

# **Course Manual Master's Degree Program** Digital Health Management Full-time model

**MSB Medical School Berlin** University of Applied Sciences and Medical University

**Faculty of Health Sciences** 

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Master's degree program in Digital Health Management Degree: Master of Science

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# 1. Introductory explanations of the module manual

This module handbook for the master's program in Digital Health Management provides students and teachers with a transparent overview of the structure, processes and scope of work of the course. The module descriptions list the scope, learning objectives, exemplary content, and examination performance for orientation purposes.

Essential terms for making the module handbook understandable are explained below:

Admission requirements	The respective admission requirements for participation in a module can be found in the module description.
Semester	One semester lasts six months, two semesters each make up one academic year. After the lecture period, there is a lecture-free period and an examination period.
Credit Points (CP)	Credit Points (CP) are credit points that provide information about the amount of work required for a module. They are awarded in accordance with the European Credit Transfer System (ECTS). One CP corresponds to 30 working hours. The working hours consist of attending the courses and self-study (preparation and follow-up to the courses as well as exam preparation).
Semester hours per week (SHW)	Semester hours per week indicate the time required to attend a course or module per week and comprise a unit of 45 minutes.
Workload	The workload indicates the average workload of the entire module and is divided into contact study and self-study including exam preparation. 30 working hours are calculated per CP.
Examinations	Examinations are generally graded and must be passed for credit points to be awarded for a module. They are made in writing or orally. Written examinations are carried out through exams, coursework, project work and the master's thesis. Oral examinations include oral examination discussions, papers, and presentations.
Module responsible	The person responsible for the module designed the respective course didactically and methodically. However, he is not automatically the corresponding teacher.

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# 2. The MSB profile

The profile of the MSB is characterized by interprofessional training in medicine, the health professions and all professions working in interdisciplinary teams on a health campus.

To this end, the MSB faculties pursue the implementation of an interdisciplinary university concept with a focus on health and medicine in teaching, research, and scientific training. The profile of the MSB consists of the interprofessional linking of university education, research, and the establishment of professional career paths for the health professions, including medicine.

The aim is to establish everyone involved in healthcare to work together in interprofessional teams through academic training in the healthcare professions and networking with the training of medical professionals in a common healthcare campus.

The existing structures of the faculties of health sciences and art, health, and social science as a university of applied sciences and the faculties of human sciences and medicine as a university will be used and further developed.

The faculties of Health Sciences and Art, Health, and Social Science work in a more applicationoriented manner in teaching, research and academic further education and focus on practical relevance in their study programs from the very beginning. They offer degree programs leading to a college degree in part-time study models for working people and/or in full-time study models for school leavers.

The faculties of Human Sciences and Medicine have the status of a scientific college, which is equivalent to a university. They also work in an application-oriented manner in teaching, research, and further scientific training, but focus more on research in their study programs. They offer degree programs leading to university degrees in psychology, psychotherapy, medical education, and medicine in part-time study models for working people and/or in full-time study models for school leavers.

Specifically, this means, among other things, interprofessional training wards, shared skills labs, integrative curricula, and courses are the main focus of training at the MSB. The interlinking of theory and practice through the vertical and horizontal integration of course content from the first and second stages of study in human medicine, the initiation of joint cross-curricular and cross-faculty projects and the connection with multimedia as well as modern logistics are important pillars establishing the MSB profile. The further development of a genuine research profile with a focus on interdisciplinary health research is part of the overall concept of the MSB.

Another focus of implementing the university concept is the development of scientific career paths by supporting young talent from the first day of their training. To this end, rotation positions in medical training are being set up and doctoral opportunities and postdoctoral phases are being promoted. The MSB, in conjunction with its research clusters, sees strengthening scientific competence in the training of all health professions and medical professionals as a strategic task that is implemented consistently both vertically and horizontally.

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# 3. Didactic commentary on the module descriptions

# 3.1 Competence development and initiation

Skill development and initiation will be of particular importance in the 21st century, especially in the health professions. In the Lancet report "Education of Health Professionals for the 21st Century" from 2010 considers the historical upheaval in the healthcare system. Competency-driven approaches should be included in teaching and interprofessional and cross-professional learning should be promoted to overcome silo thinking and promote non-hierarchical collaboration in teams (Careum Foundation 2011). <sup>1</sup>To meet the challenges of the 21st century, educational strategies from the past century should not be continued (ibid.). The professional training of people in the healthcare sector is characterized by transformative learning. Transformative learning can be viewed as the highest level of the learning process (ibid.). Transformative learning also corresponds to Klafki's educational idea, who understands education "[...] as the ability for reasonable selfdetermination, which presupposes or includes the emancipation from external determination, as the ability for autonomy, for the freedom of one's own thinking and one's own moral decisions. That is precisely why self-activity [!] is the central form of implementation of the educational process." (Klafki 2007 p. 19) In his critical-constructive didactics, Klafki (ibid.) highlights four fundamental, both content-related and communication-related attitudes, attitudes, and skills, that are necessary to be able to act.

- Willingness and ability to criticize, including the willingness and ability to self-criticize. [...]
- Willingness and ability to argue, i.e. the effort to bring one's own positions and one's own
  criticism into the context of a conversation or a discourse with others in such a way that [!]
  understanding and critical examination is possible for the interlocutors. [...]
- Empathy in the sense of being able to see a situation, a problem, an action from the position of the other person affected by the matter. [...]
- [...] Networked thinking or connected thinking. [...]

Education should therefore be understood as an independently developed and personally responsible context, the ability for self-determination, co-determination, and the ability to show solidarity. (Klafki 2007)

Informative learning leads to declarative knowledge, formative learning to procedural knowledge and formative-transformational learning to situational knowledge, which becomes visible in the specific requirement situation through competent action in performance (Schenk, 2016).3

<sup>&</sup>lt;sup>1</sup> Careum Foundation. (2011). Translation of the Lancet Commission report. (Frenk J, Chen L, et al. Health professionals for a new century: transforming education to strengthen health systems in an interdependent world. 2010)

<sup>&</sup>lt;sup>2</sup> Klafki, W. (2007). New studies on educational theory and didactics. Contemporary general education and critical-constructive didactics, 6th edition. Weinheim and Basel: Beltz

<sup>&</sup>lt;sup>3</sup> Schenk, O. (2016). The connection between social competence and the sense of coherence among trainees in health and nursing professions. Dissertation. University of Witten/Herdecke. Witten

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# **Concept of competence**

The module descriptions and the module handbook are based on Weinert's (2001)<sup>4</sup> concept of competence. Weinert describes competence as the...

"Cognitive abilities and skills available to individuals or which can be learned by them in order to solve certain problems as well as the associated motivational, volitional and social willingness and abilities in order to be able to use the problem solutions successfully and responsibly in variable situations." (ibid. p. 27f)

Chomsky (1992)<sup>5</sup> complements the term competence with the term performance, understood as the observable behavior in which competence becomes visible.

Erpenbeck and Rosenstiel (2007) 6 also follow this view when answering the question of how competencies can be determined.

"[...] Obviously, competences can only be clarified based on actual performance – the application and use of competence. [..]." (ibid. Introduction p. XVIII)

#### Qualifications framework for German university degrees

The module descriptions in the module manuals are based on the qualification framework for German university degrees (HQR)<sup>7</sup>, qualification level 1 for the bachelor's level and qualification level 2 for the master's level.

The "Qualification Framework for German University Degrees" (HQR) is based on the TUNING Project and the "Dublin Descriptors" developed by the Joint Quality Initiative in classifying the categories of acquired skills. It is the basis for the design of study programs and is used in the Program accreditation is used as a benchmark. The German Qualifications Framework (DQR) assigns all formal qualifications that can be acquired in Germany to eight levels. It is referred to and named in the HQR at levels 6, 7 and 8 when it comes to university qualifications it as the binding document for university degrees (www.hrk.de, n. p.)<sup>8</sup>

The HQR initially distinguishes between four competency categories, of which the first two are divided into further subcategories:

- Knowledge and understanding with the subcategories
  - Broadening knowledge
  - Deepening knowledge
  - Understanding of knowledge
- Use, application and generation of knowledge with the subcategories
  - Use and transfer
  - Scientific innovation
- Communication and cooperation
- Scientific self-image/professionalism

<sup>&</sup>lt;sup>4</sup> Weinert, F. E. (2001). Comparative performance measurement in schools – a controversial matter of course. In FE Weinert (Ed.), *Performance measurements in schools*. Weinheim and Basel: Beltz

<sup>&</sup>lt;sup>5</sup> Chomsky, N. (1992). Aspects of syntax theory. Berlin: Suhrkamp Verlag

<sup>&</sup>lt;sup>6</sup>Erpenbeck, J. & von Rosenstiel, L. (2007). Competence measurement manual. Recognizing, understanding and evaluating competencies in operational, educational and psychological practice. 2nd Edition. Stuttgart: Schäffer-Poeschel

<sup>&</sup>lt;sup>7</sup> German Qualifications Framework Working Group (AK DQR) (2011). German qualifications framework for lifelong learning

https://www.hrk.de/themen/studium/qualificationsFRAME/hqr-und-fqrs/ accessed on March 10, 2017



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The analytical distinction between the categories used was made with awareness of the interdependence of the various aspects of competence and can be supported by the statement of Gnahs (2007).9

"A competency is the ability to successfully cope with complex requirements in specific situations. Competent action includes the use of knowledge, cognitive and practical skills as well as social and behavioral components (attitudes, feelings, values, and motivations). A competence, for example, is not reducible to its cognitive dimension; it includes more than that." (ibid. p. 21f)

The corresponding requirement levels of the competence categories listed above at levels 1 (bachelor's level) and 2 (master's level) can be seen from the following overview in Table 1:

