



Module Catalogue
Master's Program: Management and Digital Technologies
(Master of Science, M.Sc.)

(120 ECTS credits)

Based on the *Prüfungs- und Studienordnung* 2024

88/532/---/M0/H/2024

Issued on 18 February 2025

Index

Abbreviations and annotations	3
Module: P 1 Management I	4
Module: P 2 Management II	6
Module: P 3 Management and Digital Technologies I	8
Module: P 4 Digital Technologies I	10
Module: P 5 Management III	12
Module: P 6 Management and Digital Technologies II	14
Module: WP 1 Elective Topics in Informatics I	16
Module: WP 2 Elective Topics in Informatics II	18
Module: WP 3 Practical Course in Informatics I	20
Module: WP 4 Practical Course in Informatics II	22
Module: WP 5 Current Topics in Theory and Practice: Business Administration and Management I	24
Module: WP 6 Current Topics in Theory and Practice: Digital Business and Management I	26
Module: WP 7 Advanced Topics in Management and Business Administration I	28
Module: WP 8 Advanced Topics in Management and Innovation I	30
Module: WP 9 Advanced Topics in Management and Digital Business I	32
Module: WP 10 Topics in Business Administration	34
Module: WP 11 Topics in Digital Management	36
Module: P 7 Management and Digital Technologies III	38
Module: P 8 Digital Technologies II	40
Module: WP 12 Elective Topics in Informatics III	42
Module: WP 13 Current Topics in Theory and Practice: Business Administration and Management II	44
Module: WP 14 Current Topics in Theory and Practice: Digital Business and Management II	46
Module: WP 15 Advanced Topics in Management and Business Administration II	48
Module: WP 16 Advanced Topics in Management and Innovation II	50
Module: WP 17 Advanced Topics in Management and Digital Business II	52
Module: WP 18 Topics in Management	54
Module: WP 19 Topics in Digital Business	56
Module: P 9 Final Module	58

Abbreviations and annotations

CP	Credit Points, ECTS-Punkte
ECTS	European Credit Transfer and Accumulation System
h	hours
SoSe	summer semester
SWS	contact hours
WiSe	winter semester
WP	compulsory elective course/module
P	mandatory course/module

1. The ECTS credits assigned in the Module Catalogue are designated as follows: credit points not listed in parentheses are awarded when the pertinent examination of the module or module parts have/has been completed successfully. Credit points in parentheses are listed for arithmetic purposes only.
2. The semester for taking a module can either be binding or may be considered as a recommendation, depending on the applicable data in Anlage 2 of the Prüfungs- und Studienordnung for your Program. In this Module catalogue, the options are indicated as „scheduled semester“ and „recommended semester“.
3. Please note: The Module Catalogue is merely intended to serve as an orientation whereas the provisions of the applicable version of the Prüfungs- und Studienordnung (in German only) of your Program are legally binding. See: www.lmu.de/studienangebot and select your Program.

Module: P 1 Management I

Program	Master's Program: Management and Digital Technologies (Master of Science, M.Sc.)
----------------	--

Related module parts

Course type	Course (mandatory)	Rotation	Contact hours	Self-study hours	ECTS
Lecture	P 1.1 Selected Topics in Management (Lecture)	WiSe	30 h (2 SWS)	60 h	(3)
Exercise Course	P 1.2 Selected Topics in Management (Exercise Course)	WiSe	30 h (2 SWS)	60 h	(3)

For successful completion of the module, 6 ECTS credits have to be acquired. Class attendance averages about 4 contact hours. Including time for self study, 180 hours have to be invested.

Module type	Mandatory module with mandatory courses
Usability of the module in other Programs	None
Elective guidelines	None
Entry requirements	None
Semester	Recommended semester: 1
Duration	The successful completion of the module takes 1 semester.
Content	This course covers the characteristics of digital marketplaces and the resulting opportunities. The course focuses on advanced topics of digital markets. These topics include the fundamentals of network economics, platforms, (dynamic) pricing, advertising, and current developments and trends such as artificial intelligence. The course combines the latest research findings with practical insights.
Learning outcomes	The aim of this course is to provide students with an understanding of advanced knowledge in the field of digital markets. Students should also be able to critically assess research findings in this area.
Type of examination	Written exam
Type of assessment	The successful completion of the module will be graded.
Requirements for the gain of ECTS credits	ECTS credits will be granted when the module examination (or the examination of pertinent mandatory and potential compulsory elective module parts) has/have been completed successfully.

Responsible contact	Prof. Dr. Spann
----------------------------	-----------------

Language(s)	English
--------------------	---------

Additional information	None
-------------------------------	------

Module: P 2 Management II

Program	Master's Program: Management and Digital Technologies (Master of Science, M.Sc.)
----------------	--

Related module parts

Course type	Course (mandatory)	Rotation	Contact hours	Self-study hours	ECTS
Lecture	P 2.1 Current Topics in Management (Lecture)	WiSe	30 h (2 SWS)	60 h	(3)
Exercise Course	P 2.2 Current Topics in Management (Exercise Course)	WiSe	30 h (2 SWS)	60 h	(3)

For successful completion of the module, 6 ECTS credits have to be acquired. Class attendance averages about 4 contact hours. Including time for self study, 180 hours have to be invested.

Module type	None
Usability of the module in other Programs	None
Elective guidelines	None
Entry requirements	None
Semester	Recommended semester: 1
Duration	The successful completion of the module takes 1 semester.
Content	<p>This course provides an introduction to business analytics and machine learning, covering both theoretical concepts and practical applications. It begins with an overview of organizational details and business analytics use cases. The course then explores predictive modeling, including machine learning fundamentals, model taxonomy, and performance evaluation.</p> <p>Linear modeling techniques such as ordinary least squares and regularization methods (lasso, ridge regression, elastic net) are covered, followed by non-linear approaches like decision trees, random forests, boosting, and neural networks. Model tuning techniques, including train/test splits and cross-validation, are also discussed.</p> <p>Finally, the course addresses practical challenges in implementing machine learning, including management issues and common pitfalls, ensuring students gain both technical and strategic insights.</p>
Learning outcomes	By the end of the course, students will be able to plan, implement and evaluate analytics in applied settings to generate

rate value from data for society, corporations, and individuals. This serves the pressing need of firms to improve their efficiency – such as customer satisfaction, competitive advantage – by leveraging the growing amounts of structured and unstructured data.

Type of examination	Written exam or exercise portfolio or thesis or programming task or presentation or oral examination
Type of assessment	The successful completion of the module will be graded.
Requirements for the gain of ECTS credits	ECTS credits will be granted when the module examination (or the examination of pertinent mandatory and potential compulsory elective module parts) has/have been completed successfully.
Responsible contact	Prof. Dr. Feuerriegel
Language(s)	English
Additional information	None

Module: P 3 Management and Digital Technologies I

Program	Master's Program: Management and Digital Technologies (Master of Science, M.Sc.)
----------------	--

Related module parts

Course type	Course (mandatory)	Rotation	Contact hours	Self-study hours	ECTS
Proseminar	P 3.1 Basics in Management and Digital Technologies (Proseminar)	WiSe	60 h (4 SWS)	120 h	(6)
Seminar	P 3.2 Basics in Management and Digital Technologies (Seminar)	WiSe	60 h (4 SWS)	120 h	(6)

For successful completion of the module, 12 ECTS credits have to be acquired. Class attendance averages about 8 contact hours. Including time for self study, 360 hours have to be invested.

Module type	Mandatory module with mandatory courses
Usability of the module in other Programs	None
Elective guidelines	None
Entry requirements	None
Semester	Recommended semester: 1
Duration	The successful completion of the module takes 1 semester.
Content	<p>The course provides students with a comprehensive understanding of key concepts, theories, and methodologies in digital innovation. The course introduces the foundations of digital innovation, covering core theories, concepts, and research methodologies. Furthermore, it explores the intra-organizational perspective, focusing on methods and structures to manage digital innovation addressing managerial, social, and technical challenges. The course also covers the inter-organizational perspective, emphasizing the management of digital infrastructures, and ecosystems, and the critical role of data in digital innovation.</p> <p>The course integrates theoretical discussions with practical applications, including real-world examples, case studies, and the analysis of fundamental research papers. Students are also trained and gain hands-on experience with software architectures, agile software development, web programming, and the prototyping of web applications.</p>
Learning outcomes	The course equips students to thoroughly analyze and evaluate current trends, technical and managerial requirements,

as well as opportunities and risks associated with digital innovation. Students will develop an in-depth understanding of how digital technologies shape business models and impact markets on both micro- and macroeconomic levels. They will learn to apply theoretical and practical methods, approaches, and tools to address challenges in digital business contexts. By the end of the course, students will be prepared to critically assess digital innovation processes, design strategies for managing digital infrastructures and ecosystems, and effectively contribute to the creation of digital innovations in organizational settings.

