard, overhead projector, beamer...</p>
5	<p>Workload and Credit Points</p> <p>64 hours of classroom study, 86 hours of self-study (preparation and follow-up, exam preparation), mainly teaching of technical competence</p>
6	<p>Form of examination, duration and examination requirements</p> <p>Examination usually in the form of a written exam</p>
7	<p>Necessary knowledge</p> <p>--Basics of logistics</p>
8	<p>Recommended knowledge</p> <p>see § 5 Abs.2 BBPO</p>
9	<p>Duration, time structure and frequency of the offer</p> <p>Duration 1 semester, every semester</p>

Module 145: Production and procurement logistics

10	Usability of the module Logistics Management (B.Sc.) Business Administration (B.Sc.) is also used in the same or similar form in the IBWL- Bachelor, EWI-Bachelor, WIng-Bachelor, WIng-Master (bridge course), BWL-Master (bridge course)
11	Literature in each case the latest edition <ul style="list-style-type: none">• Thonemann: Operations Management• Kummer/Grün/Jammerneegg: Fundamentals of Procurement, Production, Logistics• Ehrmann: Logistics• Schulte: Logistics - Ways to optimize the supply chain Further literature references will be provided in the course.

1	Module name Business game seminar
1.1	Module abbreviation 146
1.2	Type Mandatory module
1.3	Course Business game seminar Almut
1.4	Semester 4
1.5	Person(s) responsible for the module Prof. Dr.-Ing. Rico Wojanowski
1.6	Other teachers
1.7	Degree level Bachelor
1.8	Teaching language German
2	Content <ul style="list-style-type: none"> - haptic business game for process optimization - Phases of process optimization, business reengineering - Lean Management Methodology Toolbox - Meaning of the order decoupling point
3	Targets <p>After successful completion of the module, students possess knowledge, skills and competencies for the transformation of a classically function-oriented company into a process-oriented value chain.</p> <p>Knowledge: The students acquire knowledge of the application possibilities and potentials of logistics methods from the derivation of the tangible problems and challenges of a haptic business game environment. They know the importance of logistics key figures for the analysis of a logistics system and can determine them. Impulse lectures serve for the problem-oriented deepening of the tools of the method construction kit.</p>

Module 146: Project Module Business Game

	<p>Skills:</p> <p>They develop phases of process optimization and practice the use of the logistics methods previously taught in theory. The students develop improvement potentials from the analysis of the determined logistics key figures and can transfer these solution-oriented and improvement measures.</p> <p>Competencies:</p> <p>You will acquire the competence to analyze logistics systems holistically and to transfer them from a function-oriented to a process-oriented way of working. You will question the purpose and goal of corporate strategies and be able to support them by selecting and introducing suitable logistics concepts.</p>
<p>4</p>	<p>Teaching and learning methods</p> <p>Lab practical (LP) and seminar (S)</p> <p>Media used: Business game</p>
<p>5</p>	<p>Workload and Credit Points</p> <p>64 hours of classroom study, 86 hours of self-study (preparation and follow-up, exam preparation), mainly teaching of technical competence</p> <p>5 CP</p>
<p>6</p>	<p>Form of examination, duration and examination requirements</p> <p>Examination in the form of a project presentation at the end of the module.</p>
<p>7</p>	<p>Necessary knowledge</p> <p>Module 145: Production and Procurement Logistics</p> <p>Module 121 Management of Logistics Projects</p>
<p>8</p>	<p>Recommended knowledge</p> <p>see § 5 Abs.2 BBPO</p>
<p>9</p>	<p>Duration, time structure and frequency of the offer</p> <p>Duration 1 semester each SS</p>
<p>10</p>	<p>Usability of the module</p> <p>Module 153 (Logistics Lab)</p>

Module 146: Project Module Business Game

11 Literature

In each case the latest edition

- Lasch, R. ; Schulte, G.: Quantitative logistics case studies. Gabler
- Ellet, W.: The Harvard Business School Press Case Study Handbook. Main
- Thonemann, U.: Operations Management. Pearson

