

# Module Clinical Application

## Module Name Clinical Application

Module Number	<b>X4M 2000</b>	Level	Master	Short CA Name
Responsible Lecturers	Prof. Dr.-Ing. Stephan Klein			
Department, Facility	THL, Applied Natural Sciences and UKSH			
Course of Studies	Biomedical Engineering, Master			
Compulsory/elective	Elective	ECTS Credit Points	2	
Semester of Studies	2	Semester Hours per Week	2	
Length (semesters)	1	Workload (hours)	60	
Frequency	SuSe	Presence Hours	25	
Teaching Language	English	Self-Study Hours	35	
Consideration of Gender and Diversity Issues	<input checked="" type="checkbox"/> Use of gender-neutral language (THL standard) <input type="checkbox"/> Target group specific adjustment of didactic methods <input type="checkbox"/> Making subject diversity visible (female researchers, cultures etc.)			
Applicability	Biomedical Engineering			
Remarks	None			

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### Course 1: Clinical Application Project

Course Number		Short Name	CA
Course Type	project	Form of Learning	Presence
Mandatory Attendance	X	ECTS Credit Points	2
Participation Limit	12	Semester Hours per Week	2
Group Size (practical training, exercises, ...)	None	Workload (hours)	60
Teaching Language	English	Presence Hours	25
Study Achievements („Studienleistung“, SL)	None	Self-Study Hours	35
SL Length (minutes)	n. a.	SL Grading System	n. a.
Exam Type	Written Exam	Exam Language	English
Exam Length (minutes)	90	Exam Grading System	One-third Grades
Learning Outcomes	<p>The students shall acquire basic knowledge in medicine, learn to communicate with physicians adequately, and learn about the application of modern medical products.</p> <p>The students shall get consolidated knowledge of current medical products used for diagnosis and therapy.</p> <p>The students shall learn about the application of medical products in diagnosis as well as in therapy.</p>		
Participation Prerequisites	None		
Contents	<p>Lectures might vary from semester to semester. The numeration below lists some examples</p> <ul style="list-style-type: none"> <li>Navigation in Surgery</li> <li>Digital Breast Tomosynthesis</li> <li>Pediatric Medical Devices</li> <li>Modern Techniques in Trauma/and Orthopedic Surgery</li> <li>Neuroradiology</li> <li>Nuclearmedicine</li> <li>Advanced Technologies in Head and Neck Surgery</li> <li>Minimal Invasive Surgery</li> <li>Radiation Therapy Equipment Planning</li> <li>Neurooncology</li> <li>Heart valve prostheses / Mechanical circulatory support</li> <li>Pathology</li> <li>Radiology Abdominal Imaging</li> <li>Anaesthesiology</li> <li>Dermatology</li> </ul>		

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Literature	Hand-outs and presentations from lecturers
Remarks	Board, transparencies, LCD-projector, visits in labs and clinics