

Module Description/Syllabus

BE IM HM CfPS



Module	Business Information Systems			Module-Number	
Course Title				Overall grade weighting (in %)	2,4
Recommended alternative modules or courses					
Course of Studies	Digital Enterprise Management				
Examination No. (SuP)	100622	valid SER	20212 v. 28.04.2022		
Mode of Study	<input checked="" type="checkbox"/> full-time <input type="checkbox"/> part-time				
Study Cycle EQF-Level	<input checked="" type="radio"/> Bachelor <input type="radio"/> Master				
Frequency	<input checked="" type="radio"/> winter term <input type="radio"/> summer term <input type="radio"/> each semester				
Language Competence Level and Course code SAP <input type="checkbox"/>					
Responsible for the module	Prof. Dr. Heiko Gewalt				
Lecturer/s	Prof. Dr. Heiko Gewalt				
Typ of course	<input checked="" type="radio"/> compulsory <input type="radio"/> optional				
Mode of delivery	Face-to-face				
Language of instruction	<input checked="" type="radio"/> English <input type="radio"/> German		Level of course	5th semester	
Teaching Methods	Presentations by experts from the field		Duration	1 semester	
	Lecture with interactive elements, exercises and case studies				
Work parameters HNU-Workload-Calculator	contact hours in lecture form	exercises (hours)	self-studies (hours)	total (hours)	
	60		90	150	
	eLearning (hours)	examination preparation (hours)	Transfer (hours)	Units ("UE")	
				200	
Number of participants min./max.	10 / 60	ECTS-Points	05	Volume (hours per semester week)	04
Use for other studies	Data Science Management				

<p>Prerequisites/ Required competencies</p>	<p>none</p>
<p>Learning Outcome</p> <p>1) Knowledge 2) Skills 3) Responsibility and autonomy</p> <div data-bbox="193 1084 529 1155" style="border: 1px solid black; padding: 5px; margin-top: 20px;"> <p>Description eight EQF Levels and Learning Outcome (1-3)</p> </div>	<p>After successful participation in the course, students will be able to,</p> <ul style="list-style-type: none"> - explain the benefits of using operational information systems and the challenges in their design. - classify different types of business information systems according to different criteria. - explain the main features of the strategic management of the IT function, as well as the challenges of related governance and the problem of IT/business alignment. - explain the levels of IT architecture management, the roles of IT architects and their involvement in the management of the IT function. - describe the constructs of a functional architecture, an ACTUAL system picture, a heat map, and a road map and explain their interrelationship. - describe concepts such as EAI and SOA and be able to demonstrate their relevance for use in the enterprise. - explain the particular challenges of applying IT in different industries (e.g. banking, insurance, hospitals) and critically represent possible solutions. - critically discuss surrounding fields such as outsourcing and cloud computing and demonstrate their relevance for the design of in-house IT. - apply different approaches for the evaluation of IT. - identify their own learning strategies. - analyze case studies, develop solutions and apply them. - work together in a team and develop, analyze and present joint results.
<p>Content</p>	<p>Every company and every industry faces its own challenges and the resulting demands on internal IT systems are correspondingly high.</p> <p>In this module, we will first cover the basics of business application systems and discuss the different types of systems. Based on this, we will address questions of strategic management of IT and especially the role of IT architects. With this knowledge, different IT architectures will be discussed and hints on how to manage a complex and heterogeneous system landscape will be answered.</p> <p>A large part of the event will be given over to presentations by proven experts from the field. They present the IT architectures in selected industries and provide a clear insight into the current challenges and solutions. Depending on availability in the respective semester, lectures will be held on the following topics:</p> <ul style="list-style-type: none"> - IT in banking - IT in hospitals - IT in insurance companies - Industry 4.0 / IT in production - Supply Chain Management - Customer Relationship Management - Evaluation of IT / IT-intensive start-ups - Business Process Mining - blockchain

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Particular admission requirements (if applicable)	none
Curriculum semester, in which the student has to be mandatorily registered for the first attempt of examination	9th semester
Assessment method(s)	oral exam, see course catalog
Assessment criteria	
Required reading resources	current literature will be announced in the course of the lecture
	recommended: Adventures of an IT Leader (2016) by Austin, O'Donnell, and Nolan. ISBN: 978-1633691667
Additional (module) information	
Document Version	1
Document date	
Document was created by	Heiko Gewalt, English version by Alina Geßler
Valid from	01.01.2023
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	<input type="button" value="save"/> <input type="button" value="send"/>