

Module Name Requirements Engineering						
Type of Module Advanced Module				Module Code AM-RE		
Identification Number MSc-I-RE	Workload 270 Hours	Credit Points 9 CP	Term 1. – 3. Semester	Offered Every SuSe	Start Summer term only	Duration 1 Semester
1	Course Types a) Lecture b) Exercise		Contact Time 60 h 30 h	Private Study 120 h 60 h		Planned Group Size No limits
2	Module Objectives and Skills to be Acquired The students... ... have an awareness of the importance, difficulties and possibilities of requirements engineering. ... have relevant knowledge of requirements elicitation, documentation, analysis and management and are able to apply appropriate techniques. ... know that successful requirements engineering requires careful planning, systematic approach and discipline. ... know which non-technical difficulties (e.g., time economy, communication and coordination problems, difficulties in working with others) can arise in the course of software creation and how to deal with them successfully.					
3	Module Content A good requirements specification is a crucial prerequisite for any successful software project. This lecture provides an introduction to processes, methods, and representation forms for specifying and managing requirements. Topics include: <ul style="list-style-type: none"> • Background and general overview • Fundamental principles of requirements engineering • Work products and documentation techniques (natural language and model-based) • Requirements elicitation practices • Validation of requirements • Requirements engineering processes • Requirements Management • Tool Support 					
4	Teaching Methods Lecture, Exercises					

5	<p>Prerequisites (for the Module)</p> <p>Formally: None</p> <p>Recommended: Basic module in computer science (programming course), advanced module in computer science II (software engineering), focus module in programming</p>
6	<p>Type of Examination</p> <p>Written Exam</p>
7	<p>Credits Awarded</p> <p>Passing the written examination. Regular participation in the exercises and the successful completion of exercises can be used as admission requirements for the examination and can be included in the examination performance on a pro-rata basis, provided that prior notice is given. Registration is required for participation in the final examination; one repeat examination is offered per rotation. Repeated participation in the lecture and exercises in preparation for a retake of the final exam is possible. The module is graded.</p>
8	<p>Compatibility with other Curricula</p> <p>Master of Science Informatik</p>
9	<p>Proportion of Final Grade</p> <p>9/114</p>
10	<p>Module Coordinator</p> <p>Prof. Dr. Andreas Vogelsang</p>
11	<p>Further Information</p>