Module 151: Business English 2

1	Module name Business English 2
1.1	Module abbreviation 151
1.2	Type Mandatory module
1.3	Course Business English 2
1.4	Semester 5
1.5	Person(s) responsible for the module Dr. Alessandra d'Aquino Hilt / Wenzel Stammnitz-Kim
1.6	Other teachers Wenzel Stammnitz-Kim et al.
1.7	Degree level Bachelor
1.8	Teaching language English
2	Content <ul style="list-style-type: none"> • Understanding and writing business texts, standard letters and emails. • Development of communication skills, related to the world of work (e.g. in conversations, telephone calls, negotiations, presentations, conversation) • Understand all important aspects of e.g. radio reports, presentations. • Exercises on more difficult grammar topics that occur more often in the work environment • Word field extension
3	Targets <p>The ability to communicate in English at work, as well as to understand documents and write texts, is now considered a key qualification in the world of work.</p> <p>The goal of this module is to provide participants with college-specific language skills and enable them to accept and relay most English communications that occur during a normal workday. They should also be able to understand most correspondence, reports, and product descriptions and handle any routine inquiries regarding goods or services.</p> <p>This corresponds to level B2 in the area of "occupation" (Common European Framework of Reference/GER).</p>

Module 151: Business English 2

4	<p>Teaching and learning methods</p> <p>Seminar (Sem)</p> <ul style="list-style-type: none"> ▪ Lecture, instruction, teaching talk ▪ Self-study ▪ Group work ▪ Individual work <p>Media used: blackboard, beamer, textbook (e.g. from the Market Leader series), worksheets, original documents from everyday work, the business press, Business Spotlight, etc.</p>
5	<p>Workload and Credit Points</p> <p>approx. 48 - 52 hours of attendance (4 SWS), approx. 100 hours of self-study 5 CP</p>
6	<p>Form of examination, duration and examination requirements</p> <ul style="list-style-type: none"> • Preliminary examination in the form of a midterm exam (usually in the 5th or 6th session, duration: 45 min.) on the learning content of the sessions held up to that point. • Examination in the form of a final exam (at the end of the module, duration: 120 min) on the course content of the sessions held after the midterm exam. • Preliminary examination in the form of a presentation • The exam can be repeated in the following semester. • Prerequisite for the participation in the examination is the regular attendance of the seminar. • The share of the midterm exam in the module grade is 35%, the share of the presentation in the module grade is 15%, the share of the final exam (examination performance) in the module grade is 50%. • The module (examination performance and preliminary examination performance) is not graded. The separate certificate of a grade outside the certificate is possible. <p>Alternatively, an English certificate from level B2 can be recognized. The recognition of certificates is regulated in detail by the "Statutes of Darmstadt University of Applied Sciences for the Recognition of Competences in the Field of Foreign Languages Acquired Outside the University"; information on the recognition of certificates can be obtained from the Language Center.</p>
7	<p>Necessary knowledge</p> <p>None</p>
8	<p>Recommended knowledge</p> <p>Business English 1</p>

Module 151: Business English 2

<p>9</p>	<p>Duration, time structure and frequency of the offer</p> <p>every semester</p>
<p>10</p>	<p>Usability of the module</p> <p>Logistics_ Management (B.Sc.)</p> <p>Business Administration(B.Sc.)</p>
<p>11</p>	<p>Literature</p> <p>Textbook for the seminar, e.g. Market Leader Intermediate 3rd Edition</p>

Module 152: Material flow technology and planning

1	Module name Optional module II (material flow technology and planning)
1.1	Module abbreviation 152
1.2	Type Optional module
1.3	Course Optional module II
1.4	Semester 4
1.5	Person(s) responsible for the module Prof. Dr. Johanna Bucerius
1.6	Other teachers
1.7	Degree level Bachelor
1.8	Teaching language German
2	Content <ul style="list-style-type: none"> • Material flow elements • Introduction to MF models with graphs, matrices etc. • Queuing theory (waiting times, utilization rates, etc.) • Storage and picking • Internal transport • Sorter • Availability calculation
3	Targets Upon successful completion of the module, students will have the knowledge, skills and competencies to model, analyze and evaluate a material flow system. Knowledge: After completing the module, students will be able to name, describe and correctly classify basic elements of a material flow system. They know basic material flow techniques of storage, picking, sorting and internal transport.

