Module Master Thesis

Module Name: Master Thesis

Module Number		Level Master	Short Exam Name	
Responsible Lecturers	Prof. DrIng. Stephan Klein			
Department, Facility	THL, Applied Natural Sciences			
Course of Studies	Biomedical Engineering, Master			
Compulsory/elective	Compulsory	ECTS Credit Points 30		
Semester of Studies	4	Semester Hours per Week 15		
Length (semesters)	1	Workload (ho	ours) 900	
Frequency	SuSe	Presence He	ours 0	
Teaching Language	English	Self-Study He	ours 900	
Consideration of Gender	⊠ Use of gender-neutral language (THL standard)			
and Diversity Issues	\Box Target group specific adjustment of didactic methods			
	Making subject diversity visible (female researchers, cultures etc.)			
Applicability	Biomedical Engineering			
Remarks	None			

Module Master Thesis

Module Course Master Thesis

Course 1: Master Thesis

Course Number		Short Name	Thesis		
Course Type	Thesis	Form of Learning	Presence		
Mandatory Attendance	Х	ECTS Credit Points	26		
Participation Limit	n. a.	Semester Hours per Week	26		
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		
	 The students shall know about the application of current medical products in diagnosis and therapy and be able to critically evaluate data and draw conclusions. The students shall acquire consolidated knowledge of physical, electrical, and mechanical principles applied in medical products. The students shall independently cope with a defined problem in medical technology and be able to use creativity to develop new and original ideas and methods. The students shall be enabled to independently develop medical products according to relevant standards. The students shall be able to present results of their work and should have a knowledge of the non-technical implications of engineering practice. The students shall be prepared for the international labour market and should have the ability to work and communicate effectively in national and international contexts. The students shall 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				

Module Master Thesis

Module Course Final Examination

Course 2: Final Examination

Course Number		Short Name	Colloq		
Course Type	Oral presentation	Form of Learning	Presence		
Mandatory Attendance	\boxtimes	ECTS Credit Points	4		
Participation Limit	n.a.	Semester Hours per Week	2		
Group Size (practical training, exercises,)	n. a.	Workload (hours)			
Teaching Language	English	Presence Hours			
Study Achievements ("Studienleistung", SL)	n. a.	Self-Study Hours			
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	 The students shall know about the application of current medical products in diagnosis and therapy and be able to critically evaluate data and draw conclusions. The students shall acquire consolidated knowledge of physical, electrical, and mechanical principles applied in medical products. The students shall independently cope with a defined problem in medical technology and be able to use creativity to develop new and original ideas and methods. The students shall be enabled to independently develop medical products according to relevant standards. The students shall be able to present results of their work and should have a knowledge of the non-technical implications of engineering practice. The students shall be prepared for the international labour market and should have the ability to work and communicate effectively in national and international contexts. 				
Participation Prerequisites	All credits from 1 st and 2 nd semester plus research internship and student conference.				
Contents	The students work on a defined task independently and present their work in oral.				
Literature	None				
Remarks	None				