Type of examination	(Written exam or exercise portfolio or thesis or portfolio) and (presentation or oral examination)
Type of assessment	The successful completion of the module will be graded.
Requirements for the gain of ECTS credits	ECTS credits will be granted when the module examination (or the examination of pertinent mandatory and potential compulsory elective module parts) has/have been completed successfully.
Responsible contact	Prof. Dr. Kranz
Language(s)	English
Additional information	None

Module: P 4 Digital Technologies I

Program	Master's Program: Management and Digital Technologies (Master of Science, M.Sc.)
----------------	--

Related module parts

Course type	Course (mandatory)	Rotation	Contact hours	Self-study hours	ECTS
Seminar	P 4.1 Current Topics in Digital Technologies (Seminar)	WiSe	30 h (2 SWS)	60 h	(3)
Proseminar	P 4.2 Current Topics in Digital Technologies (Proseminar)	WiSe	30 h (2 SWS)	60 h	(3)

For successful completion of the module, 6 ECTS credits have to be acquired. Class attendance averages about 4 contact hours. Including time for self study, 180 hours have to be invested.

Module type	Mandatory module with mandatory courses
Usability of the module in other Programs	None
Elective guidelines	None
Entry requirements	None
Semester	Recommended semester: 1
Duration	The successful completion of the module takes 1 semester.
Content	Methods, technologies, and tools for human-centered design of interaction techniques, user interfaces, and interactive innovation for digital systems are covered. Knowledge of human-centered innovation approaches and the design of interactive systems in special application areas such as mobile and wearable devices, interactive web and online systems, interfaces and interaction methods for artificial intelligence, interactive robotics, and physical interaction is taught. Technological foundations and conceptual approaches for the development and evaluation of multimodal interaction and user interfaces for virtual and augmented reality are taught. Skills and abilities in the development of concepts, in the creation of prototypes and in the qualitative and quantitative evaluation of interaction systems will be taught.
Learning outcomes	A detailed and comprehensive insight into the topics of human-centered innovation and interaction and interface design is provided. Practical skills are acquired in creating functional prototypes of interactive systems, evaluating such systems, and analyzing their properties. Students should be able to adapt the general principles of human-machine in-

teraction to human-centered innovation in specific application situations, implement them prototypically, and analyze the impact of their design decisions.

Type of examination	(Written exam or exercise portfolio or thesis or programming task) and (presentation or oral examination)
Type of assessment	The successful completion of the module will be graded.
Requirements for the gain of ECTS credits	ECTS credits will be granted when the module examination (or the examination of pertinent mandatory and potential compulsory elective module parts) has/have been completed successfully.
Responsible contact	Prof. Dr. Schmidt
Language(s)	English
Additional information	None

Module: P 5 Management III

Program	Master's Program: Management and Digital Technologies (Master of Science, M.Sc.)
----------------	--

Related module parts

Course type	Course (mandatory)	Rotation	Contact hours	Self-study hours	ECTS
Lecture	P 5.1 Advanced Topics in Management (Lecture)	SoSe	30 h (2 SWS)	60 h	(3)
Exercise Course	P 5.2 Advanced Topics in Management (Exercise Course)	SoSe	30 h (2 SWS)	60 h	(3)

For successful completion of the module, 6 ECTS credits have to be acquired. Class attendance averages about 4 contact hours. Including time for self study, 180 hours have to be invested.

Module type	Mandatory module with mandatory courses
Usability of the module in other Programs	None
Elective guidelines	None
Entry requirements	None
Semester	Recommended semester: 2
Duration	The successful completion of the module takes 1 semester.
Content	<p>The focus of the course is on key aspects of understanding and managing digital media.</p> <p>The course covers the fundamentals of media management. In addition, it addresses media-specific topics that are of great importance in research and practice. These include, among others, the development of innovative digital media products, the use of artificial intelligence in media organizations, and the application of personalization.</p> <p>In the lectures, the concepts and current research in the respective fields are presented. The lecture is divided into three parts. The first part covers the economic and technical foundations. The second part delves into the business models and digitalization strategies of traditional media companies. The third part focuses on the business models and venture approaches for operating content platforms.</p>

In the tutorials, students learn how to effectively read academic papers on topics in the field of digital media and illustrate the practical implications of the concepts learned through case studies from practice.

Learning outcomes	<p>After successful completion of the course, students will be able to:</p> <ul style="list-style-type: none">• describe, apply, and critically examine key aspects and concepts of managing media companies in a digitized world.• understand the main areas of academic research on the digital transformation of media companies and the media industry.• apply the concepts and research findings from the course to real-world management issues in media companies and gather research insights in the future.
Type of examination	Written exam
Type of assessment	The successful completion of the module will be graded.
Requirements for the gain of ECTS credits	ECTS credits will be granted when the module examination (or the examination of pertinent mandatory and potential compulsory elective module parts) has/have been completed successfully.
Responsible contact	Prof. Dr. Hess
Language(s)	English
Additional information	None

Module: P 6 Management and Digital Technologies II

Program	Master's Program: Management and Digital Technologies (Master of Science, M.Sc.)
----------------	--

Related module parts

Course type	Course (mandatory)	Rotation	Contact hours	Self-study hours	ECTS
Project Course	P 6.1 Current Topics in Management and Digital Technologies (Project Course)	SoSe	60 h (4 SWS)	120 h	(6)
Project Seminar	P 6.2 Current Topics in Management and Digital Technologies (Project Seminar)	SoSe	60 h (4 SWS)	120 h	(6)

For successful completion of the module, 12 ECTS credits have to be acquired. Class attendance averages about 8 contact hours. Including time for self study, 360 hours have to be invested.

Module type	Mandatory module with mandatory courses
Usability of the module in other Programs	None
Elective guidelines	None
Entry requirements	None
Semester	Recommended semester: 2
Duration	The successful completion of the module takes 1 semester.
Content	This course focuses on the application of web technologies in the context of digital innovation. Students gain hands-on experience with concepts, architectures, and frameworks related to web technologies, using common development frameworks and programming languages. The development of digital innovation is performed based on software engineering methods.
Learning outcomes	Students develop an in-depth understanding of key web technologies and development methods. They learn to design and implement functional prototypes using common development frameworks and programming languages. Additionally, students acquire practical skills in managing software development projects, including stakeholder collaboration, organization, and teamwork. By the end of the course, students are equipped to apply web technologies effectively in digital innovation contexts, manage and present digital innovation projects to stakeholders.

Type of examination	(Exercise portfolio or portfolio or thesis) and (presentation or oral examination)
Type of assessment	The successful completion of the module will be graded.
Requirements for the gain of ECTS credits	ECTS credits will be granted when the module examination (or the examination of pertinent mandatory and potential compulsory elective module parts) has/have been completed successfully.
Responsible contact	Prof. Dr. Kranz
Language(s)	English
Additional information	None

Module: WP 1 Elective Topics in Informatics I

Program	Master's Program: Management and Digital Technologies (Master of Science, M.Sc.)
----------------	--

Related module parts

Course type	Course (mandatory)	Rotation	Contact hours	Self-study hours	ECTS
Lecture	WP 1.1 Elective Topics in Informatics 1 (Vorlesung)	WiSe and SoSe	45 h (3 SWS)	75 h	(4)
Exercise Course	WP 1.2 Elective Topics in Informatics 1 (Übung)	WiSe and SoSe	30 h (2 SWS)	30 h	(2)

For successful completion of the module, 6 ECTS credits have to be acquired. Class attendance averages about 5 contact hours. Including time for self study, 180 hours have to be invested.

