Welcome to the Master of Science program in Biomedical Engineering (Medicine & Technology)

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Contents

► Introduction and "around the table"
► Practical matters
► The program in the big picture
► The program in details
► Contacts and resources
► Appendix
► Buddy setup
Contents

► Introduction
► Practical matters
► The program in the big picture
► The program in details
► Contacts and resources
► Appendix
► Buddy setup
Practical matters

- KU (or UCPH):
  - Student ID card (idkort.ku.dk/english)
  - Login to web portals (3 letters, 3 numbers)

- DTU:
  - Student ID card
  - Login to web portals
  - Sign up for courses (be aware of re-exam)

- Help:
  - DTU:
    - Study Information (AUS)
    - Nina Kjærgaard (if not appropriate for AUS)
  - KU:
    - Study secretary Christine Gulstad (mariegu@sund.ku.dk)
Contents

► Introduction
► Practical matters
► The program in the big picture
► The program in details
► Contacts and resources
► Appendix
► Buddy setup
Your study plan

Bachelor's program

Master's program
Your study plan

Bachelor's program

Master's program

Ph.D. program
Your study plan

Follow the signs

Choose your way

Specialize!
Master's program

- General Competence Courses (Mandatory courses)
  - 30 ECTS

- Elective courses
  - ≤ 30 ECTS

- Technological Specialization Courses
  - ≥ 30 ECTS

- Master's thesis
  - ≥ 30 ECTS

2 years equal to 120 ECTS
Master's program

Pathophysiology
Statistics & design + pool
Product development

30 ECTS

Medical Imaging & Radiation Physics
- 02632 Topics in Medical Physics
- 10656 Introduction to Inverse Problems
- 10812 Radiation dosimetry

Ionizing:
- 26265 App of X-ray & neutron scattering

Non-ionizing:
- 02505 Medical image analysis
- 34550 Bio-optics

Medical signal processing
- 21316 Auditory signal proc & perception
- 21356 Non-signal proc with biomed apps

Bioinstrumentation
- 31598 Preparatory course for EWH, Summer Institute

Biomodelling
- 02505 Advanced physiological modeling

Cellular signalling
- 31679 Tissue & microfluidic DTU

Biological systems
- 26126 The chemistry of metals in biological systems

Optics
- 26305 Introduction to Biophotonics
- 34430 Introduction to Biophysics
- 10347 Introduction to Biophysics

Micro and Nanotechnology
- 31610 Applied Signal Processing
- 31232 Technical audiology & experimental hearing

Instrumentation
- 21356 Field work with EWH, Summer Institute

≥ 30 ECTS

≥ 30 ECTS

≤ 30 ECTS

≥ 30 ECTS

2 years equal to 120 ECTS
Contents

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- Practical matters
- The program in the big picture
- The program in details
- Contacts and resources
- Appendix
- Buddy setup
This particular program

Based on *Studiefremdriftsreformen*, the program meets these 3 requirements:

- Start in September or February
- One semester at a foreign university (optional)
- Conduct master thesis during last term
- Program completion in two years
Structure of program

Start in September

Start in February

15/31
Structure of program

Start in September

Start in February

E Fall (Efterår)
F Spring (forår)
Structure of program

Start in September

- 13 week period
- Possible location of pre-project
- MSc Thesis

Start in February

- 3 week period

E
- Fall (Efterår)
F
- Spring (forår)
Structure of program

Details:
- () means alternative placement
- Not all combinations are shown
- "~" indicates a course similar to

**Start in September**
- ku101
- ~02411
- 31590

**Start in February**
- ku101
- 31590
- 02411

- ku101
- 31590
- (02411)

- ~02411
- ku101
- 31590
- (02411)

- 02411
- ku101
- 31590
- (~02411)

