



MODULE MANUAL SPO2024

COURSE OF STUDY FOCUS

**BBA/
DIGITAL BUSINESS
MANAGEMENT
B.SC.**

Status: May 2024

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List of abbreviations

CR	Credits according to the ECTS system
PLH	Examination based on term paper
PLK	Examination based on written exam
PLL	Examination based on laboratory work
PLM	Examination based on oral exam
PLP	Examination based on project work
PLR	Examination based on presentation
PLS	Examination based on research project
PLT	Examination based on written thesis
PVL	Prerequisite examination
PVL-BVP	Prerequisite examination for bachelor interim overall exam
PVL-BP	Prerequisite examination for final bachelor graduation
PVL-MP	Prerequisite examination for final master graduation
PVL-PLT	Prerequisite examination for registration for bachelor thesis
SWS	Contact hours per week
UPL	Non-graded examination (pass/fail only)

Alignment matrix for teaching the competence goals according to KMK – “Digital Business Management“

Module	Knowledge and Understanding			Knowledge Application and Generation Skills		Communication and Collaboration Skills	Academic Integrity and Professionalism
	Knowledge Broadening	Knowledge Deepening	Knowledge Comprehension	Application and Transfer	Scientific Innovation		
First study section							
Common core modules							
AQM1050	X	X	X			X	
AQM1150	X	X	X	X		X	
BIS1060	X	X	X			X	X
ECO1050	X	X		X			X
ECO1150	X	X	X	X			X
GMT1300	X	X	X	X			X
GMT1310	X	X	X	X			X
GMT2250	X	X	X	X			X
LAW1050	X	X	X	X		X	
LAW1400	X	X	X	X		X	
SIC1070						X	X
Program specific module							
DBM1150	X	X	X				X
Second study section							
Common core modules							
AQM2060		X	X	X		X	
ECO2100	X	X	X	X			X
ECO2110	X	X	X	X	X	X	
ESR3100	X	X	X	X		X	X
GMT2300	X	X	X	X			X
GMT2350	X	X	X	X			X
GMT3100	X	X	X	X			X
GMT3400	X	X	X	X		X	X
GMT4100	X	X	X	X	X	X	X
INS3020				X		X	X
SIC1070				X		X	X
EXA4999			X	X		X	X
THE4999			X		X	X	X
Program specific modules							
DBM2100	X	X	X	X		X	X
DBM2150	X	X		X			X
DBM2300		X	X	X	X		X
DBM2500		X	X	X		X	X
DBM3100	X	X	X	X	X		X
DBM3300	X		X	X		X	X
DBM4100		X	X	X	X		X

First study section – Common core modules

SIC1070: GENERAL SKILLS AND COMPETENCIES

General Skills and Competencies	
Module ID	SIC1070
Credits	4
SWS	3
Semester	1 + 3
Frequency	Every semester
Associated Courses	<ul style="list-style-type: none"> • SIC1071 Social and Methodological Skills (1st semester, 2 credits). • SIC1502 German B1 according to university test • SIC1104 Cross-Cultural Competencies (3rd semester, 2 credits).
Prerequisites	None
Assessment Methods and duration	Social and Methodological Skills: UPL Cross-Cultural Competencies: PLH/PLR
Requirements for granting of credits	<p>Social and Methodological Skills: Successful participation in all courses (compulsory attendance)</p> <p>Cross-Cultural Competencies: Successful completion of the exam (graded).</p>
Significance for the Final Grade	<p>Social and Methodological Skills: Not applicable, since the examination is ungraded.</p> <p>Cross-Cultural Competencies: The sub-module counts towards the 2nd study section and is included in the final Bachelor grade with a weight of 2 credits.</p>
Planned group size	Social and Methodological Skills: 14-18 Cross-Cultural Competencies: 25
Language	Social and Methodological Skills: English Cross-Cultural Competencies: English
Module Duration	3 semesters
Module Coordinator	Foschiani, Stefan; Burkart, Brigitte; Bacher, Urban;
Lecturer(s)	Social and Methodological Skills: student tutors

	Cross-Cultural Competencies: Dina von Garlen; Susanne Glas
Subject area / course of study	Overlapping specialties
Applicability in other programs	SIC1071 in all degree programs.
Pedagogical Approach	Seminar teaching
Objectives	<p>Social and Methodological Skills</p> <p>1. training communication and teamwork: Students will be able to...</p> <ul style="list-style-type: none"> • Conduct factual conversations effectively, • can effectively conduct conflict talks, • recognize destructive, ingrained communication patterns and know successful alternatives, • understand how to observe group processes and assess their own behaviour within the group, • can consciously perceive their own role in the group and the effect of their behaviour and • can influence and control teamwork in a goal-oriented manner. <p>2. business simulation and business administration case study The students...</p> <ul style="list-style-type: none"> • know basic methods to analyze business problems, • know business decision-making processes in connection with essential corporate functions • have initial ideas on how to solve business management problems. <p>3. presentation training The students</p> <ul style="list-style-type: none"> • gain confidence when appearing in front of groups • can structure and design presentations in a target- and audience-oriented manner • can use media, stylistic devices and body language appropriately <p>Cross-Cultural Competencies</p> <p>Students can</p> <ul style="list-style-type: none"> • deal with communication situations in different cultural contexts, • have a basic understanding of other cultures, • recognize their own cultural background and reflect on it critically, • acquire cultural awareness and practice communication in the English language • create a learning agreement for a partner university abroad

<p>Content</p>	<p>Social and Methodological Skills</p> <ol style="list-style-type: none"> 1. training communication and teamwork <ul style="list-style-type: none"> • Perceptual processes • Communication basics • Giving and receiving feedback • Conversational • Characteristics of effective teamwork • Team development • Roles in a group • Leading a group • Application of teamwork in a business administration case study 2. business simulation + business administration case study <ul style="list-style-type: none"> • Getting to know complex decision-making methods in business settings • Making business decisions in small groups • Company as a customer-oriented value chain • Cooperation of different task and decision makers within a company 3. presentation training <ul style="list-style-type: none"> • Appearance in front of groups • Practice presentation situations • Use of media for presentations • Giving and taking feedback • Visualization and listener orientation 4. introduction to the study and examination regulations with e-learning module. Conclusion with online test StuPo Digital. <p>Cross-Cultural Competencies</p> <p>General conditions:</p> <ul style="list-style-type: none"> • Cross-cultural communication (CCC) and cross-cultural management (CCM) to successfully interact with representatives of other cultures. • The three perspectives: The cultural perspective: what is culture, and how should it be managed? The cross-cultural perspective: what makes cultures comparable, and how to test hypotheses of difference when interacting? The intercultural perspective: how to move beyond cross-cultural differences, and to create complementarities and synergies? • GLOBE Study to compare cultural differences • Participation in a study program related Go Abroad event and submission of an exemplary Learning Agreement
<p>Relation to other Modules</p>	<p>Social and Methodological Skills</p> <ul style="list-style-type: none"> • Business simulation: Business administration modules

	<ul style="list-style-type: none"> • Training: Seminars of the 3rd, 4th and 6th semester - there an evaluation of the teamwork. • Presentation training: in all seminars of the further studies - there is an evaluation of the presentations on the basis of the taught criteria. <p>Cross-Cultural Competencies:</p> <ul style="list-style-type: none"> • Preparation for working in international and intercultural teams, a study or internship semester abroad
Literature	<p>Social and Methodological Skills</p> <ul style="list-style-type: none"> • SIK Participant documents • Schulz von Thun, F.: Miteinander reden: Störungen und Klärungen. Hamburg • Birkenbihl, V.: Communication Training, Heidelberg • Hartmann, M. et al: The convincing presentation, Weinheim • Herbig, A. F.: Lecture and presentation techniques, Norderstedt • Krüger, W.: Leading Teams. Munich <p>Cross-Cultural Competencies</p> <ul style="list-style-type: none"> • Mahadevan, J.: Lecture Notes Cross Cultural Communication • GLOBE Studies (https://globeproject.com/studies)
Workload	Contact time: 3 SWS x 15 = 45 SWS + self-study 105 hours
Additional Remarks	<p>Social and Methodological Skills</p> <p>The 1st part (training in communication and teamwork) and the 2nd part (business simulation) take place during the introductory week of the first semester. They are embedded in the introductory week for the freshmen. The work in small groups also serves to socialize the freshmen. The 3rd part (presentation training) takes place at the beginning of the second semester of study. The training is conducted by student tutors who also provide peer mentoring for the freshmen. To prepare for the presentation training, it is recommended to work through the e-learning tool PowerPoint.</p> <p>Cross-Cultural Competencies</p> <p>The course is offered in English.</p>
Last edited	March 2023

LAW1050: FOUNDATIONS OF CONTRACT LAW

Foundations of Contract Law	
Reference number	LAW1050
Semester of study	1
Credits	5
SWS	4
Frequency	Every semester
Related courses	LAW1051 Foundation of Contract Law
Participation requirement	None
Type of examination / duration	PLK - 60 minutes
Prerequisite for the award of credits	Successful completion of the examination
Value of the module grade for the final grade	The module is included in the preliminary grade of the first study section with a total of 5 credits. The average score of the preliminary examination counts towards the final grade with a total of 30 credits (examination performance of the first study section, §17 Para. 3 StuPO).
Planned group size	max. 80 students
Teaching language	English
Duration of the module	1 semester
Responsible for the module	Head of Interdisciplinary Legal Department
Lecturers	Professors from the Business Law program and adjunct lecturers
Subject area	Law
Usability in other modules/courses of study	All business administration degree programs
Teaching form	Lecture with exercises
Goals	<u>Expertise</u> Students will master the juridical method of solving cases according to the basis of claims. <u>Critical thinking and analytical skills</u>

	Students will be able to use analytical skills constructively and critically to solve problems.
Content	<ul style="list-style-type: none"> • Introduction to Law and the Legal Method • Basics of Civil Law (sources of law, BGB, HGB, natural and legal persons, etc.) • Basics of Contract Law (conclusion of contract including representation, validity of legal transactions, consumer contracts, general terms and conditions, fulfilment and limitation).
Connection to other modules	Foundation for "Law in Business" and all other legal lectures
Literature	<ul style="list-style-type: none"> • Gildeggen/Lorinser/Willburger et al, Private Commercial Law • Eisenmann/Quittnat/Tavakoli, Legal Cases from Private Commercial Law • Führich, Private Commercial Law • Mehrings, Fundamentals of Private Commercial Law • Müssig, Private Commercial Law • Wörlen/Metzler-Müller, BGB AT <p style="text-align: center;">- In each case in the latest edition -</p>
Workload	150 hours, consisting of 60 hours contact time and 90 hours preparation and follow-up (self-study)
Keywords	Law, Civil law
Last change	March 2023

GMT1300: BUSINESS ADMINISTRATION I

Business Administration I	
Reference number	GMT1300
Semester of study	1
Credits	6
SWS	6
Frequency	Every semester
Related courses	<ul style="list-style-type: none"> • GMT1301 Management of Business Functions (4 credits) • GMT1302 Foundations of Accounting (2 credits)
Participation requirements	None
Type of examination / duration	<ul style="list-style-type: none"> • Management of Business Functions: PLK - 60 minutes • Foundations of Accounting: UPL - 60 minutes
Prerequisites for the award of credits	Successful completion of the examination
Importance of the module for the final grade	<p>The ungraded examination performance (Foundations of Accounting) is not included in any grade. The rest of the module is included in the preliminary grade of the first study section with a total of 4 credits.</p> <p>The average score of the preliminary examination counts towards the final grade with a total of 30 credits (examination performance of the first study section, §17 Para. 3 StuPO).</p>
Planned group size	max. 80 students
Teaching language	English
Duration of the module	1 semester
Responsible for the module	Sander, Frauke and Trauzettel, Volker
Lecturers	Professors of the ABWL department and adjunct lecturers
Subject area	General Business Administration
Usability in other modules/courses of study	All business administration degree programs
Teaching form	Lecture with exercises
Goals	<p>Management of Business Functions:</p> <p>The lecture is the first part of three modules on the essential functions of a company and on the challenges in the context of</p>

	<p>digital transformation, which are aimed at the following objectives:</p> <ul style="list-style-type: none"> • Students understand basic business management relationships and important objectives of a company. • They have a basic understanding of the tasks and economic issues in the individual operational areas of a company. • They understand the importance of customer orientation as a guideline for all entrepreneurial actions and the company as an entire value creation process oriented towards the customer. • They understand the challenges of digital transformation and its impact on the emergence and resolution of new operational issues. <p>This first part "Management of Business Functions" focuses on the following objectives:</p> <ul style="list-style-type: none"> • The students understand the basic principles of economic action and can transfer these to the functions of marketing, production and materials management. • The students know basic problems in the functions of marketing, production and materials management and are able to analyze them, work out adequate decision criteria and develop procedures for solving problems. • They understand how to assess the effects of entrepreneurial decisions in the areas of marketing, production and materials management on the results of the company and its social environment. <p>Foundations of Accounting:</p> <p>The students master the recording of the essential business transactions of a company in its internal and external accounting department and understand their significance. They can estimate the effects of the business transactions on the components of the annual financial statement and the internal income statement.</p>
<p>Content</p>	<p>Foundations of Accounting:</p> <ul style="list-style-type: none"> • Accounting obligation • Inventory and stocktaking • Stock and profit and loss accounts • Accounting of business transactions • Basic features of the balance sheet and profit and loss account <p>Management of Business Functions:</p> <ul style="list-style-type: none"> • Basic business terms and principles • Design of operational functions, especially <ul style="list-style-type: none"> - Marketing - Materials management: procurement & logistics - Production • Ethical issues

Connection to other modules	Preparation for all other business administration modules
Literature	<p>Management of Business Functions:</p> <ul style="list-style-type: none"> • Appelfeller, W.; Feldmann, C.: Die digitale Transformation des Unternehmens, Springer Gabler • Harwardt, M.: Management der digitalen Transformation, Springer Gabler • Mariott, S.; Glacki, S.: Entrepreneurship: Starting and Operating A Small Business, Pearson • Nothhelfer, R., Foschiani, S., Rade, K., Trauzettel, V.: Klausurtraining für allgemeine Betriebswirtschaftslehre, De Gruyter • Schierenbeck, H.: Grundzüge der Betriebswirtschaftslehre, Oldenburg • Thommen, J.-P. and Achleitner, A.-K.: Allgemeine BWL - Umfassende Einführung aus management-orientierter Sicht, Springer Gabler • Thommen, J.P.; Achleitner, A.-K.: Allgemeine Betriebswirtschaftslehre Arbeitsbuch. Repetition questions - tasks - solutions, Springer Gabler • Wöhe, G., Döring, U: Einführung in die allgemeine BWL, Vahlen <p>Fundamentals of Accounting:</p> <ul style="list-style-type: none"> • Coenenberg, et al, Introduction to Accounting, Schäffer-Poeschel • Grimm-Curtius, H. and Duchscherer, M.: Finanzbuchhaltung nach dem GKR und IKR - Lehrbuch mit Buchhaltungs-Software, Oldenbourg • Heinhold, M.: Buchführung in Fallbeispielen, Schäffer - Poeschel • Horngren/Sundem/Elliott/Philbrick, Introduction to financial accounting, Prentice Hall • Schmolke, S. and Deitermann, M.: Industrielles Rechnungswesen - GKR, Winklers Verlag Gebr. Grimm • Wedell, H.: Grundlagen des Rechnungswesens, Band 1, Buchführung und Jahresabschluss, NWB • Weygandt/Kimmel/Kieso, Financial accounting IFRS edition, John Wiley & Sons • Wöhe, G.: Grundzüge der Buchführung und Bilanztechnik, Vahlen Däumler, <p>In each case in the current edition</p>
Workload	Students are expected to spend an additional 90 hours for preparation, independent literature study, exercises and e-learning in addition to the 6 x 15 = 90 SWS attendance time.
Other	The two associated lectures of this module are offered within one semester.