Module type	Compulsory elective module with mandatory courses
Usability of the module in other Programs	None
Elective guidelines	<p>The module can be selected in compliance with the following rules:</p> <p>From the compulsory elective modules WP 1 to WP 19, four compulsory elective modules are to be selected.</p> <p>For this purpose, 1. two compulsory elective modules must be selected from the compulsory elective modules WP 1 to WP 4 and WP 12, 2. one compulsory elective module must be selected from the compulsory elective modules WP 5 to WP 11 and WP 13 to WP 19 and 3. one further compulsory elective module must be selected from the compulsory elective modules WP 1 to WP 19.</p> <p>Two compulsory elective modules should be selected in each of the 2nd and 3rd semesters.</p>
Entry requirements	None
Semester	Recommended semester: 2
Duration	The successful completion of the module takes 1 semester.
Content	<p>This module teaches a specific topic in computer science. Theories, concepts and methods and their application are taught.</p> <p>The lab extends and applies the conceptual and theoretical lecture content and deepens the understanding of the con-</p>

cepts. It requires students to apply the methods and techniques learned in the lecture to specific contexts and applications.

Learning outcomes	Students understand and can critically reflect on special topics in computer science, both in terms of their technical requirements and their methodological implementation. Students will be able to apply theoretical and conceptual knowledge to realistic problems.
Type of examination	Written exam or oral examination
Type of assessment	The successful completion of the module will be graded.
Requirements for the gain of ECTS credits	ECTS credits will be granted when the module examination (or the examination of pertinent mandatory and potential compulsory elective module parts) has/have been completed successfully.
Responsible contact	Prof. Dr. Schmidt
Language(s)	English or German
Additional information	None

Module: WP 2 Elective Topics in Informatics II

Program	Master's Program: Management and Digital Technologies (Master of Science, M.Sc.)
----------------	--

Related module parts

Course type	Course (mandatory)	Rotation	Contact hours	Self-study hours	ECTS
Lecture	WP 2.1 Elective Topics in Informatics 2 (Vorlesung)	WiSe and SoSe	45 h (3 SWS)	75 h	(4)
Exercise Course	WP 2.2 Elective Topics in Informatics 2 (Übung)	WiSe and SoSe	30 h (2 SWS)	30 h	(2)

For successful completion of the module, 6 ECTS credits have to be acquired. Class attendance averages about 5 contact hours. Including time for self study, 180 hours have to be invested.

Module type	Compulsory elective module with mandatory courses
Usability of the module in other Programs	None
Elective guidelines	<p>The module can be selected in compliance with the following rules:</p> <p>From the compulsory elective modules WP 1 to WP 19, four compulsory elective modules are to be selected.</p> <p>For this purpose, 1. two compulsory elective modules must be selected from the compulsory elective modules WP 1 to WP 4 and WP 12, 2. one compulsory elective module must be selected from the compulsory elective modules WP 5 to WP 11 and WP 13 to WP 19 and 3. one further compulsory elective module must be selected from the compulsory elective modules WP 1 to WP 19.</p> <p>Two compulsory elective modules should be selected in each of the 2nd and 3rd semesters.</p>
Entry requirements	None
Semester	Recommended semester: 2
Duration	The successful completion of the module takes 1 semester.
Content	<p>This module teaches a specific topic in computer science. Theories, concepts and methods and their application are taught.</p> <p>The lab extends and applies the conceptual and theoretical lecture content and deepens the understanding of the concepts. It requires students to apply the methods and</p>

	techniques learned in the lecture to specific contexts and applications.
Learning outcomes	Students understand and can critically reflect on special topics in computer science, both in terms of their technical requirements and their methodological implementation. Students will be able to apply theoretical and conceptual knowledge to realistic problems.
Type of examination	Written exam or oral examination
Type of assessment	The successful completion of the module will be graded.
Requirements for the gain of ECTS credits	ECTS credits will be granted when the module examination (or the examination of pertinent mandatory and potential compulsory elective module parts) has/have been completed successfully.
Responsible contact	Prof. Dr. Schmidt
Language(s)	English or German
Additional information	None

Module: WP 3 Practical Course in Informatics I

Program	Master's Program: Management and Digital Technologies (Master of Science, M.Sc.)
----------------	--

Related module parts

Course type	Course (mandatory)	Rotation	Contact hours	Self-study hours	ECTS
Exercise Course	WP 3.1 Course Informatics 1 (Übung)	WiSe and SoSe	15 h (1 SWS)	45 h	(2)
Practical Course	WP 3.2 Course Informatics 1 (Praktikum)	WiSe and SoSe	60 h (4 SWS)	60 h	(4)

For successful completion of the module, 6 ECTS credits have to be acquired. Class attendance averages about 5 contact hours. Including time for self study, 180 hours have to be invested.

Module type	Compulsory elective module with mandatory courses
Usability of the module in other Programs	None
Elective guidelines	<p>The module can be selected in compliance with the following rules:</p> <p>From the compulsory elective modules WP 1 to WP 19, four compulsory elective modules are to be selected.</p> <p>For this purpose, 1. two compulsory elective modules must be selected from the compulsory elective modules WP 1 to WP 4 and WP 12, 2. one compulsory elective module must be selected from the compulsory elective modules WP 5 to WP 11 and WP 13 to WP 19 and 3. one further compulsory elective module must be selected from the compulsory elective modules WP 1 to WP 19.</p> <p>Two compulsory elective modules should be selected in each of the 2nd and 3rd semesters.</p>
Entry requirements	None
Semester	Recommended semester: 2
Duration	The successful completion of the module takes 1 semester.
Content	The module encompasses the individual practical course and group practical course. In an individual practical course students work individually on a research or development project at the institute for informatic and solve a task independently task under regular supervision. The context is of

the work is a research project and thus students are directly involved in current research activities.

In a group internship a team of students is formed that work together on a theme. Within this context each student has to solve an individual task under regular supervision. The tasks in group practical courses are based on predefined topics in the context of a research project.

Examples include practical tasks in IT security, grid computing, mobile and distributed systems, mobile and wearable applications, software engineering, computer theory, artificial intelligence, machine learning, user interface and interaction technologies, interactive media systems, media and experience design internship, and sketching with hardware.

Learning outcomes	Students are introduced to current research areas in computer science and learn to solve problems independently in these areas under supervision. Students understand and can reflect on research methods and approaches and are able to describe and present their results.
Type of examination	Presentation and thesis
Type of assessment	The successful completion of the module will be graded.
Requirements for the gain of ECTS credits	ECTS credits will be granted when the module examination (or the examination of pertinent mandatory and potential compulsory elective module parts) has/have been completed successfully.
Responsible contact	Prof. Dr. Schmidt
Language(s)	English or German
Additional information	None

Module: WP 4 Practical Course in Informatics II

Program	Master's Program: Management and Digital Technologies (Master of Science, M.Sc.)
----------------	--

Related module parts

Course type	Course (mandatory)	Rotation	Contact hours	Self-study hours	ECTS
Exercise Course	WP 4.1 Course Informatics 2 (Übung)	WiSe and SoSe	15 h (1 SWS)	45 h	(2)
Practical Course	WP 4.2 Course Informatics 2 (Praktikum)	WiSe and SoSe	60 h (4 SWS)	60 h	(4)

For successful completion of the module, 6 ECTS credits have to be acquired. Class attendance averages about 5 contact hours. Including time for self study, 180 hours have to be invested.

Module type	Compulsory elective module with mandatory courses
Usability of the module in other Programs	None
Elective guidelines	<p>The module can be selected in compliance with the following rules:</p> <p>From the compulsory elective modules WP 1 to WP 19, four compulsory elective modules are to be selected.</p> <p>For this purpose, 1. two compulsory elective modules must be selected from the compulsory elective modules WP 1 to WP 4 and WP 12, 2. one compulsory elective module must be selected from the compulsory elective modules WP 5 to WP 11 and WP 13 to WP 19 and 3. one further compulsory elective module must be selected from the compulsory elective modules WP 1 to WP 19.</p> <p>Two compulsory elective modules should be selected in each of the 2nd and 3rd semesters.</p>
Entry requirements	None
Semester	Recommended semester: 2
Duration	The successful completion of the module takes 1 semester.
Content	The module encompasses the individual practical course and group practical course. In an individual practical course students work individually on a research or development project at the institute for informatic and solve a task independently task under regular supervision. The context is of

the work is a research project and thus students are directly involved in current research activities.

In a group internship a team of students is formed that work together on a theme. Within this context each student has to solve an individual task under regular supervision. The tasks in group practical courses are based on predefined topics in the context of a research project.