Table 1: Level 1 Bachelor level (HQR) and Level 2 Master level (HQR)<sup>10</sup>

	level (HQR) and Level 2	· ,			
Level 1 Bachelor level  Knowledge and understanding	-	Level 2 Master Level  Knowledge and understandi			
Broadening knowledge:	Deepening knowledge:	Broadening knowledge:	Deepening knowledge:		
The knowledge and under- standing of graduates builds on the level of the university entrance qualification and goes beyond this essential level. Graduates have demon- strated a broad and integrated knowledge and understanding of the scientific foundations of their field of study.	Graduates have a critical understanding of the key theories, principles and methods of their study program and can deepen their knowledge vertically, horizontally and laterally. Their knowledge and understanding corresponds to the state of the specialist literature but should also include some in-depth knowledge of the current state of research in their field of study.	builds on the bachelor's level and significantly deep- y. ens or expands it. Gradu- ates can identify special fea- tures, define and interpret the boundaries, terminology and doctrines of their learn-			
Understanding of knowledge		Understanding of knowledge	•		
Graduates reflect on the epistem technical and practice-relevant s manner. These are seen in relat critically weighed against each of technical plausibility against the tions.	statements in a situation-related ion to the complex context and other. Problems are solved with	Graduates weigh up the technical, epistemologically based correctness, considering scientific and methodological considerations, and can use these considerations to solve practice-relevant and scientific problems.			
Use, application and creation	of knowledge	Use, application and creation	n of knowledge		
Graduates can apply knowledge profession and develop or furthe in their specialist area.	and understanding to a job or	Graduates will also be able to apply their knowledge, understanding and problem-solving skills in new and unfamiliar situations that have a broader or multidisciplinary context to their field of study.			
Use and transfer:	Scientific Innovation:	Use and transfer:	Scientific Innovation:		
Graduates		Graduates			
<ul> <li>collect, evaluate and interpret relevant information, particularly in their study program;</li> <li>derive scientifically based judgments;</li> <li>develop approaches to solutions and implement solutions that correspond to the state of the art;</li> <li>carry out application-oriented projects and contribute to solving complex tasks in a team;</li> </ul>	<ul> <li>derive and define research questions;</li> <li>explain and justify operationalization of research;</li> <li>apply research methods;</li> <li>present and explain research results.</li> </ul>	<ul> <li>integrate existing and new knowledge in complex contexts, even on the basis of limited information;</li> <li>make scientifically based decisions and critically reflect on possible consequences;</li> <li>acquire new knowledge and skills independently;</li> <li>carry out application-oriented projects largely self-directed or autonomously.</li> </ul>	<ul> <li>design research questions;</li> <li>choose concrete ways of operationalizing research and justify them;</li> <li>select research methods and justify this selection;</li> <li>explain research results and interpret them critically.</li> </ul>		

<sup>&</sup>lt;sup>9</sup> Gnahs, D. (2007). Competencies – acquisition, recording, instruments. Bielefeld: Bertelsmann

 $<sup>^{10}</sup>$  https://www.hrk.de/fileadmin/redaktion/hrk/02-Documents/02-03-Studium/02-03-02-Qualifications Framework/2017\_Qualifications Framework\_HQR.pdf, accessed on April 4, 2017

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independently design fur-

ther learning processes.			
Communicative skills		Communicative skills	
Graduates		Graduates	
odologically sound arguments resentatives and non-speciali communicate and cooperate tives and non-specialists in or	nese with theoretically and meth- in discourse with specialist rep- sts;	<ul> <li>to communicate their conclumation and motivations to specification and unambiguous man state of research and application to exchange information, idea scientific level with special people</li> <li>to take on prominent response</li> </ul>	pecialists and laypeople in a series based on the current ation.  as, problems and solutions at its representatives and lay-
Scientific self-image/profession	onalism	Scientific self-image/profess	ionalism
graduates     develop a professional self-	mage that is oriented towards	<ul><li>graduates</li><li>develop a professional self</li></ul>	-image that is oriented to-
the goals and standards of psional fields that are primari justify their own professiona methodological knowledge; can assess their own abilities vant creative and decision-nunder guidance; Recognize the framework of in an appropriate manner ar	professional action in profes- ly outside of science; I actions with theoretical and es, autonomously reflect on rele- naking freedoms and use these conditions for professional action and justify their decisions ethically essional actions in relation to so-	wards the goals and standa both in science and in profe ence;  justify their own profession methodological knowledge gard to alternative designs; assess their own abilities, usign and decision-making a these further under guidance recognize the framework of tion in an appropriate and oreflect on decisions in a resection of their professions.	ards of professional action essional fields outside of sci- al actions with theoretical and and reflect on them with resure relevant freedom of deautonomously and develop ce; onditions for professional accross-situational manner and sponsible and ethical manner; fessional actions in relation to insequences and further de-

#### 3.2 Link with the interdisciplinary and interprofessional university concept

The principle of cross-faculty and cross-curricular teaching in health-related courses with the aim of horizontal and vertical curricular linkage, as presented in the interdisciplinary and interprofessional university concept, is considered in the module descriptions. Because this interlinking is organizationally demanding and the number of hours is not uniform and the skills and content do not match exactly, the references to the possibility of linking individual modules do not mean that the modules are taught 1:1 across study programs. Rather, certain parts of different modules can be prepared in such a way that *module parts* can then be taught in combination with several degree programs to promote interprofessional skills. Another approach to implementing the interdisciplinary and interprofessional university concept consists in bringing together study programs for presentations/project development and in guided professional field exploration, which includes assignments for criteria-guided observation and reflection of interprofessional aspects in practice.

Another university didactic approach to promoting interprofessional competencies is "learning through teaching". Students can convey the thematic focus of the linked modules, which are primarily disciplinary in their degree program, to students of other degree programs in well-prepared "interdisciplinary module islands". In addition to content aspects, the awareness and appreciation of other health professions can be promoted. The implementation of the interdisciplinary and interprofessional university concept should initially take place in a pilot phase using three selected exemplary modules and, after evaluation and, if necessary, modification of the pilot model, the concept should be further implemented.



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On interprofessional POLi days (**p**roblem **o**riented **l**earning **i**nterprofessional), which are held once per semester, makes the MSB an open learning landscape. Interprofessional learning can be experienced by students in a special dynamic in the diversity of existing study programs. Approximately 200 students work across departments in small, interprofessional groups using the POL (problem-oriented learning) learning format to solve a relevant problem in health care practice. They are accompanied by teachers specially trained as POLi tutors. The results will be presented in plenary session. Various problem solutions are to be expected, which are intended to stimulate and motivate discussions, exchange of ideas and further interactions. Important multipliers for dealing with further questions using POL are the trained tutors, but also the students themselves. The evaluation of these events should provide information about the potential that POLi has for implementing the MSB's interprofessional learning concept and what personal effects are perceived by teachers and students become.

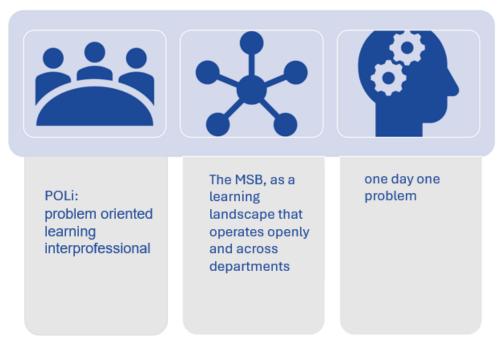


Figure 1 Interprofessional POLi day MSB

Aspects of interprofessional cooperation should be explicitly addressed in the practical professional modules of MSB degree programs. For this purpose, a uniform teaching unit is provided to prepare for interprofessional observation and reflection tasks on the topic of interprofessional cooperation, which is introduced in a training course.

In all research modules, the teachers also deepen interprofessional/interdisciplinary aspects and point out the desirability of choosing topics for project work from the area of interdisciplinarity/interprofessionality.

In order to implement the MSB's interdisciplinary and interprofessional university concept, the topic of "Interprofessional Cooperation" will be introduced to all first-year students in a cross-curricular and cross-faculty kick-off event from the summer semester of 2018 onwards. The kick-off event is structured as follows:

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- Input from teachers, introduction to the topic
- Interactive methods for presenting different professions and courses of study
- Methods for making personal contacts (e.g. speed dating with the task of having met at least three students from other courses)
- Introduction to the "Interprofessionality Portfolio" (see below)

The "Portfolio Interprofessionality" should be worked on throughout the time of the course with regard to the systematically offered interprofessional and interdisciplinary teaching-learning arrangements as well as with regard to informal experiences, observations and reflections. All teachers are trained on this portfolio to work towards its continuation in their courses (particularly for content and skills that are expressly identified as interprofessional or supra-professional).

Extracurricular lectures are organized on an ongoing basis, in which all MSB students are expected to take part. As an additional extracurricular offer, a certificate module "Trainer for Interprofessional Competencies" is being developed, which is also open to all MSB students.

The outlined approaches to implementing the interprofessional and interdisciplinary university concept are summarized in Figure 2.

Joint kick-off event (participation by all first-year students from all degree programs) in the introductory phase of "interprofessional cooperation"

"Portfolio Interprofessionality", processing through the entire course of study

Cross-curricular interprofessional POLi days (1x per semester)

# Cross-curricular and cross-faculty modules / module parts

- Link matrix has overlapping relevant content and skills across faculties and study programs
- · Joint lessons in (partial) modules
- "Learning through teaching" approach:
   "interdisciplinary island" in modules,
   presentation of disciplinary primary
   subject matters by students for students

Professional internships/ career field explorations with mentor program/traineeship

- Uniform teaching unit for preparation for interprofessional observation and reflection tasks on the topic of interprofessional cooperation
- Follow-up of the internships to process the observations and reflections
- Derivation of research questions for theses with a focus on interdisciplinarity

Research modules (addressing interprofessionality/interdisciplinarity in research projects; evaluation of projects developed and implemented in interdisciplinary modules)

Offer of a certificate "trainee for interprofessional cooperation"

Figure 2 Building blocks of an interdisciplinary and interprofessional university concept

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#### 4. The Master's degree program in Digital Health Management

#### Objectives of the course

By completing the master's program in Digital Health Management (M.Sc.), graduates acquire an in-depth qualification in information technology, economics and health sciences. This enables graduates to take on demanding applied information technology projects and tasks in the healthcare system based on scientific methods and knowledge, as well as to shape the digitalization of the healthcare industry. Scientific and data-based methods lead to evidence-based solutions. Practice-oriented projects ensure early practical relevance and prepare graduates for digitalization tasks in the healthcare industry, in healthcare service facilities and in the area of healthcare administration.