	For participants with previous knowledge of accounting, an early examination is offered in the sub-module "Foundations of Accounting" already in the first third of the semester.
Keywords	Bookkeeping, annual financial statements, accounting, principles of economic action, marketing, production, materials management
Last change	February 2023

ECO1050: ECONOMICS I

Economics I	
Module ID	ECO1050
Semester	1
Credits	6
SWS	4
Frequency	Every semester
Associated Courses	ECO1051 Introduction and Microeconomics
Prerequisites	None
Assessment Methods and duration	PLK - 60 minutes
Requirements for granting of credits	Successful passing of the examination performance
Significance for the Final Grade	The credit-weighted average grade of the preliminary examination (examination results of the first study section, §17 para. 3 StuPO) is included in the final grade with a weight of 30 credits.
Planned group size	max. 80 students
Language	English
Module Duration	1 semester
Module Coordinator	Beck, Hanno
Lecturer(s)	Professors and lecturers of the department "Economics"
Subject area / course of study	Economics
Applicability in other programs	All degree programs
Pedagogical Approach	Lecture + Exercise
Objectives	Changes in the economy as a whole and economic policy decisions have a considerable influence on the success of individual businesses. The economic modules are designed to give students the ability to independently assess the macroeconomic framework for individual economic activity. Such knowledge is indispensable for decision-making competence in many business functions, especially for investment decisions, from which in turn other business decisions are derived. The module teaches principles of regulatory and competition policy and familiarizes students with microeconomic approaches to

	<p>the analysis of economic problems in closed economies. In detail, the following objectives are pursued:</p> <ul style="list-style-type: none"> • Students will be able to identify the essential elements that determine the success of an economic system and the competitiveness of a location. • They are able to assess decisions on competition policy and competition law with a view to the consequences for the individual and the economy as a whole. • You will learn to apply microeconomic analysis techniques to understand the functioning of markets under different market forms and under government intervention.
<p>Content</p>	<ul style="list-style-type: none"> • Subject, basic concepts and methods of economics • Economic systems (ideal types and real types), ordoliberalism and social market economy • Demand and supply on goods markets, elasticities, production and cost functions • Price formation: perfect and imperfect competition, monopolistic price formation, oligopoly markets • government intervention in market pricing: Maximum prices, minimum prices, taxes, internalization of external effects. • Competition concepts and competition policy
<p>Relation to other Modules</p>	<p>Methodological basics are created, which are expanded in the VWL module "International Economic Relations" in the context of foreign trade and applied independently in the "Economic Policy Seminar".</p> <p>The derivation of supply on goods markets is linked to general business administration (production and cost theory). The derivation of demand for goods, pricing in different market forms and competition policy have numerous points of contact with marketing issues. Competition theory and policy complement business courses on pricing and legal courses on competition and antitrust law.</p>
<p>Literature</p>	<p>In each case in the latest edition:</p> <ul style="list-style-type: none"> • Beck, Hanno, Economics. Micro- and macroeconomics • Krugman, Paul/Wells, Robin, Economics. • Mankiw, Nicholas G./Taylor, Mark P., Basic Economics. • Pindyck, Robert S./Rubinfeld, Daniel L., Microeconomics. • Samuelson, Paul A./Nordhaus, William D., Economics. The international standard work on macroeconomics and microeconomics. • Stiglitz, Joseph E./Walsh, Carl E., Microeconomics, Volume I on Economics. • Varian, Hal R., Principles of Microeconomics.

	<ul style="list-style-type: none">• Wienert, Helmut, Grundzüge der Volkswirtschaftslehre, Vol. 1: Introduction and Microeconomics.
Workload	The course requires 4 x 15 = 60 h attendance time. In addition, approx. 120 h are required for preparation, independent literature study, working through the legal texts and exercises.
Additional Remarks	The module is also offered in English as part of the International Study Program. Credits earned in English will count toward the existing Credit requirement in English.
Keywords	Microeconomics, microeconomics, economics
Last edited	April 2023

AQM1050: MATHEMATICS

Mathematics	
Module ID	AQM1050
Semester	1
Credits	5
SWS	4
Frequency	Every semester
Associated Courses	AQM1043 Analysis and Linear Algebra (3 credits) AQM1051 Financial Mathematics (2 credits).
Prerequisites	None
Assessment Methods and duration	Analysis and Linear Algebra: PLK - 90 minutes Financial Mathematics: PLK - 60 minutes
Requirements for granting of credits	Analysis and Linear Algebra: successful passing of the examination performance Financial Mathematics: successful passing of the examination performance
Significance for the Final Grade	The credit-weighted average grade of the preliminary examination (examination results of the first study section, §17 para. 3 StuPO) is included in the final grade with a weight of 30 credits.
Planned group size	max. 200 students
Language	English
Module Duration	1 semester
Module Coordinator	Kuhlenkasper, Torben
Lecturer(s)	Professors of the Department of Quantitative Methods and Lecturers
Subject area / course of study	Quantitative methods
Applicability in other programs	All business administration courses, "Financial Mathematics" is also used in the "Business Law" course.
Pedagogical Approach	Lecture with exercises

<p>Objectives</p>	<p>The students...</p> <ul style="list-style-type: none"> • can translate simple economic facts into mathematical models • are able to analyze economic functions by applying differential and integral calculus • Understand basic concepts of optimization methods by applying the method of Lagrange multipliers. • master the handling of linear systems of equations and matrices • Upon successful completion of the course, are equipped with mathematical knowledge that will allow them to access advanced courses in Statistics and Quantitative Planning. • know classic financial products • master classical financial mathematical procedures and methods of interest calculation, annuity calculation, investment calculation and redemption calculation • can critically assess various offers from financial providers for investing money and taking out loans • know how modern financial instruments (especially interest rate derivatives) work and how they are used, as well as their opportunities and risks
<p>Content</p>	<p>The module consists of the two courses "Analysis and Linear Algebra" and "Financial Mathematics". Within the first course, the concepts of analysis of functions with one variable (limit / continuity, homogeneity / elasticity, differential and integral calculus) are first worked out. Furthermore, the basic concepts of matrix-vector calculus (incl. determinant, inverse) and the solution of linear systems of equations are the subject of this course. Building on these two areas, the basic methods of analysis of functions with several variables (partial homogeneity, partial elasticity, partial / total differential, differential calculus, multiple integrals, optimization under constraints) are discussed. The course "Fundamentals of Financial Mathematics" provides the necessary mathematical tools for the financial mathematics part of the course (exponential / logarithm functions, sequences, series). Basics of interest calculation serve as a basis for the following chapters. Investment theory, annuity calculation, repayment calculation and a chapter on prices and yields of securities introduce students to entrepreneurial decision-making situations. An introduction to interest rate financial derivatives provides an insight into modern corporate financial planning.</p>
<p>Relation to other modules</p>	<p>Methodological foundations are laid for all other subjects from the areas of Applied Quantitative Methods, General Economics and Business Administration. Furthermore, this subject is the basis for the specialization subjects Financing and Accounting.</p>
<p>Literature</p>	<p>Analysis and Linear Algebra</p> <ul style="list-style-type: none"> • Sydsaeter/Hammond: Mathematics for Economists, Munich

	<ul style="list-style-type: none"> • Schwarze: Mathematics for Economists - Volume 1: Fundamentals, Herne. • Schwarze: Mathematics for Economists - Volume 2: Differential and Integral Calculus, Herne • Schwarze: Mathematics for Economists - Volume 3: Linear Algebra, Linear Optimization and Graph Theory, Herne • Tietze: Einführung in die angewandte Wirtschaftsmathematik, Wiesbaden. <p>Financial Mathematics</p> <ul style="list-style-type: none"> • Wüst, K.: Finanzmathematik - Vom klassischen Sparbuch zum modernen Zinsderivat, Wiesbaden. • Kuppinger, B.: Finanzmathematik, Wiley, Weinheim • Martin, T.: Finanzmathematik, Leipzig • Kobelt/Schulte: Financial Mathematics, Berlin • Beicke/Barckow: Risk-Management mit Finanzderivaten, Munich et al. • Müller-Möhl, E.: Options and Futures. Stuttgart. • Hull, J.: Options, Futures and Other Derivatives, Munich. • Renger, K.: Finanzmathematik mit Excel, Wiesbaden. • Tietze, J.: Einführung in die Finanzmathematik, Wiesbaden
Workload	<p>Analysis and Linear Algebra: 2 x 15 SWS = 30 SWS attendance time. In addition, approx. 60 h are required for preparation, independent literature study, exercises and e-learning.</p> <p>Financial Mathematics: 2 x 15 SWS = 30 SWS attendance time. In addition, approx. 30 h are required for preparation, independent literature study, exercises and e-learning.</p>
Additional Remarks	<p>The module assumes knowledge of a basic mathematics course in high school. In the written exam of Analysis and Linear Algebra, basic mathematical skills are tested.</p> <p>The course Fundamentals of Analysis and Linear Algebra is also offered in the winter semester as a Fast Track with 4 SWS/week and an early exam before Christmas.</p> <p>The course Fundamentals of Analysis and Linear Algebra is also offered in the winter semester as Fast Track (with an early exam before Christmas).</p>
Keywords	<p>Interest calculation, Differential and integral calculus, Linear equations, Investment calculation, Pension calculation, Redemption calculation, Modern financial products</p>
Last edited	<p>April 2023</p>

BIS1060: INFORMATION SYSTEMS

Information Systems	
Module ID	BIS1060
Semester	1
Credits	5
SWS	4
Frequency	Every semester
Associated Courses	BIS1061 Business Information Systems (2 credits) BIS1062 Information Systems Hands-on Training (2 credits) BIS1063 Information Systems Self Study Unit (1 credit).
Prerequisites	None
Assessment Methods and duration	Business Information Systems and Information Systems Hands-on-Training: PLL+PLK - 60 minutes Exercises on the computer: PLL Information Systems Self Study Unit: UPL
Requirements for granting of credits	The awarding of credits for the module requires the successful passing of the preliminary examination performance. Credits for the Introduction to Business Information Systems and the exercises on the computer: require the successful passing of the respective examination performance.
Significance for the Final Grade	The preliminary examination credit does not count towards any grade. The rest of the module is included in the preliminary grade of the first study section with a weighting of 2 credits each. The credit-weighted average grade of the preliminary examination (examination results of the first study section, §17 para. 3 StuPO) is included in the final grade with a weight of 30 credits.
Planned group size	Business Information Systems: max. 100 students Exercise and e-learning: small groups
Language	English
Module Duration	1 semester
Module Coordinator	Burkard, Werner
Lecturer(s)	Professors of the study program Business Informatics
Subject area / course of study	Business Informatics
Applicability in other programs	All study programs

Pedagogical Approach	Lecture + Exercise + E-Learning
Objectives	<p>Students ...</p> <ul style="list-style-type: none"> • know categories of information systems, their functions and field of application. • can apply methods for modeling the organizational, functional, data and control view. • know basics of information system project management. • know selected technical basics of information and communication systems. • Have a basic understanding of security measures in the operation of information systems. • can apply spreadsheets to simple business problems. • can map simple data structures in a database and create evaluations.
Content	<ul style="list-style-type: none"> • Information technology in business and society • Introduction to central concepts of information processing with computers • Structure, operation and classification of computers • Overview of operational information systems • Information systems management and operation • Modeling of operational information systems • Creation process of an information system: planning/design/development • Office information systems at a glance • Teamwork: communication forms, groupware, workflow, knowledge management • ERP systems at a glance: Management of company-wide resources and processes • Components of ERP systems • Networking basics for business economists: network economics and portals • Consumer information systems and CRM (customer relationship management) • Information systems between companies and suppliers: from EDI to EAI • Information systems to support management • Data management and analysis with data warehouse, OLAP and data mining • Selected exercises / discussion of tasks / e-learning modules
Literature	<p>Thesmann, St. / Burkard, W.: Wirtschaftsinformatik für Dummies, 2. Auflage, Weinheim</p> <p>Hansen, H. R. / Neumann, G.: Wirtschaftsinformatik 1, Bd.1 Grundlagen und Anwendungen, Stuttgart</p>
Workload	<p>Course, exercises and e-learning require 4 x 15 = 60 SWS attendance time. In addition, approx. 90 h are required for preparation, independent literature study, own supplementary exercises and e-learning.</p>
Last edited	April 2023

LAW1400: CORPORATE LAW

Corporate Law	
Reference number	LAW1400
Semester of study	2
Credits	6
SWS	6
Frequency	Every semester
Related courses	LAW1401 Contract Management LAW1402 Contracts and Digitalization
Participation requirement	None
Type / duration of examination	PLK - 90 minutes
Prerequisite for the award of credits	Successful completion of the examination
Value of the module grade for the final grade	The module is included in the preliminary grade of the first study section with a total of 6 credits. The average score of the preliminary examination counts towards the final grade with a total of 30 credits (examination performance of the first study section, §17 Para. 3 StuPO).
Planned group size	max. 80 students
Teaching language	English
Duration of the module	1 semester
Responsible for the module	Head of Interdisciplinary Legal Department
Lecturers	Professors from the Business Law programme and adjunct lecturers
Subject area	Commercial law
Usability in other modules/courses of study	All business administration degree programmes
Teaching form	Lecture and exercise
Goals	<u>Expertise</u> Students will master the juridical method of solving cases according to the basis of claims. <u>Critical thinking and analytical skills</u>

	Students will be able to use analytical skills constructively and critically to solve problems.
Content	<p>Contract Management</p> <ul style="list-style-type: none"> ○ Introduction to the general and special law of obligations (overview of the types of contract; overview of default) ○ General default (delay, impossibility, breach of ancillary obligations) ○ Warranty under the law of sale: ○ Basic concepts of property law ○ Acquisition of property ○ Overview of loan collateral ○ Tort and product liability ○ Sample contracts <p>Contracts and Digitalization</p> <ul style="list-style-type: none"> ● Main features of the new law of obligations 2022 ● Conclusion of contract in the digital space ● Insight into data protection law ● Important basic concepts of intellectual property law (e.g. protection of intellectual property on the internet) ● Sale of consumer goods and special features of the sale of consumer goods with digital elements ● Consumer contracts on digital products (§ 327ff. BGB) ● Exemplary in-depth topic (e.g. legal tech)
Connection to other modules	Continuation of Foundations of Contract Law; basis for all further law lectures.
Literature	<ul style="list-style-type: none"> ● Gildeggen/Lorinser/Willburger et al., Private Commercial Law ● Brönneke/Föhlisch/Tonner (eds.), The New Law of Obligations ● Brox/Walker, General Law of Obligations ● Brox/Walker, Special Law of Obligations ● Eisenmann/Quittnat/Tavakoli, Legal Cases from Private Commercial Law ● Führich, Private Commercial Law ● Hemmer/Wüst/Tyroller / D'Alquen, The New Law of Obligations 2022 ● Langkamp The New Law of Obligations 2022 ● Mehrings, Fundamentals of Private Commercial Law ● Müssig, Private Commercial Law ● Wörlen/Metzler-Müller, Law of Obligations General Part ● Wörlen/Metzler-Müller, Law of Obligations Special Part ● Wörlen/Kokemoor, Property Law <p style="text-align: center;">- In each case in the latest edition -</p>
Workload	180 hours, consisting of 90 hours contact time and 90 hours preparation and follow-up (self-study)
Keywords	Law, Civil law
Last change	October 2022

GMT1310: BUSINESS ADMINISTRATION II AND CORPORATE TAXATION

Business Administration II and Corporate Taxation	
Reference number	GMT1310
Semester of study	2
Credits	5
SWS	5
Frequency	Every semester
Related courses	<ul style="list-style-type: none"> • GMT1311: Management: Organizational Structures and Decisions (2 SWS / 2 Credits) • TAX1012: Corporate Taxation (3 SWS / 3 Credits)
Participation requirements	None
Type of examination / duration	PLK - 120 minutes
Prerequisite for the award of credits	Successful completion of the examination
Value of the module grade for the final grade	<p>The module is included in the preliminary grade of the first study section with a total of 5 credits.</p> <p>The average score of the preliminary examination counts towards the final grade with a total of 30 credits (examination performance of the first study section, §17 Para. 3 StuPO).</p>
Planned group size	max. 80 students
Teaching language	English
Duration of the module	1 semester
Responsible for the module	Trauzettel, Volker and Häfele, Markus
Lecturers	Professors of the ABWL department, professors of the "Taxation and Auditing" course and adjunct lecturers (for the course on corporate taxation with StB qualification)
Subject area	General Business Administration / Taxes and Auditing
Usability in other modules/courses of study	<p>All degree programs except BWL/Media Management and Digital Media and BBA/International Business.</p> <p>In the degree programs Business Administration/Accounting, Controlling and Financial Management; Business Administration/Business Law as well as Business Administration/Taxes and Auditing, the course "Corporate Taxation/Operational Taxation" comprises 4 SWS/4 ECTS (cf. following separate module description GMT2250).</p>
Teaching form	Lecture with exercises

<p>Goals</p>	<p>Management: Organizational Structures and Decisions: The class is the second part of three modules on the essential functions of a company and on the challenges in the context of digital transformation, which are aimed at the following objectives:</p> <ul style="list-style-type: none"> • The students understand basic business management relationships and important objectives of a company. • They have a basic understanding of the tasks and economic issues in the individual operational areas of a company. • They understand the importance of customer orientation as a guideline for all entrepreneurial actions and the company as an entire value creation process oriented towards the customer. • They understand the challenges of digital transformation and its impact on the emergence and resolution of new operational issues. <p>In the second part of "Management: Organizational Structures and Decisions", the focus is on the following objectives:</p> <ul style="list-style-type: none"> • The students understand how to assess the impact of, in particular, constitutive corporate decisions on the company and its social environment. • They are familiar with basic problems in business organization and are able to analyze them, work out adequate decision-making criteria and develop procedures for solving problems. <p>Corporate Taxation:</p> <ul style="list-style-type: none"> • The students understand the different tasks of tax law, finance and business taxation. • They use the legal texts to determine the taxable facts and their assessment bases in various types of tax. • They recognize the effects of the turnover tax system (turnover tax as a transitory item or as a cost component). • The students will be able to determine the income tax burdens (including the tax assessment base) of individuals (including case studies on income tax assessment) as well as companies (especially partnerships and corporations) and entrepreneurs (partners). • They recognize the effects of taxes on business management decisions (option for compulsory VAT for small entrepreneurs, choice of legal form, distribution policy, equity or debt capital).
<p>Content</p>	<ul style="list-style-type: none"> • Constitutive corporate decisions (location and legal form) • Effects of business management decisions on company results • Design of operational functions, in particular the company organisation • Ethical issues • Fundamentals of the taxation system

