

## MASTER

# Medical & Sports Technologies


 Job friendly  
time model

<b>DEGREE</b>	Master of Science in Engineering   M.Sc.   MSc* <i>*Use of the academic degree in combination with the brand 'MCI' approved</i>
<b>DURATION</b>	4 semesters including Master's Thesis and final exam
<b>MAIN FOCUS</b>	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.
<b>TIME MODEL</b>	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.)
<b>LANGUAGE</b>	English
<b>CONTENT</b>	<ul style="list-style-type: none"> <li>• General Technology &amp; Engineering 25%</li> <li>• Hands-On Projects 13%</li> <li>• Major Subjects 29%</li> <li>• Management &amp; Entrepreneurship 8%</li> <li>• Master's Thesis &amp; Final Exam 25%</li> </ul>
<b>PROFESSIONAL OPPORTUNITIES</b>	<ul style="list-style-type: none"> <li>• Engineer in Research &amp; Development</li> <li>• Project &amp; Team Leader</li> <li>• Product Owner / Agile Master</li> <li>• Clinical Researcher / Engineer</li> <li>• Specialist in Medical / Sports Data Analysis</li> <li>• Technology Management in Sports Associations</li> <li>• Innovation / Product Manager</li> <li>• Founder / Entrepreneur in Startups</li> </ul>
<b>ADMISSION REQUIREMENTS</b>	<ul style="list-style-type: none"> <li>• Graduates of Bachelor programs in the field of Medical or Sports Engineering</li> <li>• Graduates of other Bachelor programs or Diploma programs in the fields of Mechatronics, Industrial Engineering, Radiology Technology, Sports Technologies, Clinical Engineering, Environmental, Process &amp; Energy Engineering and IT.</li> <li>• In any case, a Bachelor's curriculum needs to cover sufficient relevant ECTS points in the following competencies:               <ul style="list-style-type: none"> <li>- <i>Fundamentals of Mathematics and Natural Sciences</i></li> <li>- <i>Fundamentals of engineering and IT</i></li> <li>- <i>Fundamentals of medicine and medical technology, sports science &amp; sports technology</i></li> <li>- <i>Economic and legal aspects of engineering and key skills</i></li> </ul> </li> </ul>
<b>TUITION</b>	Per semester: € 363.36 for students from EU & EEA countries + membership fee to the Austrian Student's Union Details for students from third countries: <a href="https://mci.edu/admission">mci.edu/admission</a> Scholarships: <a href="https://mci.edu/scholarships">mci.edu/scholarships</a>
<b>APPLICATION &amp; SELECTION PROCESS</b>	<ul style="list-style-type: none"> <li>• Online Application: CV &amp; Motivation</li> <li>• Online admission interview</li> </ul> Details and information on application and admission: <a href="https://mci.edu/admission">mci.edu/admission</a>



# Curriculum

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

Master's Seminar	Master's Thesis & Exam
5	25

..... 3 | 19 | 30 .....

Virtual & Augmented Reality	Advanced Image & Data Processing	Advanced Biomechanics	Current Research Areas in Medical Technologies	Current Research Areas in Sports Technologies	Student Project – Design & Realization MT	Student Project – Design & Realization ST
5	5	5	5	5	10	10

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Entrepreneurship, Innovation Strategy & Business Models	Advanced Data Analysis & Artificial Intelligence	Advanced Computational Modelling & Simulation	Medical Device Safety & Clinical Trials	Digital Sports Products	Medical Robotics	Recovery, Prevention & Therapy	Student Project – Concept MT	Student Project – Concept ST
5	5	5	5	5	5	5	5	5

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Leadership & Life Cycle Management	App Development for Medical & Sports Technologies	Sensors & Actuators in Medicine & Sports	Product Development, Testing & Approval	Individualized & Image Guided Medicine	Individualized Sports Equipment & Smart Materials	Rehabilitation & Assisted Living	Advanced Motion Analysis
5	5	5	5	5	5	5	5

Specialization Medical Technologies

Specialization Sports Technologies