

MASTER

Medical & Sports Technologies

Job friendly
time model

DEGREE	Master of Science in Engineering M.Sc. MSc* *Use of the academic degree in combination with the brand 'MCI' approved
DURATION	4 semesters including Master's Thesis and final exam
MAIN FOCUS	High level of practical relevance, international orientation, close collaboration with trade and industry, focus on academic excellence and industry-related skills, interdisciplinary projects, small group sizes.
TIME MODEL	Full-time study program with job & family friendly time model (morning sessions between 9 a.m. and 1 p.m. from Monday to Friday, occasionally, classes are held in the afternoon, block teaching, project & laboratory work, etc.)
LANGUAGE	English
CONTENT	<ul style="list-style-type: none"> • General Technology & Engineering 25% • Hands-On Projects 13% • Major Subjects 29% • Management & Entrepreneurship 8% • Master's Thesis & Final Exam 25%
PROFESSIONAL OPPORTUNITIES	<ul style="list-style-type: none"> • Engineer in Research & Development • Project & Team Leader • Product Owner / Agile Master • Clinical Researcher / Engineer • Specialist in Medical / Sports Data Analysis • Technology Management in Sports Associations • Innovation / Product Manager • Founder / Entrepreneur in Startups
ADMISSION REQUIREMENTS	<ul style="list-style-type: none"> • Graduates of Bachelor programs in the field of Medical or Sports Engineering • Graduates of other Bachelor programs or Diploma programs in the fields of Mechatronics, Industrial Engineering, Radiology Technology, Sports Technologies, Clinical Engineering, Environmental, Process & Energy Engineering and IT. • In any case, a Bachelor's curriculum needs to cover sufficient relevant ECTS points in the following competencies: <ul style="list-style-type: none"> - Fundamentals of Mathematics and Natural Sciences - Fundamentals of engineering and IT - Fundamentals of medicine and medical technology, sports science & sports technology - Economic and legal aspects of engineering and key skills
TUITION	Per semester: € 363.36 for students from EU & EEA countries + membership fee to the Austrian Student's Union Details for students from third countries: mci.edu/admission Scholarships: mci.edu/scholarships
APPLICATION & SELECTION PROCESS	<ul style="list-style-type: none"> • Online Application: CV & Motivation • Online admission interview <p>Details and information on application and admission: mci.edu/admission</p>



Curriculum

SEM | **SWS** | **ECTS**
 4 | 4 | 30

5
 Master's Seminar

25
 Master's Thesis & Exam

..... 3 | 19 | 30

5
 Virtual & Augmented Reality

5
 Advanced Image & Data Processing

5
 Advanced Biomechanics

5
 Current Research Areas in Medical Technologies

5
 Current Research Areas in Sports Technologies

10
 Student Project – Design & Realization MT

..... 2 | 20 | 30

5
 Entrepreneurship, Innovation Strategy & Business Models

5
 Advanced Data Analysis & Artificial Intelligence

5
 Advanced Computational Modelling & Simulation

5
 Medical Device Safety & Clinical Trials

5
 Digital Sports Products

5
 Medical Robotics

..... 1 | 22 | 30

5
 Leadership & Life Cycle Management

5
 App Development for Medical & Sports Technologies

5
 Sensors & Actuators in Medicine & Sports

5
 Product Development, Testing & Approval

5
 Recovery, Prevention & Therapy

5
 Student Project – Concept ST

5
 Individualized & Image Guided Medicine

5
 Student Project – Concept MT

5
 Advanced Materials & Design for Sports Equipment

5
 Student Project – Concept ST

Specialization Medical Technologies

Specialization Sports Technologies