	<ul style="list-style-type: none"> • Value added tax (tax liability, EU internal market, reporting of value added tax, deductible input tax, VAT as a cost, basic options) • Income tax (tax liability, types of income, determination of taxable profit, determination of the income tax burden, assessment cases) • Trade tax in outline • Corporate income tax in outline • Recognize the total income tax burden using case studies and exercises • Basic comparison of legal forms (partnerships and corporations)
<p>Connection to other modules</p>	<p>Management: Organizational Structures and Decisions:</p> <ul style="list-style-type: none"> • Preparation for all business administration modules of the second study section. <p>Corporate Taxation:</p> <ul style="list-style-type: none"> • Sound knowledge from RW I (accounting) is expected and applied in the determination of taxable profits. • The choice of legal form (management: structures and decisions) is analyzed from a tax point of view; tax burdens are compared. • Cross-connections to accounting (accounting and financial management); primarily dealt with here are the differences between commercial and tax law profit determination.
<p>Literature</p>	<ul style="list-style-type: none"> • Drosse, V. and Vossebein, U.: Allgemeine Betriebswirtschaftslehre, MLP - Repetitorium, Gabler Verlag • Hopfenbeck, W.: Allgemeine Betriebswirtschafts- und Managementlehre, Verlag Moderne Industrie • Jung, H., General Business Administration, R. Oldenbourg Verlag • Luger, A.E.: Allgemeine BWL Bd. 1: Der Aufbau des Betriebes, Hanser Verlag • Mariott, S.; Glacki, Steve: Entrepreneurship: Starting and Operating A Small Business, Pearson • Nothhelfer, R., Foschiani, S., Rade, K., Trauzettel, V.: Klausurtraining für allgemeine Betriebswirtschaftslehre, De Gruyter • Schierenbeck, H.: Grundzüge der Betriebswirtschaftslehre, Oldenburg Verlag • Straub, T.: Einführung in die allgemeine BWL, Pearson. • Thommen, J.-P. and Achleitner, A.-K.: Allgemeine BWL - Umfassende Einführung aus management-orientierter Sicht, Gabler Verlag • Thommen, J.P.; Achleitner, A.-K.: Allgemeine Betriebswirtschaftslehre Arbeitsbuch. Repetition questions - tasks - solutions, Springer Gabler

	<ul style="list-style-type: none"> • Wöhe, G., Döring, U.: Einführung in die allgemeine BWL, Verlag Vahlen • Stobbe, Thomas: Steuern Kompakt, • Grefe, Cord: Corporate Taxes, Ludwigshafen • Important tax laws (NWB or Beck texts) <p>Latest edition in each case</p>
<p>Workload</p>	<p>Management: Organizational Structures and Decisions: Students are expected to spend an additional 30 hours for preparation, independent literature study, exercises and e-learning in addition to the 2 x 15 = 30 SWS attendance time.</p> <p>Corporate taxation: The course requires 3 x 15 = 45 SWS attendance time. In addition, approx. 45 hours are required for preparation, independent literature study, working through the legal texts and exercises. For the degree programs Business Administration/Accounting, Controlling and Financial Management; Business Administration/Business Law as well as Business Administration/Taxes and Auditing, the course "Corporate Taxation/Operational Taxation" amounts to 4 SWS/4 ECTS.</p>
<p>Keywords</p>	<p>Entrepreneurial processes, functions, organization, constitutive decisions (legal form, choice of location), corporate taxation</p>
<p>Last updated</p>	<p>February 2023</p>

ECO1150: ECONOMICS II

Economics II	
Module ID	ECO1150
Semester	2
Credits	5
SWS	4
Frequency	Every semester
Associated Courses	ECO1151 Macroeconomics
Prerequisites	None
Assessment Methods and duration	PLK - 60 minutes
Requirements for granting of credits	Successful passing of the examination performance
Significance for the Final Grade	The credit-weighted average grade of the preliminary examination (examination results of the first study section, §17 para. 3 StuPO) is included in the final grade with a weight of 30 credits.
Planned group size	max. 80 students
Language	English
Module Duration	1 semester
Module Coordinator	Strotmann, Harald
Lecturer(s)	Professors of the Department of Economics and Lecturers
Subject area / course of study	Economics
Applicability in other programs	All degree programs
Pedagogical Approach	Lecture
Objectives	Changes in the economy as a whole and economic policy decisions have a considerable influence on the success of individual businesses. The economic modules are designed to give students the ability to independently assess the macroeconomic framework for individual economic activity. Such knowledge is indispensable for decision-making competence in many business functions, especially for investment decisions, from which in turn other business decisions are derived. The module familiarizes students with macroeconomic approaches

	<p>to the analysis of economic problems in closed economies. Specifically, the following objectives are pursued:</p> <ul style="list-style-type: none"> • Students will be able to identify the essential elements that determine the success of an economic system and the competitiveness of a location. • Macroeconomic analysis gives students access to explanations of the most important macroeconomic factors affecting business activity: unemployment, inflation, economic growth, structural change and cyclical fluctuations. They are able to explain these phenomena and evaluate economic policy options for correcting macroeconomic imbalances and their consequences for business decisions.
Content	<ul style="list-style-type: none"> • Subject, basic concepts and methods of economics • classical macroeconomic approach (full employment, flexible prices) • Keynesian macroeconomic approach (underemployment, price rigidities) • Monetary theory and monetary policy, interest rate and inflation explanation • Causes and possibilities of government influence on economic fluctuations • Economic growth: determinants and limits • Structural change: causes and effects
Relation to other Modules	<ul style="list-style-type: none"> • Methodological basics are created, which are expanded in the VWL module "International Economic Relations" in the context of foreign trade and applied independently in the "Economic Policy Seminar". • Macroeconomic developments and their determinants are relevant at many points in general business administration, e.g. when it comes to interest rate and price developments or location decisions. Selected partial aspects are of particular importance for individual courses of study, e.g. economic fluctuations for procurement and sales decisions.
Literature	<ul style="list-style-type: none"> • Beck, Hanno, Economics. Micro- and macroeconomics • Blanchard, Olivier/Illing, Gerhard, Macroeconomics • Krugman, Paul/Wells, Robin, Economics. • Mankiw, Nicholas G./Taylor, Mark P., Basic Economics. • Mankiw, Nicholas G., Macroeconomics. • Samuelson, Paul A./Nordhaus, William D., Economics. The international standard work on macroeconomics and microeconomics. • Wienert, Helmut, Grundzüge der Volkswirtschaftslehre, Vol. 2: Makroökonomie
Workload	<p>Each of the two courses requires 4 x 15 SWS = 60 SWS attendance time. In addition, approx. 60 h are required for independent literature study, exercises, e-learning and exam preparation.</p>
Additional Remarks	<p>The module is also offered in English as part of the International Study Program.</p>

Keywords	Macroeconomics, macroeconomics, economics, basics
Last edited	April 2023

AQM1150: DESKRIPTIVE STATISTICS AND MATHEMATICAL OPTIMIZATION

Quantitative Methods I	
Module ID	AQM1150
Semester	2
Credits	5
SWS	4
Frequency	Every semester
Associated courses	AQM1151 Descriptive Statistics (3 credits). AQM1142 Mathematical Optimization (2 credits)
Prerequisites	None
Assessment Methods and duration	Descriptive Statistics (3 credits): PLK - 60 minutes. Mathematical Optimization (2 credits): PLK - 60 minutes
Requirements for granting of credits	Descriptive Statistics: successful passing of the examination performance Mathematical Optimization: successful passing of the examination performance
Significance for the Final Grade	The credit-weighted average grade of the preliminary examination (examination results of the first study section, §17 para. 3 StuPO) is included in the final grade with a weight of 30 credits.
Planned group size	max. 200 students
Language	Englisch
Module Duration	1 semester
Module Coordinator	Kuhlenkasper, Torben
Lecturer(s)	Professors of the Department of Quantitative Methods and Lecturers
Subject area / course of study	Quantitative methods
Applicability in other programs	All business administration courses
Pedagogical Approach	Lecture
Objectives	<u>Descriptive Statistics</u> The students... 1. understand the importance of simple statistical concepts in an economic setting; 2. learn the statistical language R;

	<ol style="list-style-type: none"> 3. can analyze economic data sets using descriptive statistical functions in R; 4. can calculate and interpret decision-relevant information from a data set using graphs and descriptive univariate ratios; 5. have the ability to correctly apply and interpret bivariate techniques of correlation and regression. 6. can apply simple techniques of time series analysis, such as index and forecast calculation, and interpret their results. 7. can apply basic concepts of probability calculations; 8. can recognize and avoid statistical sources of error and attempts at manipulation. <p><u>Mathematical Optimization</u></p> <p>The students ...</p> <ol style="list-style-type: none"> 1. can think in a model-oriented way, 2. know and understand the basic principles of quantitative business planning, 3. know when and how to use the presented methods in business planning and 4. can solve application-oriented problems independently using an algorithmic approach.
<p>Content</p>	<p>The course "Descriptive Statistics" addresses the basic methods of univariate and bivariate procedures, which are applied to business examples with the help of own or computer-based calculations. Content ranges from survey and scaling, to presentation and univariate analysis of quantitative data, to analysis of bivariate relationships. An introduction to probability theory is given.</p> <p>In the course "Mathematical Optimization", the fundamentals of a model-theoretical approach as the basis of quantitative corporate planning as well as the most important methods of linear programming calculation are taught. This includes in particular the methods of linear programming and quantitative project planning. Emphasis is placed on the application of solution methods to business problems and on their economic interpretation. For this purpose, a number of didactically useful examples from the planning practice of the respective business administration functional areas are discussed. In addition, special emphasis is placed on the use of computer-aided solutions.</p>
<p>Relation to other modules</p>	<p>Methodological foundations are laid for the subjects of inductive statistics, operations research, computer-aided management methods, economics, and for individual aspects of business administration and data analysis.</p>
<p>Literature</p>	<p><u>Descriptive Statistics</u></p> <ul style="list-style-type: none"> • Handl, A., Kuhlenkasper, T: Einführung in die Statistik – Theorie und Praxis mit R, Heidelberg. • Cleff, T.: Descriptive Statistics and Modern Data Analysis. A computer-based introduction with Excel, SPSS and Stata, Wiesbaden. • Bortz, J.: Statistik für Human- und Sozialwissenschaftler, Berlin et al.

	<ul style="list-style-type: none"> • Fahrmeier, L.: Statistics. Der Weg zur Datenanalyse, Berlin et al. • Schwarze, J.: Statistik 1, Statistik 2 und Aufgabensammlung, Berlin • Anderson, D. R., Sweeney, D.J., Williams T.A.: Statistics for Business and Economics, Mason <p><u>Mathematical Optimization</u></p> <ul style="list-style-type: none"> • Gritzmann, P.: Grundlagen der mathematischen Optimierung, Springer, Wiesbaden. • Koop, A., Moock, H.: Lineare Optimierung - Eine Anwendungsorientierte Einführung in Operations Research, Spektrum Akademischer Verlag. • Jarre, F., Stoer, J.: Optimization, Springer, Berlin. • Runzheimer, B., Cleff, T., Schäfer, W.: Operations Research Band 1: Lineare Planungsrechnung und Netzplanchnik, Wiesbaden • Gohout, W.: Operations Research, Munich, Vienna • Domschke, W., Drexl, A.: Introduction to Operations Research, Berlin et al. • Hillier, F. S., Lieberman, G. J.: Introduction to Operations Research, Boston u.a. • Taha, H. A.: Introduction to Operations Research, New Jersey
Workload	<p>Descriptive Statistics: 2 x 15 = 30 SWS attendance time. In addition, approx. 60 h are required for preparation, independent literature study, exercises and internet/e-learning.</p> <p>Mathematical Optimization: 2 x 15 = 30 SWS attendance time. In addition, approx. 30 hours are required for preparation, independent literature study, exercises and internet/e-learning.</p>
Additional Remarks	<p>The course Descriptive Statistics is also offered in English in the summer semester as part of the International Study Program.</p> <p>This English-language course is offered as a fast-track course with 4 SWS/week and an early exam well before the normal exam period. Credits earned in English will count toward the existing credit requirement in English.</p>
Keywords	<p>regression, analysis, data collection, data reduction, data summary, probability, analysis of contingency correlation</p>
Last edited	<p>April 2023</p>

GMT2250: FOUNDATIONS OF COST AND PERFORMANCE ACCOUNTING

Foundations of Cost and Performance Accounting	
Module ID	GMT2250
Semester	3
Credits	5
SWS	4
Frequency	Every semester
Associated courses	GMT2251 Foundations of Cost and Performance Accounting
Prerequisites	None
Assessment Methods and duration	PLK - 90 minutes
Requirements for granting of credits	Successful passing of the examination performance
Significance for the Final Grade	The module is weighted with its credits in the Bachelor final grade.
Planned group size	max. 80 students
Language	English
Module Duration	1 semester
Module Coordinator	Kropp, Matthias
Lecturers	Professors of the ABWL department and lecturers
Subject area / course of study	General business administration
Applicability in other modules / courses of study	All business administration courses
Pedagogical Approach	Lecture

Objectives	<p>The students will be able</p> <ul style="list-style-type: none"> • ... to define and explain the central goals, terms, tasks and contents of cost and activity accounting. • ... to independently carry out cost type, cost center and cost unit calculations. They will also be able to calculate contribution margin and operating result and work out solutions for different questions from practice. • ... independently carry out cost type, cost center and cost unit calculations as well as contribution margin and operating result calculations and work out solutions for different questions from practice.
Content	<ul style="list-style-type: none"> • Basic concepts of cost accounting • Cost Element Accounting • Cost Center Accounting • Cost Object Controlling • Partial costing • Decision-oriented cost accounting / direct costing
Relation to other modules	<p>Preparation of all other BWL - modules of the second study section, builds on the BWL modules of the first study section.</p>
Literature	<ul style="list-style-type: none"> • Coenenberg, A.G.: Kostenrechnung und Kostenanalyse. Schäffer-Poeschel • Däumler, K.-D., Grabe, J.: Kostenrechnung 1, Grundlagen • Däumler, K.-D., Grabe, J.: Cost Accounting 2, Contribution Margin Accounting • Haberstock, L.: Kostenrechnung, Bd. 1: Einführung: mit Fragen, Aufgaben und Lösungen, S + W Steuer- u. Wirtschaftsverlag • Joos-Sachse, Th.: Controlling, Cost Accounting and Cost Management, Gabler • Olfert, K.: Kostenrechnung, Kiehl-Verlag • Taschner, A./Charifzadeh, M.: Management and Cost Accounting, Wiley
Workload	<p>It is expected that the students spend 90 h for preparation, independent literature study, exercises and e-learning, in addition to the 4 x 15 = 60 SWS attendance time.</p>
Additional Remarks	<p>The module is offered in the winter semester as part of the International Study Program as an English-language fast track with 6 contact hours/week and an early exam before Christmas</p>
Keywords	<p>Accounting, Calculation, Cost Accounting</p>
Last edited	<p>March 2023</p>

First study section – Program specific module

DBM1150: DIGITAL BUSINESS

Digital Business	
Module ID	DBM1150
Semester	1 and 2
Credits	6
SWS (contact h per week)	5
Frequency	Once a year, winter term (DBM1151) and summer term (DBM1152)
Associated Courses	DBM1151 Digital Business Management (1 SWS / 1 ECTS), DBM1152 Business Process Management (4 SWS / 5 ECTS)
Prerequisites	None
Assessment Methods	DBM1151 Digital Business Management: PLK, 30 Minutes DBM1152 Business Process Management: PLP + PLH
Requirements for granting of credits	Passing the respective examination in the associated courses
Significance for the Final Grade	The module is weighted with its credits in the Bachelor's final grade.
Planned Group Size	35
Language	English
Modul duration	2 Semester
Modul coordinator	Boßlau, Mario
Lecturer(s)	Boßlau, Mario; Berbig, Dominik; Morelli, Frank
Discipline	Information Systems
Teaching approach	Seminary teaching
Applicability in other programs	-
Objectives	<p>Students...</p> <ul style="list-style-type: none"> • understand the core concepts and principles of digital business management and business process management, • develop digital strategies and understand how to implement them, • evaluate the impact of emerging technologies on business operations and strategy,

	<ul style="list-style-type: none"> • apply principles of change management in the context of digital transformation, • use data-driven decision making and analytics in business operations, • learn to design and optimize business processes • apply the process lifecycle for continuous process improvement • understand how process modeling supports business objectives <p>The module primarily serves to the following competencies: Knowledge Broadening, Knowledge Deepening, Knowledge Comprehension, Academic Integrity and Professionalism</p>
Content	<p><u>DBM1151 Digital Business Management</u></p> <ul style="list-style-type: none"> • Fundamentals of digital business management • Digital strategy development and implementation • Role of emerging technologies in business • Digital business models and their implementation • Change management for digital transformation • Data-driven decision making and analytics <p><u>DBM1152 Business Process Management</u></p> <ul style="list-style-type: none"> • Business process management lifecycle • Basics of process modeling and process modeling languages (e.g., BPMN) • Fundamentals of process modeling, process management, and concepts of process optimization using transaction systems • Transformation of business process requirements in IT solutions and the relevance of integration aspects within ERP systems (e.g. SAP ERP) • Key success factors for the implementation of a transaction system
Relation to other Modules	<p>This module forms the basis for the later modules and is also incorporated into all other courses of the program, where basic knowledge of software development is required.</p>
Literature	<p><u>DBM1151 Digital Business Management</u></p> <ul style="list-style-type: none"> • Kane, G. C. (2019). The Technology Fallacy: How People Are the Real Key to Digital Transformation. The MIT Press. • Ross, J. W., Beath, C. M., & Mocker, M. (2019). Designed for Digital: How to Architect Your Business for Sustained Success. The MIT Press. • Westerman, G., Bonnet, D., & McAfee, A. (2014). Leading Digital: Turning Technology into Business Transformation. Harvard Business Review Press. • Schmarzo, B. (2013). Big Data: Understanding How Data Powers Big Business. Wiley. <p><u>DBM1152 Business Process Management</u></p> <ul style="list-style-type: none"> • Dumas, M., La Rosa, M., Mendling, J., & Reijers, H. A. (2018). Fundamentals of Business Process Management. Springer. • Weske, M. (2019). Business Process Management: Concepts, Languages, Architectures. Springer.

