

Die Modulbeschreibung sollte direkt über diesen [Link](#) in HISinOne eingepflegt werden.

Module code	Module title	Category
MAIE1120	Research Project 1	MA
	Degree program	MA Software Engineering
	Faculty	Building Services Engineering and Computer Science

Module coordinator	nn
Module type	Mandatory module
Frequency	1x annually in SuSe
Recommended semester	1. semester
Credit (ECTS-Points)	5
Academic Assessment Method	Exam with prerequisite PrP = Project / Assignment with presentation)
Teaching language	English
Admission requirements for this Module	none
Module duration	1 Semester
Required Registration	Students enrolled in the above-mentioned degree program/standard semester will be registered automatically upon re-enrollment; all other participants, please refer to the information below. none

Course		Lecturer	Type	Group Size (max.)	Number of Groups	Contact hours per week (SWS)	Workload (in h)	
							Face-to-face	Self-study
1	Research Project 1	nn	Project assignment	30	1	4	60	65
2	Titel der Lehrveranstaltung.	Dozent*in	Wählen Sie ein Element aus.		Wählen Sie ein Element aus.			
3	Titel der Lehrveranstaltung.	Dozent*in	Wählen Sie ein Element aus.		Wählen Sie ein Element aus.			
4			Wählen Sie ein Element aus.					

5	Titel der Lehrveranstaltung.	Dozent*in	Wählen Sie ein Element aus.		Wählen Sie ein Element aus.			
Sum						4,0	60	65
Total Workload for Module							125	

Learning Objectives / Learning outcomes	1. Understand fundamental principles of scientific research and academic integrity. (<i>Understand</i>) 2. Identify and formulate a clear research question within a defined problem space. (<i>Apply</i>) 3. Conduct a structured literature review using academic databases and appropriate sources. (<i>Analyse</i>) 4. Compare and evaluate existing approaches, theories, or technologies related to the topic. (<i>Evaluate</i>) 5. Apply basic empirical or theoretical methods to explore the research question. (<i>Apply</i>) 6. Document research methodology, results, and limitations in a scientific report format. (<i>Apply/Evaluate</i>) 7. Collaborate effectively with a supervisor and respond to constructive feedback. (<i>Apply</i>) 8. Reflect on the research process, including challenges and learning outcomes. (<i>Evaluate</i>)
Contents	This module introduces students to academic research processes in the field of software engineering or applied informatics. Working on a clearly defined topic, students conduct a structured literature review, develop a research question, and explore basic methods for empirical or theoretical investigation. The emphasis lies on research planning, source analysis, and the ability to document findings in a scientifically appropriate form. Students gain first-hand experience in applying research tools, writing in academic style, and collaborating with a supervisor throughout the project.
Literature	• Creswell, J. W., & Creswell, J. D. (2018). <i>Research Design: Qualitative, Quantitative, and Mixed Methods Approaches</i> (5th ed.). SAGE. • Easterbrook, S., et al. (2008). <i>Selecting Empirical Methods for Software Engineering Research</i>. In <i>Guide to Advanced Empirical Software Engineering</i>. Springer. • O'Leary, Z. (2017). <i>The Essential Guide to Doing Your Research Project</i> (3rd ed.). SAGE. • Alred, G. J., Brusaw, C. T., & Oliu, W. E. (2015). <i>The Handbook of Technical Writing</i> (11th ed.). Bedford/St. Martin's. • Pears, R., & Shields, G. (2019). <i>Cite Them Right: The Essential Referencing Guide</i> (11th ed.). Bloomsbury.