The concept of the course is interdisciplinary and interprofessional from the outset and is therefore closely based on the mission statement of the Medical School Berlin. This approach is already evident in the entry requirements. Students with degrees in economics, health and IT have access. The reason for this approach is the observation in practice that the transformation of information and decision-making processes in the healthcare system requires skills from the disciplines mentioned. None of the disciplines mentioned and none of the professions working in the healthcare sector will be able to achieve digital health implementation on their own. This shared understanding is made possible by this mindset alone.

This interdisciplinary and interprofessional approach then continues in the curriculum.

Through broad knowledge of the decision-making criteria for the selection of technological components and the teaching of methods in digital health, this knowledge acquired in the master's program is combined with the economic and technical skills. This gives graduates the ability to understand and evaluate patient-oriented and stakeholder-related relationships in the healthcare system from an information technology and health economics perspective, and to derive opportunities for digitalization from this. In addition, the students understand institutional and organizational features in the healthcare industry and become experts in the digital healthcare industry. The understanding of complex concepts and the content-conceptual work in the various sectors of the healthcare industry are part of her repertoire, as is the application of technological components to current and future developments in the healthcare system as well as critical reflection on the benefits of cost-effectiveness and quality. They can incorporate innovative knowledge of technologies and markets into the argument.

This approach gains a further facet through an elective subject that is offered in the third semester and allows the student to explore further areas of the health sector.

#### Study content

# Fields of competence

The skills taught in the course are aimed at the qualification requirements for the master's level formulated in the qualification framework for German university degrees: knowledge, understanding and ability. The students broaden and deepen their knowledge. Building on an initial academic degree with a focus on health or economics, they internalize further scientific concepts and can critically reflect and evaluate them in the context of various professional fields. They are able to

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apply the findings to new and unfamiliar situations in business practice and to independently deepen their knowledge and skills.

The students gradually develop a holistic view of the individual subject areas of value creation in the healthcare industry and are enabled to collect, evaluate, interpret and integrate relevant information in complex initial situations in order to derive scientifically based judgments and independently design further learning processes. Finally, the students acquire communication skills to be able to exchange ideas with experts in the scientific community as well as with professional practitioners.

Relevant modules have been designed for each field of competence, which enable the objectives of the master's degree to be achieved. The master's program in Digital Health Management is divided into 17 modules, which are assigned to the following areas of competence:

### General and specific professional skills

As part of the general specialist skills, specific economic skills are taught based on skills already acquired. Module M1 "Business Models in the Digital Economy" looked at the general framework and examined the specifics of digital business models. The M2 "New Work & eLeadership" module focuses on the changed work and leadership structure in companies and the M3 "Digital Transformation & Agile Management" module looks at the change process of the company organization. For the competence field of specific specialist skills, topics are dealt with in depth in the context of the healthcare industry and with a view to industry-specific courses of action. The M4 module "eHealth (Application and Areas)" provides an understanding of technical applications and subject areas for the entire range of applications. The M5 "Data Management & Business Intelligence" module deals with the evaluation and analysis of large amounts of data and considers the possibilities of AI. In module M6 "eHealth (Technologies)" the technological foundations for the conception and design of digital processes are laid. Module M7 "Medical Diagnoses and Procedures" discusses technological applications in the processes of "diagnosis" and "therapy" and addresses relevant classification systems. The module M8 "Biomedical Ethics & Regulatory Affairs" examines the framework conditions of digitalization in the healthcare system and ethical conflicts. Module M11 "Health Economy" focuses on the performance and financial flows in the healthcare system against the background of a digital transformation. The cost bearers are examined in more detail. In addition, international system comparison is implemented in this subject.

The elective subject in module M15 serves to sharpen the students' profile. A corresponding catalog is available in the faculty.

### Professional field-related competence

As part of the job-related management skills, students can practically apply their knowledge in various areas of activity to new and unusual issues in a company and master the necessary concepts and tools. The students apply their business knowledge and all the instrumental skills they acquired in the course to concrete practical projects. They will learn to develop economically viable and innovative business models in a team and to apply them in a targeted manner to a future market in the healthcare sector. In this context, students visit innovative companies and analyze their business models and engage in existing problems (M12 "Project: eHealth Business Development"). As part of the internship (M13 "Internship"), students are enabled to effectively apply the specialist knowledge they have acquired during their studies in professional practice and to independently carry out application-oriented projects.

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Conversely, students can classify and critically evaluate the acquired practical experience into business concepts and to independently acquire new knowledge. At the end of the internship, the students have precise and comprehensive ideas about future professional activity in the breadth and depth of their field of study.

# Methodological and problem-solving skills, personal and social skills

In addition to specialist knowledge, students acquire a variety of interdisciplinary key qualifications that are required for specialists and managers in all kinds of companies. The following areas of competence are deepened:

- Self-competence: Students are supported through their studies in further developing their
  personality. They have a realistic self-image and take a position on legally and ethically
  relevant economic issues in the context of economic views of humanity. The master's program also deepens the skills in self-organization, especially in time management and dealing with stress. At the end of their studies, students can assess their own strengths and
  weaknesses in order to decide on suitable fields of activity in professional practice based
  on their individual ideas, preferences and talents.
- Problem-solving skills: Students are enabled to remain capable of acting even in complex situations and to react flexibly and spontaneously to changing requirements and to develop creative solution options for new types of problems. The students learn to learn and can also analyze, understand, and generate solutions to novel interdisciplinary problems in practice with the help of the abstract concepts and models they have internalized during their studies. The students' creativity is also further developed, which is evident in all the modules in which new problems are solved innovatively with the help of specific management tools.
- Methodological competence: Students deepen their skills when dealing with relevant questions. They are proficient in scientific terminology and know the different schools of thought in the subject, they can read and understand complex texts, think deductively and inductively and are able to address scientific questions using appropriate research methods. They can collect, evaluate, and interpret information on selected topics and use mathematical and statistical methods to process this information if the subject suggests this (M16 "Research Methodology & Tutorial Master Thesis"). They can communicate with experts in the scientific community. They understand how knowledge is produced and evaluated in the science system. These skills are particularly relevant when writing the master's thesis (Module M17 Master's Thesis & Colloquium").
- Social skills: Students also deepen their soft skills, they strengthen empathy through diverse interactions with different people (professors, fellow students, superiors, colleagues), and they can resolve communication disorders through feedback and metacommunication. They develop their ability to deal with conflict and can contribute their expertise to team and group work. These social skills are particularly deepened in module M14 "Training Soft Skills".

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# 5. Module overview

	Module		Wee	eki hour	s / seme	ster	СР
	Nr.	Modules	1. Sem.	2. Sem.	3. Sem.	4. Sem.	
	M1	Business Models in the Digital Economy		3			5
General	M2	New Work & eLeadership		3			5
Ger	M3	Digital Transformation & agile Management		3			5
		Summe					15
	M4	eHealth (Application and Areas: Professional centered)		3			5
	M5	Data-Management & Business Intelligence			3		5
	M6	eHealth (Technologies)	3				5
ij.	M7	Medical Diagnosis and Procedures	3				5
Specific	M8	Biomedical Ethics & Regulatory Affairs				3	5
S	M9	Strategic Corporate Management	3				5
	M10	eHealth (Applications and Areas: Patient centered)			3		5
	M11	Health Economy		3			5
		Sum					40
ical	M12	Project: eHealth-Business Development		3			5
Practical	M13	Internship			Block		20
а.	Sum						25
	M14	Training Soft Skills	3				5
odic	M15	Elective Subject			3		5
Methodic	M16	Research Methodology & Tutorial Master Thesis			3		5
2	M17					2	25
						40	
	Sum		12	18	12	5	120

# 6. Module descriptions

Study program: Digital Health Management - full-time model

Module group: General professional competence

Module: M1 – Business Models in the Digital Economy

Module responsible 11: Team of professors

SHW	3	Contact study	45	Self-study	105
semester	2	Workload	150	ECTS	5
Usability of the mode	ule	This module is offered	to student	s of the master's prog	ram in
		Digital Health Manager	ment.		
<b>Duration and freque</b>	псу	1 semester, every 2nd semester			
Participation require	ments	nts According to the standard course of study			
Kind of event	Kind of event The teaching and learning events are offered in lecture and se				
	nar form. As part of the lecture, the teaching and learning con				ng content
		is presented by the teachers and placed in a larger context. The			
		learning context is prepared in such a way that students can build			
		up and deepen their knowledge base. In the seminar, students			

<sup>&</sup>lt;sup>11</sup>General remark: The term "module responsible" does not necessarily mean the teacher assigned to the module.

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Qualification goals/competencies	work on practice-relevant topics independently, including using literature from one or more sources or using case studies. The teacher takes on the role of "learning coach" and accompanies the students in analyzing, discussing and reflecting on the teaching and learning content in smaller groups.  After completing the course, students will be able to use different methods to evaluate existing business models and can develop their own digital business models in the healthcare sector for various applications. They understand digital change and can assess disruptive developments and analyze their consequences for established business models.
Content of the module	The event is a basic module that helps to impart general specialist knowledge in the field of business administration. Specifically, it is about laying a foundation regarding business models and business processes in general and in the digital context of the healthcare industry in order to ensure connectivity with regard to business and management-oriented modules in the degree program.  Basics and special features of the digital economy  Overview of business models and business model patterns as well as business processes, especially in the areas of digital health  Methods for identifying the drivers for successful business models  Practical examples: Business models in the digital context of the healthcare industry  Business simulation game in groups
Forms of learning	Lecture, seminar, presentations, case studies, group work, discussion
Exam form	Written assignment
Recommendation for sub- ject-related basic literature (Note: Deviations are possible for different teachers)	Zhu, X. (2019): Emerging Champions in the Digital Economy: New Theories and Cases on Evolving Technologies and Business Models (Management for Professionals), Springer 2018.