	<ul style="list-style-type: none"> Silver, B. (2017). BPMN Quick and Easy Using Method and Style: Process Mapping Guidelines and Examples Using the Business Process Modeling Standard. Cody-Casidy Press. <p>The latest edition in each case</p>																												
Workload	<p><u>DBM1151 Digital Business Management</u></p> <table> <tr> <td>Contact time</td> <td>(1 x 15h)</td> <td>15</td> <td>h</td> </tr> <tr> <td>Preparation and follow-up</td> <td></td> <td>15</td> <td></td> </tr> <tr> <td>Case study</td> <td></td> <td>30</td> <td>h</td> </tr> </table> <p><u>DBM1152 Business Process Management</u></p> <table> <tr> <td>Contact time</td> <td>(4 x 15h)</td> <td>60</td> <td>h</td> </tr> <tr> <td>Preparation and follow-up</td> <td></td> <td>20</td> <td>h</td> </tr> <tr> <td>Case study</td> <td></td> <td>50</td> <td></td> </tr> <tr> <td>Exam preparation</td> <td></td> <td>20</td> <td>h</td> </tr> </table>	Contact time	(1 x 15h)	15	h	Preparation and follow-up		15		Case study		30	h	Contact time	(4 x 15h)	60	h	Preparation and follow-up		20	h	Case study		50		Exam preparation		20	h
Contact time	(1 x 15h)	15	h																										
Preparation and follow-up		15																											
Case study		30	h																										
Contact time	(4 x 15h)	60	h																										
Preparation and follow-up		20	h																										
Case study		50																											
Exam preparation		20	h																										
Additional Remarks	-																												
Keywords	Digital Business Management, Digital Strategy, Emerging Technologies, Change Management, Digital Transformation, Data-Driven Decision Making, Business Analytics, Digital Leadership, Process Management, Business Process Modeling, Process Lifecycle, BPMN (Business Process Model and Notation), Process Analysis, Process Efficiency, Process Improvement, Process Optimization, Business Process Management Tools, Business Process Transformation																												
Last update	May 2024																												

Second study section – Common core modules

GMT2300: MANAGING DIGITAL TRANSFORMATION

Managing Digital Transformation	
Module ID	GMT2300
Semester	3
Credits	5
SWS	4
Frequency	Every semester
Associated courses	<ul style="list-style-type: none"> • GMT2301: Management in the Digital Age (2 SWS / 2 Credits) • GMT2302: Digital Transformation: Technologies and Application Areas (2 SWS / 3 Credits)
Prerequisites	BIS1060: Information Systems
Assessment Methods and duration	PLK - 60 minutes
Requirements for granting of credits	Successful completion of the respective examination
Significance for the Final Grade	The whole module is included into the Bachelor final grade.
Planned group size	max. 80 students
Language	English
Module Duration	1 semester
Module Coordinator	Frauke Sander / Annabel Linsel and Thomas Schuster
Lecturer(s)	Professors of the ABWL department, professors of the Business Information Systems program and adjunct lecturers
Subject area / course of study	General Business Administration Business Information Systems
Applicability in other programs	All study programs
Pedagogical Approach	Lecture with exercises
Objectives	<p>The students...</p> <ul style="list-style-type: none"> • ...have a fundamental understanding of the challenges in operational management processes that are becoming increasingly significant in the context of digital transformation.

	<ul style="list-style-type: none"> • ...know design options for digital business models and are able to analyze them in a structured manner. In particular, they can develop solutions that address the challenges of digital transformation. • ...are familiar with basic problems in operational human resources management and are able to analyze them, work out adequate decision-making criteria and develop procedures for solving problems. • ...have a basic understanding of the concept of digital transformation, its elements, the stage of development and the significance for the competitiveness of companies. • ...know current technological basics of this development and understand how to assess the effect of selected technologies on various corporate functions and processes.
<p>Content</p>	<p>The course builds on the basic courses on business administration and business information systems of the first study section and supplements the content taught there, particularly regarding the aspects of digital transformation.</p> <p>The contents include in detail:</p> <ul style="list-style-type: none"> • Management processes in the age of digital transformation • Design of (digital) business models • Design of operational functions, especially human resource management • Digital transformation technologies and their application in the company • Overview of relevant technologies in the context of digital transformation and their fields of application in the company: <ul style="list-style-type: none"> - Data Literacy - Artificial Intelligence - Process Mining - Blockchain - Cloud computing - IT security • Ethical issues in the digital age
<p>Relation to other modules</p>	<p>Preparation for all business administration modules of the second study section.</p>
<p>Literature</p>	<ul style="list-style-type: none"> • Appelfeller, W.; Feldmann, C.: Die digitale Transformation des Unternehmens, Springer Gabler • Erner, M.: Management 4.0 - Unternehmensführung im digitalen Zeitalter, Springer Gabler • Gassmann, O; Frankenberger, K.; Choudury, M.: Geschäftsmodelle entwickeln, Hanser • Harwardt, M.: Management der digitalen Transformation, Springer Gabler • Kaiser et al. (eds.): Digitale Arbeitswelt, Springer Gabler • Mariott, S.; Glacki, S.: Entrepreneurship: Starting and Operating A Small Business, Pearson

	<ul style="list-style-type: none"> • Nothhelfer, R., Foschiani, S., Rade, K., Trauzettel, V.: Klausurtraining für allgemeine Betriebswirtschaftslehre, De Gruyter • Thommen, J.-P. and Achleitner, A.-K.: Allgemeine BWL - Umfassende Einführung aus management-orientierter Sicht, Springer Gabler • Thommen, J.P.; Achleitner, A.-K.: Allgemeine Betriebswirtschaftslehre Arbeitsbuch. Repetition questions - tasks - solutions, Springer Gabler • Hansen, H.R.; J. Mendling, J. and Neumann, G.: Wirtschaftsinformatik, Berlin; Boston: De Gruyter Oldenbourg. • Bruhn, M. and Hadwich, K.: Artificial Intelligence in Service Management. Springer. • Barton, T. and Müller, C.: Artificial Intelligence in Application. Springer. <p>The latest edition of each</p>
Workload	Students are expected to spend an additional 90 hours for preparation, independent literature study, exercises and e-learning in addition to the 4 x 15 = 60 SWS attendance time.
Keywords	Digital transformation, management process, business models, human resource management, digital transformation technologies
Last edited	February 2023

ECO2100: INTERNATIONAL ECONOMICS

International Economics	
Module ID	ECO2100
Semester	3
Credits	5
SWS	4
Frequency	Every semester
Associated courses	ECO2011 International Economics
Prerequisites	None
Assessment Methods and duration	PLK - 60 minutes
Requirements for granting of credits	Successful passing of the examination performance
Significance for the Final Grade	The module is weighted with its credits in the Bachelor final grade.
Planned group size	max. 80 students
Language	English
Module Duration	1 semester
Module Coordinator	Strotmann, Harald
Lecturer(s)	Professors of the Department of Economics
Subject area / course of study	Economics
Applicability in other programs	all business administration courses
Pedagogical Approach	Lecture
Objectives	Changes in the economy as a whole and economic policy decisions have a considerable influence on the success of individual businesses. The economic modules are designed to give students the ability to independently assess the macroeconomic framework for individual economic activity. Such knowledge is indispensable for decision-making competence in many business functions, especially for investment decisions, from which in turn other business decisions are derived. The module extends the economic analysis of closed economies to

	<p>include international contexts, which have become considerably more important for companies due to the globalization of value chains. In detail, the following objectives are pursued:</p> <ul style="list-style-type: none"> • Students grasp the close integration of the German economy into the global economy. • They know the advantages and disadvantages of different exchange rate systems and the determinants of exchange rate developments. • They understand the benefits of the international division of labor and the drivers of the globalization process. • They are familiar with the most important international organizations (IMF, World Bank, WTO, etc.) and can assess their importance for international economic relations.
Content	<ul style="list-style-type: none"> • Balance of Payments Analysis • Currency theory and policy • international trade in goods and services • international capital flows • Effects of globalization on industrialized and developing countries • international regulatory framework (global governance)
Relation to other modules	<p>The economic analysis of real and monetary aspects of international economic relations is relevant for all business administration courses, as globalization now touches all industries, company sizes and operational functions.</p>
Literature	<ul style="list-style-type: none"> • Appleyard, Dennis R./Field, Alfred J./Cobb, Steven L., International Economics • Feenstra, Robert C./Taylor, Alan M., International Economics. • Krugman, Paul/Obstfeld, Maurice, International Economics • Mankiw, Nicholas G./Taylor, Mark P., Basic Economics. • Wienert, Helmut, Grundzüge der Volkswirtschaftslehre, Vol. 2: Makroökonomie
Workload	<p>The lecture requires 4 x 15 SWS = 60 SWS attendance time. In addition, approx. 90 h are required for independent literature study, exercises, e-learning and exam preparation.</p>
Additional Remarks	<p>Successful completion of the module is a prerequisite for the modules THE4999 of the seventh semester (except for the degree programs "Business Administration / International Business" and "Business Administration / International Marketing").</p> <p>The module is also offered in English as part of the International Study Program. Credits earned in English will count toward the existing credit requirement in English.</p>
Keywords	<p>International economics, economics, foreign trade, economics</p>
Last edited	<p>August 2019</p>

AQM2060: INFERENCEAL STATISTICS AND QUANTITATIVE ANALYTICS

Inferential Statistics and Quantitative Analytics	
Module ID	AQM2060
Semester	3
Credits	5
SWS	4
Frequency	Every semester
Associated courses	AQM2061 Inferential Statistics (3 credits). AQM2062 Quantitative Analytics (2 credits)
Prerequisites	None
Assessment Methods and duration	Inferential Statistics: PLK - 60 minutes Quantitative Analytics: PLR/PLH/PLL - 60 minutes
Requirements for granting of credits	Inferential Statistics: Successful passing of the examination performance Quantitative Analytics: Successful passing of the examination performance
Significance for the Final Grade	The module is weighted with its credits in the Bachelor final grade.
Planned group size	Fundamentals of inductive statistics: max. 200 students. Operations Research: max. 100 students
Language	English
Module Duration	1 semester
Module Coordinator	Kuhlenkasper, Torben
Lecturers	Professors of the Department of Quantitative Methods
Subject area	Quantitative methods
Applicability in other modules / courses of study	All business administration courses, except BBA / International Marketing
Pedagogical Approach	Lectures with exercises
Objectives	Inferential Statistics The students...

	<ul style="list-style-type: none"> • understand simple procedures of inductive statistics and can implement them with R; • master the basic rules of probability theory; • know the concepts of probability distributions (chi-square, binomial, hypergeometric, Poisson, Student, normal and F-distributions) and can apply them to economic issues; • can calculate and interpret confidence intervals for means, variance and proportions; • can apply basic nonparametric tests; • can perform and interpret parametric one-sample and two-sample T-tests; <p>can perform and interpret the non-parametric chi-square test.</p> <p>Quantitative Analytics</p> <p>The students ...</p> <ul style="list-style-type: none"> • can represent course-specific problems in quantitative models, • can solve course-specific problems independently using an algorithmic approach, • know computer-assisted solutions to problems specific to the course of study.
<p>Content</p>	<p>Students will gain insight into probability theory, parameter estimation procedures, the various types of frequency procedures, hypothesis testing, and interpretation of the major parametric and non-parametric testing procedures.</p> <p>In the Quantitative Analytics course, the methods of Mathematical Optimization are supplemented by applied methods of business planning, whereby the respective topic focus depends on the composition of the respective platoon. Topics include transportation and location planning, simulation and queuing theory, portfolio approaches to strategy evaluation, methods for investment and financing planning, game theory for understanding cooperative and non-cooperative (economic) behaviour, etc. Emphasis is placed on demonstrating the solution methods on business problems and on their economic interpretation. For this purpose, a number of didactically useful examples from the planning practice of the respective functional areas of business administration will be discussed.</p>
<p>Relation to other modules</p>	<p>Methodological foundations are laid for the subjects of computer-aided management methods as well as for individual aspects of business administration of the second study section and the respective specialization.</p>
<p>Literature</p>	<p>Inferential Statistics</p> <ul style="list-style-type: none"> • Handl, A., Kuhlenkasper, T.: Einführung in die Statistik – Theorie und Praxis mit R, Heidelberg. • Bortz, J.: Statistik für Human- und Sozialwissenschaftler, Berlin et al. • Fahrmeier, L.: Statistics. Der Weg zur Datenanalyse, Berlin et al. • Zöfel, P.: Statistics for Social Scientists, Munich.

	<ul style="list-style-type: none"> • Schwarze, J.: Statistik 1, Statistik 2 und Aufgabensammlung, Berlin • Anderson, D. R., Sweeney, D.J., Williams T.A.: Statistics for Business and Economics, Mason <p>Quantitative Analytics</p> <ul style="list-style-type: none"> • Runzheimer, B., Cleff, T., Schäfer, W.: Operations Research Band 1: Lineare Planungsrechnung und Netzplanchnik, Wiesbaden • Gohout, W.: Operations Research, Munich, Vienna. • Domschke, W., Drexl, A.: Introduction to Operations Research, Berlin et al. • Homburg, C.: Quantitative Betriebswirtschaftslehre, Wiesbaden • Hillier, F. S., Lieberman, G. J.: Introduction to Operations Research, Boston u.a. • Taha, H. A.: An Introduction to Operations Research, New Jersey • Thonemann, U.: Operations Management, Munich
<p>Workload</p>	<p>Inferential Statistics: 2 x 15 SWS = 30 SWS attendance time, additionally approx. 60 h for preparation, independent literature study, exercises and internet/e-learning</p> <p>Quantitative Analytics 2 x 15 SWS = 60 SWS attendance time, additional approx. 30 h for preparation, independent literature study, exercises and internet/e-learning</p>
<p>Additional Remarks</p>	<p>Successful completion of the module is a prerequisite for the module THE4999.</p> <p>The course Inferential Statistics is also offered in the winter semester as part of the International Study Program as an English-language fast track with 4 SWS/week and an early exam before Christmas. If this course is held in English, a successful completion of 3 credits on the existing credit requirement in English is suggested.</p>
<p>Keywords</p>	<p>Linear programming (simplex), Corporate planning, Implementation of planning calculation, hypothesis testing, probability distributions, confidence intervals</p>
<p>Last edited</p>	<p>April 2023</p>

ECO2110: ADVANCED STUDIES AND APPLICATIONS IN ECONOMICS

Advanced Studies and Applications in Economics	
Module ID	ECO2110
Semester	3 + 4
Credits	5
SWS	3
Frequency	Every semester
Associated Courses	Semester 3: ECO2111 Scientific Writing; Media Competence and Information Research Semester 4: ECO2112 Seminar in Economic Policy
Prerequisites	Scientific Writing; Media Competence and Information Research: None. Seminar in Economic Policy: passing the PVL Scientific work; media competence, information acquisition/research.
Assessment Methods and duration	PVL + PLH + PLR
Requirements for granting of credits	For both courses: successful passing of the examinations in each case
Significance for the Final Grade	The module is included in the Bachelor's final grade with a weighting of 5 credits.
Planned group size	Scientific Writing; Media Competence and Information Research: plenary session (up to 350 participants) with tutorial exercises. Seminar in Economic Policy: max. 24 students
Language	English
Module Duration	2 semesters
Module Coordinator	Strotmann, Harald
Lecturers	Professors of the Department of Economics and Lecturers
Subject area / course of study	Economics
Applicability in other modules / courses of study	All business administration degree programs with the exception of the "BBA / International Marketing" degree program
Pedagogical Approach	Lecture/Workshop + Seminar