**Fall (Efterår)**
- E

**Spring (forår)**
- F

**Mandatory**
- GR

**Technological specialization**
- TS

**Elective**
- VF

13 week period

3 week period

Possible location of pre-project

MSc Thesis

Stay abroad
**Structure of program**

**Start in September**

- **ku101**
  - TS, TS, TS
  - VF

- ~02411
  - TS, TS, TS
  - VF

- 31590
  - TS
  - VF

**Start in February**

- **ku101**
  - 31590
  - TS, TS, TS

- 02411
  - TS, TS, TS

- (02411)
  - TS, TS
  - VF

**Details:**
- () means alternative placement
- Not all combinations are shown
- "~" indicates a course similar to

**Fall (Efterår)**
- Mandatory
- Technological specialization
- Elective

**Spring (forår)**
- 13 week period
- 3 week period
- Possible location of pre-project
- MSc Thesis
- Stay abroad
Please consider these points

- Concerning the mandatory courses:
  - The courses in the statistical pool should be no problem
  - At a foreign university:
    - It is hard to find equivalents to ku101 og 31590
    - If you do, you cannot be 100% sure to take it
    - 02411 Statistical Design & Analysis of Expm ought to be taught

- If you have a schedule with only one fall term:
  - In fall: stay at DTU/KU
  - In spring: Consider a special course (pre project)
Technological Specialization Courses

Please see schedule at:

- bme.elektro.dtu.dk/jw/medtek

Strategy:

- Check to see if you have the prerequisites
- Study what you cannot easily learn later
- Be careful in selection. Limited re-selection
- You will be hired based on your skills within BME, not e.g., project management
Master's thesis

- A head of time
  - Prepare much in advance
  - Project day at Panum (10 October 2017, 13:00 - 17:00)
  - Consider special course prior to thesis work

- The project
  - Typically made in collaboration with
    - Biomedical engineering company
    - Hospital department
    - Other university departments
  - Main advisor from
    - DTU
    - KU
You can show me your plan

You can always ask me to look and comment on your study plan:

- Make a clear and concise plan
- If submit via mail, just one pdf file, please
- Provide full name and study ID
- Use your Student mail, not private mail
Contents

► Introduction
► Practical matters
► The program in the big picture
► The program in details
► Contacts and resources
► Appendix
► Buddy setup
Contact persons and resources

DTU:
- Head of graduate studies Jens E. Wilhjelm (jw@elektro.dtu.dk)
- Senior Project Officer Nina Kjærgaard (ninak@elektro.dtu.dk)
- Head int. of recruitment Sadasivan Puthusserypady <spu@elektro.dtu.dk>

KU:
- Vice head of studies Tine Alkjær (talkjaer@sund.ku.dk)
- Study secretary Christine Gulstad (mariegu@sund.ku.dk)

Homepage (English):
- dtu.dk/bme

Homepages (Danish):
- DTU: dtu.dk/bmei
- KU: studier.ku.dk/kandidat/medicin-og-teknologi/

Resource page:
- bme.elektro.dtu.dk/jw/medtek (Guide, schedules, this presentation, etc)

Network groups:
- www.facebook.com/biomedicalengineering.dtu
- www.linkedin.com/groups?mostRecent=&gid=3685096&trk=my_groups-tile-flipgrp
Need, nice & good to know

Need to know, need to see:
- Campusnet at DTU and email
- KUnet at KU (UCPH) and email

Nice to know:
- www.facebook.com/biomedicalengineering.dtu

Upon graduation:
- www.linkedin.com/groups?mostRecent=&gid=3685096&trk=my_groups-tile-flipgrp
How to contact?

When sending mails:

- Must be your DTU mail to receive an answer
- Provide both your registered name and study ID:
  Not:  
  s007007@student.dtu.dk or abcd@gmail.com, etc
  but:
  Anders And s007007@student.dtu.dk
- Always supply your full name and study ID in the mail body
- If attaching files, use only pdf files (and normally only one)
Contents

► Introduction
► Practical matters
► The program in the big picture
► The program in details
► Contacts and resources
► Appendix
► Buddy setup
Appendix

KU and DTU schemes are not identical. Example:

- Exam in ku101 is located the first workday in January (during the three week period of DTU).
Contents

► Introduction
► Practical matters
► The program in the big picture
► The program in details
► Contacts and resources
► Appendix
► Buddy setup