

Module	Research and Information Technology in Business
Semester	1
Responsible	Uwe Lämmel, Prof. Dr.-Ing. www.wi.hs-wismar.de/uwe.laemmel
Lecturer	Uwe Lämmel, Prof. Dr.-Ing.
Language	English
Curriculum	Core module in the degree programme Master of Business Systems
Type of teaching	<p>Private studies according to study notes including literature research using textbooks, or other sources. Workshop, case study, discussion group, application to course project.</p> <p>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.</p>
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	Existing competences in using computers as outlined in the European Computer Driving Licence (ECDL) or ICDL; Workplace experience in a business process in general and use of information technology in such a process.
Module objectives	<p>Knowledge: Students learn the scientific approach when addressing a problem in the field of business systems. They are able to carry out a scientific research and evaluate sources with regard to reliability, timeliness and its content. Students learn about IT systems in business from a user's perspective, including software lifecycle models and requirements.</p> <p>Skills: Students gain competence to understand the multiple opportunities for the application of information technology in business. Students are able to analyse existing information technology and to compare to the state of the art. Students gain the competence to assess software solutions and to value the possibilities for an effective and efficient application of information systems to ensure the success of an organisation. Students can value the social impact of information technology.</p> <p>Competences: Students are able to argue in a structured and logical way and can present results in written or oral form. Working on the topics trains self-management and personal responsibility.</p>
Content	<p>Research in information technology in business: qualitative vs. quantitative research; explanation-oriented and design-oriented research; Planning and managing research including proposals, literature research, writing term papers or oral presentations;</p> <p>Doing research in the area of information technology in business: use of information technology, including hard- and software in an organization, including:</p> <ul style="list-style-type: none"> – Development of information systems to support business functions including software lifecycle models and various specification diagrams, the role of management in the process – Evaluation and assessment of software based on ISO criteria as a bases for strategic decisions, – Applications in organisations; <p>Students' work place experience is reviewed in terms of the evolving world of information technology.</p>

Module Handbook, Master of Business Systems, Hochschule Wismar

Examination	Written examination, review of case study, application to course project or term paper and an oral presentation. Assessment details will be provided at the beginning of the course.
Reading list	Research: David Evans, Paul Gruba: How to Write a Better Thesis, Melbourne Univ. Press or Springer, latest edition Erik Hofstee: Constructing a Good Dissertation, Exactica, latest edition Information technology in Business: Turban, E.R. et. all.: Introduction to information technology. Wiley; Laudon, K.C.: Management Information Systems, Prentice Hall; Other textbooks on information technology may work as well. 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.