

Module Overview: M.Sc. Sport and Exercise Science

1st Semester	Biomechanics & Neuroscience	Exercise Biology, Training & Health	Psychology & Social Sciences	Research Skills, Auxiliary Subjects
	Biomechanics, Human Movement and Neuromechanical Control (5 ECTS)	Current Topics in Exercise Biology, Performance Testing and Health (5 ECTS)	Current Social and Political Topics of Sport in Global Societies (5 ECTS)	Study Design, Ethics – Research Methods (5 ECTS) Technical Analysis (5 ECTS) Entrepreneurial Opportunity Development (5 ECTS)
2nd Semester	Biomechanical Methods and Application Methods in Human Movement Science Methods in Neuromechanics	Exercise Biology Methods Methods of Performance Analysis and Testing Nutrition for Human Performance: Current Topics and Research Methods Sports Informatics	Methods in Performance Psychology Electives A: Choose 4 (6 ECTS each)	Advanced Statistics (6 ECTS)
	Current Topics in Human Movement Science Neuromuscular Control and Learning Biomechanics for Strength and Conditioning in Elite Sports Muscle Function and Human Movement Studies Neuronal and Cognitive Aspects in Motor Control Human Robotics New Technologies in Neurohabilitation and Motor Learning	Molecular Exercise Physiology Performance Analysis Specialisation Sports Analytics Evidence-Informed Training for Performance, Fitness & Health	Psychophysiology of Stress in Sport Participation and Inclusion Sponsorship-linked Marketing Special Topics in Elite Level Sports Qualitative Research Methods Electives B: Choose 5 (5 ECTS each)	
3rd Semester				Extracurricular Qualifications (5 ECTS)
4th Semester			Master's Thesis (30 ECTS)	

Note on the elective areas: Offers in the elective areas continuously change. Therefore, please note that the modules shown can only be examples and a regular offer of certain modules is not guaranteed (an overview with currently offered modules is linked on the study program website). Places for modules are allocated by lottery: there is no guarantee of obtaining places on any particular module. Further information on this can be found at <https://www.sg.tum.de/en/sg/study-programs/students/information-about-courses/>.