Module	**Knowledge Management**
Semester(s)	2
Responsible	Uwe Lämmel, Prof. Dr.-Ing. www.wi.hs-wismar.de/uwe.laemmel +49 3841 753 7617
Lecturer	Uwe Lämmel, Prof. Dr.-Ing., Jürgen Cleve, Prof Dr. rer. nat.
Language	English
Curriculum	Core module in the degree programme Master of Business Systems
Type of teaching	Private studies according to study notes including literature research using textbooks or other sources. Workshop, case study, discussion group, application to course project. Support is given via the Learn Management System Stud.IP including information, references, or files. Various communication channels are used, including email, forum, chat, wiki-pages or online tutorials. Work-based learning by linking information technology theory with workplace environment and experience.
Workload	Focused work on the topics during the semester is required. A full-day workshop. Case study including term paper requires independent and focused attention. Approximately 110 hours self-study required.
Credit points	5
Prerequisites	Understanding of projects and their structure. Management and organisational experience. Knowledge in logic is helpful.
Module objectives	**Knowledge**: Students gain competencies in using information technology in knowledge management and in decision making with a focus on strategic decisions. **Skills**: Students are able to map real-world situations into (semi-)formal representation of knowledge. Students know the possibilities, applications, and limits of computer-based knowledge processing and can apply it to even unforeseen situations. Students learn to see knowledge processing as natural part of knowledge management. **Competencies:** Knowledge management requires and trains creative work as well as social skills, since it includes knowledge sharing. Working on the topics trains self-management and personal responsibility.
Content	Knowledge based systems in business applications, knowledge representation and knowledge processing in business as prerequisites for executive management. Knowledge based decision support systems; • Knowledge representation and processing using business rules; • Knowledge management systems using knowledge networks, topic map, or ontologies: Knowledge extraction, knowledge presentation, • other IT based knowledge management systems like semantic wiki-systems. • Strategic role and benefit of IT based knowledge management systems; Techniques will be related to participants' experience from their first academic degree and their workplaces experience. Thus knowledge management will be discussed for real-world situations and processes.
Examination	Review of case study, oral presentation or written exam. Assessment details will be provided at the beginning of the semester.
Reading list	No single textbook exists that covers all the topics addressed in this module. Following the requirements of the European Qualification Framework (EQF) students will be encouraged to elaborate knowledge on their own by running a literature research on the topics addressed in the lecture notes or the set of slides. Some sources: • Ian Graham: Business Rules Management and Service Oriented Architecture: A Pattern Language, Wiley, latest edition • The Business Rules Group: www.businessrulesgroup.org. • Topic Maps e.g. at: www.ontopia.net/topicmaps or www.i-views.de/ More references will be given in the learn management system Stud.IP
Notes	Topics are related to data management, business processes, or project management.