Examples include practical tasks in IT security, grid computing, mobile and distributed systems, mobile and wearable applications, software engineering, computer theory, artificial intelligence, machine learning, user interface and interaction technologies, interactive media systems, media and experience design internship, and sketching with hardware.

Learning outcomes	Students are introduced to current research areas in computer science and learn to solve problems independently in these areas under supervision. Students understand and can reflect on research methods and approaches and are able to describe and present their results.
Type of examination	Presentation and thesis
Type of assessment	The successful completion of the module will be graded.
Requirements for the gain of ECTS credits	ECTS credits will be granted when the module examination (or the examination of pertinent mandatory and potential compulsory elective module parts) has/have been completed successfully.
Responsible contact	Prof. Dr. Schmidt
Language(s)	English or German
Additional information	None

Module: WP 5 Current Topics in Theory and Practice: Business Administration and Management I

Program	Master's Program: Management and Digital Technologies (Master of Science, M.Sc.)
----------------	--

Related module parts

Course type	Course (mandatory)	Rotation	Contact hours	Self-study hours	ECTS
Lecture	WP 5.1 Current Topics in Theory and Practice: Business Administration and Management 1 (Vorlesung)	WiSe and SoSe	30 h (2 SWS)	60 h	(3)
Exercise Course	WP 5.2 Current Topics in Theory and Practice: Business Administration and Management 1 (Übung)	WiSe and SoSe	30 h (2 SWS)	60 h	(3)

For successful completion of the module, 6 ECTS credits have to be acquired. Class attendance averages about 4 contact hours. Including time for self study, 180 hours have to be invested.

Module type	Compulsory elective module with mandatory courses
Usability of the module in other Programs	None
Elective guidelines	<p>The module can be selected in compliance with the following rules:</p> <p>From the compulsory elective modules WP 1 to WP 19, four compulsory elective modules are to be selected.</p> <p>For this purpose, 1. two compulsory elective modules must be selected from the compulsory elective modules WP 1 to WP 4 and WP 12, 2. one compulsory elective module must be selected from the compulsory elective modules WP 5 to WP 11 and WP 13 to WP 19 and 3. one further compulsory elective module must be selected from the compulsory elective modules WP 1 to WP 19.</p> <p>Two compulsory elective modules should be selected in each of the 2nd and 3rd semesters.</p>
Entry requirements	None
Semester	Recommended semester: 2
Duration	The successful completion of the module takes 1 semester.
Content	This module comprises a selection of courses from research specific clusters within the Business Administration Faculty.

The select and subject specific courses have a scientific as well as theory and application-oriented focus.

Learning outcomes	The module learning objective is to further expand upon knowledge conveyed in foundational and specialized courses with topic relevant, distinct content and aspects. Students have the opportunity to develop or deepen specialized expertise according to individual interest and prioritized focus.
Type of examination	Written exam or exercise portfolio or case study or thesis or presentation or oral examination
Type of assessment	The successful completion of the module will be graded.
Requirements for the gain of ECTS credits	ECTS credits will be granted when the module examination (or the examination of pertinent mandatory and potential compulsory elective module parts) has/have been completed successfully.
Responsible contact	Professors (Business Administration Faculty)
Language(s)	English or German
Additional information	None

Module: WP 6 Current Topics in Theory and Practice: Digital Business and Management I

Program

Master's Program:
Management and Digital Technologies
(Master of Science, M.Sc.)

Related module parts

Course type	Course (mandatory)	Rotation	Contact hours	Self-study hours	ECTS
Lecture	WP 6.1 Current Topics in Theory and Practice: Digital Business and Management 1 (Vorlesung)	SoSe	30 h (2 SWS)	60 h	(3)
Exercise Course	WP 6.2 Current Topics in Theory and Practice: Digital Business and Management 1 (Übung)	SoSe	30 h (2 SWS)	60 h	(3)

For successful completion of the module, 6 ECTS credits have to be acquired. Class attendance averages about 4 contact hours. Including time for self study, 180 hours have to be invested.

Module type	Compulsory elective module with mandatory courses
Usability of the module in other Programs	None
Elective guidelines	<p>The module can be selected in compliance with the following rules:</p> <p>From the compulsory elective modules WP 1 to WP 19, four compulsory elective modules are to be selected.</p> <p>For this purpose, 1. two compulsory elective modules must be selected from the compulsory elective modules WP 1 to WP 4 and WP 12, 2. one compulsory elective module must be selected from the compulsory elective modules WP 5 to WP 11 and WP 13 to WP 19 and 3. one further compulsory elective module must be selected from the compulsory elective modules WP 1 to WP 19.</p> <p>Two compulsory elective modules should be selected in each of the 2nd and 3rd semesters.</p>
Entry requirements	None
Semester	Recommended semester: 2
Duration	The successful completion of the module takes 1 semester.
Content	This module comprises a selection of courses from research specific clusters within the Business Administration Faculty.

The select and subject specific courses have a scientific as well as theory and application-oriented focus.

Learning outcomes	The module learning objective is to further expand upon knowledge conveyed in foundational and specialized courses with topic relevant, distinct content and aspects. Students have the opportunity to develop or deepen specialized expertise according to individual interest and prioritized focus.
Type of examination	Written exam or exercise portfolio or report or programming task
Type of assessment	The successful completion of the module will be graded.
Requirements for the gain of ECTS credits	ECTS credits will be granted when the module examination (or the examination of pertinent mandatory and potential compulsory elective module parts) has/have been completed successfully.
Responsible contact	Professors (Business Administration Faculty)
Language(s)	English or German
Additional information	None

Module: WP 7 Advanced Topics in Management and Business Administration I

Program	Master's Program: Management and Digital Technologies (Master of Science, M.Sc.)
----------------	--

Related module parts

Course type	Course (mandatory)	Rotation	Contact hours	Self-study hours	ECTS
Seminar	WP 7.1 Advanced Topics in Management and Business Administration 1 (Seminar)	WiSe and SoSe	30 h (2 SWS)	60 h	(3)
Proseminar	WP 7.2 Advanced Topics in Management and Business Administration 1 (Proseminar)	WiSe and SoSe	30 h (2 SWS)	60 h	(3)

For successful completion of the module, 6 ECTS credits have to be acquired. Class attendance averages about 4 contact hours. Including time for self study, 180 hours have to be invested.

Module type	Compulsory elective module with mandatory courses
Usability of the module in other Programs	None
Elective guidelines	<p>The module can be selected in compliance with the following rules:</p> <p>From the compulsory elective modules WP 1 to WP 19, four compulsory elective modules are to be selected.</p> <p>For this purpose, 1. two compulsory elective modules must be selected from the compulsory elective modules WP 1 to WP 4 and WP 12, 2. one compulsory elective module must be selected from the compulsory elective modules WP 5 to WP 11 and WP 13 to WP 19 and 3. one further compulsory elective module must be selected from the compulsory elective modules WP 1 to WP 19.</p> <p>Two compulsory elective modules should be selected in each of the 2nd and 3rd semesters.</p>
Entry requirements	None
Semester	Recommended semester: 2
Duration	The successful completion of the module takes 1 semester.
Content	This module comprises a selection of courses from research specific clusters within the Business Administration Faculty. The select and subject specific courses have a scientific as well as theory and application-oriented focus.

Learning outcomes	The module learning objective is to further expand upon knowledge conveyed in foundational and specialized courses with topic relevant, distinct content and aspects. Students have the opportunity to develop or deepen specialized expertise according to individual interest and prioritized focus.
Type of examination	(Written exam or exercise portfolio or case study or thesis or portfolio) and (presentation or oral examination)
Type of assessment	The successful completion of the module will be graded.
Requirements for the gain of ECTS credits	ECTS credits will be granted when the module examination (or the examination of pertinent mandatory and potential compulsory elective module parts) has/have been completed successfully.
Responsible contact	Professors (Business Administration Faculty)
Language(s)	English or German
Additional information	None

Module: WP 8 Advanced Topics in Management and Innovation I

Program

Master's Program:
Management and Digital Technologies
(Master of Science, M.Sc.)

Related module parts

Course type	Course (mandatory)	Rotation	Contact hours	Self-study hours	ECTS
Seminar	WP 8.1 Advanced Topics in Management and Innovation 1 (Seminar)	WiSe and SoSe	30 h (2 SWS)	60 h	(3)
Proseminar	WP 8.2 Advanced Topics in Management and Innovation 1 (Proseminar)	WiSe and SoSe	30 h (2 SWS)	60 h	(3)

For successful completion of the module, 6 ECTS credits have to be acquired. Class attendance averages about 4 contact hours. Including time for self study, 180 hours have to be invested.