Module 152: Material flow technology and planning

	<p>Skills:</p> <p>Students acquire the skill to describe model descriptions of a material flow quantitatively and qualitatively. This includes the planning of material flow systems, their mapping and performance analysis and evaluation.</p> <p>Competencies:</p> <p>The students are able to model simple material flow systems independently, to select and apply suitable analysis tools and to transfer the derived findings back to the application.</p>
4	<p>Teaching and learning methods</p> <p>Lecture (L), Exercise (E) Media used: blackboard, overhead projector, beamer...</p>
5	<p>Workload and Credit Points</p> <p>64 hours of classroom study, 86 hours of self-study (preparation and follow-up, exam preparation), mainly teaching of technical competence</p>
6	<p>Form of examination, duration and examination requirements</p> <p>Examination usually in the form of a written exam</p>
7	<p>Necessary knowledge</p> <p>--Basics of logistics</p>
8	<p>Recommended knowledge</p> <p>see § 5 Abs.2 BBPO</p>
9	<p>Duration, time structure and frequency of the offer</p> <p>Duration 1 semester, each winter semester</p>
10	<p>Usability of the module</p> <p>Logistics Management (B.Sc.)</p>
11	<p>Literature</p> <p>latest issue</p> <ul style="list-style-type: none"> Arnold/Furmans: Material Flow in Logistics Systems <p>further literature references will be given in the course</p>

Module 153: Logistics Lab

1	Module name Logistics Lab
1.1	Module abbreviation 153
1.2	Type Mandatory module
1.3	Course Logistics Lab
1.4	Semester 5
1.5	Person(s) responsible for the module Prof. Dr. Armin Bohnhoff
1.6	Other teachers
1.7	Degree level Bachelor
1.8	Teaching language German
2	Content <ul style="list-style-type: none">- Case study analysis and processing in the logistics laboratory using real logistics tools such as<ul style="list-style-type: none">- Barcode scanner, RFID- didactic small parts warehouse- Pick systems- Material flow technology- Telematics systems- Electromobility- Preparation and processing of subprojects for research support

Module 153: Logistics Lab

3	<p>Targets</p> <p>Upon successful completion of the module, students will possess knowledge, skills, and competencies from the practical experience of implementing real-world logistics projects in the learning environment of a logistics laboratory.</p> <p>Knowledge: Students practice and understand logistics concepts in the application environment of the logistics lab. They train the implementation of logistics projects in a quasi-real learning environment.</p> <p>Skills: Students are able to apply methods and tools to start, plan, coordinate, control and lead logistics projects related to the subject area to a positive conclusion in a team. In doing so, they are able to formulate and model the task from a real application environment and transfer it into a logistics project. They can adapt and track the project plan created for this purpose during the course of the project. You will be able to communicate project results to target groups and develop and, if necessary, implement project marketing measures.</p> <p>Competencies: Students can independently manage small to medium-complex logistics projects and present and argue their results.</p>
4	<p>Teaching and learning methods</p> <p>Laboratory practical (LP) and seminar(S) Media used: Logistics laboratory</p>
5	<p>Workload and Credit Points</p> <p>64 hours of classroom study, 86 hours of self-study (preparation and follow-up, exam preparation), mainly teaching of technical competence</p> <p>5 CP</p>
6	<p>Form of examination, duration and examination requirements</p> <p>Examination in the form of a project presentation at the end of the module.</p>
7	<p>Necessary knowledge</p> <p>Module 133 (Logistics)</p>

Module 153: Logistics Lab

8	Recommended knowledge see § 5 Abs.2 BBPO
9	Duration, time structure and frequency of the offer Duration 1 semester in WS
10	Usability of the module Logistics Management (B.Sc.)
11	Literature In each case the latest edition <ul style="list-style-type: none">- Thonemann, U.: Operations Management: Concepts, Methods and Applications. Pearson- Hopp, W./Spearman, M.: Factory Physics.- Kummer, S. (Ed.): Fundamentals of procurement, production and logistics. Pearson

Module 154: QM & Lean Management

1	Module name QM & Lean Management
1.1	Module abbreviation 154
1.2	Type Mandatory module
1.3	Course Lecture and exercise
1.4	Semester 5
1.5	Person(s) responsible for the module Prof. Dr. Bucerius
1.6	Other teachers
1.7	Degree level Bachelor
1.8	Teaching language German
2	Content <ul style="list-style-type: none"> – Basics of process management – Methods for the documentation of processes – Process analysis and process design – Quality management basics – Total Quality Management and process-oriented quality management – Standards in QM, auditing and certification – IT support in QM – Special approaches in QM: Quality Function Deployment, Rapid Quality Deployment, Six Sigma, Continuous Improvement Process – Basics Just-in-Time Production Systems – Instruments of lean management (5S, Kaizen, standardization, SMED, value stream mapping) Production control according to lean management

