JOINT MASTER IN BIOMEDICAL ENGINEERING
WHAT IS BIOMEDICAL ENGINEERING?
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**SOME HISTORY OF MEDICAL DEVICES**

- **New stone age (10’000 B.C.)**
- **Middle age**
- **Today**
SOME HISTORY OF DIAGNOSIS
2 INSTITUTIONS – 1 MASTER: Master of Science Biomedical Engineering
ADMISSION REQUIREMENTS

**Medicine related Bachelors**
- Biomedicine/Biomedical Sciences
- Dental Medicine
- Health Science and Technologies
- Human Medicine
- Pharmaceutical Sciences
- Sport, Exercise and Health Sciences

**Natural Science Bachelors**
- Biochemistry
- Biology
- Biotechnology
- Chemistry
- Computational Sciences
- Data Science
- Digital Life Sciences
- Computer Science
- Life Sciences and Technologies
- Materials Sciences
- Mathematics
- Medical Informatics
- Mikrotechnologies
- Micro - und Medical Technologies
- Mobile Robotics
- Nano Sciences
- Physics
- Photonics

**Engineering Bachelors**
- Civil Engineering
- Chemical Engineering
- Electrical engineering
- Mechanical Engineering
- Mobile Robotics
- System Engineering
## CURRICULUM

<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
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<tbody>
<tr>
<td>2nd Sem. 30CP</td>
<td>BME Basics 12/12CP, BME Electives 9/30CP</td>
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<tr>
<td>3rd Sem. 30CP</td>
<td>Specializations Electives 9/39CP*</td>
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<tr>
<td>4th Sem. 30CP</td>
<td>Master's Thesis 25CP + 5CP</td>
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</table>

*Not all combinations of modules can be guaranteed*
3D printed patient-specific meshes made of poly (L-lactide-co-D, L-lactide) and β-TCP for guided bone regeneration

Silk reinforced, micro-patterned cellulose films for soft neural implants

Automatic Curvature Analysis of the Left Atrium from Cardiac Magnetic Resonance Imaging

By Dominik Mory

By Mayhar Joodaki

By Sofia Pla Alemani
CAREER PROSPECTS

Academic Research  Healthcare  Industry
CAREER IN HEALTHCARE
CAREER IN INDUSTRY
GROWING MEDTECH INDUSTRY IN SWITZERLAND
ACADEMIC RESEARCH CAREER
Thank You For Your Interest!

QUESTIONS? CONTACT US:

master-dbe@unibas.ch

MEET US

Online-Info
Evening Master
Thu 16 March 2023
5-7 p.m.