Module type	Compulsory elective module with mandatory courses
Usability of the module in other Programs	None
Elective guidelines	<p>The module can be selected in compliance with the following rules:</p> <p>From the compulsory elective modules WP 1 to WP 19, four compulsory elective modules are to be selected.</p> <p>For this purpose, 1. two compulsory elective modules must be selected from the compulsory elective modules WP 1 to WP 4 and WP 12, 2. one compulsory elective module must be selected from the compulsory elective modules WP 5 to WP 11 and WP 13 to WP 19 and 3. one further compulsory elective module must be selected from the compulsory elective modules WP 1 to WP 19.</p> <p>Two compulsory elective modules should be selected in each of the 2nd and 3rd semesters.</p>
Entry requirements	None
Semester	Recommended semester: 2
Duration	The successful completion of the module takes 1 semester.
Content	This module comprises a selection of courses from research specific clusters within the Business Administration Faculty. The select and subject specific courses have a scientific as well as theory and application-oriented focus.

Learning outcomes	The module learning objective is to further expand upon knowledge conveyed in foundational and specialized courses with topic relevant, distinct content and aspects. Students have the opportunity to develop or deepen specialized expertise according to individual interest and prioritized focus.
Type of examination	(Written exam or exercise portfolio or thesis or portfolio) and (presentation or oral examination)
Type of assessment	The successful completion of the module will be graded.
Requirements for the gain of ECTS credits	ECTS credits will be granted when the module examination (or the examination of pertinent mandatory and potential compulsory elective module parts) has/have been completed successfully.
Responsible contact	Professors (Business Administration Faculty)
Language(s)	English or German
Additional information	None

Module: WP 9 Advanced Topics in Management and Digital Business I

Program

Master's Program:
Management and Digital Technologies
(Master of Science, M.Sc.)

Related module parts

Course type	Course (mandatory)	Rotation	Contact hours	Self-study hours	ECTS
Seminar	WP 9.1 Advanced Topics in Management and Digital Business 1 (Seminar)	WiSe and SoSe	30 h (2 SWS)	60 h	(3)
Proseminar	WP 9.2 Advanced Topics in Management and Digital Business 1 (Proseminar)	WiSe and SoSe	30 h (2 SWS)	60 h	(3)

For successful completion of the module, 6 ECTS credits have to be acquired. Class attendance averages about 4 contact hours. Including time for self study, 180 hours have to be invested.

Module type	Compulsory elective module with mandatory courses
Usability of the module in other Programs	None
Elective guidelines	<p>The module can be selected in compliance with the following rules:</p> <p>From the compulsory elective modules WP 1 to WP 19, four compulsory elective modules are to be selected.</p> <p>For this purpose, 1. two compulsory elective modules must be selected from the compulsory elective modules WP 1 to WP 4 and WP 12, 2. one compulsory elective module must be selected from the compulsory elective modules WP 5 to WP 11 and WP 13 to WP 19 and 3. one further compulsory elective module must be selected from the compulsory elective modules WP 1 to WP 19.</p> <p>Two compulsory elective modules should be selected in each of the 2nd and 3rd semesters.</p>
Entry requirements	None
Semester	Recommended semester: 2
Duration	The successful completion of the module takes 1 semester.
Content	This module comprises a selection of courses from research specific clusters within the Business Administration Faculty. The select and subject specific courses have a scientific as well as theory and application-oriented focus.

Learning outcomes	The module learning objective is to further expand upon knowledge conveyed in foundational and specialized courses with topic relevant, distinct content and aspects. Students have the opportunity to develop or deepen specialized expertise according to individual interest and prioritized focus.
Type of examination	(Written exam or thesis or portfolio or programming task or report) and (presentation or oral examination)
Type of assessment	The successful completion of the module will be graded.
Requirements for the gain of ECTS credits	ECTS credits will be granted when the module examination (or the examination of pertinent mandatory and potential compulsory elective module parts) has/have been completed successfully.
Responsible contact	Professors (Business Administration Faculty)
Language(s)	English or German
Additional information	None

Module: WP 10 Topics in Business Administration

Program	Master's Program: Management and Digital Technologies (Master of Science, M.Sc.)
----------------	--

Related module parts

Course type	Course (mandatory)	Rotation	Contact hours	Self-study hours	ECTS
Seminar	WP 10.1 Topics in Business Administration (Seminar)	SoSe	30 h (2 SWS)	60 h	(3)
Proseminar	WP 10.2 Topics in Business Administration (Proseminar)	SoSe	30 h (2 SWS)	60 h	(3)

For successful completion of the module, 6 ECTS credits have to be acquired. Class attendance averages about 4 contact hours. Including time for self study, 180 hours have to be invested.

Module type	Compulsory elective module with mandatory courses
Usability of the module in other Programs	None
Elective guidelines	<p>The module can be selected in compliance with the following rules:</p> <p>From the compulsory elective modules WP 1 to WP 19, four compulsory elective modules are to be selected.</p> <p>For this purpose, 1. two compulsory elective modules must be selected from the compulsory elective modules WP 1 to WP 4 and WP 12, 2. one compulsory elective module must be selected from the compulsory elective modules WP 5 to WP 11 and WP 13 to WP 19 and 3. one further compulsory elective module must be selected from the compulsory elective modules WP 1 to WP 19.</p> <p>Two compulsory elective modules should be selected in each of the 2nd and 3rd semesters.</p>
Entry requirements	None
Semester	Recommended semester: 2
Duration	The successful completion of the module takes 1 semester.
Content	This module comprises a selection of courses from research specific clusters within the Business Administration Faculty. The selected and subject specific courses have a scientific as well as theory and application-oriented focus.
Learning outcomes	The module learning objective is to further expand upon knowledge conveyed in foundational and specialized courses with topic relevant, distinct content and aspects.

Students have the opportunity to develop or deepen specialized expertise according to individual interest and prioritized focus.

Type of examination	Exercise portfolio or written exam or portfolio or thesis
Type of assessment	The successful completion of the module will be graded.
Requirements for the gain of ECTS credits	ECTS credits will be granted when the module examination (or the examination of pertinent mandatory and potential compulsory elective module parts) has/have been completed successfully.
Responsible contact	Professors (Business Administration Faculty)
Language(s)	English or German
Additional information	None

Module: WP 11 Topics in Digital Management

Program	Master's Program: Management and Digital Technologies (Master of Science, M.Sc.)
----------------	--

Related module parts

Course type	Course (mandatory)	Rotation	Contact hours	Self-study hours	ECTS
Seminar	WP 11.1 Topics in Digital Management (Seminar)	SoSe	30 h (2 SWS)	60 h	(3)
Proseminar	WP 11.2 Topics in Digital Management (Proseminar)	SoSe	30 h (2 SWS)	60 h	(3)

For successful completion of the module, 6 ECTS credits have to be acquired. Class attendance averages about 4 contact hours. Including time for self study, 180 hours have to be invested.

Module type	Compulsory elective module with mandatory courses
Usability of the module in other Programs	None
Elective guidelines	<p>The module can be selected in compliance with the following rules:</p> <p>From the compulsory elective modules WP 1 to WP 19, four compulsory elective modules are to be selected.</p> <p>For this purpose, 1. two compulsory elective modules must be selected from the compulsory elective modules WP 1 to WP 4 and WP 12, 2. one compulsory elective module must be selected from the compulsory elective modules WP 5 to WP 11 and WP 13 to WP 19 and 3. one further compulsory elective module must be selected from the compulsory elective modules WP 1 to WP 19.</p> <p>Two compulsory elective modules should be selected in each of the 2nd and 3rd semesters.</p>
Entry requirements	None
Semester	Recommended semester: 2
Duration	The successful completion of the module takes 1 semester.
Content	This module comprises a selection of courses from research specific clusters within the Business Administration Faculty. The selected and subject specific courses have a scientific as well as theory and application-oriented focus.
Learning outcomes	The module learning objective is to further expand upon knowledge conveyed in foundational and specialized courses with topic relevant, distinct content and aspects.

Students have the opportunity to develop or deepen specialized expertise according to individual interest and prioritized focus.