Module 154: QM & Lean Management

<p>3</p>	<p>Targets</p> <p>After successful completion of the module, students have knowledge, skills and competencies for structuring, implementing and evaluating concepts of quality management and lean management.</p> <p>Knowledge The students know the goals and tasks of process management. They know the basic terms and concepts of quality management (QM) and lean management. The students know which standards must be taken into account when introducing and operating a QM system and can apply these standards. They know methods and tools of QM and Lean Management as well as their strengths and weaknesses.</p> <p>Skills The students can apply the methods and tools independently and/or in groups in a targeted manner to simple tasks. They can independently apply methods of process documentation to simple, practice-oriented issues. They are furthermore able to analyze documented processes as well as to develop and justify recommendations for action for process improvements.</p> <p>Competencies Students are able to apply the concepts of quality management and lean management to simple use cases and analyze them in a solution-oriented manner.</p>
<p>4</p>	<p>Teaching and learning methods</p> <p>Lecture (L), Exercise (E) Media used: blackboard, overhead projector, beamer...</p>
<p>5</p>	<p>Workload and Credit Points</p> <p>64 hours of classroom study, 86 hours of self-study (preparation and follow-up, exam preparation), mainly teaching of technical competence</p>
<p>6</p>	<p>Form of examination, duration and examination requirements</p> <p>Examination usually in the form of a written exam</p>
<p>7</p>	<p>Necessary knowledge</p> <p>--Basics of logistics</p>
<p>8</p>	<p>Recommended knowledge</p> <p>see § 5 Abs.2 BBPO</p>

Module 154: QM & Lean Management

9	<p>Duration, time structure and frequency of the offer</p> <p>Duration 1 semester, each winter semester</p>
10	<p>Usability of the module</p> <p>Logistics Management (B.Sc.)</p>
11	<p>Literature</p> <p>In each case the latest edition</p> <ul style="list-style-type: none"> – Goetsch, D. L./Davis, S.: Quality Management for Organizational Excellence: Introduction to Total Quality, Prentice Hall; – Thonemann: Operations Management – Erlach: Value Stream Design <p>further literature references will be given in the course</p>

Module 155: Transport Law

1	Module name Transport Law
1.1	Module abbreviation 155
1.2	Type Mandatory module
1.3	Course Transport law
1.4	Semester 5
1.5	Responsible for the module Prof. Dr. Klaus Peter Schulz
1.6	Other teachers
1.7	Degree level Bachelor
1.8	Teaching language German
2	<p>Content</p> <p>Introduction to national, EU and international legal sources</p> <ul style="list-style-type: none"> • of road transport, • of rail and air transport, • of inland and sea transport, • of multimodal transport and the • of the forwarding services. <p>In-depth presentation</p> <ul style="list-style-type: none"> • the rights and obligations of shippers, carriers, forwarders and consignees, • the liability regulations for loss, damage and delay, and • the drafting of contracts (General Terms and Conditions, ADSp, Incoterms). <p>Overview of</p> <ul style="list-style-type: none"> • the insurance law of transport liability, • the legal basis, tasks and organization of the customs administration and the • Legal issues of transport law in the broader sense, including manufacturing and storage processes.

<p>3</p>	<p>Targets</p> <p>Knowledge: Students will be able to name, describe, and relate the various sources of law to one another</p> <p>Skills: They are able to methodically process given facts and problems after case exercises and solve them on the basis of legal sources and with reference to case law.</p> <p>Competencies: Students will be able to make operational decisions in the area of national and cross-border transport in a way that complies with standards, thereby avoiding unnecessary liability risks and providing insurance coverage for unavoidable liability risks.</p>
<p>4</p>	<p>Teaching and learning methods</p> <p>Seminar-like lecture (L) supported by electronic "slides", if necessary with accompanying short student presentations as well as use of an electronic learning platform ("Moodle") Media used: visualizer, beamer.</p>
<p>5</p>	<p>Workload and Credit Points</p> <p>64 hours of classroom study, 86 hours of self-study (preparation and follow-up, exam preparation) 5 credits</p>
<p>6</p>	<p>Form of examination, duration and examination requirements</p> <p>Examination usually in the form of a written exam (duration: 90 - 180 minutes) on the entire course content of the module at the end of the module.</p>
<p>7</p>	<p>Necessary knowledge</p> <p>None</p>
<p>8</p>	<p>Recommended knowledge</p> <p>Module 114 (Introduction to Law)</p>
<p>9</p>	<p>Duration, time structure and frequency of the offer</p> <p>In each semester</p>