<p>Objectives</p>	<p>Changes in the economy as a whole and economic policy decisions have a considerable influence on the success of individual businesses. The economic modules are designed to give students the ability to independently assess the macroeconomic framework for individual economic activity. Such knowledge is indispensable for decision-making competence in many business management functions, especially for investment decisions, from which in turn other business management decisions are derived. The module consolidates the knowledge acquired so far by independently applying economic methods to a selected economic problem while observing the subject-specific rules of scientific work. In detail, the following objectives are pursued:</p> <ul style="list-style-type: none"> • You demonstrate mastery of the techniques of scientific work. You are competent in dealing with the media and are familiar with the targeted research, processing, preparation and communication of information. • You will independently apply your knowledge of economics to economic policy issues in the Economic Policy Seminar.
<p>Content</p>	<p>Scientific Writing (acquisition of the basics in the lecture and guided application in the tutorial exercises):</p> <ul style="list-style-type: none"> • Preparatory work for the seminar and final thesis • Literature research for the seminar and final paper • Literature acquisition, assessment and management • Discussions with the supervisor and other experts • Structuring the seminar paper and final paper • Manuscript preparation • Citation in a scientific paper • Manuscript Control <p>Seminar in Economic Policy (term paper on a selected economic issue and presentation and discussion of the central results in the seminar), e.g. from the following areas:</p> <ul style="list-style-type: none"> • Labor market policy and theory • Poverty and development • Economics of Education • Demography and economic development • Immigration in Germany and Europe • Energy policy in Germany and Europe • Financial market crises and banking supervision • Research and innovation policy • Monetary policy and theory • Globalization and competition between locations • Resource use and sustainability • Sports Economics • Entrepreneurship and Corporate Governance • Behavioural Economics • Monetary and fiscal policy

<p>Relation to other modules</p>	<p>The Seminar in Economic Policy builds on the three preceding Economics modules. The techniques of scientific work practiced in the Economic Policy Seminar through intensive supervision contribute significantly to the acquisition of methodological competence and the preparation of a qualified Bachelor thesis.</p>
<p>Literature</p>	<p>Scientific Writing:</p> <ul style="list-style-type: none"> • Brink, Alfred, Anfertigung wissenschaftlicher Arbeiten. A process-oriented guide to the preparation of bachelor's, master's and diploma theses. • Franck, Norbert/Stary, Joachim (eds.), The Technique of Scientific Work. A practical guide • Theisen, Manuel R., ABC des wissenschaftlichen Arbeitens. Successful in school, university and career • In addition, we recommend that you take a look at the homepage of the Department of Economics, where you will find further documents and literature references in addition to the faculty's guidelines for writing papers in economics under Studium/Wissenschaftliches Arbeiten. <p>Seminar in Economic Policy: depending on the specific seminar topic</p>
<p>Workload</p>	<p>The module requires 3 SWS x 15 = 45 SWS attendance time. Of these, 1 SWS x 15 are allocated to the course "Scientific Writing" (1 credit) and 2 SWS x 15 to the course " Seminar in Economic Policy" (4 credits). In addition, approx. 105 h are required for preparation, independent literature study, preparation of the term paper and preparation of the seminar presentation. Of these, 15 h are allotted to the course "Scientific Writing" and 90 h to the course " Seminar in Economic Policy".</p>
<p>Additional Remarks</p>	<p>Successful completion of the module is a prerequisite exam for the module THE4999.</p> <p>The competences taught in the course "Scientific Writing; Media Competence and Information Recherche " will be examined separately by means of a preliminary examination; without passing this examination, students will not be admitted to the seminar.</p> <p>Registration for the Seminar in Economic Policy and the assignment of topics takes place in the pre-semester. The majority of the term paper is written during the semester break.</p> <p>The Seminar in Economic Policy is also offered in English. Seminar credits earned in English will count toward the existing 5 credit requirement in English.</p>
<p>Keywords</p>	<p>Scientific Writing, economic policy seminar, seminar, economics</p>
<p>Last edited</p>	<p>August 2019</p>

GMT2350: FINANCIAL ACCOUNTING AND FINANCIAL MANAGEMENT

Financial Accounting and Financial Management	
Module ID	GMT2350
Semester	4 (but see notes)
Credits	7
SWS	6
Frequency	Every semester
Associated courses	GMT2351 Financial Accounting and Financial Management I (3 credits) GMT2352 Financial Accounting and Financial Management II (4 credits)
Prerequisites	None
Assessment Methods and duration	PLK - 90 minutes
Requirements for granting of credits	Successful passing of the examination performance
Significance for the Final Grade	The module is weighted with its credits in the Bachelor final grade.
Planned group size	max. 80 students
Language	English
Module Duration	1 semester
Module Coordinator	Eichner, Korbinian
Lecturers	Professors of the ABWL Department
Subject area / course of study	General business administration
Applicability in other modules / courses of study	All study programs
Pedagogical Approach	Lecture with exercises
Objectives	The students... <ul style="list-style-type: none"> • know the legal and business fundamentals of the preparation of commercial and international financial statements and • can assess the informative value of the financial statements.

	<ul style="list-style-type: none"> • can analyze the parts of a financial statement and assess and propose accounting policy measures. • know the essential criteria for assessing the profitability of operational investments and can apply, evaluate and compare methods of investment appraisal. • know the essential sources of financing of the company. They can assess the various sources in terms of their prerequisites and their advantages and compare them qualitatively and quantitatively in terms of their effects on the company's results. • know the main instruments of credit protection and can determine the capital requirements and debt servicing capacity of a company.
Content	<ul style="list-style-type: none"> • Fundamentals of the annual financial statements (legal basis, tasks and elements, recognition and measurement principles) • Balance Sheet, Income Statement, Notes and Management Report • Balance sheet analysis and balance sheet policy • Operational investment management • Financial planning and capital structure design • External and internal financing • Credit protection, debt service capability • Fundamentals of international accounting (IAS / IFRS)
Relation to other modules	Builds on the business administration modules of the first study section
Literature	<ul style="list-style-type: none"> • Bacher, U.: Bilanzierung, Investition und Finanzierung, nwb-Verlag • Coenenberg, A.: Jahresabschluss und Jahresabschlussanalyse, Verlag Moderne Industrie • Däumler, K.-D.: Betriebliche Finanzwirtschaft, Verlag NWB • Hillier, D. et al, Corporate Finance, McGraw-Hill. • Meyer, C.: Bilanzierung nach Handels- und Steuerrecht, Verlag NWB • Nothelfer, R.: Financial Accounting, De Gruyter Oldenbourg • Nothelfer, R. et al: Übungsbuch zur Finanzwirtschaft, Oldenbourg • Olfert/Reichel: Financing, Friedrich Kiehl Verlag • Perridon, L. and Steiner, M.: Finanzwirtschaft der Unternehmung, Verlag Vahlen • Schildbach/Stobbe/Brösel: Der handelsrechtliche Jahresabschluss, Sternfels Verlag Wissenschaft und Praxis • Zantow, R.: Financing, Pearson
Workload	6 x 15 = 90 SWS attendance time still 120 h for preparation, independent literature study, exercises and accompanying work
Additional Remarks	The module is offered for the study programs "Business Administration / Taxes and Auditing" and "Business Administration / International Marketing" in semesters 2 +3, for the study program "Business Administration / Controlling, Finance and Accounting" it is already offered in semester 3.

	<p>Successful completion of the module is a prerequisite for the THE4999 module.</p> <p>The module is also offered in English at least once a year in the summer semester as part of the International Study Program. The credits achieved in English will be counted towards the existing credit requirement in English.</p>
Keywords	Accounting, Financial Management, Financing Investment, Financial Management
Last edited	March 2023

GMT3100: BUSINESS MANAGEMENT

Business Management	
Module ID	GMT3100
Semester	5 and 6
Credits	5
SWS	4
Frequency	Every semester
Associated courses	Semester 5: GMT3025 Management Simulation (2 credits) Semester 6: GMT3013 Strategic Management (3 credits)
Prerequisites	Completed first stage of studies
Assessment Methods and duration	Management Simulation: UPL Strategic Management: PLK - 60 minutes
Requirements for granting of credits	Management Simulation: successful passing of the examination performance Strategic Management: successful passing of the examination performance
Significance for the Final Grade	The ungraded examination performance (Management Simulation) is not included in any grade. The remainder of the module is included in the Bachelor's final grade with a weighting of 3 credits.
Planned group size	Management Simulation: max. 25 students Strategic Management: max. 80 students
Language	Management Simulation: English Strategic Management: English
Module Duration	2 semesters
Module Coordinator	Foschiani, Stefan; Terporten, Michael
Lecturer(s)	Professors of the ABWL Department
Subject area / course of study	General Business Administration
Applicability in other modules / courses of study	All degree programs with the exception of BBA/International Marketing
Pedagogical Approach	Management Simulation: Business game Strategic Management: Lecture with case study
Objectives	The students

	<ul style="list-style-type: none"> • understand the process of developing appropriate business objectives and managing their implementation in practice (management - process). • Understand the company as a customer-oriented value creation process • know methods for its analysis and improvement. • are familiar with various management principles, techniques and models and can assess and apply their advantages and disadvantages as well as their impact on the management and results of a company. • have a holistic view of a commercially managed company and can assess the consequences of business decisions on the company's results. • know basic strategies for increasing corporate value and know how to apply these to corporate functions. • possess skills for the goal-oriented management of a company (especially business planning processes), as well as for dealing with team conflicts and complex decision-making situations that have to be mastered under time pressure and uncertain future expectations.
<p>Content</p>	<p>This course "Corporate Governance" considers the strategic problems that a company faces and the current explanatory principles and tools that lead to a solution. The main topics are: Introduction to Strategic Management, the strategic options, the operational audit, the analysis of the performance chain, benchmarking, the analysis of the industry, competitive analysis, evaluation of the strategic position, the forecast of the future as well as the corporate culture and mission statement.</p>
<p>Relation to other modules</p>	<p>Builds on the previous business administration modules.</p>
<p>Literature</p>	<p>A participant manual is provided for the Management Simulation.</p> <p>Strategic Management:</p> <ul style="list-style-type: none"> • Barney / Hesterly (2012): Strategic Management and Competitive Advantage, Pearson • Bea, F.X./Haas, J.: Strategisches Management, Verlag Lucius & Lucius • Grant, R. M., "Contemporary Strategy Analysis", Blackwell Publishing • Johnson, G./ Whittington, R./Scholes, K./ Angwin, D./ Regner, P. (2013): Exploring Corporate Strategy, Pearson • Johnson, G. und Scholes, K. and Whittington, R., Exploring Corporate Strategy 8th Edition, Prentice Hall • Korndörfer, W.: Unternehmensführungslehre, Gabler • Kotler / Berger / Bickhoff (2010): The Quintessence of Strategic Management, Berlin / Heidelberg • Mintzberg, H./Lampel, J./Quinn, J./Ghoshal, S.: The Strategy Process, Prentice Hall. • Steinmann, H./Schreyögg, G.: Management, Schäffer-Poeschel

	<ul style="list-style-type: none"> • Welge, M. and Al-Laham, A.: Strategic Management: Fundamentals, Process, Implementation, Gabler - Verlag <p>Latest edition in each case</p>
Workload	In addition to the 4 x 15 = 60 SWS attendance time (over 2 semesters), students are expected to spend an additional 90 h for preparation, independent literature study, exercises and accompanying work.
Additional Remarks	<p>The Management Simulation takes place as part of the practical semester of the degree programs as a block event during the lecture-free period. It takes place in small groups, so that number of participants is limited. Advance registration is required.</p> <p>The sub-performance "Strategic Management" can also be completed as part of an equivalent performance during a semester of study abroad.</p> <p>The module is also offered in English as part of the International Study Program; participation restrictions apply to the Business Simulation sub-credit. Credits earned in English will count towards the existing credit requirement in English. Please note that not every semester an English-language course is offered and that the number of English-language seminar places is limited in any case.</p>
Keywords	Corporate Governance, Management
Last edited	April 2023

GMT3400: MANAGEMENT IN SPECIFIC INDUSTRIES

Management in Specific Industries	
Module ID	GMT3400
Semester	6
Credits	6
SWS	5
Frequency	Every semester
Associated courses	<p>Selection from (6 credits each):</p> <ul style="list-style-type: none"> • GMT3404 Business Administration of Industry in the Digital Age • GMT3405 Business Administration of Banks in the Digital Age • GMT3406 Business Administration of Mobility in the Digital Age • GMT3424 Retail Management in the Digital Age (in English) • GMT3425 International Management in the Digital Age (in English) • GMT3426 Investment Banking, Corporate Finance and Digital Skills (in English) • IDS3010 Interdisciplinary Studies <p>Deviating/additional offers are possible.</p>
Prerequisites	Completed first stage of studies
Assessment Methods and duration	PLK - 90 minutes (for IDS3010 depending on the courses taken by the Faculty of Engineering).
Requirements for granting of credits	Successful passing of the exam
Significance for the Final Grade	The module is weighted with its credits in the Bachelor final grade.
Planned group size	max. 80 students
Language	English
Module Duration	1 semester
Module Coordinator	Sander, Frauke
Lecturers	Professors of the ABWL Department

Subject area / course of study	General Business Administration
Applicability in other modules / courses of study	All degree programs with the exception of BBA/International Marketing
Pedagogical Approach	Lecture with exercises
Objectives	<p>The students can apply the so far acquired knowledge and skills to the management of a company in a specific industry (such as manufacturing, retail, banking). They know the special conditions and problems of doing business in the respective industry and can therefore also take on initial projects and management tasks relatively quickly.</p> <p><u>Business Administration of Industry in the Digital Age</u> The students</p> <ul style="list-style-type: none"> • can apply the knowledge and skills acquired in the previous business administration modules to the management of a manufacturing company. • are familiar with the special conditions and problems of doing business in this industry and are therefore able to take on their first professional and personal management tasks relatively soon. <p><u>Business Administration of Banks in the Digital Age</u> The students</p> <ul style="list-style-type: none"> • can apply the knowledge and skills acquired in previous business studies to the management of a financial institution. • know the investment objectives and can assess and evaluate all common forms of investments (deposits, bonds, shares, investment funds, derivatives). • can apply a bank's credit services to companies and their accounting systems. • know the essential instruments of loan protection/ credit risk mitigation. • can determine a company's debt service capacity and thus arrive at a sound credit assessment. • are familiar with the interdependencies and the special conditions of the banking industry and can therefore take on their first professional and personal management tasks in this field relatively quickly. <p><u>Business Administration of Mobility in the Digital Age</u> The students</p> <ul style="list-style-type: none"> • can apply the knowledge and skills acquired in the previous business administration modules. • acquire knowledge about the special conditions, problems and technical terms of economic work in companies of the mobility industry (especially the automotive industry) • are proficient in methods of R&D management, production control and logistics

- and therefore have the qualifications to take on their first professional and personal management tasks relatively quickly.

Retail Management in the Digital Age (English only):

The students

- know the institutional characteristics of retail companies (retailers are service providers),
- are familiar with typical tasks and problems in retail companies, such as site selection, customer-oriented product range development, brand policy, employee management, especially in sales,
- obtain knowledge in the management of commercial enterprises and service enterprises

International Management in the Digital Age (English only):

The students:

- know the possible forms of the internationalization process of a company and can work successfully in an international environment.
- are able, based on the knowledge and skills acquired, to market products and services internationally and to handle the necessary financing processes accordingly.
- are familiar with the special conditions and problems of internationally operating companies and can therefore take on their first professional and personal management tasks in this area relatively quickly.

Investment Banking, Corporate Finance and Digital Skills

Upon completion of the module, students will possess:

- An overview of the objectives and main subject areas of corporate finance,
- An understanding of how investment banking can assist in achieving these objectives,
- A solid understanding of how to identify and evaluate value enhancement potential of capital projects,
- the ability to approximate the value of a company from an income, cost and market value perspective,
- An in-depth understanding of long-term corporate finance with equity and debt instruments,
- An understanding of how a company's capital structure decision affects its enterprise value.
- In-depth knowledge of specialized areas of Corporate Finance Mergers & Acquisitions, Corporate Restructurings, LBOs and Corporate Governance.