Type of examination	Written exam or exercise portfolio or thesis or report or programming task
Type of assessment	The successful completion of the module will be graded.
Requirements for the gain of ECTS credits	ECTS credits will be granted when the module examination (or the examination of pertinent mandatory and potential compulsory elective module parts) has/have been completed successfully.
Responsible contact	Professors (Business Administration Faculty)
Language(s)	English or German
Additional information	None

Module: P 7 Management and Digital Technologies III

Program

Master's Program:
Management and Digital Technologies
(Master of Science, M.Sc.)

Related module parts

Course type	Course (mandatory)	Rotation	Contact hours	Self-study hours	ECTS
Project Course	P 7.1 Advanced Topics in Management and Digital Technologies (Project Course)	WiSe	60 h (4 SWS)	120 h	(6)
Project Seminar	P 7.2 Advanced Topics in Management and Digital Technologies (Project Seminar)	WiSe	60 h (4 SWS)	120 h	(6)

For successful completion of the module, 12 ECTS credits have to be acquired. Class attendance averages about 8 contact hours. Including time for self study, 360 hours have to be invested.

Module type	Mandatory module with mandatory courses
Usability of the module in other Programs	None
Elective guidelines	None
Entry requirements	None
Semester	Recommended semester: 3
Duration	The successful completion of the module takes 1 semester.
Content	As part of the project course digital economy, students work on a concrete business problem related to the digitalization of products and processes and its impact on organizations. Collaborating with industry partners, the module addresses real-world challenges in digital businesses and digital transformation. During the course, students analyze the industry partners' initially stated problems, identify a suitable scientific approach to address the problem, and develop practical solutions based on empirical data. The results should serve as concrete guidance for managerial decision-making for the respective industry partner.
Learning outcomes	<p>After successful completion of the course, students will be able to:</p> <ul style="list-style-type: none"> • structure practical problems logically. • understand the impact of digital technologies in a business context holistically. • apply suitable scientific methods as well as business and management concepts to questions of the digital economy.

- translate scientific insights into actionable managerial recommendations.

Type of examination	(Written exam or thesis or report or portfolio) and presentation
Type of assessment	The successful completion of the module will be graded.
Requirements for the gain of ECTS credits	ECTS credits will be granted when the module examination (or the examination of pertinent mandatory and potential compulsory elective module parts) has/have been completed successfully.
Responsible contact	Prof. Dr. Hess
Language(s)	English
Additional information	None

Module: P 8 Digital Technologies II

Program

Master's Program:
Management and Digital Technologies
(Master of Science, M.Sc.)

Related module parts

Course type	Course (mandatory)	Rotation	Contact hours	Self-study hours	ECTS
Lecture	P 8.1 Advanced Topics in Digital Technologies (Lecture)	WiSe	45 h (3 SWS)	75 h	(4)
Exercise Course	P 8.2 Advanced Topics in Digital Technologies (Exercise Course)	WiSe	30 h (2 SWS)	30 h	(2)

For successful completion of the module, 6 ECTS credits have to be acquired. Class attendance averages about 5 contact hours. Including time for self study, 180 hours have to be invested.

Module type	Mandatory module with mandatory courses
Usability of the module in other Programs	None
Elective guidelines	None
Entry requirements	None
Semester	Recommended semester: 3
Duration	The successful completion of the module takes 1 semester.
Content	<p>The module teaches the theoretical, conceptual, and technical foundations of interactive technologies, such as web technologies and interactive artificial intelligence. Architectures, components, protocols and approaches for the design and implementation of intelligent interactive systems and multimedia applications are taught.</p> <p>Foundational technologies for storage, transmission, processing, and interactive presentation of multimedia data in the computer network are taught. Aspects of usable security, AI models, performance, and digital rights management are also included. Application areas such as social networks, communication systems, productivity tools and games are introduced, and specific challenges are discussed.</p>
Learning outcomes	The module provides an overview of how to use methods, digital tools and technologies to conceive, design and implement interactive multimodal systems, including AI-based interactive applications. Students will learn basic skills for creating interactive applications with

multimedia content and AI-based functionality. Students will be able to design and implement interactive systems and reflect on their design choices.

Type of examination	Written exam or oral examination
Type of assessment	The successful completion of the module will be graded.
Requirements for the gain of ECTS credits	ECTS credits will be granted when the module examination (or the examination of pertinent mandatory and potential compulsory elective module parts) has/have been completed successfully.
Responsible contact	Prof. Dr. Schmidt
Language(s)	English
Additional information	None

Module: WP 12 Elective Topics in Informatics III

Program	Master's Program: Management and Digital Technologies (Master of Science, M.Sc.)
----------------	--

Related module parts

Course type	Course (mandatory)	Rotation	Contact hours	Self-study hours	ECTS
Lecture	WP 12.1 Elective Topics in Informatics 3 (Vorlesung)	WiSe and SoSe	45 h (3 SWS)	75 h	(4)
Exercise Course	WP 12.2 Elective Topics in Informatics 3 (Übung)	WiSe and SoSe	30 h (2 SWS)	30 h	(2)

For successful completion of the module, 6 ECTS credits have to be acquired. Class attendance averages about 5 contact hours. Including time for self study, 180 hours have to be invested.

Module type	Compulsory elective module with mandatory courses
Usability of the module in other Programs	None
Elective guidelines	<p>The module can be selected in compliance with the following rules:</p> <p>From the compulsory elective modules WP 1 to WP 19, four compulsory elective modules are to be selected.</p> <p>For this purpose, 1. two compulsory elective modules must be selected from the compulsory elective modules WP 1 to WP 4 and WP 12, 2. one compulsory elective module must be selected from the compulsory elective modules WP 5 to WP 11 and WP 13 to WP 19 and 3. one further compulsory elective module must be selected from the compulsory elective modules WP 1 to WP 19.</p> <p>Two compulsory elective modules should be selected in each of the 2nd and 3rd semesters.</p>
Entry requirements	None
Semester	Recommended semester: 3
Duration	The successful completion of the module takes 1 semester.
Content	<p>This module teaches a specific topic in computer science. Theories, concepts and methods and their application are taught.</p> <p>The lab extends and applies the conceptual and theoretical lecture content and deepens the understanding of the con-</p>

cepts. It requires students to apply the methods and techniques learned in the lecture to specific contexts and applications.

Learning outcomes	Students understand and can critically reflect on special topics in computer science, both in terms of their technical requirements and their methodological implementation. Students will be able to apply theoretical and conceptual knowledge to realistic problems.
Type of examination	Written exam or oral examination
Type of assessment	The successful completion of the module will be graded.
Requirements for the gain of ECTS credits	ECTS credits will be granted when the module examination (or the examination of pertinent mandatory and potential compulsory elective module parts) has/have been completed successfully.
Responsible contact	Prof. Dr. Schmidt
Language(s)	English or German
Additional information	None

Module: WP 13 Current Topics in Theory and Practice: Business Administration and Management II

Program	Master's Program: Management and Digital Technologies (Master of Science, M.Sc.)
----------------	--

Related module parts

Course type	Course (mandatory)	Rotation	Contact hours	Self-study hours	ECTS
Lecture	WP 13.1 Current Topics in Theory and Practice: Business Administration and Management 2 (Vorlesung)	WiSe and SoSe	30 h (2 SWS)	60 h	(3)
Exercise Course	WP 13.2 Current Topics in Theory and Practice: Business Administration and Management 2 (Übung)	WiSe and SoSe	30 h (2 SWS)	60 h	(3)

For successful completion of the module, 6 ECTS credits have to be acquired. Class attendance averages about 4 contact hours. Including time for self study, 180 hours have to be invested.

Module type	Compulsory elective module with mandatory courses
Usability of the module in other Programs	None
Elective guidelines	<p>The module can be selected in compliance with the following rules:</p> <p>From the compulsory elective modules WP 1 to WP 19, four compulsory elective modules are to be selected.</p> <p>For this purpose, 1. two compulsory elective modules must be selected from the compulsory elective modules WP 1 to WP 4 and WP 12, 2. one compulsory elective module must be selected from the compulsory elective modules WP 5 to WP 11 and WP 13 to WP 19 and 3. one further compulsory elective module must be selected from the compulsory elective modules WP 1 to WP 19.</p> <p>Two compulsory elective modules should be selected in each of the 2nd and 3rd semesters.</p>
Entry requirements	None
Semester	Recommended semester: 3
Duration	The successful completion of the module takes 1 semester.
Content	This module comprises a selection of courses from research specific clusters within the Business Administration Faculty.

