

Module Name: Final Examination					
Module Number		Level	Master	Short Name	
Module Responsibility	Prof. Dr.-Ing. Stephan Klein				
Department, Facility	THL, Applied natural Sciences, Med. Sensors and Devices Lab.				
Lecturers/examiners	all lecturers from participating universities				
Course of Studies	Medical Microtechnology, Master				
Compulsory/elective	Compulsory	ECTS Credit Points	30		
Semester of Studies	4	Semester Hours per Week	n. a.		
Length (semesters)	1	Workload (hours)	900		
Frequency	at all times	Presence Hours	0		
Teaching Language	English	Self-Study Hours	900		
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, Medical Microtechnology				
Remarks	None				
Course 1: Thesis					
Course Number		Short Name			
Course Type	Thesis	Form of Learning	Flexible		
Mandatory Attendance	<input type="checkbox"/>	ECTS Credit Points	26		
Participation Limit	n. a.	Semester Hours per Week	n. a.		
Group Size (practical training, exercises, ...)	n. a.	Workload (hours)	780		

Teaching Language	English	Presence Hours	0
Study Achievements („Studienleistung“, SL)	n. a.	Self-Study Hours	780
SL Length (minutes)	n. a.	SL Grading System	n. a.
Exam Type	Written	Exam Language	English
Exam Length (minutes)	n. a.	Exam Grading System	One-third grades
Learning Outcomes	<p>The students shall</p> <ul style="list-style-type: none"> • know about the application of current medical products in diagnosis and therapy and be able to critically evaluate data and draw conclusions. • acquire consolidated knowledge of physical, electrical, and mechanical principles applied in medical products. • independently cope with a defined problem in medical technology and be able to use creativity to develop new and original ideas and methods. • be enabled to independently develop medical products according to relevant standards. • be able to present results of their work and should have a knowledge of the non-technical implications of engineering practice. • be prepared for the international labour market and should have the ability to work and communicate effectively in national and international contexts. • apply research methods. 		
Participation Prerequisites	All credits from 1 st semester and at least 20 credits from 2 nd semester.		
Contents	The students work on a defined task independently and present their work in writing.		
Literature	None		
Remarks	None		
Course 2: Oral Examination			
Course Number		Short Name	
Course Type	Oral Examination	Form of Learning	Presence
Mandatory Attendance	<input checked="" type="checkbox"/>	ECTS Credit Points	4
Participation Limit	n. a.	Semester Hours per Week	n. a.

Group Size (practical training, exercises, ...)	n. a.	Workload (hours)	120
Teaching Language	English	Presence Hours	0
Study Achievements („Studienleistung“, SL)	n. a.	Self-Study Hours	120
SL Length (minutes)	n. a.	SL Grading System	n. a.
Exam Type	Oral	Exam Language	English
Exam Length (minutes)	60	Exam Grading System	One-third grades
Learning Outcomes	<p>The students shall</p> <ul style="list-style-type: none"> • know about the application of current medical products in diagnosis and therapy and be able to critically evaluate data and draw conclusions. • acquire consolidated knowledge of physical, electrical, and mechanical principles applied in medical products. • independently cope with a defined problem in medical technology and be able to use creativity to develop new and original ideas and methods. • be enabled to independently develop medical products according to relevant standards. • be able to present results of their work and should have a knowledge of the non-technical implications of engineering practice. • be prepared for the international labour market and should have the ability to work and communicate effectively in national and international contexts. • apply research methods 		
Participation Prerequisites	All credits from 1 st , 2 nd , and 3 rd semester Submission of thesis		
Contents	The students present their thesis work in oral. Examination by two examiners covering content of study program		
Literature	None		
Remarks	None		