Interdisciplinary studies

The students

- broaden their horizons by taking courses offered by the faculty of engineering
- know technical/IT framework conditions of the industry

<p>Content</p>	<p>Special business administration:</p> <p><u>Business Administration of Industry in the Digital Age</u> The lecture focuses on the topics "Research and Development in Manufacturing" as a key function for future competitiveness, as well as production and logistics in the context of increasing globalization.</p> <p><u>Business Administration of Banks in the Digital Age</u> This lecture covers, among other things, the special features of credit institutions institutions and their regulations as well as the banking system in Germany. In addition, the various forms of investments (deposits, bonds, shares, etc.) and the credit business (forms of credit, loan expiration, security, credit-worthiness) are dealt with, with particular emphasis on typical banking risks, especially interest rate and credit risk.</p> <p><u>Business Administration of Mobility in the Digital Age</u> In the first part, Prof. Dr. Haugrund deals with topics relating to the beginning of the value chain in the automotive industry. Starting with fundamental questions about future global mobility, areas of responsibility for strategic R&D in the automotive industry are mapped out. Subsequently, questions of R&D management are dealt with in detail. Selected focal points of the areas of production and logistics at suppliers as well as at OEMs round off the first part of the lecture. Building on this, Prof. Dr. Terporten focuses on the subsequent part of the value chain such as sales and aftersales organizations. The discussed topics go beyond the automotive industry and shed light on the challenges of mobility management as a whole.</p> <p><u>Retail Management in the Digital Age (English only):</u> This course covers the fundamentals of retail management. The functions, trade marketing, procurement and logistics, employee management and corporate management are deepened specifically for this industry. Practical examples and projects are used to work out specific tasks in retail companies.</p> <p>The course is aimed at students who wish to work professionally in a retail company. It is also aimed at students who will work in sales and marketing in companies whose customers are trading companies. Due to the proximity of retail services to services, you will also gain insight into the specific characteristics of service companies.</p> <p><u>International Management in the Digital Age (English only):</u> This lecture deals with the internationalization process of the company, international marketing and the legal framework of foreign activities.</p> <p><u>Investment Banking, Corporate Finance and Digital Skills</u> In the course Prof. Dr. Eichner deals with the following topics: Principles of Investment Banking, Principles of Corporate Finance, Capital Budgeting and Value Creation, Corporate Valu-</p>
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	<p>ation, Capital Structure and Policy Structure, Mergers & Acquisitions and Capital Restructuring, LBOs and Corporate Governance.</p> <p>The Investment Banking and Corporate Finance course aims to provide students with analytical skills to make corporate finance decisions in practice from a corporate value enhancement perspective.</p> <p><u>Interdisciplinary studies</u></p> <p>The contents taught depend on the chosen course: For the module, different modules predefined on the part of the department "General Business Administration" or courses of other faculties can be provided.</p>
<p>Relation to other modules</p>	<p>Builds on the previous business administration modules.</p>
<p>Literature</p>	<p>Depending on the special business administration offered, latest edition in each case:</p> <p><u>Business Administration of Industry in the Digital Age</u></p> <ul style="list-style-type: none"> • Günter Specht/Christoph Beckmann/Jenny Amelingmeyer: R&D Management, Competence in Innovation Management • Dietmar Vahs/Ralf Burmester: Innovationsmanagement, Von der Produktidee zur erfolgreichen Vermarktung, Edited by Bernd P. Pietschmann and Dietmar Vahs, • Klaus Brockhoff, Research and Development, Planning and Control <p><u>Business Administration of Banks in the Digital Age</u></p> <ul style="list-style-type: none"> • Bacher, U.: Bank Management, Hartung-Gorre • Becker/Peppmeier: Banking Management, Ludwigshafen • . • Hartmann-Wendels/Pfingsten/Weber: Bankbetriebslehre, Springer • Steiner/Bruns: Securities Management, Stuttgart <p><u>Business Administration of Mobility in the Digital Age</u></p> <ul style="list-style-type: none"> • Günter Specht/Christoph Beckmann/Jenny Amelingmeyer: R&D Management, Competence in Innovation Management • Dietmar Vahs/Ralf Burmester: Innovationsmanagement, Von der Produktidee zur erfolgreichen Vermarktung, Edited by Bernd P. Pietschmann and Dietmar Vahs • Klaus Brockhoff: Research and development, planning and control

- Salima Sheila Douven: Brand effects in the automotive supply industry: A cross-cultural comparison considering alternative marketing orientations by Salima Sheila Douven, Wiesbaden.
- Hans G Brunn: Globalization and Product Life Cycles in the Automotive Sector: Methods, Concepts and Results from an Econometric Perspective, 2009.
- Andreas Crone and Henning Werner: Crisis Management in the Automotive Supply Industry, Berlin 2008
- Dusan Gruden: Environmental Protection in the Automotive Industry: Engine, Fuels, Recycling, 2008
- Oliver Kertész and Klaus M. Miller: Brand Equity in the Automotive Industry: Willingness to Recommend and Price Premium Acceptance, 2007
- Helmut Becker: Ausgebremst: Wie die Autoindustrie Deutschland in die Krise fährt, 2007
- Hannes Brachat, Willi Dietz, and Stefan Reindl: Fundamentals of Automotive Economics, 2005
- Becker, H. 2007, Auf Crashkurs. Automobilindustrie im globalen Verdrängungswettbewerb, Berlin Heidelberg.
- Ebel, B. (Ed.): Automotive Management. Strategie und Marketing in der Automobilwirtschaft; mit 34 Tabellen, Berlin 2004.

Retail Management in the Digital Age (English only):

- Berman, Berry/Evans, Joel R., Retail Management: A Strategic Approach, Upper Saddle River (NJ)
- Dunne, Patrick/ Carver, James/ Lusch, Robert F.: Retailing, Thomson South-Western
- Levy, Michael/Weitz, Barton A./Grewal, Dhruv: Retailing Management, 9th ed. McGraw-Hill
- MunichMüller-Hagedorn, Lothar (1998), Der Handel, Stuttgart
- Tietz, Bruno (1993), The Trading Company, Munich

International Management in the Digital Age (English only):

- Czinkota, M.R., Ronkainen, I.A. et. al, International Business.
- Griffin, R.W., Pustay, M.W., International Business.
- Hollensen, S. (2014): Global Marketing, Pearson
- Johannson, J.J., Global Marketing

Investment Banking, Corporate Finance and Digital Skills

- Berk, J./DeMarzo, P.: Corporate Finance, Addison Wesley.
- Brealey, R./Myers, S./Allen, F.: Principles of Corporate Finance, McGraw-Hill.
- Damodaran, A.: Applied Corporate Finance, Wiley.
- Damodaran, A.: Investment Valuation, Wiley.
- Häcker, J./Ernst, D.: Applied International Corporate Finance, Vahlen.
- Ross, S./Westerfield, R./Jaffe, J.: Corporate Finance, McGraw-Hill.

	<ul style="list-style-type: none"> Vernimmen, P./Quiry, P./Dallocchio, M./Le Fur, Y./Salvi, A.: Corporate Finance - Theory and Practice, Wiley. <p><u>Interdisciplinary studies</u> Depending on the specific subject chosen</p>
Workload	5 x 15 = 75 SWS contact hours and 105 h for preparation, independent literature study, exercises and accompanying work
Additional Remarks	<p>At least three elective courses are offered each semester, at least one of which is in English.</p> <p>The module may also be taken as part of an equivalent performance during a semester of study abroad.</p> <p>English language electives are offered as part of the International Study Program. Credits earned in English will count toward the existing credit requirement in English.</p>
Keywords	Retail Banking, International Business Simulation
Last edited	April 2023

GMT4100: ADVANCED TOPICS IN MANAGEMENT

Advanced Topics in Management	
Module ID	GMT4100
Semester	6
Credits	5
SWS	2
Frequency	Every semester
Associated courses	GMT4101 Management Seminar
Prerequisites	Completed first stage of studies
Assessment Methods and duration	PLR/PLH/PLP/PLM
Requirements for granting of credits	Successful completion of the examination
Significance for the Final Grade	The module is weighted with its credits in the Bachelor final grade.
Planned group size	max. 24 students
Language	English
Module Coordinator	Nothhelfer, Robert
Lecturers	Professors of the ABWL department and lecturers
Subject area / course of study	General Business Administration
Applicability in other modules / courses of study	All business degree programs, except BBA/Digital Enterprise Management.
Pedagogical Approach	Seminar teaching
Objectives	Within a short period of time, students are able to familiarize themselves with specific, complex economic issues, penetrate and analyze them, and come up with their own solutions. They understand how to summarize and professionally present the solutions in writing, both scientifically and for practical implementation.
Content	Selected scientific and practice-oriented topics from the field of business administration
Relation to other modules	Builds on the courses of the previous business administration modules.

Literature	Depending on the topics offered in each case
Workload	2 x 15 = 30 SWS attendance time and 120 h for preparation, independent literature study, exercises and accompanying work (esp. scientific paper and presentation).
Additional Remarks	<p>The module takes place in small groups, there are limitations on the number of participants. Pre-registration is required. Immediately following pre-registration, attendance at a kick-off event is mandatory.</p> <p>There are two timed formats for the module:</p> <ul style="list-style-type: none"> • The module is offered in the 7th semester as a block within the first 6 or 7 weeks of lectures. The topics are assigned at the end of the lecture period of the previous semester, so that the majority of the homework can be completed during the lecture-free period. • In addition, the seminar is also offered in the last half of the lecture period, in which case registration for this seminar takes place at the beginning of the lecture period. The target group of this seminar format are students who are not yet back at the university at the end of the pre-semester, e.g. due to a semester abroad or internship. <p>The module can also be taken as part of an equivalent performance during a semester of study abroad. If the seminar performance is provided in English, the credits will be counted towards the existing credit requirement in English. Please note that English-language courses are not offered every semester and that the number of English-language seminar places is limited in any case.</p>
Keywords	Corporate Governance, Management
Last edited	April 2023

ESR3100: ETHICS AND SOCIAL RESPONSIBILITY

Ethics and Social Responsibility (electives)	
Module ID	ESR3100
Semester	6
Credits	5
SWS	4
Frequency	Every semester
Associated Courses	Electives: <ul style="list-style-type: none"> • ESR3101 Business Ethics: Economic and Social History Perspectives. • ESR3102 Business Ethics (in English) • ESR3103 Environmental Management • ESR3104 Sustainable Development • ESR3105 Sustainable Development (in English) • ESR3106 Ethics, Business and Society (in English) • ESR3107 Corporate Environmental and Sustainable Management (in English) • ESR3108 Ethics, Business and Society (Other / alternative events possible)
Prerequisites	Completed first stage of studies
Assessment Methods and duration	PLK/PLR/PLH/PLM; PLK - 60 minutes
Requirements for granting of credits	Successful completion of the examination
Significance for the Final Grade	The module is weighted with its credits in the Bachelor final grade.
Planned group size	max. 80 students
Language	English
Module Duration	1 semester
Module Coordinator	Volkert, Jürgen
Lecturers	Professors of the Faculty of Economics and Law, especially from the Department of Economics
Subject area	Economics

Applicability in other modules / courses of study	All Business Administration Courses
Pedagogical Approach	Lecture with exercises
Objectives	Expansion of the economic value perspective to include ethical and social perspectives as well as their consequences for the increasingly significant social responsibility of companies in - globalization. The aim is to impart fundamental knowledge and skills for dealing with different demands on companies as well as approaches for expanded value and conflict management.
Content	<p>The course is offered as an elective with the aforementioned specializations. All specializations deal with questions of corporate responsibility against the background of different value concepts and social demands in different cultures. The resulting restrictions and conflicts for entrepreneurial action as well as different alternatives for their goal-oriented consideration are discussed.</p> <p>In the specialization ESR3102/ESR3106/ESR3108, the importance of different values and norms for companies and society are discussed. The focus is on the goal-oriented handling of conflicts and dilemma situations with the help of ethics management systems, while at the same time clarifying the importance of order and individual ethics. Furthermore, special ethical challenges and strategies for the perception of corporate responsibility in globalization are discussed.</p> <p>In the specialization ESR3103/ESR3107, the consideration of ecological requirements in entrepreneurial activities is dealt with from an operational perspective. The focus is on sustainable development and the consequences this has for the economy. Conflicts of objectives are highlighted and solution strategies as well as concrete decision-making instruments are presented as examples.</p> <p>The specialization ESR3104/3105 provides insights into socio-economic processes and challenges regarding the need for sustainable development. The focus of the course is on the economic and social aspects of sustainability and their interrelationships. Students will understand the opportunities, challenges and responsibilities that arise from good governance, from society, from firms and from the national economy. Another goal is the competent handling of globalization criticism.</p> <p>The specialization "ESR3101 addresses social and economic conflicts from a historical context. It shows long-term economic and social structures in society, which are important for understanding today's economic and socio-political conflicts and an economic and social policy based on them.</p>
Workload	Contact time 4 x 15 = 60 SWS and self-study to the extent of 90 h
Additional Remarks	The module may also be taken as part of an equivalent performance during a semester of study abroad.

	English language modules are also offered in English as part of the International Study Program. Seminar credits earned in English will count toward the existing credit requirement in English.
Last edited	August 2019

INS3020: INTERNSHIP SEMESTER

Internship Semester	
Module ID	INS3020
Semester	5
Credits	28
SWS	2
Frequency	Every semester
Associated courses	Internship (26 credits) Accompanying course of the internship (2 credits)
Associated Courses	Registration for the internship semester takes place ex officio at the beginning of the 4th semester of study. If the first study section has not been completed at the beginning of the 4th semester, the internship semester will be compulsorily postponed and cannot be started in the 5th semester.
Prerequisites	Accompanying lecture to the practical semester: UPL / Participation
Assessment Methods and duration	The Internship semester must be evidenced by an internship contract of at least 100 working days (after adjustment for vacation/illness) and internship reports. The Accompanying course of the internship for the practical semester requires a successful passing of the examination performance and participation
Requirements for granting of credits	The module does not count towards the bachelor's final grade.
Planned group size	Internship: not applicable Accompanying course of the internship: max. 80 students
Language	Englisch
Module Duration	1 semester
Module Coordinator	Depending on the course of study
Lecturers	Professors of the university
Subject area	Respective study program
Applicability in other modules / courses of study	Depending on the course of study

Pedagogical Approach	Seminar-based teaching (Accompanying lecture)
Prerequisite modules / courses	Completed first stage of studies (=entry requirement for internship semester)
Objectives	<p>Students</p> <ul style="list-style-type: none"> • learn to navigate the environment of their internship site • are able to apply the skills they have acquired during their previous studies • get to know the fields of application of the previous study contents and expand their knowledge
Content	The internship semester must be completed in an occupational field appropriate to the occupational field of the respective degree program. An internship abroad is possible.
Literature	None
Workload	<p>The internship semester consists of 26 credits and requires a period of at least 100 working days in the internship.</p> <p>The accompanying block course requires a total of 30 SWS attendance time. In addition, approx. 30 h are required for their preparation.</p>
Additional Remarks	<p>The internship semester can be postponed upon request via the respective internship semester supervisor in the degree program, e.g. in order to bring forward a semester of study abroad.</p> <p>An internship abroad is <u>not</u> recognized under the International Study Program and <u>cannot</u> be counted toward the existing credit requirement in English.</p>
Last edited	August 2019

EXA4999: FINAL EXAMINATIONS

Final Examinations	
Module ID	EXA4999
Semester	7
Credits	5
SWS	2
Frequency	Every semester
Associated Courses	Scholarly Colloquium (2 credits) Oral Examination (oral exam) (3 credits)
Prerequisites	Successful completion of the first study section Enrollment is only possible from the 6th semester onwards.
Assessment Methods and duration	COL4999 Scholarly Colloquium: UPL / Attendance. ORA4999 Bachelor Examination: PLM
Requirements for granting of credits	Scholarly Colloquium: Participation Bachelor examination: successful passing of the examination performance
Significance for the Final Grade	The Scholarly Colloquium does not count towards the bachelor's degree grade, while the oral bachelor's examination counts towards the bachelor's degree grade with a weighting of 3 credits.
Planned group size	max. 3 students
Language	Scholarly Colloquium: English Bachelor Examination (oral exam): English
Module Duration	1 semester
Module Coordinator	Respective program director
Lecturer(s)	All courses and fields of study
Subject area / course of study	Respective dean of studies/program director
Applicability in other programs	All business administration courses
Pedagogical Approach	Scholarly Colloquium: teaching talk

<p>Objectives</p>	<p>Scholarly Colloquium: The students</p> <ul style="list-style-type: none"> • discuss the essential contents of the planned bachelor thesis with the first reviewer • are able to present the most important aspects of the chosen topic, engaging in critical discussion. • structure the chosen topic in a meaningful way <p>Oral Examination: The students</p> <ul style="list-style-type: none"> • are able to answer questions regarding the content of their major in particular
<p>Content</p>	<p>Scholarly Colloquium: Presentation of the contents of the planned or just started bachelor thesis and its critical discussion with the first examiner</p> <p>Oral Examination: Reflection, esp. of the contents of the study program emphasis</p>
<p>Relation to other modules</p>	<p>Final event for the modules of the respective study program</p>
<p>Literature</p>	<p>Depending on the course of study and topic of the final thesis</p>
<p>Workload</p>	<p>Scientific colloquium: 60h</p> <p>Bachelor Examination (oral exam): 90 h for preparation / self-study</p>
<p>Additional Remarks</p>	<p>The oral Bachelor examination requires separate registration with the examination office.</p> <p>The " Scholarly Colloquium" can also be completed in English. However, credits earned in English will only count towards the existing credit requirement if the thesis was also written in English.</p>
<p>Keywords</p>	<p>Thesis preparation, final exam</p>
<p>Last edited</p>	<p>August 2019</p>

THE4999: THESIS

Thesis	
Module ID	THE4999
Semester	7
SWS	None
Frequency	Anytime
Associated course	- (Thesis)
Prerequisites	1. Completed first study section and Completion of coursework in the 3rd and 4th semesters of study.
Assessment Methods and duration	PLT
Requirements for granting of credits	Passing the examination performance
Significance for the Final Grade	The module is included in the Bachelor's final grade with a weighting of 12 credits.
Planned group size	Not applicable
Language	English
Module Duration	3 months
Module Coordinator	Respective dean of studies/program director
Lecturers	Professors of the university
Subject area	All courses and fields of study
Applicability in other modules / courses of study	All business administration courses
Pedagogical Approach	Scientific work
Objectives	Students will be able to <ul style="list-style-type: none"> • work on a topic scientifically and to analyze its aspects critically • develop possible solutions
Contents	Preparation of a comprehensive scientific paper (thesis)