Module 155: Transport Law

10	Usability of the module Logistics Management (B.Sc.) Business Administration (B.Sc.)
11	Literature in each case the latest edition Collection of texts on transport law Hofmann, Albrecht/Reschel-Reithmeier, Bettina: Spedition und Logistik, Vol. 3, 4th ed., Europe 2016 Lommatzsch, Jutta: Transportrecht, Kohlhammer, 2012 Wieske, Thomas: Logistics Law, Springer, 2016 Wieske, Thomas: Transportrecht - Schnell erfasst, Springer 2012.

Module 156: Project Module 2

1	Module name Project Module 2 (SAP Seminar)
1.1	Module abbreviation 156
1.2	Type Mandatory module
1.3	Course Seminar with case studies and internship
1.4	Semester 5
1.5	Person(s) responsible for the module Prof. Dr. Rebstock
1.6	Other teachers Prof. Dr. Engelstätter, Prof. Dr. Knoll, Prof. Dr. Tafreschi
1.7	Degree level Bachelor
1.8	Teaching language German
2	Content The module focuses on the support of operational logistics processes by ERP systems in operational practice. Individual logistical sub-processes are dealt with from a business management and application-oriented perspective. The structure and use of ERP systems for the control and handling of operational logistics processes across the entire operational value chain are explained using the example of SAP applications and demonstrated on the system.
3	Targets Knowledge: <ul style="list-style-type: none"> • The students know the characteristics and elements of ERP applications in general and on the concrete example of SAP software. • Students will be able to describe and explain the business significance of ERP systems. Skills: <ul style="list-style-type: none"> • Students are able to review and select the application areas and characteristics of ERP software. They are able to evaluate and decide on alternatives for the design and application of these systems in operational situations.

Module 156: Project Module 2

	<p>Competencies:</p> <ul style="list-style-type: none"> • Students will be able to evaluate and assess the possible applications of ERP systems in operational logistics and supply chain management processes. • Based on the application experience you have gained in the case studies, you will be able to participate in the improvement of operational processes or drive them forward independently.
4	<p>Teaching and learning methods</p> <p>Seminar (Sem) with lab practical (LP); self-study, inverted classroom concept.</p> <p>Media used: Moodle learning platform, electronic script, online discussion forums, web links, web video, online assignments, e-books, PC, beamer, blackboard</p>
5	<p>Workload and Credit Points</p> <p>64 hours of present study, 86 hours of self-study (preparation and wrap-up including case studies) 5 CP</p>
6	<p>Form of examination, duration and examination requirements</p> <p>Case studies, term papers with presentation</p>
7	<p>Necessary knowledge</p> <p>none</p>
8	<p>Recommended knowledge</p> <ul style="list-style-type: none"> • Module 126 (Business Informatics 1) • Module 136 (Business Informatics 2)
9	<p>Duration, time structure and frequency of the offer</p> <p>1 semester, summer and winter semester 4</p> <p>SWS</p>
10	<p>Usability of the module</p> <ul style="list-style-type: none"> • Logistics Management (B.Sc.) • Business Administration (B.Sc.)

Module 156: Project Module 2

11 Literature

- Frick, Detlev / Gadatsch, Andreas / Schäffer-Külz, Ute G. (2008): Basic course SAP ERP. Business process oriented introduction with case study throughout. Wiesbaden 2008.
- Gronau, Norbert (2010): Enterprise Resource Planning. Architecture, functions and management of ERP systems. 2nd ed. Munich 2010.
- Corsten, Daniel / Gabriel, Christoph: Supply Chain Management erfolgreich umsetzen. 2nd ed., Berlin / Heidelberg, 2004.
- Hoppe, Marc / Wollmann, Martin: Lean Production mit SAP®. 2nd ed., Bonn 2009.
- Kappauf, Jens / Koch, Matthias / Lauterbach, Bernd: Logistik mit SAP®. 3rd ed., Bonn 2015.
- Bauer, Jürgen (2014): Production logistics/production control compact. Fast introduction to production logistics with SAP-ERP. Wiesbaden: Springer Vieweg.
- Körsgen, Frank (2015): SAP® ERP Workbook. Basic course SAP® ERP ECC 6.0 with case studies. 4th ed. Berlin: Erich Schmidt Verlag.
- Witt, Andreas (2014): Basic course SAP APO. An introduction with case studies throughout. Wiesbaden: Springer Vieweg.