The select and subject specific courses have a scientific as well as theory and application-oriented focus.

Learning outcomes	The module learning objective is to further expand upon knowledge conveyed in foundational and specialized courses with topic relevant, distinct content and aspects. Students have the opportunity to develop or deepen specialized expertise according to individual interest and prioritized focus.
Type of examination	Written exam or exercise portfolio or portfolio pr thesis or oral examination
Type of assessment	The successful completion of the module will be graded.
Requirements for the gain of ECTS credits	ECTS credits will be granted when the module examination (or the examination of pertinent mandatory and potential compulsory elective module parts) has/have been completed successfully.
Responsible contact	Professors (Business Administration Faculty)
Language(s)	English or German
Additional information	None

Module: WP 14 Current Topics in Theory and Practice: Digital Business and Management II

Program

Master's Program:
Management and Digital Technologies
(Master of Science, M.Sc.)

Related module parts

Course type	Course (mandatory)	Rotation	Contact hours	Self-study hours	ECTS
Lecture	WP 14.1 Current Topics in Theory and Practice: Digital Business and Management 2 (Vorlesung)	WiSe	30 h (2 SWS)	60 h	(3)
Exercise Course	WP 14.2 Current Topics in Theory and Practice: Digital Business and Management 2 (Übung)	WiSe	30 h (2 SWS)	60 h	(3)

For successful completion of the module, 6 ECTS credits have to be acquired. Class attendance averages about 4 contact hours. Including time for self study, 180 hours have to be invested.

Module type	Compulsory elective module with mandatory courses
Usability of the module in other Programs	None
Elective guidelines	<p>The module can be selected in compliance with the following rules:</p> <p>From the compulsory elective modules WP 1 to WP 19, four compulsory elective modules are to be selected.</p> <p>For this purpose, 1. two compulsory elective modules must be selected from the compulsory elective modules WP 1 to WP 4 and WP 12, 2. one compulsory elective module must be selected from the compulsory elective modules WP 5 to WP 11 and WP 13 to WP 19 and 3. one further compulsory elective module must be selected from the compulsory elective modules WP 1 to WP 19.</p> <p>Two compulsory elective modules should be selected in each of the 2nd and 3rd semesters.</p>
Entry requirements	None
Semester	Recommended semester: 3
Duration	The successful completion of the module takes 1 semester.
Content	This module comprises a selection of courses from research specific clusters within the Business Administration Faculty.

The select and subject specific courses have a scientific as well as theory and application-oriented focus.

Learning outcomes	The module learning objective is to further expand upon knowledge conveyed in foundational and specialized courses with topic relevant, distinct content and aspects. Students have the opportunity to develop or deepen specialized expertise according to individual interest and prioritized focus.
Type of examination	Written exam or exercise portfolio or thesis or portfolio or programming task
Type of assessment	The successful completion of the module will be graded.
Requirements for the gain of ECTS credits	ECTS credits will be granted when the module examination (or the examination of pertinent mandatory and potential compulsory elective module parts) has/have been completed successfully.
Responsible contact	Professors (Business Administration Faculty)
Language(s)	English or German
Additional information	None

Module: WP 15 Advanced Topics in Management and Business Administration II

Program

Master's Program:
Management and Digital Technologies
(Master of Science, M.Sc.)

Related module parts

Course type	Course (mandatory)	Rotation	Contact hours	Self-study hours	ECTS
Seminar	WP 15.1 Advanced Topics in Management and Business Administration 2 (Seminar)	WiSe and SoSe	30 h (2 SWS)	60 h	(3)
Proseminar	WP 15.2 Advanced Topics in Management and Business Administration 2 (Proseminar)	WiSe and SoSe	30 h (2 SWS)	60 h	(3)

For successful completion of the module, 6 ECTS credits have to be acquired. Class attendance averages about 4 contact hours. Including time for self study, 180 hours have to be invested.

Module type	Compulsory elective module with mandatory courses
Usability of the module in other Programs	None
Elective guidelines	<p>The module can be selected in compliance with the following rules:</p> <p>From the compulsory elective modules WP 1 to WP 19, four compulsory elective modules are to be selected.</p> <p>For this purpose, 1. two compulsory elective modules must be selected from the compulsory elective modules WP 1 to WP 4 and WP 12, 2. one compulsory elective module must be selected from the compulsory elective modules WP 5 to WP 11 and WP 13 to WP 19 and 3. one further compulsory elective module must be selected from the compulsory elective modules WP 1 to WP 19.</p> <p>Two compulsory elective modules should be selected in each of the 2nd and 3rd semesters.</p>
Entry requirements	None
Semester	Recommended semester: 3
Duration	The successful completion of the module takes 1 semester.
Content	This module comprises a selection of courses from research specific clusters within the Business Administration Faculty. The select and subject specific courses have a scientific as well as theory and application-oriented focus.

Learning outcomes	The module learning objective is to further expand upon knowledge conveyed in foundational and specialized courses with topic relevant, distinct content and aspects. Students have the opportunity to develop or deepen specialized expertise according to individual interest and prioritized focus.
Type of examination	(Written exam or exercise portfolio or case study or thesis or portfolio) and (presentation or oral examination)
Type of assessment	The successful completion of the module will be graded.
Requirements for the gain of ECTS credits	ECTS credits will be granted when the module examination (or the examination of pertinent mandatory and potential compulsory elective module parts) has/have been completed successfully.
Responsible contact	Professors (Business Administration Faculty)
Language(s)	English or German
Additional information	None

Module: WP 16 Advanced Topics in Management and Innovation II

Program	Master's Program: Management and Digital Technologies (Master of Science, M.Sc.)
----------------	--

Related module parts

Course type	Course (mandatory)	Rotation	Contact hours	Self-study hours	ECTS
Seminar	WP 16.1 Advanced Topics in Management and Innovation 2 (Seminar)	WiSe	30 h (2 SWS)	60 h	(3)
Proseminar	WP 16.2 Advanced Topics in Management and Innovation 2 (Proseminar)	WiSe	30 h (2 SWS)	60 h	(3)

For successful completion of the module, 6 ECTS credits have to be acquired. Class attendance averages about 4 contact hours. Including time for self study, 180 hours have to be invested.

Module type	Compulsory elective module with mandatory courses
Usability of the module in other Programs	None
Elective guidelines	<p>The module can be selected in compliance with the following rules:</p> <p>From the compulsory elective modules WP 1 to WP 19, four compulsory elective modules are to be selected.</p> <p>For this purpose, 1. two compulsory elective modules must be selected from the compulsory elective modules WP 1 to WP 4 and WP 12, 2. one compulsory elective module must be selected from the compulsory elective modules WP 5 to WP 11 and WP 13 to WP 19 and 3. one further compulsory elective module must be selected from the compulsory elective modules WP 1 to WP 19.</p> <p>Two compulsory elective modules should be selected in each of the 2nd and 3rd semesters.</p>
Entry requirements	None
Semester	Recommended semester: 3
Duration	The successful completion of the module takes 1 semester.
Content	This module comprises a selection of courses from research specific clusters within the Business Administration Faculty. The selected and subject specific courses have a scientific as well as theory and application-oriented focus.

Learning outcomes	The module learning objective is to further expand upon knowledge conveyed in foundational and specialized courses with topic relevant, distinct content and aspects. Students have the opportunity to develop or deepen specialized expertise according to individual interest and prioritized focus.
Type of examination	(Written exam or exercise portfolio or thesis or portfolio) and (presentation or oral examination)
Type of assessment	The successful completion of the module will be graded.
Requirements for the gain of ECTS credits	ECTS credits will be granted when the module examination (or the examination of pertinent mandatory and potential compulsory elective module parts) has/have been completed successfully.
Responsible contact	Professors (Business Administration Faculty)
Language(s)	English or German
Additional information	None

Module: WP 17 Advanced Topics in Management and Digital Business II

Program

Master's Program:
Management and Digital Technologies
(Master of Science, M.Sc.)