Relation to other modules	Depends on the chosen topic
Literature	Depends on the chosen topic
Workload	360 hours of self-study/thesis preparation
Additional Remarks	The duration of the thesis is three months. If the thesis is written in English, its credits will count toward the credit requirement in English.
Keywords	Thesis
Last edited	August 2019

Second study section – Program specific modules

DBM2100: BUSINESS PROCESS ENGINEERING

Business Process Engineering	
Module ID	DBM2100
Semester	3
Credits	7
SWS (contact h per week)	6
Frequency	Once a year, winter term
Associated Courses	DBM2101 Fundamentals of Process Analysis (2 SWS / 2 Credits) DBM2102 Process Mining (4 SWS / 5 Credits)
Prerequisites	-
Assessment Methods	PLP/PLH/PLK - 60 minutes
Requirements for granting of credits	Passing the respective examination in the associated courses
Significance for the Final Grade	The module is weighted with its credits in the Bachelor's final grade.
Planned Group Size	DBM2101 Fundamentals of Process Analysis max. 50 students per group DBM2102 Process Mining max. 25 students per group
Language	English
Modul duration	1 Semester
Modul coordinator	Mario Boßlau
Lecturer(s)	Berbig, Dominik; Morelli, Frank; (NG); (NG)
Discipline	Digital Business Management
Teaching approach	Seminary teaching
Applicability in other programs	Offered at the same time in the Bachelor's degree programs: Business Administration / Business Informatics Business Administration / Purchasing, Logistics and Supply Chain Management
Objectives	<u>DBM2101 Fundamentals of Process Analysis</u>

	<p>Students...</p> <ul style="list-style-type: none"> • understand process analysis techniques, • evaluate the performance of business processes, • identify opportunities for process improvement, • use process analysis to drive business decisions, and • understand the role of process analysis in process management. <p><u>DBM2102 Process Mining</u></p> <p>Students...</p> <ul style="list-style-type: none"> • understand the principles of process mining, • understand algorithms behind process mining, • know how to discover processes from event log data, • check process conformance and enhance process models, • apply process mining techniques in business contexts, and • understand the role of process mining in process management. <p>The module primarily serves to the following competencies: Knowledge Broadening, Knowledge Deepening, Knowledge Comprehension, Application and Transfer, Communication and Collaboration Skills, Academic Integrity and Professionalism</p>
<p>Content</p>	<p><u>DBM2101 Fundamentals of Process Analysis</u></p> <ul style="list-style-type: none"> • Introduction to Process Analysis: Understanding the importance and role of process analysis in organizations. • Process Measurement: Learning how to define and measure key performance indicators (KPIs) for processes. • Process Automation including an introduction to Robotic Process Automation (RPA). • Process Metrics & Algorithms: Checking properties and improving of processes • Tools for Process Analysis: Practical work with popular process analysis tools and software. • Case Studies and Applications: Analysis of real-world examples to understand the application of process analysis. <p><u>DBM2102 Process Mining</u></p> <ul style="list-style-type: none"> • Introduction to Process Mining: Overview and importance. • Process Discovery: Core of process mining. Techniques and algorithms like the Alpha-algorithm, Heuristics Miner, and Inductive Miner. • Conformance Checking: Comparison of discovered and expected models. • Process Enhancement: Improvement of existing processes. • Process Mining Tools: Practical work with tools like ProM, Disco, and Celonis. • Advanced Techniques: Topics like trace clustering, genetic process discovery, and multi-perspective process mining.
<p>Relation to other Modules</p>	<p>None</p>
<p>Literature</p>	<p><u>DBM2101 Fundamentals of Process Analysis</u></p>

	<ul style="list-style-type: none"> • N. Russell, W. M. P. V. D. Aalst, and A. H. M. T. Hofstede, Workflow Patterns: The Definitive Guide, 1st ed. Cambridge, MA: The MIT Press, 2016. • Weske, M. (2019). Business Process Management: Concepts, Languages, Architectures. Springer • Jeston, J. (2022). Business Process Management: Practical Guidelines to Successful Implementations. Taylor & Francis. <p><u>DBM2102 Process Mining</u></p> <ul style="list-style-type: none"> • van der Aalst, W. M. P. (2018). Process Mining: Data Science in Action. Springer. • Reinkemeyer, L. (2020). Process Mining in Action: Principles, Use Cases and Outlook, Springer. • Ferreira, D. R. (2020). A Primer on Process Mining: Practical Skills with Python and Graphviz (2nd ed. 2020 Edition). Springer. • Leemans, S. J. J. (2022). Robust Process Mining with Guarantees: Process Discovery, Conformance Checking and Enhancement (1st ed. 2022 Edition). Springer. <p>The latest edition in each case</p>																								
Workload	<p><u>DBM2101 Fundamentals of Process Analysis</u></p> <table border="1" data-bbox="636 1025 1362 1122"> <tr> <td>Contact time</td> <td>(2 x 15h)</td> <td>30</td> <td>h</td> </tr> <tr> <td>Case study</td> <td></td> <td>30</td> <td>h</td> </tr> </table> <p><u>DBM2102 Process Mining</u></p> <table border="1" data-bbox="636 1193 1362 1391"> <tr> <td>Contact time</td> <td>(4 x 15h)</td> <td>60</td> <td>h</td> </tr> <tr> <td>Preparation and follow-up</td> <td></td> <td>20</td> <td>h</td> </tr> <tr> <td>Case study</td> <td></td> <td>50</td> <td>h</td> </tr> <tr> <td>Exam preparation</td> <td></td> <td>20</td> <td>h</td> </tr> </table>	Contact time	(2 x 15h)	30	h	Case study		30	h	Contact time	(4 x 15h)	60	h	Preparation and follow-up		20	h	Case study		50	h	Exam preparation		20	h
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Additional Remarks	-																								
Keywords	<p>Process Management, Business Process Modeling, Process Analysis, Process Efficiency, Process Improvement, Process Mining, Event Logs, Process Discovery, Conformance Checking, Process Enhancement, Process Performance Measurement, Data Science in Business Process, Real-world Process Analysis, Process Management Techniques, Process Optimization, Process-driven Decision Making</p>																								
Last update	January 2024																								

DBM2150: ALGORITHMS AND DATA STRUCTURES

Algorithms and Data Structures	
Module ID	DBM2150
Semester	3
Credits	5
SWS (contact h per week)	4
Frequency	Once a year
Associated courses	DBM2151 Algorithms and Data Structures (4 SWS / 5 Credits)
Prerequisites	None
Assessment methods	PLL+PLK – 60 Minutes
Requirements for granting of credits	Passing the respective examination in the associated courses
Significance for the final grade	The module counts weighted with its credits in the Bachelor's final grade.
Planned group size	35 students
Language	English
Modul duration	1 Semester
Modul coordinator	(NG)
Lecturer(s)	(NG)
Discipline	Digital Business Management
Teaching approach	Seminar lessons & programming exercises
Applicability in other programs	Also suitable for students of computer engineering.
Objectives	<p>Students...</p> <ul style="list-style-type: none"> • know important algorithms and can classify their practical relevance • know data structures and are familiar with their implementation in a programming language (Java/Python) • are proficient in a programming language (Java/Python) • can develop object-oriented solutions using well-known algorithms

Content	<ul style="list-style-type: none"> • Algorithms, optimized variants and their implementation in a programming language (Java) • Efficient data structures and their implementation • Data Types and Variables, Expressions, Operators, and Control Structures • Basic concepts of object-oriented programming • Working with an integrated development environment (IDE) • Processing of programming tasks with a focus on information retrieval <p>The module primarily serves to the following competencies: Knowledge Broadening, Knowledge Deepening, Application and Transfer, Academic Integrity and Professionalism</p>												
Relation to other modules	<p>This module forms the basis for the later modules and is also incorporated into all other courses of the program, where basic knowledge of software development is required.</p>												
Workload	<p><u>DBM2151 Algorithms and Data Structures:</u></p> <table border="0"> <tr> <td>Contact Hours</td> <td>(4 x 15h)</td> <td>60 h</td> </tr> <tr> <td>Preparation and follow-up</td> <td></td> <td>20 h</td> </tr> <tr> <td>Working on Exercises</td> <td></td> <td>50 h</td> </tr> <tr> <td>Exam preparation</td> <td></td> <td>20 h</td> </tr> </table>	Contact Hours	(4 x 15h)	60 h	Preparation and follow-up		20 h	Working on Exercises		50 h	Exam preparation		20 h
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Preparation and follow-up		20 h											
Working on Exercises		50 h											
Exam preparation		20 h											
Literature	<ul style="list-style-type: none"> • Bloch, J. Effective Java. Addison-Wesley Professional. • Cormen, T. H., Leiserson, C. E., Rivest, R. L., & Stein, C. Introduction to Algorithms. The MIT Press. • Downey, A. B., Think Data Structures: Algorithms and Information Retrieval in Java. O'Reilly Media. • Heineman, G., Learning Algorithms: A Programmer's Guide to Writing Better Code. O'Reilly Media. • Link, J. Softwaretests mit JUnit. Dpunkt Verlag. • Wengrow, J. A Common-Sense Guide to Data Structures and Algorithms. Pragmatic Bookshelf. <p>The latest edition in each case.</p>												
Additional remarks	-												
Keywords	Algorithms, Data Structures, Object Oriented Programming												
Last update	January 2024												

DBM2300: DATA MANAGEMENT

Data Management	
Module ID	DBM2300
Semester	4
Credits	7
SWS (contact h per week)	5
Frequency	Once a year, each summer term
Associated Courses	DBM2301 Database Systems (4 SWS / 4 Credits) DBM2302 Data Management and Handling (1 SWS / 3 Credits)
Prerequisites	Algorithms and Data Structures
Assessment Methods	DBM2301: PLP+PLK - 60 Minutes DBM2302: PLP+PLH – 60 Minutes
Requirements for granting of credits	In each case: Passing the respective examinations
Significance for the Final Grade	The module counts weighted with its credits in the Bachelor's final grade.
Planned Group Size	max. 35 students
Language	English
Modul duration	1 Semester
Modul coordinator	Schuster, Thomas
Lecturer(s)	Schuster, Thomas; (NG)
Discipline	Digital Business Management
Teaching approach	Interactive approach including tutorials and trainings
Applicability in other programs	Also suitable for students of engineering disciplines.
Objectives	<p><u>DBM2301 Database Systems</u> Students...</p> <ul style="list-style-type: none"> • know the goals and tasks involved in managing a DB, the DB design levels, the structure of a DB system, and the tasks and concepts of data integrity and data access assurance, • can model data structures for specific application tasks from a semantic and logical point of view, and

	<ul style="list-style-type: none"> • can define, manipulate, query and secure application-specific data with SQL and using a powerful database management system. <p><u>DBM2302 Data Management and Handling</u> Students...</p> <ul style="list-style-type: none"> • understand the fundamental concepts of data processing, • learn to exchange data between databases and web services, • develop skills for handling and processing large volumes of data, • apply Python programming for data extraction, transformation, and loading (ETL), • understand and use REST APIs for data exchange and processing, and • gain proficiency in Python libraries like Pandas, Numpy and others for data processing. <p>The module primarily serves to the following competencies: Knowledge Deepening, Knowledge Comprehension, Application and Transfer, Science Innovation, Academic Integrity and Professionalism</p>												
Content	<p><u>DBM2301 Database Systems</u></p> <ul style="list-style-type: none"> • Management and modeling of database systems • Conceptual semantic data modeling • Modeling relational data structures • Data definition using SQL • Data manipulation using SQL • External views of the data using SQL • Optimization of database queries • Procedural programming in databases <p><u>DBM2302 Data Management and Handling</u></p> <ul style="list-style-type: none"> • Data processing fundamentals in Python • Interaction between databases and web services • Processing large volumes of data (Big Data) • Data extraction, transformation, and loading (ETL) • REST APIs and data handling • Advanced Python libraries for data processing 												
Relation to other Modules	<p>This module forms a basis for the later module System Development and is also incorporated into all other courses of the Business Informatics program, where database knowledge is required.</p>												
Workload	<p><u>DBM2301 Database Systems</u></p> <table border="0"> <tr> <td>Contact hours</td> <td>(4 x 15h)</td> <td>60 h</td> </tr> <tr> <td>Preparation and follow-up</td> <td></td> <td>20 h</td> </tr> <tr> <td>Project</td> <td></td> <td>40 h</td> </tr> </table> <p><u>DBM2302 Data Management and Handling</u></p> <table border="0"> <tr> <td>Contact hours</td> <td>(1 x 15h)</td> <td>15 h</td> </tr> </table>	Contact hours	(4 x 15h)	60 h	Preparation and follow-up		20 h	Project		40 h	Contact hours	(1 x 15h)	15 h
Contact hours	(4 x 15h)	60 h											
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Project		40 h											
Contact hours	(1 x 15h)	15 h											

	Preparation and follow-up	15 h
	Case Study	60 h
Literature	<p><u>DBM2301 Database Systems</u></p> <ul style="list-style-type: none"> • Obe, R. O., Hsu, L. S. (2017). PostgreSQL: Up and Running: A Practical Guide to the Advanced Open Source Database. O'Reilly Media. • Date, C.J. (2019). Database Design and Relational Theory: Normal Forms and All That Jazz. Apress. • Riggs, S., Ciolli, G. (2022). PostgreSQL 14 Administration Cookbook. Packt Publishing. <p><u>DBM2302 Data Management and Handling</u></p> <ul style="list-style-type: none"> • McKinney, W. (2022). Python for Data Analysis: Data Wrangling with Pandas, NumPy, and Jupyter. O'Reilly Media. • Grus, J. (2019). Data Science from Scratch: First Principles with Python. O'Reilly Media. • Fielding, R. T., & Taylor, R. N. (2002). Principled design of the modern Web architecture. ACM Transactions on Internet Technology. <p>The latest edition, further references can be found in the learning management system</p>	
Additional Remarks	-	
Keywords	Database, Relational Database Systems, Data Interoperability	
Last Update	January 2024	

DBM2500: AI AND MACHINE LEARNING

AI and Machine Learning	
Module ID	DBM2500
Semester	4
Credits	5
SWS (contact h per week)	2
Frequency	Every term
Associated courses	DBM2501 AI and Machine Learning (2 SWS / 5 Credits)
Prerequisites	Successfully completed first stage of study
Assessment methods	PLP
Requirements for granting of credits	Successful passing of the exam
Significance for the final grade	The module is weighted with its credits in the Bachelor's final grade.
Planned group size	max. 25 students
Language	English
Modul duration	1 Semester
Modul coordinator	Schuster, Thomas
Lecturer(s)	Schuster, Thomas
Discipline	Digital Business Management
Teaching approach	Project
Applicability in other programs	Depending on the topic, it is also suitable for students of computer engineering and industrial engineering.
Objectives	<p>Students...</p> <ul style="list-style-type: none"> • understand the basic principles of AI and Machine Learning (ML) • gain hands-on experience with scikit-learn, TensorFlow, and Keras • develop and train Machine Learning models using Python • understand how to use cloud services for training and deploying ML models • learn to evaluate the performance of ML models • apply machine learning techniques to solve real-world problems. <p>The module primarily serves to the following competencies: Knowledge Deepening, Knowledge Comprehension, Application and Transfer, Communication and Collaboration Skills, Academic Integrity and Professionalism</p>
Content	<ul style="list-style-type: none"> • Fundamentals of AI and Machine Learning • Practical use of scikit-learn for Machine Learning

	<ul style="list-style-type: none"> • Deep Learning using TensorFlow and Keras • Data processing and model training in Python • Introduction to cloud-based Machine Learning services 									
Relation to other Modules	Solid knowledge of all program related courses in semesters 1 – 3 is required									
Literature	<ul style="list-style-type: none"> • Brownlee, J. (2020). Master Machine Learning Algorithms. Machine Learning Mastery. • VanderPlas, J. (2016). Python Data Science Handbook: Essential Tools for working with Data. O'Reilly. • Géron, A. (2022). Hands-On Machine Learning with Scikit-Learn, Keras, and TensorFlow: Concepts, Tools, and Techniques to Build Intelligent Systems (3rd Edition). O'Reilly Media. • Nield, T. (2022). Essential Math for Data Science: Take Control of Your Data with Fundamental Linear Algebra, Probability, and Statistics. O'Reilly Media. • Norvig, P., & Russell, S. (2021). Artificial Intelligence: A Modern Approach, Global Edition (4th edition). Pearson. <p>The latest edition, further references can be found in the learning management system.</p>									
Workload	<table> <tr> <td>Contact time</td> <td>(2x15)</td> <td>30 h</td> </tr> <tr> <td>Project work</td> <td></td> <td>100 h</td> </tr> <tr> <td>Prepare and conduct final presentation</td> <td></td> <td>20 h</td> </tr> </table>	Contact time	(2x15)	30 h	Project work		100 h	Prepare and conduct final presentation		20 h
Contact time	(2x15)	30 h								
Project work		100 h								
Prepare and conduct final presentation		20 h								
Additional Remarks	-									
Keywords	Artificial Intelligence, Machine Learning, Scikit-learn, TensorFlow, Keras, Python, Deep Learning, Model Training, Cloud Services, Model Evaluation, Real-world Applications, Data Processing, AI Tools and Techniques, AI Problem Solving, AI in Cloud, Neural Networks, Supervised Learning, Unsupervised Learning, Reinforcement Learning, Predictive Modelling									
Last update	January 2024									

