

## M 6.2 Research Internship Medical Engineering

1	Name of the module	Research internship medical engineering	5 ECTS
2	Courses	Winter/summer term: research internship	5 ECTS
3	Tutor	Every tutor involved in the medical engineering study programme	
4	Person responsible	Prof. Andreas Maier	
5	Content	The research internship aims to teach the students the reality in scientific research. The focus of the research activities can be of experimental, theoretical or constructional character. The subject must be related to medical engineering. A combination of several foci is possible. The research activities will be performed with one of the chairs at the School of Engineering, possibly also with an external partner.	
6	Educational objectives and competences	<p>By these research-oriented studies the student should be familiarized with research in engineering sciences and gain practical experiences within academic research on a Master-study level at the University. In details, the students learn amongst others to</p> <ul style="list-style-type: none"> <li>• Search for literature and evaluate their relevance with regard to the topic</li> <li>• Create and apply criteria for the evaluation of the executed tasks</li> <li>• Evaluate and if necessary enhance the applied methods</li> <li>• Evaluate and interpret results</li> <li>• Write a written summary of the completed tasks in the style of a scientific publication, e.g. as a co-author of an actual publication or as a written report of 4 to 6 pages; structured into: Abstract, Introduction, Methods, Results, Discussion, References;</li> </ul>	
7	Requirements for participation	None	
8	Integration into the Master program	Parallel to other classes or out of session	
9	Applicability	Master programme Medical Engineering	
10	Course achievement/specification of exam	Certificate of the responsible chair including subject and length of the research internship as well as confirmation of the scientific achievements of the student.	
11	Grading	No mark	
12	Repeating cycle	As offered by the chair involved	
13	Repetition of exam	None	
14	Expenditure of work	Minimum 150 hours, equivalent to 5 ECTS	
15	Length of the module	Depending on the timeline	
16	Course language	German/English	
17	Preparatory literature	None	