Module 161: Practice module in logistics

1	Module name Practice module
1.1	Module abbreviation 161
1.2	Type Mandatory module
1.3	Course Practice project
1.4	Semester 6
1.5	Person(s) responsible for the module Practice Module Supervisor
1.6	Other teachers All teachers at the department of economics
1.7	Degree level Bachelor
1.8	Teaching language German
2	Content The practical module is to be completed within the framework of a compulsory internship, preferably in departments of companies and institutions within a defined project framework, and addresses issues with concrete and current practical relevance, the solution of which requires subject-related in-depth knowledge from the field of logistics and interdisciplinary knowledge and skills.
3	Targets Knowledge: Students will be able to describe the service production and utilization process of the organization in which the practical activity was performed, categorize the department or organizational unit in which the practical activity was performed, and describe the mission of the department or organizational unit in which the practical activity was performed. Skills: Students are able to apply the relevant knowledge, skills and competencies acquired during their studies to practical issues. They are able to classify the processes found in practice in the corresponding, current state of science.

	<p>Competencies:</p> <p>Students will be able to critically examine and evaluate the processes found in practice based on the relevant, current state of science.</p> <p>The learning objectives outlined above are supplemented or concretized by individual learning objectives that the university supervisor determines with the involvement of the student or the student at the beginning of the practical phase (§ 10 Para. 3 BBPO).</p>
<p>4</p>	<p>Teaching and learning methods</p> <p>Professional practical activities in departments of companies and institutions. Media used: Communication media (including email), presentation media for the presentation of the activities carried out (including beamer, whiteboard, flipchart, smartboard, metaplan).</p>
<p>5</p>	<p>Workload and Credit Points</p> <p>Total workload of 300 hours for 10 credit points (CP). Practical phase: at least eight weeks in a scope of at least 280 hours up to a maximum of 24 weeks (as far as required by the operational circumstances) Self-study: 20 hours</p>
<p>6</p>	<p>Form of examination, duration and examination requirements</p> <ul style="list-style-type: none"> • Examination performance in the form of a practical report as the basis for assessing whether the learning objectives have been achieved. • Preliminary examination in the form of the practical phase; to prove whether the student has fulfilled his or her obligations under the training contract (§ 1 Para. 4 of Appendix 4 to the BBPO) at the practical training center, the student submits a suitable work certificate to the university supervisor. <p>The practical module (examination and preliminary examination) is not graded.</p>
<p>7</p>	<p>Necessary knowledge</p> <p>Admission to the internship module is granted by the internship officer of the study program. The practical module can be started when at least 30 CP from the specialization studies have been completed.</p>
<p>8</p>	<p>Recommended knowledge</p> <p>None</p>

Module 161: Practice module in logistics

9	Duration, time structure and frequency of the offer Practical phase: at least eight weeks in a scope of at least 300 hours up to a maximum of 24 weeks (as far as required by the operational circumstances) The practicum module may be taken in any semester.
10	Usability of the module Public Management (B.Sc.) Business Administration (B.Sc.)
11	Literature Topic related literature and research

1	Module name Business management seminar
1.1	Module abbreviation 162
1.2	Type Mandatory module
1.3	Course Business management seminar
1.4	Semester 6
1.5	Person(s) responsible for the module Prof. Dr. Benjamin Engelstätter
1.6	Other teachers Prof. Dr. Hendrik Grävenstein
1.7	Degree level Bachelor
1.8	Teaching language German
2	Content <p>The seminar accompanying the project consists of two parts and serves to prepare students for the practical project as well as to reflect on the findings and experiences in the practical project from a professional and social science perspective. In the introductory seminar, students are familiarized with scientific work. In the second part, the evaluation seminar, they then present their findings and experiences from the practical project to their fellow students and exchange ideas with them.</p>
3	Targets <ul style="list-style-type: none"> • <u>Knowledge</u>: Students will become familiar with the principles of scientific work, which they will use for both their practice report and their bachelor's thesis. • <u>Skills</u>: Based on this knowledge, students can present the experiences from their practical project to their fellow students in a professional and media-competent manner. The focus is also on the exchange and discussion with fellow students about the experiences in practice. In this way, students learn to recognize complex and interdisciplinary problems and to analyze them in joint discussion.