DBM3100: ELECTIVES PROFILE

Electives Profile	
Module ID	DBM3100
Semester	4 (Profile I) + 6 (Profile II)
Credits	15
SWS (contact h per week)	10
Frequency	each semester
Associated courses	<p><u>Profile I: Management Skills</u></p> <ul style="list-style-type: none"> • BIS2242 Project Management (2 SWS / 3 Credits) • BIS3014 Production Planning with Transactional Systems (2 SWS / 3 Credits, English) • PLS3011 e-business and Supply Chains (2 SWS / 3 Credits, English) • BREM3116 Change Management (2 SWS / 3 Credits, German) • BREM3114 Seminar Lean Management (2 SWS / 3 Credits, English) • BIS3102 Digital Service Innovation (2 SWS / 3 Credits, English) • BIS3103 Digital Business Design (2 SWS / 3 Credits, English) <p><u>Profile II: Process Engineering & Data Analytics</u></p> <ul style="list-style-type: none"> • BIS3067 Advanced Process Mining (2 SWS / 3 Credits, English) • BIS3107 Information Security in Business Processes (2 SWS / 3 Credits, English) • BIS3104 App Development (2 SWS / 3 Credits, English) • BIS3061 Internet of Everything (2 SWS / 3 Credits, English) • BIS3067 User Interface & Experience Design (4 SWS / 6 Credits, English) • BIS3108 GI Challenge (2 SWS / 3 Credits, English) <p><u>Profile (extension): Interdisciplinary Studies</u></p> <ul style="list-style-type: none"> • IDS3010 Interdisciplinary Studies (2 SWS / 3 Credits German or English) <p>Two courses should be taken in the fourth semester (Profile I, scope 6 credits) and the additional courses (Profile II, scope 9 credits) should be taken in the sixth semester. At least one subject must be selected from each of the two profile areas.</p>
Prerequisites	Successfully completed first stage of study
Assessment methods	PLH+PLR – 45 / 60 Minutes
Requirements for granting of	In each case: Passing the respective examinations.

credits	Profile subject courses amounting to 12 credits must be successfully completed. At least one subject from each profile must be taken.
Significance for the final grade	The module is weighted with its credits in the Bachelor's final grade.
Planned group size	max. 25 students
Language	English or German
Modul duration	2 Semester
Modul coordinator	Program director of Digital Business Management
Lecturer(s)	Lecturers of different programs / subject areas
Discipline	Digital Business Management
Teaching approach	Individual profile offers can also be taken by other programs.
Applicability in other programs	Lectures with exercises
Objectives	<p>The module is intended to offer students the opportunity to set an individual, course-related specialization. The goals differ depending on the profile subject offering. Students should deepen their knowledge in the areas of Digital Management, Data and Process Analytics.</p> <p>Students...</p> <ul style="list-style-type: none"> • know how to manage large project teams, • know methods for the analysis of processes and information systems, • can use and improve operational information systems with regard to specific problems, • are able to apply analytical or simulative methods in the field of process analysis to operational issues, • are able to design digital service solutions, • can process and analyze large amounts of data and use them to develop insights and forecasts, and • can implement distributed application systems and mobile applications. <p>The module primarily serves to the following competencies: Knowledge Broadening, Knowledge Deepening, Knowledge Comprehension, Application and Transfer, Scientific Innovation, Academic Integrity and Professionalism</p>

Content	<p><u>Profile I: Management Skills</u></p> <ul style="list-style-type: none"> • Principles in agile and classic project management • Transactional processing systems in logistics • Service Engineering • E-business and supply chains • Change management theories and practices • Lean management principles • Digital service innovation • Digital business design <p><u>Profile II: Process Engineering & Data Analytics</u></p> <ul style="list-style-type: none"> • Advanced process analytics and techniques of process mining • Information security in real-world business processes • Development principles for mobile and distributed systems • Engineering of data-aware applications • Privacy and ethics in technology • User Interface & Experience Design • Internet of Everything concepts • GI Challenge <p><u>Profile: Interdisciplinary Studies (extension)</u> This is a supplementary subject that expands the profile subjects with interdisciplinary competencies.</p>																											
Relation to other Modules	Depending on the selected WPF offer																											
Workload	<p><u>User Interface & Experience Design</u></p> <table data-bbox="635 1182 1391 1330"> <tr> <td>Contact time</td> <td>(4x15)</td> <td>60 h</td> </tr> <tr> <td>Pre- and post-processing</td> <td></td> <td>90 h</td> </tr> <tr> <td>Exam preparation</td> <td></td> <td>30 h</td> </tr> </table> <p><u>GI Challenge</u></p> <table data-bbox="635 1402 1391 1599"> <tr> <td>Contact time</td> <td>(2x15)</td> <td>30 h</td> </tr> <tr> <td>Pre- and post-processing</td> <td></td> <td>60 h</td> </tr> <tr> <td>Elaboration of term paper</td> <td></td> <td>30 h</td> </tr> <tr> <td>Project</td> <td></td> <td>60 h</td> </tr> </table> <p><u>All other offers</u></p> <table data-bbox="635 1671 1391 1765"> <tr> <td>Contact time</td> <td>(2x15)</td> <td>30 h</td> </tr> <tr> <td>Pre- and post-processing</td> <td></td> <td>60 h</td> </tr> </table>	Contact time	(4x15)	60 h	Pre- and post-processing		90 h	Exam preparation		30 h	Contact time	(2x15)	30 h	Pre- and post-processing		60 h	Elaboration of term paper		30 h	Project		60 h	Contact time	(2x15)	30 h	Pre- and post-processing		60 h
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Elaboration of term paper		30 h																										
Project		60 h																										
Contact time	(2x15)	30 h																										
Pre- and post-processing		60 h																										
Literature	<p>The module or an individual course of the module can also be completed as part of a semester abroad. Modules or courses related to the focus of the degree are eligible for recognition. Most elective courses, can be organized as fast-track offers with an examination well before the normal examination period.</p>																											
Additional Remarks	-																											

<p>Keywords</p>	<p><u>Profile I:</u> Strategic Decision-Making, Project Management, Transactional Processing, E-Business, Supply Chains, Change Management, Lean Management, Internet of Everything. <u>Profile II:</u> Process Mining, Information Security, User Experience, App Development, Data Privacy, Ethics, Digital Service, Digital Business Design, GI Challenge.</p>
<p>Last update</p>	<p>January 2024</p>

DBM3300: APPLIED DIGITAL TRANSFORMATION PROJECT

Applied Digital Transformation Project	
Module ID	DBM3300
Semester	6
Credits	7
SWS (contact h per week)	2
Frequency	Every term
Associated courses	DBM3301 Applied Digital Transformation Project (2 SWS / 7 Credits)
Prerequisites	Successfully completed first stage of study
Assessment methods	PLP
Requirements for granting of credits	Successful passing of the exam
Significance for the final grade	The module is weighted with its credits in the Bachelor's final grade.
Planned group size	5 groups with 4 students each = 20 students
Language	English
Modul duration	1 Semester
Modul coordinator	Program director Digital Business Management
Lecturer(s)	Lecturers of program
Discipline	Digital Business Management
Teaching approach	Interactive approach including tutorials and trainings
Applicability in other programs	Also suitable for students of computer engineering and industrial engineering.
Objectives	<p>Students...</p> <ul style="list-style-type: none"> • identify and structure operational problems related to the use of information systems. • design and implement creative solutions for successful information system implementation or optimization of operational processes. • achieve a given project goal within a specified time frame in collaboration with other fellow students. • independently organize teamwork. <p>The module primarily serves to the following competencies: Knowledge Broadening, Knowledge Comprehension, Application and Transfer, Communication and Collaboration Skills, Academic Integrity and Professionalism</p>
Content	<ul style="list-style-type: none"> • Current, complex, practical tasks from the field of operational information systems.

	<ul style="list-style-type: none"> • The projects are typically carried out in direct collaboration with companies. • Coaching of project teams regarding agile methods. • The tasks are completed in teams under the guidance and supervision of the lecturer. The results are presented to the client at the end. 												
Relation to other Modules	Solid knowledge from all courses in Business Informatics from semesters 1-5 is required.												
Literature	Up-to-date, topic-related publications												
Workload	<table> <tr> <td>Contact time</td> <td>(2x15)</td> <td>30</td> <td>h</td> </tr> <tr> <td>Project work</td> <td></td> <td>160</td> <td>h</td> </tr> <tr> <td>Prepare and conduct final presentation</td> <td></td> <td>20</td> <td>h</td> </tr> </table>	Contact time	(2x15)	30	h	Project work		160	h	Prepare and conduct final presentation		20	h
Contact time	(2x15)	30	h										
Project work		160	h										
Prepare and conduct final presentation		20	h										
Additional Remarks	-												
Keywords	Digital Transformation, Applied Technology, Business Innovation, Project Management, Agile Methodologies, Information Systems, Change Management, Organizational Strategy, Data Analytics, Process Optimization, Industry 4.0, Internet of Things (IoT), Artificial Intelligence (AI), Cloud Computing, User Experience (UX), Data Privacy and Security, Emerging Technologies, Digital Business Models, Customer Relationship Management (CRM), E-commerce, Mobile Applications, Social Media Integration, Digital Marketing, Blockchain Technology, Cybersecurity												
Last update	January 2024												

DBM4100: IT GOVERNANCE

IT Governance	
Module ID	DBM4100
Semester	7
Credits	8
SWS (contact h per week)	5
Frequency	Each term
Associated courses	DBM4101 IT Governance (4 SWS / 5 Credits) DBM4102 Seminar Emerging Trends in Digital Business Management (1 SWS / 3 Credits)
Prerequisites	Successfully completed first stage of study
Assessment methods	DBM4101 IT Governance: PLL/PLH/PLP/PLM/PLK - 60 Minutes DBM4102 Seminar Emerging Trends in Digital Business Management: PLP+PLH/PLH
Requirements for granting of credits	Passing the exam
Significance for final grade	The module counts weighted with its credits in the Bachelor's final grade.
Planned group size	25 Students
Language	English
Modul duration	1 Semester
Modul coordinator	Boßlau, Mario
Lecturer(s)	Boßlau, Mario; (NG)
Discipline	Digital Business Management
Teaching approach	Seminary teaching
Applicability in other programs	Also suitable for students of other computer science programs and law.
Objectives	<u>DBM4101 IT Governance</u> Students... <ul style="list-style-type: none"> understand the fundamentals of IT governance and the im- portance of IT in corporate management,

	<ul style="list-style-type: none"> • are familiar with the principles and frameworks of IT governance (COBIT, ITIL), • understand the roles and responsibilities in IT management and the importance of stakeholder communication, • know the basics of information security and data protection within the context of IT governance, • understand threats, attacker models, and protection measures in a governance context, • are familiar with basic security protocols and procedures as well as their application in IT governance (e.g., key management, authentication), • know the basics of system security and its relevance to IT governance (e.g., spam and phishing, software vulnerabilities, web application security), • know the legal and technical fundamentals of data protection and their integration into IT governance, • understand approaches to information security management and their role in IT governance (e.g., IT security lifecycle, BSI Basic Protection), • can assess information systems regarding compliance with IT security standards and data protection regulations, ensuring alignment with IT governance policies. <p><u>DBM4102 Seminar Emerging Trends in Digital Business Management</u></p> <p>Students...</p> <ul style="list-style-type: none"> • understand the current and emerging trends in digital business • recognize the impact of AI, Machine Learning, Blockchain, and IoT on business • understand how Big Data and analytics drive decision making in modern business • gain insights into how robotics and automation shape the future of work • develop the ability to adapt business strategies to leverage emerging technologies • understand how digital transformation affects business operations and strategy. <p>The module primarily serves to the following competencies: Knowledge Deepening, Knowledge Comprehension, Application and Transfer, Scientific Innovation, Academic Integrity and Professionalism</p>
<p>Content</p>	<p>This module focuses on the principles and practices of IT governance, including the management of IT resources, risks, and cybersecurity. It covers frameworks for IT governance, emerging trends, strategies for managing IT resources and risks, and the principles of cybersecurity.</p> <p><u>DBM4101 IT Governance</u></p> <ul style="list-style-type: none"> • Fundamental concepts of IT governance and the role of IT in corporate management • Principles and frameworks of IT governance (COBIT, ITIL)

	<ul style="list-style-type: none"> • Basic concepts of information security and data protection within IT governance • Basic security protocols and procedures in IT governance (key management, authentication) • IT security approaches relevant to governance and compliance (access control, reactive security, intrusion detection) • System security basics and their importance for IT governance (spam and phishing, software vulnerabilities, web application security) • Legal and technical fundamentals of data protection and their integration into IT governance • Information security management approaches and their role in IT governance (IT security lifecycle, BSI Basic Protection) • Compliance assessment of information systems with IT security standards and data protection regulations <p><u>DBM4102 Seminar Emerging Trends in Digital Business Management</u></p> <ul style="list-style-type: none"> • Exploration of current trends in digital business • The role of AI and Machine Learning in business • Impact of Blockchain on business processes • IoT and its implications for business operations • The influence of Big Data and analytics on decision making • The future of work with robotics and automation 																								
Relation to other modules	-																								
Workload	<p><u>DBM4101 IT Governance and Cybersecurity</u></p> <table border="1"> <tr> <td>Contact time</td> <td>(4 x 15h)</td> <td>60 h</td> </tr> <tr> <td>Preparation and follow-up</td> <td></td> <td>40 h</td> </tr> <tr> <td>Working on case studies</td> <td></td> <td>30 h</td> </tr> <tr> <td>Exam preparation</td> <td></td> <td>20 h</td> </tr> </table> <p><u>DBM4102 Seminar Emerging Trends in Digital Business Management</u></p> <table border="1"> <tr> <td>Contact time</td> <td>(1 x 15h)</td> <td>15 h</td> </tr> <tr> <td>Case study</td> <td></td> <td>30 h</td> </tr> <tr> <td>Term paper</td> <td></td> <td>35 h</td> </tr> <tr> <td>Presentation (prepare & conduct)</td> <td></td> <td>10 h</td> </tr> </table>	Contact time	(4 x 15h)	60 h	Preparation and follow-up		40 h	Working on case studies		30 h	Exam preparation		20 h	Contact time	(1 x 15h)	15 h	Case study		30 h	Term paper		35 h	Presentation (prepare & conduct)		10 h
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Presentation (prepare & conduct)		10 h																							
Literature	<p><u>DBM4101 IT Governance</u></p> <ul style="list-style-type: none"> • Caballero I., and Piattini, M., Eds: Data Governance: From the Fundamentals to Real Cases. Springer. • Calder, A. and Watkins, S.: IT Governance: An International Guide to Data Security and ISO 27001/ISO 27002, Kogan Page. • Johanning, V.: Organization and Management of IT: The New Role of IT and the CIO in Digital Transformation, Springer. 																								

	<ul style="list-style-type: none"> • Anderson, R. Security Engineering: A Guide to Building Dependable Distributed Systems. Wiley. • Gilman, E., & Barth, D. Zero Trust Networks: Building Secure Systems in Untrusted Networks. O'Reilly Media. • Stallings, W., & Brown, L. Computer Security: Principles and Practice. Pearson. <p><u>DBM4102 Seminar Emerging Trends in Digital Business Management</u></p> <ul style="list-style-type: none"> • Up-to-date, topic-related publications • Kane, G. C. (2022). The Technology Fallacy: How People Are the Real Key to Digital Transformation. The MIT Press. • Ross, J. W., Beath, C. M., & Mocker, M. (2019). Designed for Digital: How to Architect Your Business for Sustained Success. The MIT Press. • Brynjolfsson, E., & McAfee, A. (2014). The Second Machine Age: Work, Progress, and Prosperity in a Time of Brilliant Technologies. W. W. Norton & Company. • Schmarzo, B. (2013). Big Data: Understanding How Data Powers Big Business. Wiley. • Thamm, A., Gramlich, M. Borek, A., and van Loon R. (2020). The Ultimate Data and AI Guide: 150 FAQs About Artificial Intelligence, Machine Learning and Data. München: Data AI Press. <p>The latest edition in each case</p>
Additional remarks	-
Keywords	IT Governance, Cybersecurity, IT Risk Management, Data Protection, IT Policies, Security Measures, Cyber Threats, Data Breach Response, Cybersecurity Best Practices, Emerging Trends, Digital Business, AI in Business, Machine Learning, Blockchain, Internet of Things, Big Data, Analytics, Decision Making, Robotics, Automation, Business Strategy, Business Operations, Digital Transformation, Future of Work, Innovation Management, Technology Impact, Business Adaptation.
Last update	January 2024