Master's degree program in Digital Health Management Degree: Master of Science



Study program: Module group: Digital Health Management - full-time model

General professional competence Module: M2 - New Work & eLeadership

Module responsible: Team of professors

SHW	3	Contact study	45	Self-study	105
semester	2	Workload	150	ECTS	5
Usability of the mode	ule	This module is offered		s of the master's prog	ram in
<b>D</b>		Digital Health Manager			
Duration and freque		1 semester, every 2nd		f - t d	
Participation require Kind of event	ments	According to the standa			and somi
Kind of event		The teaching and learn nar form. As part of the			
		is presented by the tea			
		learning context is prep			
		up and deepen their k			
		work on practice-releva	ant topics i	ndependently, includin	g using lit-
		erature from one or m			
		teacher takes on the rol			
		students in analyzing,			e teaching
Ovelification mode/s		and learning content in			
Qualification goals/c	ompe-	The students know the and controlling work be			
tericies		cesses, have knowledge			
		the specifics of human	_	•	
		can integrate these int			
		value system and your			
		about resilience and se	elf-leaders	hip.	
		Frontly a management of the desired			
		Furthermore, students ployee potential, are mo			
		in core processes of hu			
		strengthen personal p		9	
		their own behavior in th			
		with people who have o			
		situations and in the in			
		in solving problems in			
0	• -	orities for in-depth work			
Content of the modu	ie	The course covers the			
		and "motivation" as wel "leadership". Knowledg			
		As a basis for the cons			
		in this course acquire			
		skills, the ability to work			
		lems in work design an	d leaders	nip.	
				eld of human resource:	
				ns of terms and a proc	ess map
		<ul> <li>Basics of leadership</li> </ul>			
		Leadership in the m	•	nt process	
		Leaders: born or ma			
		Leadership vs Mana     Facenamia and accidents	•	oritorio for landarshin	
				criteria for leadership	
		<ul><li>Leadership and Ethics</li><li>Classic leadership theories</li></ul>			
		Classic leadership t	neones		



	<ul> <li>Selected New Leadership Approaches</li> <li>Detailed representation of the steps of process functions (personnel planning, procurement, development and personnel release), as well as cross-sectional functions (personnel marketing)</li> <li>Teaching selected techniques and skills for their practical implementation</li> <li>Raising awareness of the influence of demographic change and introduction of new technologies (Industry 4.0)</li> <li>Teaching scientific methods for assessing employee potential (competency model) with regard to cognitive abilities, personality and motivation</li> <li>Representation of the specifics of healthcare organizations (i.e. "professional organizations" and external factors)</li> <li>Transfer of knowledge and skills into the context of the health sector</li> <li>Self-management and self-regulation as a requirement in a professional context as well as a critical examination of the concept of "New Work" (Bergmann/Väth):         <ul> <li>A conscious personal work-lifestyle ("Life Blending")</li> <li>A systemically oriented competency model of work-relevant skills</li> <li>A change model for organizations</li> </ul> </li> <li>An intensive debate about the role of work in society and politics ("New Work Deal")</li> </ul>
Forms of learning	Seminar, presentations, case studies, group work, discussion
Exam form	Written assignment
Recommendation for subject-related basic literature (Note: Deviations are possible for different teachers)	<ul> <li>Barr, J., &amp; Dowding, L. (2015): Leadership in health care (2nd ed.). Los Angeles: SAGE.</li> <li>Furnham, A. (2008): Personality and intelligence at work: exploring and explaining individual differences at work. London; New York: Routledge.</li> <li>Howard, P. J., &amp; Howaerd, J. M. (2010): The owner's manual for personality at work (2nd ed.). Charlotte, NC: The Center for Applied Cognitive Studies (CentACS).</li> </ul>

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Master's degree program in Digital Health Management Degree: Master of Science

Study program: Module group: Digital Health Management - full-time model

General professional competence

Module: M3 Digital Transformation & Agile Management

Module responsible: Team of professors

SHW	3	Contact study	45	Self-study	105	
semester	2	Workload	150	ECTS	5	
Usability of the mode	ıle	This module is offered to students of the master's program in Digital Health Management.				
<b>Duration and frequer</b>	тсу	1 semester, every 2nd	semester			
Participation require	ments					
Qualification goals/c tencies		1 semester, every 2nd semester According to the standard course of study The teaching and learning events are offered in lecture and set are form. As part of the lecture, the teaching and learning contex is presented by the teachers and placed in a larger context. The learning context is prepared in such a way that students can burn and deepen their knowledge base. In the seminar, student work on practice-relevant topics independently, including using erature from one or more sources or using case studies. The teacher takes on the role of "learning coach" and accompanies to students in analyzing, discussing, and reflecting on the teaching and learning content in smaller groups.  The students can name and explain the characteristics, produres, and success factors according to which necessary change are recognized and change processes are designed in modern ganizations. They can describe typical tasks of managers to in ate and support change processes, especially when introducinew technical or digital applications, and change. They can develop ways to deal with resistance that arises among the affect stakeholders. The students recognize the special challenges change management in an international environment and can accept and solve them in a fact-oriented manner.  Based on the solution approaches taught in the course, studed can analyze drivers and factors of change and understand changent transformation processes to be successful.  Interdisciplinary skills:  The students can independently determine change requirement and derive constructive-critical recommendations for change to ics. Through exercises in small group work, they deepen the teamwork, conflict, and communication skills. When working on project (examination), they will learn to plan and organize changent transformation projects in an action-oriented manner as team. They learn to take individual and collective responsibility work results and to present and defend your solutions.  Students also learn the methods and tools for effectively leadismall an				
Content of the modu	le	Basics of change and transformation management     Driving forces, strategies, and theories for mastering the change     Company maturity levels				



	<ul> <li>Managing change and transformation projects</li> <li>Typical transition processes in organizations</li> <li>The role and behavior of people in change processes</li> <li>Success and failure factors in change processes</li> <li>Design of change and transformation processes</li> <li>The critical roles in the change process</li> <li>Change Sponsor and Change Manager</li> </ul>
	Change agent and affected stakeholders
	Techniques and tools of change and transformation  Stakeholder management  Knowledge management  Selected organization and intervention techniques  English terminology of change management  Large group techniques  Collegial coaching  Design of rooms  Agile teams, self-organization, and Scrum processes
	Coping with emotional-psychological situations in the change process  Dealing with resistance Way of dealing with power
	Communicate successfully in change processes  Media and methods of change communication  Communication processes
Forms of learning	Seminar, presentations, case studies, group work, discussion
Exam form	Oral examination
Recommendation for sub- ject-related basic literature (Note: Deviations are possible for different teachers)	Kerner, H. (2009) Project Management- a systems approach, New Jersey, 10 <sup>th</sup> edition Project Management Institute (Edit.) (2008) Project Management Body of Knowledge, 4 <sup>th</sup> edition, Atlanta

dical University

Master's degree program in Digital Health Management Degree: Master of Science

**Study program:** Digital Health Management - full-time model

Module group: Specific professional competence

Module: M4 eHealth (Application and Areas – Professional

centered)

Module responsible: Team of professors

SHW	3	Contact study	45	Self-study	105	
semester	2	Workload	150	ECTS	5	
Usability of the mode	ıle	This module is offered to students of the master's program in Digital Health Management.				
<b>Duration and frequer</b>	тсу	1 semester, every 2nd	semester			
Participation require	ments	According to the standa	ard course	e of study		
Kind of event		The teaching and learning events are offered in lecture and sem nar form. As part of the lecture, the teaching and learning conte is presented by the teachers and placed in a larger context. The learning context is prepared in such a way that students can but up and deepen their knowledge base. In the seminar, studen work on practice-relevant topics independently, including using learning from one or more sources or using case studies. The teacher takes on the role of "learning coach" and accompanies the students in analyzing, discussing and reflecting on the teaching and learning content in smaller groups.				
Qualification goals/c tencies	ompe-	Students can explain and evaluate the various possible uses digital technologies in healthcare. They will gain an understand of the decision-making criteria for selecting technological compents. They can analyze and evaluate all tools and services to use information and communication technologies and are used prevention, diagnosis, treatment, monitoring, and management the health sector. The students have acquired basic informat technology skills to develop initial ideas for appropriate digitalition strategies.				
Content of the modu	The learning objectives also include the application of technological components to current and future healthcare networks and crical reflection on the benefits as well as technical, ethical and da protection aspects. Emphasis is placed on solutions in which the citizen/patient will take an active part in healthcare in the future					
Content of the modu	ie	<ul> <li>Telemedicine, mobile medical application for communication over long distances, regardless of physical presence</li> <li>Computer-aided procedures for collecting and evaluating health data</li> <li>Interfaces and interface communication</li> <li>Performance characteristics</li> <li>Data security and protection</li> <li>eHealth applications &amp; application criteria</li> <li>KIS, EFA, EPA, EGA</li> <li>Home care/telemonitoring for different fields of application</li> <li>AAL and other applications</li> <li>Portals</li> <li>Social media in healthcare</li> <li>The role of the patient: Health Literacy, eHealth Literacy, P tient Empowerment</li> <li>Acceptance (influences, strategies, etc.)</li> <li>Introduction strategies</li> </ul>				