Module 162: Business Seminar

	<ul style="list-style-type: none"> • <u>Competencies:</u> Students will be able to reflect on the content of their studies based on the experience gained in the internship. They are also able to analyze and evaluate their decision to study business administration against the background of the company experience.
4	<p>Teaching and learning methods</p> <p>Introductory seminar: Lecture with Powerpoint - support on the beamer, each provided as a file, use of the visualizer if required.</p> <p>Evaluation seminar: Depending on the topics in the practical phase.</p>
5	<p>Workload and Credit Points</p> <p>5 CP, 150 time hours</p>
6	<p>Form of examination, duration and examination requirements</p> <ul style="list-style-type: none"> • Presentations on the contents and experiences of the practical project • The exam can be repeated in the following semester.
7	<p>Necessary knowledge</p> <p>None.</p>
8	<p>Recommended knowledge</p> <p>Completed basic studies and completed business electives</p>
9	<p>Duration, time structure and frequency of the offer</p> <p>Every semester, 4 SWS.</p>
10	<p>Usability of the module</p> <p>The module is used in the same or similar form in the bachelor's degree programs: Logistics_ Management B.Sc.)</p> <p>Business Administration (B.Sc.) Energy Management (B.Sc.)</p> <p>Energy Management (B.Sc.)</p>
11	<p>Literature</p> <p>Depending on the topics in the practical phase</p>

1	Module name Bachelor module
1.1	Module abbreviation 163
1.2	Type Mandatory module
1.3	Course Bachelor module
1.4	Semester Semester 6
1.5	Person(s) responsible for the module Almeling
1.6	Other teachers All teachers at the department of economics
1.7	Degree level Bachelor
1.8	Teaching language German or English
2	Content The bachelor thesis module consists of a bachelor thesis (Bachelor-Thesis) and a Colloquium. It includes the independent preparation of a paper on a defined topic according to scientific methods and its presentation.
3	Targets Knowledge: Students are able to explain the requirements of scientific work and to describe challenges (e.g. literature research and source management, compliance with formal requirements, structuring of topics, comprehensible, balanced and error-free formulation) as well as efficient possible solutions in this regard. Skills: The students are able to work on a problem from the field of public management independently and practice-oriented according to scientific methods by linking, deepening and presenting specific areas of knowledge within the framework of the topic. Furthermore, the students are able to present the knowledge gained from the preparation of the bachelor thesis in a comprehensible and target group-oriented manner. For this purpose, they are able to define an objective of the thesis on the basis of a problem.

Module 163: Bachelor thesis

	<p>develop and, through the application of scientific methods, produce a comprehensible, balanced and error-free result that leads to a gain in knowledge.</p> <p>Competencies: The students are able to evaluate the knowledge gained during the preparation of the bachelor thesis and to draw conclusions from it.</p>
4	<p>Teaching and learning methods</p> <p>Thesis</p> <p>Media used: communication media (e.g. email), presentation media for the presentation of the activities carried out (e.g. beamer, whiteboard, flipchart, smartboard, metaplan)</p>
5	<p>Workload and Credit Points</p> <p>Total workload of 450 hours for 15 credit points (CP) for the preparation of the bachelor thesis and for the processing, presentation and presentation of the results.</p>
6	<p>Form of examination, duration and examination requirements</p> <p>Examination in the form of the Bachelor thesis and the colloquium. The examination can be repeated in the following semester.</p> <p>Prerequisite for the participation in the module and the examination result from § 12 Abs. 4 BBPO.</p>
7	<p>Necessary knowledge</p> <p>Prerequisite for the participation in the module and the examination result from § 12 Abs. 4 BBPO.</p>
8	<p>Recommended knowledge</p> <p>Depending on the objective of the bachelor thesis</p>
9	<p>Duration, time structure and frequency of the offer</p> <p>The module covers a period of 12 weeks and is offered once per semester.</p>
10	<p>Usability of the module</p> <p>Public Management B.Sc.</p> <p>Logistics Management B.Sc.</p>
11	<p>Literature</p> <p>Depending on the objective of the bachelor thesis</p>