

Medical Microtechnology Workshop, Lübeck, April 28th 2022



Dette projekt finansieres af midler fra Den Europæiske Fond for Regionaludvikling. |
Dieses Projekt wird mit Mitteln des Europäischen Fonds für regionale Entwicklung gefördert .

Overview



Medical Microtechnology

April 2020 –
March 2023

German-Danish
Cross-border Master's Degree



36
months



3 Universities

8 network partners from
Germany and Denmark



Project:

<https://www.mmt-project.eu/>

Master-Program:

<https://www.mmt-master.de/>

Curriculum / Structure

1st Semester, 30 ECTS	2nd Semester, 30 ECTS	3rd Semester, 30 ECTS	4th Semester, 30 ECTS
System Theory (6 ECTS) Signals and Systems (3 ECTS) Numerical Methods (3 ECTS)	Cleanroom Microfabrication (5 ECTS)	Research Internship (24 ECTS) (might be divided into two separate projects)	Master Thesis (26 ECTS)
MatLab – workshop (4 ECTS)	Computational Multi-Physics (10 ECTS)		
Medicine (8 ECTS) Anatomy and Physiology (4 ECTS) Microbiology and Hygiene (4 ECTS)	Optics for Engineers (5 ECTS)		
Natural Sciences (4 ECTS) Biomechanics (2 ECTS) Biophysics (2 ECTS)	Clinical Application / Regulatory Affairs (5 ECTS)		
Medical Technology (8 ECTS) Medical Technology (6 ECTS) Medical Technology - Lab (2 ECTS)	Electives (5 ECTS)		
		Student Conference (6 ECTS)	Final Examination (4 ECTS)

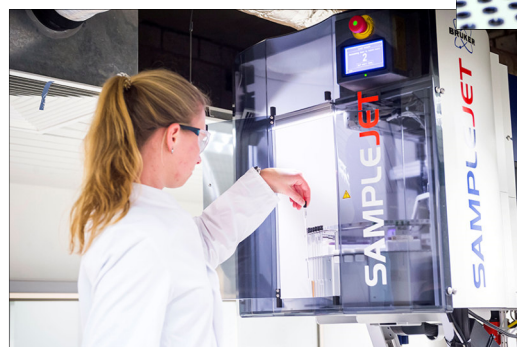
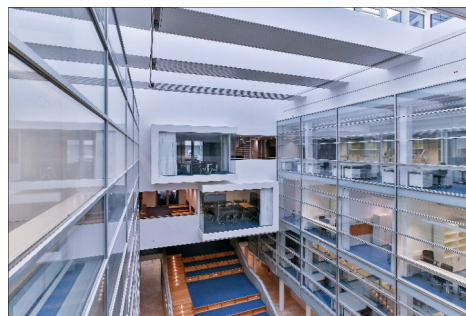
■ Luebeck ■ Sonderborg ■ program region Interreg 5a (preferred)

Electives, 5 ECTS each

Nanofabrication Technology
Real-time Systems
Summer School

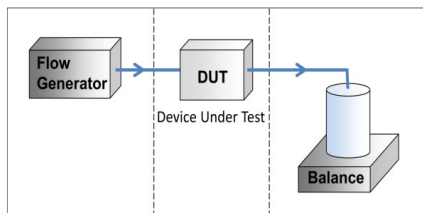
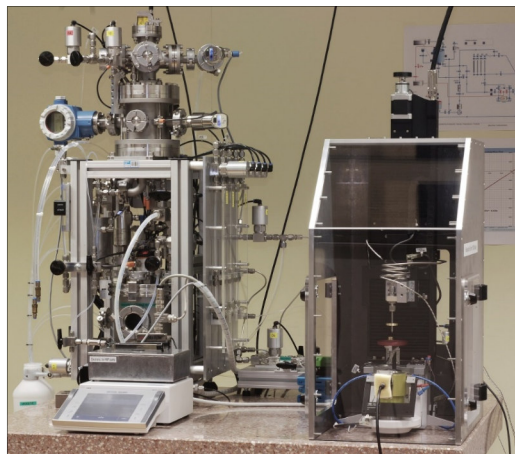
Study Program

- ✓ Government Approval
- ✓ Accreditation
- ✓ Website
- ✓ (Marketing)
- ✓ 1st enrollment: winter term 21 / 22
- ✓ 1st start in Sonderborg: summer term 22



Example: Microfluidics

- ✓ Metrology for Drug Delivery
- ✓ Impact on Infusion Technology
- ✓ Calibration
- ✓ European Co-Operation
- ✓ National Metrology Institutes
- ✓ Research and Application



Source: Bissig, METAS, CH



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Thank you – Mange tak – Vielen Dank!



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