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Forms of learning	Seminar, presentations, case studies, group work, discussion
Exam form	Presentation
Recommendation for subject-related basic literature (Note: Deviations are possible for different teachers)	<ul> <li>The Digital Doctor: Hope, Hype, and Harm at the Dawn of Medicine's Computer Age by Robert Wachter</li> <li>The Creative Destruction of Medicine: How the Digital Revolution Will Create Better Health Care by Eric Topol</li> <li>Health Informatics: Practical Guide for Healthcare and Information Technology Professionals by Robert E. Hoyt and Ann K. Yoshihashi</li> </ul>

Master's degree program in Digital Health Management Degree: Master of Science

Study program: Digital Health Management - full-time model

Module group: Specific professional competence

Module: M5 Data Management & Business Intelligence

Module responsible: Team of professors

SHW	3	Contact study	45	Self-study	105	
semester	3	Workload	150	ECTS	5	
Usability of the mode	ule	This module is offered		s of the master's prog	ram in	
		Digital Health Manager				
Duration and freque		1 semester, every 2nd				
Participation require	ments	According to the standa				
kind of event		The teaching and learning events are offered in lecture and sem nar form. As part of the lecture, the teaching and learning conter is presented by the teachers and placed in a larger context. The learning context is prepared in such a way that students can built up and deepen their knowledge base. In the seminar, students work on practice-relevant topics independently, including using liferature from one or more sources or using case studies. The teacher takes on the role of "learning coach" and accompanies the students in analyzing, discussing and reflecting on the teaching and learning content in smaller groups.				
Qualification goals/c tencies		The students should understand the importance of information for a company, recognize and perceive it as critical success factors and be able to apply it to different markets. They will gain access to tools for determining information needs and designing information systems and will learn about the main application areas of eHealth, which includes the entire process from collection and processing to analysis and evaluation of specific digital health data. The graduates of the event know about the importance of IT for the management process and company success and learn to understand how business intelligence (BI) is integrated into company IT. They will gain knowledge of the basic architecture of BI systems and the ability to analyze and visualize data.  After completing the course, students are also able to design smaller data cubes and create and evaluate them using appropri-				
Content of the modu	le	<ul> <li>Basic procedures of Time series analysis</li> <li>Factor analysis &amp; C</li> <li>Multiple regression</li> <li>Introduction to Busin</li> <li>Database basics Restion, multidimension</li> <li>Sales, inventory co</li> <li>Analytical information visualization, dashin</li> <li>Big Data, Artificial in</li> <li>Social media analy</li> <li>Business intelligence</li> <li>Business application</li> </ul>	e & Statis of multivari is & Analy Cluster and , logistic re iness Intel Relational hal data m htrol, proc on system board labo htelligence sis ce, contro ons (opera	tical testing procedure interesting analysis risis of variance alysis egression, etc lligence databases, SQL lab,	normaliza- gement nformation ita mining s pplications	

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Forms of learning	Lecture, seminar, presentations, case studies, group work, discus-				
	sion				
Exam form	Written examination				
Recommendation for sub- ject-related basic literature (Note: Deviations are possible for different teachers)	Kimball, R.; Ross, M.: The Data Warehouse Toolkit: The Complete Guide to Dimensional Modelling, John Wiley & Sons, New York 2002.  Few, S.: Information Dashboard Design, O'Reilly, Beijing 2009.				



Master's degree program in Digital Health Management Degree: Master of Science

Study program: Module group: Digital Health Management - full-time model

Specific professional competence M6 eHealth (Technologies) Module:

Module responsible: Team of professors

SHW	3	Contact study	45	Self-study	105		
semester	1	Workload	150	ECTS	5		
Usability of the module		This module is offered		s of the master's prog	ram in		
		Digital Health Manager					
Duration and frequer		1 semester, every 2nd					
Participation require	ments	According to the standa			1		
Kind of event		The teaching and learn					
			nar form. As part of the lecture, the teaching and learning content is presented by the teachers and placed in a larger context. The				
		learning context is prep					
		up and deepen their k					
		work on practice-releva					
		erature from one or m					
		teacher takes on the rol					
		students in analyzing,			e teaching		
0 110 0 1.7		and learning content in					
Qualification goals/c	ompe-	Students have knowled					
tencies		the technologies. They ical devices and can a	_				
		sues (biocompatibility).					
		plication of medical dev					
		diagnostics. The regulatory guidelines and laws for placing medi-					
		cal devices on the marl			J		
Content of the modu	le	<ul> <li>Strategic and Oper</li> </ul>	rational in	formation managemer	nt (ICT se-		
		lection process and ICT controlling)					
		Exemplary IT structures in the healthcare industry (personnel,					
		systems, definitions, legal framework, data protection)					
		Technology management (hardware, networks, reinvestment)     Desumentation and archiving					
		Documentation and archiving     Subsystems and communication sorvers					
		<ul><li>Subsystems and communication servers</li><li>Mobile Computing in Medicine:</li></ul>					
		<ul> <li>Smartphones, tablets and health apps</li> </ul>					
		Basics of database and information systems					
		Basics of data modeling					
			Desire of latel and a later way (OOL)				
		Basics of data warehousing					
		Data presentation options					
		Basics of medical to	technolog	у			
		Biocompatibility					
		Basics of tissue engineering					
		<ul> <li>Process technologies for medical technology developments</li> </ul>			•		
		1 -	ng of surfa	ace-structured metallic	materials		
			Medical textiles				
		1	technolog	gy and minimally invas	sive proce-		
		dures	ally invoc	ive curaery and navis	nated eve		
		• Endoscopy, minimatems	any mvas	ive surgery and navio	yaleu sys-		
		<ul> <li>Image analysis in n</li> </ul>	nedicine a	nd biology			
		1 maye anaiysis iii ii	isaisii is a	ila biology			

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	<ul> <li>Therapeutic medical technology</li> <li>Use in cardiac diseases</li> <li>Electrical phenomena of the body and their detection</li> <li>Basics of kidney and liver dialysis</li> <li>Applications in orthopedics</li> <li>Implants for intervertebral disc replacement</li> <li>Exoprosthetics</li> <li>Dental materials</li> <li>Machine-assisted surgery, mechatronics, and robotics</li> <li>Quality management in medical technology</li> <li>Medical documentation</li> <li>Patient-specific documentation</li> <li>Documentation of medical knowledge</li> </ul>			
Forms of loarning	Health reporting			
Forms of learning	Lecture, seminar, presentations, case studies, group work, discussion			
Exam form	Written examination			
Recommendation for sub- ject-related basic literature (Note: Deviations are possible for different teachers)	<ul> <li>The Patient Will See You Now: The Future of Medicine is in Your Hands by Eric Topol</li> <li>Biotechnology for Beginners by Reinhard Renneberg</li> <li>The Fourth Industrial Revolution by Klaus Schwab</li> </ul>			

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Master's degree program in Digital Health Management Degree: Master of Science

Study program:Digital Health Management - full-time modelModule group:Specific professional competence

Module: M7 Medical Diagnoses and Procedures

Module responsible: Prof. Ehsan Khaljani

semester Usability of the module	3	Contact study			105	
Usability of the module		Workload	45 150	Self-study ECTS	5	
- -	Usability of the module		This module is offered to students of the master's program in Digital Health Management.			
<b>Duration and frequency</b>	y	1 semester, every 2nd	semester			
Participation requireme	ents	According to the standa				
Kind of event  The teaching and learning events are offered in lecture nar form. As part of the lecture, the teaching and learning is presented by the teachers and placed in a larger context is prepared in such a way that students up and deepen their knowledge base. In the seminar work on practice-relevant topics independently, including erature from one or more sources or using case students in analyzing, discussing and reflecting on the and learning content in smaller groups.				ing content ontext. The s can build r, students ng using lit- udies. The npanies the e teaching		
Qualification goals/contencies	Qualification goals/compe- The students have knowledge in the areas of human func				link the in- ems and to processes. ent therapy e need for gnostic and	
Content of the module		<ul> <li>Anatomy and Physiology</li> <li>Organization and structures of the human body (e.g. blood infections, and defense)</li> <li>General diagnostic and therapeutic procedures</li> <li>Medical terminology</li> <li>Evidence based medicine</li> <li>Prevention and health promotion</li> <li>Individualized medicine</li> <li>External responsibility and personal responsibility</li> <li>Cardiological diagnostics &amp; epidemiology of cardiovascula diseases - prevalence, risk factors and prevention</li> <li>Arterial hypertension</li> <li>Diabetes mellitus and metabolic syndrome</li> <li>Diseases of the endocrine system</li> <li>Diseases of the lungs and nervous system</li> <li>High blood pressure and vascular diseases</li> <li>Diseases of the gastrointestinal tract</li> <li>Diseases of the genitourinary system</li> <li>Blood diseases &amp; Autoimmune and metabolic diseases</li> <li>Infectious diseases</li> <li>conservative and surgical therapies</li> </ul>		diovascular		

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Forms of learning	Lecture, seminar, presentations, case studies, group work, discussion			
Exam form	Exam			
Recommendation for sub- ject-related basic literature (Note: Deviations are possible for different teachers)	<ul> <li>www.amboss.com, Learning platform for pyhsicians</li> <li>https://viamedici.thieme.de/ , Learning platform for physicians</li> </ul>			

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Master's degree program in Digital Health Management Degree: Master of Science

Study program:Digital Health Management - full-time modelModule group:Specific professional competenceModule:M8 Biomedical Ethics and Regulatory Affairs

