

2.3 Information Systems

Module: IS 301 Foundations of Information Systems		
Contents:		
<ul style="list-style-type: none"> • Introduction and basic definitions in the field of information systems as well as design and structure of information systems • Technological Foundations: hardware and software components, basic functionalities of computer systems and networks, basics of database systems • Development of information systems: project management and development processes, selected methods for analysis and design • Management of information systems: IT Management Framework, Business/IT Alignment, IT Organization, IS Investment, IS Adoption 		
Learning outcomes:		
<p>Students are able to explain the interplay of information technologies, human beings and organizations. They comprehend how information systems are structured and are able to explain the basic functionalities of computer and database systems. Students know the different approaches for the development of information systems and know the basic techniques for the analysis of demands and the design of information systems. They understand the operative and strategic processes for the management of information systems.</p> <p>They are aware of the factors influencing the development and management of information systems, the perspectives of different stakeholders, and can evaluate related decisions.</p> <p>Students are able to analyze requests expressed in natural language and translate them into structured database queries. They can analyze requirements for an information system and can present them in a structured format, especially using behavior and structure diagrams</p>		
Prerequisites:		
Formal: -		
Recommended: -		
Obligatory registration: no		Further information on registration: -
Courses	Hours per week	Self-study
Lecture	2	3
Exercise	2	3
Tutorial	1	1
ECTS in total		6
Form of assessment	Written exam (90 min.)	
Preliminary course work	-	
Lecturer/Person in charge	Markus Nöltner	
Duration of module	1 semester	
Offering	Spring semester	
Language	English	
Program-specific educational goals	LG 1, LG 2	
Grade	graded	
Range of application	B.Sc. Business Administration, other programs	