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Study program	M.Sc. Human Technology in Sports and Medicine (M.Sc. TSM)		
Examination regulations by:	2007/04/01 in its respectively valid version		
Valid for first-year students:	Winter term 2022/23 onward		
Version:	Mai 2022		

Module	SRS	Courses (type of class)	SHW	CP <sup>1</sup> /WLH
TSM1	1.	Basics I - Mathematics & Physics	4	6/180
		Mathematics and Physics (SE)	2	
		Tutorials on Mathematics and Physics (TUT)	2	
TSM2	1.	Basics II - Biomechanics	8	8/240
		Biomechanics (SE)	2	
		Mechanobiology (SE)	2	
		Ergonomy (SE)	2	
		Biomechanics and Mechanobiology (TUT)	2	
TSM3	1.	1. Basics III - Data management & Data analysis		8/240
		Data management/programming (SE)	2	
		Statistics lecture series (LEC)	1	
		Advanced & Applied statistics (SE)	2	
		Applied Data management/programming (SE)	2	
TSM4	1.	Basics IV - Material & construction	4	8/240
		Material and Construction (SE)	2	
		Material and Construction (TUT)	2	
TSM5	2.	Technology I - Orthopaedic technologies	4	5/150
		Orthopaedic Biomechanics - Functionality of Orthoses and Exoskeletons (SE)	2	-
		Joint replacements, Implants and Prostheses (SE)	2	
TSM6	2.	Technology II - Sports Biomechanics and Project Management	5	5/150
1 31010	2.	Sports Biomechanics (SE)	3	5/150
		Project Management (SE)	2	
TSM7	2.	Technology III - Sports equipment and Instrumentation	6	9/270
	2.	Instrumentation Technology (SE)	2	5/2/0
		Sports and Rehabilitation Equipment (SE)	2	
		Footwear and Playing Surfaces (SE)	2	
TSM8	2.	Technology IV - Modeling and Simulation	4	6/180
	2.	Multi Body Modeling (SE)	2	0/100
		Finite Element Modeling (SE)	2	
TSM9	2.	Technology V - Diagnostics in Sports, Medicine and Rehabilitation	4	5/150
	۷.	Biomechanical and Physiological diagnostics (SE)	2	5/150
			2	
TSM10	3.	Biomedical diagnostics (TUT)	4	6/180
	5.	Philosophy of Science	4	0/180
		Ethics, Technology and Research in Humans (SE)	2	
	-	Research Methods (SE)		42/202
TSM11	3.	Project I - Sports Technology Project	<b>8</b> 2	12/360
		Applied Research Methods (SE)		
		Sports Technology (TUT)	6	
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		Project II - Medical Technology Project	2	
		Applied research methods (SE)	6	
TCN/12	3.	Medical Technology (TUT)	o	12/200
TSM12		Internship (360 h)		12/360
TSM13	4.	Master Thesis	2	30/900
		Reading, Writing and Publishing in empirical Sciences (SE)	2	
		Thesis		
Total			60	120/3600

## Abbreviations:

TSM = Human Technology in Sports and Medicine, SRS = subject-related semester, SHW = semester hours per week, CP = credit points, WLH = workload hours, LEC = lecture, SE = seminar, TUT = exercise/tutorial, FT = field trip

Comments:

The specifications regarding the academic performances and examination results as well as the attendance requirements are

listed in the module handbook.

<sup>1</sup> A credit point corresponds to a workload of 30 hours, which can be achieved by attendance of lectures, seminars and courses as well as by means of self-study (e.g. preparatory- and follow-up work, tutorials etc.).