# Structure of the Master Program „Sport and Exercise Science“ (since 2019)

## 1st Semester:
- Biomechanics and Neuroscience
- Biomechanics, Human Movement and Neuromechanical Control (5 Credits)

## 2nd Semester:
- Biomechanical Methods and Application
- Methods in Human Movement Science
- Methods in Neuromechanics

## 3rd Semester:
- Current Topics in 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

## 4th Semester:
- Current topics in Exercise Biology, Performance Testing and Health (5 Credits)
- Methods of Performance Analysis and Testing
- Nutrition for Human Performance: Current Topics and Research Methods
- Sports Informatics

## Choose 4 (6 Credits each):
- Molecular Exercise Physiology
- Performance Analysis Specialisation
- Sports Analytics
- Evidence-based training for performance, fitness & health

## Choose 5 (5 Credits each):
- Exercise Biology Methods
- Methods in Performance Psychology

## Psychology & Social Sciences
- Current Social and Political Topics of Sport in Global Societies (5 Credits)

## Research Skills, Auxiliary Subjects
- Study Design, Ethics (5 Credits)
- Technical Analysis (5 Credits)
- Entrepreneurial Opportunity Development (5 Credits)

## Advanced Statistics (6 Credits)

## Extracurricular Qualifications (5 Credits)
- 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

## Master’s Thesis (30 Credits)
- Evidence-based training for performance, fitness & health
- Special Topics in Elite Level Sports
- Qualitative Research Methods
- Sponsorship-Linked Marketing
- Sports Analytics
- Sports Informatics
- Neuronal and Cognitive Aspects in Motor Control

## 4th Semester:
- Participation and Inclusion

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### Notes:
- Exercise Biology, Training & Health
- Current topics in Exercise Biology, Performance Testing and Health (5 Credits)
- Methods of Performance Analysis and Testing
- Nutrition for Human Performance: Current Topics and Research Methods
- Sports Informatics

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### Additional Details:
- Participate in seminars, workshops, and conferences related to the field of Sport and Exercise Science.
- Attend courses on advanced statistical methods and data analysis.
- Engage in supervised research projects and writing the Master’s Thesis (30 Credits).
- Participate in extracurricular activities and qualifications (5 Credits).

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### Important Information:
- For more detailed information on each course and its prerequisites, consult the university’s official course catalog.
- Ensure compliance with any additional regulations and ethical guidelines required for research activities.

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