Module responsible: Team of professors

SHW	3	Contact study	45	Self-study	105	
semester	4	Workload	150	ECTS	5	
Usability of the module			This module is offered to students of the master's program in Digital Health Management.			
Duration and freque		1 semester, every 2nd				
Participation require	ments	According to the standa				
The teaching and learning events are offered in lecture a nar form. As part of the lecture, the teaching and learning is presented by the teachers and placed in a larger conclearning context is prepared in such a way that students up and deepen their knowledge base. In the seminar, work on practice-relevant topics independently, including erature from one or more sources or using case students in analyzing, discussing and reflecting on the and learning content in smaller groups.				ng content ontext. The s can build r, students ng using lit- udies. The epanies the e teaching		
Qualification goals/c tencies	ompe-	and learning content in smaller groups.  Students acquire ethical skills for action orientation and decision making within the framework of basic moral values in medicine and healthcare. They will be sensitized to the ethical dimension of typical decision-making problems in the professional field.  Students gain knowledge of medical and health ethical challenges, theories, and organizational forms. They are familiar with national and international standards for practice and research a well as legal bases and guidelines at national and international levels, with particular attention to digitalization in the healthcark system. Students can understand and interpret the relevant regulatory framework for different products and services, in particular licensing law (e.g. medical device law) and take it into accour when developing information technology solutions.  They are familiar with the basic principles of data protection and media law and can apply them to various digitalization issues. Students can recognize and minimize data protection risks of entrepreneurial activities - including those with international implication.			n medicine dimensions field. hical chal-amiliar with esearch as ternational healthcare evant regunato account ection and ssues. Stuss of entre-	
Content of the modu	le	<ul> <li>Human dignity, aut</li> <li>Ethical challenges</li> <li>Research involving ethical standards</li> <li>Ethical foundations economics</li> <li>Ethics and econor goals</li> <li>Human rights and t</li> </ul>	ons, institutionomy and at the beg human sure of health amics: abouthe United lines (Nur	n professions utions, companies and d respect for self-dete inning and end of life ibjects: national and in systems, health policy ut linking moral and Nations Millennium G emberg Code, Belmo	rmination ternational and health economic oals	



	<ul> <li>Good Clinical Practice Guideline: ICH-GCP: Principles, roles and responsibilities of sponsor, contract research organization, investigator, monitor</li> <li>National medicinal products laws of selected countries (focus on Germany, information on Austria, Switzerland, UK, USA)</li> <li>Submission and approval processes for approving a study to ethics committees and authorities (focus on Germany, comparison to Austria, Switzerland, UK, USA)</li> <li>German Medical Devices Act and European developments</li> <li>Medical devices: regulatory approval process and safety monitoring</li> <li>Privacy policies and laws</li> <li>Patent protection</li> <li>Telemedia law (TMG)</li> <li>Medical professional law and relevant medical law</li> <li>DIN standards</li> </ul>
Forms of learning	Lecture, seminar, presentations, case studies, group work, discussion
Exam form	Oral examination
Recommendation for subject-related basic literature (Note: Deviations are possible for different teachers)	<ul> <li>Amato, S.F., &amp; Ezzell, R.M. (2015). Regulatory affairs for bio mato, S. F., &amp; Ezzell, R. M. (2015). Regulatory affairs for bio-materials and medical devices. Cambridge, England: Woodhead Publishing.</li> <li>"Principles of Biomedical Ethics" by Tom L. Beauchamp and James F. Childress</li> <li>"Doing Right: A Practical Guide to Ethics for Medical Trainees and Physicians" by Philip C. Heber</li> <li>"The Spirit Catches You and You Fall Down: A Hmong Child, Her American Doctors, and the Collision of Two Cultures" by Anne Fadiman</li> </ul>

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Master's degree program in Digital Health Management Degree: Master of Science

Study program:Digital Health Management - full-time modelModule group:Specific professional competence

Module: M9 Strategic Corporate Management

Module res	ponsible:	Prof.	Ehsan Kha	ljani

SHW	3	Contact study	45	Self-study	105		
semester	1	Workload	150	ECTS	5		
Usability of the mode	ıle	This module is offered		s of the Master's prog	ram in		
		Digital Health Manager					
Duration and frequer		1 semester, every 2nd					
Participation require	ments	According to the standa					
Kind of event		The teaching and learn					
			nar form. As part of the lecture, the teaching and learning content is presented by the teachers and placed in a larger context. The				
		learning context is prepup and deepen their k					
		work on practice-releva					
		erature from one or m					
		teacher takes on the rol					
		students in analyzing,					
		and learning content in			Ĭ,		
Qualification goals/c	ompe-	The module enables st	udents to	test the skills they hav	e acquired		
tencies		so far using real, practi					
		cation-oriented and pra					
		students and suppleme	ents the th	eoretically oriented mo	odules with		
		practical cases.		I. I a I			
		By reflecting on the the					
		·	crete, innovative practical cases, students are able to test their				
			conceptual knowledge and further develop it independently.  By analyzing and comparing companies, students can better as-				
		sess the challenges of business practice. Students will be able to assess company situations in practice and develop options for ac-					
		tion based on their the					
		experience.		· ·			
Content of the modu	le	Focus on "Innovative	Manager	nent Processes"			
		The plan-determined management process and its criticism					
		1		ns of corporate manag	ement and		
			the systemic management process				
		Ambidexterity research					
		The 7-S model of corporate management					
		Digitalization and management processes					
		Disruptive business models  District of a starting level.					
		Digital maturity level  Digital attracts	<del>S</del> I				
		Digital strategy					
		Focus on "strategy de	ovolonma	nt"			
		<ul><li>Focus on "strategy development"</li><li>Market Based vs. Resource Based View of Strategic Manage-</li></ul>					
		ment	Coodioc I	sassa view of offategr	o manago-		
			ent at the	business area and ov	erall com-		
		pany level	at 1110	area aria or	. 5. 5		
			ent and in	nplementation process			
		<ul> <li>Managing strategic</li> </ul>					
		3 3 2 2 2 2 3 2 3	<b>3</b> -				
		•					

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	Face and "Occupate Development"				
	Focus on "Corporate Development"				
	Basic business and development models				
	<ul> <li>(New) approaches to corporate development (path dependency, ambidexterity, business models)</li> </ul>				
	Reasons and goals of corporate development				
	Ethical issues of corporate development				
	Opportunities and risks of digitalization in corporate development				
	Controlling the corporate development process				
	Corporate development instruments				
Forms of learning	Seminar, presentations, case studies, group work, discussion				
Exam form	Presentation				
Recommendation for subject-related basic literature (Note: Deviations are possible for different teachers)	<ol> <li>Management - A Skills Approach, Phillip L. Hunsaker, Pearson</li> <li>High Output Management, Andrew S. Grove, Vintage</li> <li>Only The Paranoid Survive, Andrew S. Grove, Vintage</li> <li>Disciplined Entrepreneurship, Bill Aulet, Wiley</li> <li>Sprint, Jake Knapp, Simon&amp;Schuster Paperbacks</li> <li>Traction, G. Weinberg &amp; J. Mares, Portfolio Penguin</li> <li>The Great CEO Within, Matt Mochary, www.mochary.com</li> </ol>				

Master's degree program in Digital Health Management

Degree: Master of Science



**Study program:** Digital Health Management - full-time model

Module group:

Module:

Specific professional competence
M10 eHealth (Applications and Areas:

Module responsible:

Patient centered)
Team of professors

SHW	3	Contact study	45	Self-study	105
semester	3	Workload	150	ECTS	5
Usability of the module		This module is offered	to student	s of the master's prog	ram in
		Digital Health Manager	nent.		
<b>Duration and frequer</b>		1 semester, every 2nd	semester		
Participation require	ments	According to the standa	ard course	e of study	
Kind of event		The teaching and learn			
		nar form. As part of the			
		is presented by the tea			
		learning context is prep			
		up and deepen their k	_		
		work on practice-releva	•		•
		erature from one or m			
		teacher takes on the rol			
		students in analyzing,		-	e teaching
Qualification goals/s	omno	and learning content in This module aims to			a with the
Qualification goals/c tencies	ompe-	knowledge and skills no			
tericies		to deliver patient-cente			
		platforms can enhance			
		outcomes, and promot			
		patients and providers.	io comano	rativo accioion maiting	g som com
Content of the modu	le	Learning Objectives:			
		Understand the conce	ept of pat	tient-centered care a	nd its im-
		portance in modern healthcare delivery. Explore various eHealth applications and platforms designed to facilitate patient engagement and empowerment. Learn how to integrate eHealth technol-			
		ogies into clinical pract and shared decision-m legal considerations re patient care. Develop adoption and impleme settings.	naking wit lated to th strategies	h patients. Examine ended to be use of eHealth apples for overcoming barri	ethical and lications in ters to the
		Module Structure:	<b>5</b>		
		<ul> <li>Introduction to Definition and principle Importance of patier healthcare Role of eHealth technolinitiatives</li> </ul>	s of patier nt engag	nt-centered care ement and empowe	
			ing eHeal		atient por-
		Case studies highlight centered eHealth initiat		ssful implementation	of patient-



	1				
	- Enhancing Communication and Shared Decision-Making Communication technologies in healthcare (e.g., secure messaging, video consultations) Importance of shared decision-making in patient-centered care Practical tips for using eHealth tools to facilitate collaborative decision-making with patients  - Ethical and Legal Considerations in eHealth Ethical principles and guidelines for the use of eHealth technologies in patient care Privacy and security issues related to electronic health records (EHRs) and patient data Regulatory frameworks governing the use of eHealth applications in healthcare settings  - Overcoming Barriers to Adoption and Implementation Common challenges and barriers to the adoption of eHealth solutions Strategies for engaging patients and healthcare providers in the use of eHealth technologies				
	Best practices for successfully integrating eHealth applications				
Farmer of languing	into clinical workflows				
Forms of learning	Seminar, presentations, case studies, group work, discussion				
Exam form	Presentation				
Recommendation for subject-related basic literature (Note: Deviations are possible for different teachers)	<ul> <li>Textbooks:         <ul> <li>"Patient-Centered E-Health" by Eivor Oborn and lan Scott</li> <li>"eHealth: Legal, Ethical and Governance Challenges" by George Mair and Aziz Sheikh</li> </ul> </li> <li>Journals:         <ul> <li>Journal of Medical Internet Research (JMIR)</li> <li>Health Informatics Journal</li> </ul> </li> <li>Websites:         <ul> <li>Agency for Healthcare Research and Quality (AHRQ) - Patient-Centered Medical Home Resource Center</li> <li>HIMSS (Healthcare Information and Management Systems Society) - Patient Engagement Resources</li> </ul> </li> </ul>				

