

AIS Collection of IS Institutions and Educational Resources

Institution Name	College/School	Department
University at Marburg	Mathematics and Computer Science (FB 12)	Computer Science
Country	AIS Region	Full Postal Address
Germany	Region 2: Europe, Africa, The Middle East	Hans-Meerweinstr. 6 Marburg , Hesse, 35037 Germany
Web Link:	Contact	
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Institution Summary

Almost 500 years old institution with several Nobel prize winners, among them the first Nobel prize in medicine.

Programs and Courses Summary

Tradition meets innovation.

Information Systems Programs

Program Name	Wirtschaftsinformatik (B.Sc.)	Busines Informatics (M.Sc.)
Program Description	Interdisciplinary and application oriented education in Information Systems, Computer Science, Mathematics and Business Administration.	Interdisciplinary and application oriented education in Information Systems, Computer Science, Mathematics and Business Administration.
Level	BA	MA
Teaching Mode	On campus	On campus
Semester duration of program	6	4

Information Systems Courses

Course Name	Agile and Classical Requirements Engineering	Business Intelligence	Digitalization and Process Management
Course Description	An overview of problems, concepts, methods and tools for agile and classical requirements engineering. Success factors in terms of quality criteria are also discussed.	The basis of different algorithms is explained and put to practice with a no-code platform. Approaches to store and use non-operational data are explained.	Digitalization of processes in automation, AI, IoT, or supply chain management is explained.
Learning objectives	know the techniques and tools to identify and manage requirements, know the challenges at different project points and the information needs of involved stakeholders	know the different algorithms for making decisions incl. machine intelligence, know how data are stored for gaining insights.	design innovative value processes incl. digital network infrastructures, or optimize internal and external value processes, discuss various solutions for these questions.
Level	BA	BA	BA
Teaching Mode	On campus	On campus	On campus

Course Name	Project Management for Software Development	NoSQL Database Systems	Specialization Module Business Systems
Course Description	<p>Agile software development, IT-economics, effort estimation, planning, quality and risk mananement, team leadership, contract management.</p> <p>7. Vertragsformen und Projektmanagement-Pattern</p>	<p>NoSQL database systems have adavantages over SQL systems in many applications where there are many data and they are qucikly growing. They are usually distributed scale better and are based on a data model that is closer to the application. Following systems are discussed: Apache Spark, Cassandra, MongoDB, and ElasticSearch.</p>	<p>Enterprise Resource Planning, Supply Chain Management, Customer Relationship Management, Product Lifecycle Management einsch. Product Data Management, E-Business- and E-Commerce-Systems.</p>
Learning objectives	<p>Know what makes a successful project manager. Know the diferences between classical and agile projekt management, between big and small software projekts. Know to plan for quality and risk.</p>	<p>Base knowledge of distributed databases and NoSQL systems. Differences between NoSQL and relational systems.</p>	<p>Have advanced knowledge and capabilities related to the core business systems. Techniques from information systems and new reserach findings are applied to them.</p>
Level	MA	MA	MA
Teaching Mode	On campus	On campus	On campus