Related module parts

Course type	Course (mandatory)	Rotation	Contact hours	Self-study hours	ECTS
Seminar	WP 17.1 Advanced Topics in Management and Digital Business 2 (Seminar)	WiSe and SoSe	30 h (2 SWS)	60 h	(3)
Proseminar	WP 17.2 Advanced Topics in Management and Digital Business 2 (Proseminar)	WiSe and SoSe	30 h (2 SWS)	60 h	(3)

For successful completion of the module, 6 ECTS credits have to be acquired. Class attendance averages about 4 contact hours. Including time for self study, 180 hours have to be invested.

Module type	Compulsory elective module with mandatory courses
Usability of the module in other Programs	None
Elective guidelines	<p>The module can be selected in compliance with the following rules:</p> <p>From the compulsory elective modules WP 1 to WP 19, four compulsory elective modules are to be selected.</p> <p>For this purpose, 1. two compulsory elective modules must be selected from the compulsory elective modules WP 1 to WP 4 and WP 12, 2. one compulsory elective module must be selected from the compulsory elective modules WP 5 to WP 11 and WP 13 to WP 19 and 3. one further compulsory elective module must be selected from the compulsory elective modules WP 1 to WP 19.</p> <p>Two compulsory elective modules should be selected in each of the 2nd and 3rd semesters.</p>
Entry requirements	None
Semester	Recommended semester: 3
Duration	The successful completion of the module takes 1 semester.
Content	This module comprises a selection of courses from research specific clusters within the Business Administration Faculty. The select and subject specific courses have a scientific as well as theory and application-oriented focus.

Learning outcomes	The module learning objective is to further expand upon knowledge conveyed in foundational and specialized courses with topic relevant, distinct content and aspects. Students have the opportunity to develop or deepen specialized expertise according to individual interest and prioritized focus.
Type of examination	(Written exam or exercise portfolio or thesis or portfolio or programming task) and (presentation or oral examination)
Type of assessment	The successful completion of the module will be graded.
Requirements for the gain of ECTS credits	ECTS credits will be granted when the module examination (or the examination of pertinent mandatory and potential compulsory elective module parts) has/have been completed successfully.
Responsible contact	Professors (Business Administration Faculty)
Language(s)	English or German
Additional information	None

Module: WP 18 Topics in Management

Program	Master's Program: Management and Digital Technologies (Master of Science, M.Sc.)
----------------	--

Related module parts

Course type	Course (mandatory)	Rotation	Contact hours	Self-study hours	ECTS
Seminar	WP 18.1 Topics in Management (Seminar)	WiSe	30 h (2 SWS)	60 h	(3)
Proseminar	WP 18.2 Topics in Management (Proseminar)	WiSe	30 h (2 SWS)	60 h	(3)

For successful completion of the module, 6 ECTS credits have to be acquired. Class attendance averages about 4 contact hours. Including time for self study, 180 hours have to be invested.

Module type	Compulsory elective module with mandatory courses
Usability of the module in other Programs	None
Elective guidelines	<p>The module can be selected in compliance with the following rules:</p> <p>From the compulsory elective modules WP 1 to WP 19, four compulsory elective modules are to be selected.</p> <p>For this purpose, 1. two compulsory elective modules must be selected from the compulsory elective modules WP 1 to WP 4 and WP 12, 2. one compulsory elective module must be selected from the compulsory elective modules WP 5 to WP 11 and WP 13 to WP 19 and 3. one further compulsory elective module must be selected from the compulsory elective modules WP 1 to WP 19.</p> <p>Two compulsory elective modules should be selected in each of the 2nd and 3rd semesters.</p>
Entry requirements	None
Semester	Recommended semester: 3
Duration	The successful completion of the module takes 1 semester.
Content	This module comprises a selection of courses from research specific clusters within the Business Administration Faculty. The selected and subject specific courses have a scientific as well as theory and application-oriented focus.
Learning outcomes	The module learning objective is to further expand upon knowledge conveyed in foundational and specialized courses with topic relevant, distinct content and aspects.

Students have the opportunity to develop or deepen specialized expertise according to individual interest and prioritized focus.

Type of examination	Presentation or oral examination
Type of assessment	The successful completion of the module will be graded.
Requirements for the gain of ECTS credits	ECTS credits will be granted when the module examination (or the examination of pertinent mandatory and potential compulsory elective module parts) has/have been completed successfully.
Responsible contact	Professors (Business Administration Faculty)
Language(s)	English or German
Additional information	None

Module: WP 19 Topics in Digital Business

Program	Master's Program: Management and Digital Technologies (Master of Science, M.Sc.)
----------------	--

Related module parts

Course type	Course (mandatory)	Rotation	Contact hours	Self-study hours	ECTS
Seminar	WP 19.1 Topics in Digital Business (Seminar)	WiSe	30 h (2 SWS)	60 h	(3)
Proseminar	WP 19.2 Topics in Digital Business (Proseminar)	WiSe	30 h (2 SWS)	60 h	(3)

For successful completion of the module, 6 ECTS credits have to be acquired. Class attendance averages about 4 contact hours. Including time for self study, 180 hours have to be invested.

Module type	Compulsory elective module with mandatory courses
Usability of the module in other Programs	None
Elective guidelines	<p>The module can be selected in compliance with the following rules:</p> <p>From the compulsory elective modules WP 1 to WP 19, four compulsory elective modules are to be selected.</p> <p>For this purpose, 1. two compulsory elective modules must be selected from the compulsory elective modules WP 1 to WP 4 and WP 12, 2. one compulsory elective module must be selected from the compulsory elective modules WP 5 to WP 11 and WP 13 to WP 19 and 3. one further compulsory elective module must be selected from the compulsory elective modules WP 1 to WP 19.</p> <p>Two compulsory elective modules should be selected in each of the 2nd and 3rd semesters.</p>
Entry requirements	None
Semester	Recommended semester: 3
Duration	The successful completion of the module takes 1 semester.
Content	This module comprises a selection of courses from research specific clusters within the Business Administration Faculty. The selected and subject specific courses have a scientific as well as theory and application-oriented focus.
Learning outcomes	The module learning objective is to further expand upon knowledge conveyed in foundational and specialized courses with topic relevant, distinct content and aspects.

Students have the opportunity to develop or deepen specialized expertise according to individual interest and prioritized focus.

Type of examination	Written exam or exercise portfolio or thesis or report or portfolio
Type of assessment	The successful completion of the module will be graded.
Requirements for the gain of ECTS credits	ECTS credits will be granted when the module examination (or the examination of pertinent mandatory and potential compulsory elective module parts) has/have been completed successfully.
Responsible contact	Professors (Business Administration Faculty)
Language(s)	English or German
Additional information	None

Module: P 9 Final Module

Program	Master's Program: Management and Digital Technologies (Master of Science, M.Sc.)
----------------	--

Related module parts

Course type	Course (mandatory)	Rotation	Contact hours	Self-study hours	ECTS
Master's Thesis	P 9.1 Master's Thesis	WiSe and SoSe	-	840 h	(28)
Colloquium	P 9.2 Colloquium Master's Thesis in Management and Digital Technologies	WiSe and SoSe	15 h (1 SWS)	45 h	(2)

For successful completion of the module, 30 ECTS credits have to be acquired. Class attendance averages about 1 contact hours. Including time for self study, 900 hours have to be invested.

Module type	Mandatory module with mandatory course
Usability of the module in other Programs	None
Elective guidelines	None
Entry requirements	None
Semester	Recommended semester: 4
Duration	The successful completion of the module takes 1 semester.
Content	In the final module, the ability to carry out independent academic work is demonstrated in the form of the Master's thesis. In addition, the colloquium provides the opportunity for presentation and feedback.
Learning outcomes	As part of the Master's thesis, students should demonstrate that they are able to work on a research problem from the area of a chosen major field of study within a specified period of time on the basis of in-depth specialist knowledge, skills and methods in their subject. In addition to the formulation of research questions, the independent work involves a solid literature research, the development of the current state of research, the development of scientifically sound statements, the processing of the problem with the respective standard methods of the subject and the development of a scientifically justified judgment. The results must be presented both linguistically and formally in accordance with the rules of scientific work.
Type of examination	Master's Thesis and (presentation or oral examination)

Type of assessment	The successful completion of the module will be graded.
Requirements for the gain of ECTS credits	ECTS credits will be granted when the module examination (or the examination of pertinent mandatory and potential compulsory elective module parts) has/have been completed successfully.
Responsible contact	Professors (Faculty of Business Administration and Faculty of Informatics)
Language(s)	English
Additional information	None