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Master's degree program in Digital Health Management Degree: Master of Science

Study program:Digital Health Management - full-time modelModule group:Professional field-related action skills

Module:M11 Health EconomyModule responsible:Prof. Ehsan Khaljani

SHW	3	Contact study	45	Self-study	105
semester	2	Workload	150	ECTS	5
Usability of the module		This module is offered to students of the Master's program in Digital Health Management.			
<b>Duration and frequency</b>		1 semester, every 2nd	semester		
Participation require	ments	According to the standa			
The teaching and learning events are offered in lecture ar nar form. As part of the lecture, the teaching and learning is presented by the teachers and placed in a larger contellearning context is prepared in such a way that students of up and deepen their knowledge base. In the seminar, so work on practice-relevant topics independently, including the erature from one or more sources or using case studing teacher takes on the role of "learning coach" and accompass students in analyzing, discussing and reflecting on the tand learning content in smaller groups.					ing content ontext. The is can build r, students ng using lit- udies. The npanies the ne teaching
Qualification goals/c tencies					em. The fo- ence to the lassify how emparisons
Content of the modu					ures ystems
Forms of learning		Seminar, presentations	, case stu	dies, group work, disc	ussion
Exam form		Presentation			
Recommendation for ject-related basic lite (Note: Deviations are pos different teachers)	rature				

Master's degree program in Digital Health Management Degree: Master of Science

Study program:Digital Health Management - full-time modelModule group:Professional field-related action skillsModule:M12 Project: eHealth Business Development

Module responsible: Team of professors

SHW	3	Contact study	45	Self-study	105	
semester	2	Workload	150	ECTS	5	
Usability of the module		This module is offered to students of the Master's program in Digital Health Management.				
<b>Duration and frequer</b>	Duration and frequency		semester			
Participation require		According to the standa	ard course	e of study		
Kind of event	The teaching and learning events are offered in lecture ar nar form. As part of the lecture, the teaching and learning is presented by the teachers and placed in a larger contour learning context is prepared in such a way that students of up and deepen their knowledge base. In the seminar, so work on practice-relevant topics independently, including the erature from one or more sources or using case studing teacher takes on the role of "learning coach" and according the students in analyzing, discussing and reflecting on the ingland learning content in smaller groups.					
Qualification goals/c	ompe-	The module serves the		, i		
Content of the mode.	la.	is to apply previously learned knowledge to concrete practice questions. In addition, a better understanding of topics and wing methods in digital health management should be gained. The students have the technological competence to be able to sess the influence of innovations on business models around ital health management. They have the necessary managen knowledge to develop their own solutions to practical question. The students are enabled to deal with the demands and stress a specific project. They can independently generate innovating and creative ideas as part of a team, develop economically via solutions and present them to specialists and represent them ovincingly.  Regarding the topic of digitalization, a particular focus is placed deepening the business models of digital-oriented comparation with the aim of sharpening the students' digital mindset.				
Content of the modu	le	<ul> <li>Operational design of the module (Preparation of the study project)</li> <li>Introduction to the projects</li> <li>Preliminary research in self-study (about project content)</li> <li>Grouping of the project teams</li> <li>Briefing by the client (if accompanied by a practice partner)</li> </ul>				
		<ul><li>Active participation milestones</li><li>Supervision by unit</li></ul>	ct plan for in specifiversity lec	each working group ic work tasks to achi	eve project	

Master's degree program in Digital Health Management Degree: Master of Science

	<ul> <li>Follow -up to the study project</li> <li>with reflection of individual project experiences (teamwork, increase in knowledge, usability)</li> <li>Module contents The module content depends on the current issues and possible project partners. Projects should meet the following criteria: <ul> <li>Relation on the topic of eHealth and business development</li> <li>High topicality of the selected topic</li> <li>Ideally, involvement of a practice partner, if this is not possible, processing of a practice issue</li> <li>Open-ended question, i.e. the students develop their own an-</li> </ul> </li></ul>
	swers based on their previous knowledge
	Example projects in this module would be:
	<ul> <li>Project example: Business Model Innovation</li> <li>Students learn to apply methods of business model innovation (meta model, process model, techniques and results) and to develop their own business model.</li> <li>They are able to present the results of their project work (e.g. as part of a founder pitch).</li> <li>The students can critically reflect on the experiences they have gained and derive what they have learned for future projects.</li> </ul>
	<ul> <li>Project example: eHealth</li> <li>The students know the various possible uses of digital technologies in healthcare.</li> <li>They can use this knowledge to develop meaningful solutions at the interface between technology and management.</li> <li>Possible questions could come from the areas of telemedicine, mobile medical applications for communication over long distances, methods for collecting and evaluating health data or monitoring patients (e.g. chronically ill people) using mobile devices</li> </ul>
Forms of learning	Project
Exam form	Presentation
Recommendation for subject-related basic literature (Note: Deviations are possible for different teachers)	<ul> <li>"Healthcare Information Technology Project Management" by Kathleen M. LaTour and Cynthia L. Dunn</li> <li>"Digital Health: Critical and Cross-Disciplinary Perspectives" edited by Deborah Lupton</li> <li>"The Innovator's Prescription: A Disruptive Solution for Healthcare" by Clayton M. Christensen, Jerome H. Grossman, and Jeograficant</li> </ul>

man, and Jason Hwang

Master's degree program in Digital Health Management Degree: Master of Science

Study program:Digital Health Management - full-time modelModule group:Professional field-related action skills

Module:M13 InternshipModule responsible:Team of professors

SHW	40	Contact study	400	Self-study	50		
semester	3	Workload	450	ECTS	20		
Usability of the mod	ule	This module is offered		ts of the master's p	rogram in		
		*	Digital Health Management.				
Duration and frequency		10 weeks					
Participation require	ments	According to the standa		e of study			
Kind of event		Accompanied practical					
Qualification goals/c	ompe-	The students have alre					
tencies		professional fields and					
		learned during their stu					
		economic knowledge ir	•	· •			
		The students independ					
		deepen and reflect on					
		plete the project. You to					
		the project in the comp	any and d	ocument the progr	ess of the pro-		
		ject in your report.  During the internship,	the etud	anta' indonandana	o io promotod		
		within the framework o		•	•		
		and consolidated with a					
Content of the modu	عا	The event helps to fur					
		logical fundamentals le					
		in the first two semester					
		reflect on them within t					
		own in a company.		0 1	,		
		The internship allows s	students to	self-assess their	further profes-		
		sional development, pr					
		and opens perspective	s for their	own professional of	career.		
		Dranavation of the int					
		<ul><li>Preparation of the internship</li><li>Introduction to the internship (technical requirements and</li></ul>					
		fields of activity, legal and administrative background, modalities of supervision)					
		<ul> <li>Creation of an individual work plan including specific learning</li> </ul>					
		objectives for the internship phase					
		objectives for the fi	itorrioriip į	311430			
		Phase of the internsh	ip				
		<ul> <li>Active participation</li> </ul>	in specifi	c work tasks and p	rojects in eve-		
		ryday professional	life at the	respective practice	facility		
		On-site support from	m qualifie	d instructors			
		<ul> <li>Critical reflection o</li> </ul>			through feed-		
		back from the instru		-			
		<ul> <li>Support from a unit</li> </ul>					
		riences by telephone, email or on site, technical support of th					
		report)					
		Follow up to the inter	nchin				
		Follow-up to the inter	-	ancontual rofloction	o of individual		
		<ul> <li>Creation of a report practical experience</li> </ul>		niceptual reliection	i oi iridividual		
		Final event and except the first event even		evneriences hetwo	aan etudante		
		- I mai event and ext	onange of	evhenences nerme	27		

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Forms of learning	Practical insights
Exam form  Recommendation for subject-related basic literature (Note: Deviations are possible for different teachers)	Written report The subject-related basic literature is based on the specific projects in practice.

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Master's degree program in Digital Health Management Degree: Master of Science

Digital Health Management - full-time model Methodological and social skills Study program: Module group:

Module: M14 Training Soft Skills / Intercultural studies

Module responsible: Team of professors

Module responsible: Team of professors					
SHW	3	Contact study	45	Self-study	105
semester	11	Workload	150	ECTS	5
Usability of the modu	ıle	This module is offered to students of the master's program in Digital Health Management.			
<b>Duration and frequer</b>	ісу	1 semester, every 2nd	semester		
Participation require	ments	According to the standa			
Kind of event		The teaching and learn nar form. As part of the is presented by the teaching context is presented.	lecture, tachers and	he teaching and learni d placed in a larger co	ng content intext. The
		learning context is prepup and deepen their k work on practice-relevator erature from one or n teacher takes on the ruthe students in analyzing and learning conter	nowledge ant topics in ore sour ole of "lea ng, discus	e base. In the seminal independently, includir ces or using case starning coach " and accessing and reflecting on	r, students ng using lit- udies. The companies
Qualification goals/c tencies	ompe-	As part of professional cally assess their own and to further developendently on a method concrete action and try are enabled to experie leadership, team and of from the trainers.	training, potential pp previo ical basis ring out ex ence, refle	students are enabled and development op usly acquired soft soft experiential learning ercises and scenarios ect on and further development.	portunities kills inde- l. By taking s, students velop their
		The students know the well as self-solving and and network these into The students internaliz stress management as can systematically appl dents ultimately develo to learn in order to init cesses beyond the modern	d problem a holistic ze models s well as y these to p a meta- iate furthe	n-solving skills and car skills approach. s of communication, c problem-solving techr real practical situation competence, meaning	onflict and hiques and s. The stuthey learn
		Students can contextu-			
Content of the modu	le	The module compleme course with important sally and socially successive chored in the master's the first semester, so the and further developed the course, thereby potion in the course through	soft skills essful wor program at all releving a compositively inf	that are fundamental f k and study. The mod in Digital Health Mana vant key qualifications act manner right from fluencing the students	for person- dule is an- agement in are trained the start of



Self-image and external image	
Mindfulness and work-life balance	
<ul> <li>Problem-solving skills</li> <li>Networked thinking and complexity management</li> <li>St. Gallen problem-solving method</li> <li>TOTB: Thinking outside the box; creativity techniques</li> <li>Risk management</li> </ul>	
Social competence	
Have difficult conversations	
Conflict management and mediation	
Negotiation strategies	
<ul> <li>Group phenomena and roles in the group</li> </ul>	
Forms of learning Seminar, presentations, case studies, group work, discussion	
Exam form Oral examination interview	
Recommendation for sub- Clark, T.; Osterwalder, A. (2012): Business Model You, Camp	
ject-related basic literature Covey, S.R. (2004): 7 Habits Of Highly Effective People, Simo	n &
(Note: Deviations are possible for different teachers)  Schuster: London.	



Master's degree program in Digital Health Management Degree: Master of Science

Digital Health Management - full-time model Specific professional competence Study program: Module group:

Module: M15 Required Electives

Module responsible: Tutor from the catalogue of elective courses

SHW	3	Contact study	45	Self-study	105	
semester	3	Workload	150	ECTS	5	
Usability of the module			This module is offered to students of the Master's program in Digital Health Management.			
<b>Duration and frequer</b>		1 semester, every 2nd	semester			
Participation require	ments	According to the standa				
Kind of event  The teaching and learning events are offered in lecture nar form. As part of the lecture, the teaching and learn is presented by the teachers and placed in a larger of learning context is prepared in such a way that student up and deepen their knowledge base. In the seminate work on practice-relevant topics independently, including erature from one or more sources or using case of teacher takes on the role of "learning coach and active students in analyzing, discussing and reflecting or ing and learning content in smaller groups.				ing content ontext. The s can build r, students ng using lit- udies. The companies		
Qualification goals/c tencies	ompe-	Students choose a required elective course from a catalog that further sharpens the interdisciplinary and interprofessional character of this course of study.				
Content of the modu	le	Depends on the chosen subject				
Forms of learning		Seminar, presentations	s, case stu	udies, group work, disc	cussion	
Exam form	Depends on the chosen subject					
Recommendation for subject-related basic literature (Note: Deviations are possible for different teachers)  Depends on the chosen subject						

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Master's degree program in Digital Health Management Degree: Master of Science

**Study program:** Digital Health Management - full-time model

Module group:

Methodological and social skills

Module: M16 Research Methodology & Tutorial

Master Thesis Team of professors

Module responsible:

SHW	3	Contact study	45	Self-study	105	
semester	3	Workload	150	ECTS	5	
Usability of the module		This module is offered to students of the master's program in				
		Digital Health Manager				
Duration and frequency		1 semester, every 2nd				
Participation require	ments	According to the standa				
Kind of event		The teaching and learn				
		nar form. As part of the				
		is presented by the tea				
		learning context is prep				
		up and deepen their k				
		work on practice-relevation erature from one or n				
		teacher takes on the ro				
		students in analyzing,				
		and learning content in			ic teaching	
Qualification goals/c	ompe-	The event helps to stre			t brings to-	
tencies	·p	gether aspects of empi				
		preparation of corporat				
		The students can solve			blems from	
		corporate practice using	g the meth	nods of empirical socia	al research.	
		Using appropriate soft				
		work on business ques				
		cal models and empirio	•			
		essary, applying them	correctly a	ind interpreting the res	suits appro-	
		priately. The students acquire the	he compe	tance to use the result	te obtained	
		to support business de				
		able to set up their own				
		an empirical master's thesis.				
Content of the modu	le	Quantitative methods				
		<ul> <li>Data acquisition an</li> </ul>	id data an	alysis		
		<ul> <li>Sampling procedur</li> </ul>	е			
		<ul> <li>Statistical testing p</li> </ul>	rocedures	i		
		<ul> <li>Basic procedures of</li> </ul>	of multivar	iate data analysis		
		<ul> <li>Regression analysi</li> </ul>	S			
		<ul> <li>Time series analys</li> </ul>	is			
		<ul> <li>Analysis of variance</li> </ul>	е			
		<ul> <li>Factor analysis &amp; C</li> </ul>		alysis		
		<ul> <li>Logistic regression</li> </ul>	etc			
		Qualitative methods				
			Qualitative methods			
		<ul><li>Basic methods of qualitative data collection and analysis</li><li>Guide design</li></ul>				
		<ul><li>Guide design</li><li>Interview forms</li></ul>				
			0			
				data analysis		
		Basic methods of or	luantative	uata analysis		

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Forms of learning	Seminar, presentations, case studies, group work, discussion
Exam form	Written assignment
Recommendation for subject-related basic literature (Note: Deviations are possible for different teachers)	<ul> <li>"Research Design: Qualitative, Quantitative, and Mixed Methods Approaches" by John W. Creswell and J. David Creswell-</li> <li>"Statistics for Healthcare Professionals: An Introduction" by Ian Scott</li> <li>"Evidence-Based Practice in Nursing &amp; Healthcare: A Guide to Best Practice" by Bernadette Mazurek Melnyk and Ellen Fineout-Overholt</li> </ul>

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Master's degree program in Digital Health Management Degree: Master of Science

Study program: Module group: Digital Health Management - full-time model

Methodological and social skills Module: M17 Master Thesis & Colloquium

Module responsible: Team of professors

SHW	2	Contact study	30	Self-study	570	
semester	4	Workload	600	ECTS	25	
Usability of the module		This module is offered to students of the master's program in Digital Health Management.				
Duration and frequency		1 semester, every 2nd	semester			
Participation require	ments	According to the standa	ard course	e of study		
Kind of event		Seminar and individual				
Qualification goals/competencies  With the master's thesis, students complete their students prove that they are capable of independently producing a chensive scientific work.  The students can use scientific means to work on a question vant to the subject of study and to answer it comprehens the basis of theoretical and methodological knowledge.  They have extensive knowledge of reviewing and evaluate entific literature and are proficient in the use of empirical remethods required for the collection and analysis of sciention the students reflect on their own scientific approach and critical stance on their application of general and subject-skills. They critically discuss the concept of their work, the tions, and methods as well as the empirical results in a collection.			estion rele- ensively on uating sci- al research entific data. and take a ect-specific their ques-			
		The master's thesis is a specialist examination that must be concluded in accordance with the requirements of the framework stuand examination regulations and is centered on a question from the area of master's training.  The master's thesis is an examination paper through which is demonstrate that they can independently work on a to relevant to their future professional field using scientific method				
within a specified period of time.  Content of the module  The topic of the master's thesis will be issued at the earlies the completion of the third semester or at the latest after the pletion of all other subject examinations. It deepens a selected plication aspect and contributes to the clarification of a define entific question by empirical methods.				er the com- elected ap-		
Forms of learning		Submission of a scienti	ific paper			
Exam form		Master's thesis, colloqu	ıium			
Recommendation for subject-related basic literature (Note: Deviations are possible for different teachers)  Thornhill, A., Saunders, M., & Lewis, P. (2008). Research modes for business students. Pearson.				arch meth-		

Master's degree program in Digital Health Management



#### 7. Study progress overview

Degree: Master of Science

Modules Masters Digital Health Management									
	Module Nr.	Modules	Weekly hours / semester				СР	Examination	
			1st Sem.	2nd Sem.	3rd Sem.	4th Sem.		Seme- ster	Туре
General	M1	Business Models in the Digital Economy		3			5	2	WA
	M2	New Work & eLeadership		3			5	2	WA
	M3	Digital Transformation & agile Management		3			5	2	OA
	Summe						15		
Specific	M4	eHealth (Application and Areas: Professional centered)		3			5	2	PRES
	M5	Data-Management & Business Intelligence			3		5	3	WE
	M6	eHealth (Technologies)	3				5	1	WE
	M7	Medical Diagnosis and Procedures	3				5	1	WE
	M8	Biomedical Ethics & Regulatory Affairs				3	5	4	OA
	M9	Strategic Corporate Management	3				5	1	PRES
	M10	eHealth (Applications and Areas: Patient centered)			3		5	3	PRES
	M11	Health Economy		3			5	2	PRES
	Sum						40		
Practical	M12	Project: eHealth-Business Development		3			5	2	PRES
	M13	Internship			Block		20	3	REP
	Sum						25		
Methodic	M14	Training Soft Skills & Intercultural Studies	3				5	1	OA
	M15	Elective Subject			3		5	3	D
	M16	Research Methodology & Tutorial Master Thesis			3		5	3	WE
	M17	Master Thesis & Colloquium				2	25	4	PAPER
	Sum					40			
	Sum		12	18	12	5	120		

#### 8. Further reading

#### **General professional competence**

Colquitt, J.; LePine, J.; Wesson, M. (2012): Organizational Behavior, McGraw Hill: New York.

Morgan, G.; Gregory, F.; Roach, C. (1997): Images of organization, Wiley: New Jersey.

Robbins/Judge (2012): Organizational behavior. 15th ed. Boston: Pearson.

Yukl, G. (2013): Leadership in Organizations, 8th Ed., Prentice Hall: Essex.

Il principe (The Prince), Niccolo Machiavelli, Reclam

The Art of Being Right, Arthur Schopenhauer, Nikol

The Hard Thing About Hard Things, Ben Horowitz, Harper Business

The Almanach of Naval Ravikant – Wealth, Health, and Happiness, Naval Ravikant, Self-published

#### Professional field-related competence

Amato, S. F., & Ezzell, R. M. (2015). Regulatory affairs for biomaterials and medical devices. Cambridge, England: Woodhead Publishing.

# Methodological and social skills

Covey, S.R. (2004): 7 Habits Of Highly Effective People, Simon & Schuster: London.

Thornhill, A.; Saunders, M.; Lewis, P. (2008): Research methods for business students. Pearson: London.