MASTER’S DEGREE PROGRAM
IT PRODUCT DEVELOPMENT
MASTER’S DEGREE PROGRAM

- Structure of the Master’s Degree Program
- Study abroad
- Admission
- Practical information

Slides: www.cs.au.dk/studieorientering
MASTER’S DEGREE PROGRAM

- Structure of the Master’s Degree Program
  - Box diagram
  - Specializations
  - Elective courses
- Study abroad
- Admission
- Practical information
# IT PRODUCT DEVELOPMENT MASTER’S

<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st sem (Fall)</td>
<td>Elective (10 ECTS)</td>
</tr>
<tr>
<td>2nd Sem (Spring)</td>
<td>UBI 2a (5 ECTS)</td>
</tr>
<tr>
<td>3rd Sem (Fall)</td>
<td>Study abroad / elective courses (30 ECTS)</td>
</tr>
<tr>
<td>4th Sem (Spring)</td>
<td>Thesis (30 ECTS)</td>
</tr>
</tbody>
</table>

- Program must include all courses
- Program must include at least one of HCI 1, HCI 3, UBI 3

## Socio-Technical Design
- Design 1
- Design 2a
- Design 3

## HCI
- HCI 1
- HCI 2
- HCI 3

## Ubiquitous computing and Interaction
- UBI 1
- UBI 2a
- UBI 2b
- UBI 3

Shared with CS
HUMAN-COMPUTER INTERACTION

| 1st Sem (Fall) | Interactivity and Computer Mediation – Concepts, Theories, Methods, Cases (10 ECTS) | OB |
| 2nd Sem (Spring) | Designing Interactive Technologies (10 ECTS) | SB |
| 3rd Sem (Fall) | Multimodal Interaction (10 ECTS) | EH |

- Semesters are independent – can be taken in any order

Collaboration and Human-Computer Interaction

- Clemens Nylandsted Klokmose
- Eve Hoggan
- Henrik Korsgaard
- Olav Bertelsen
- Susanne Bødker
SOCIO-TECHNICAL DESIGN

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Credits</th>
<th>Instructor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st sem (Fall)</td>
<td>Social and Aesthetic Interaction Design (10 ECTS)</td>
<td>PGK</td>
<td>Majken Kirkegård Rasmussen, Minna Pakanen, Peter Gall Krogh</td>
</tr>
<tr>
<td>2nd Sem (Spring)</td>
<td>Designing Wearables (5 ECTS)</td>
<td>MP</td>
<td></td>
</tr>
<tr>
<td>3rd Sem (Fall)</td>
<td>Sustainable Design and Production (10 ECTS)</td>
<td>DR</td>
<td></td>
</tr>
</tbody>
</table>

- First 15 ECTS are mandatory courses in IT Product Development Master’s Program
- Semesters are independent – can be taken in any order

Socio-Technical Design
- Majken Kirkegård Rasmussen
- Minna Pakanen
- Peter Gall Krogh

Lifecycle Design and Manufacturing
- Devarajan Ramanujan
# Ubiquitous Computing and Interaction

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>ECTS</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st sem (Fall)</td>
<td>Building the Internet of Things with P2P and Cloud Computing (10 ECTS)</td>
<td>10</td>
<td>NOB</td>
</tr>
<tr>
<td>2nd Sem (Spring)</td>
<td>Augmented Reality (5 ECTS)</td>
<td>5</td>
<td>KP</td>
</tr>
<tr>
<td></td>
<td>Advanced Augmented Reality Project (5 ECTS)</td>
<td>5</td>
<td>KP</td>
</tr>
<tr>
<td>3rd Sem (Fall)</td>
<td>Data Visualization (10 ECTS) OR Deep Learning for Visual Recognition (10 ECTS)</td>
<td>10</td>
<td>H-JS</td>
</tr>
</tbody>
</table>

- First 15 ECTS are mandatory courses in IT Product Development Master’s Program
- Semesters are independent – can be taken in any order

**Ubiquitous Computing and Interaction**

- Hans-Jörg Schultz
- Kaj Grønbæk
- Ken Pfeuffer
- Marianne Graves Petersen
- Niels Olof Bouvin
ELECTIVE COURSES (FALL)

In addition to earlier mentioned specialization courses

• Bachelor level courses
• Project Work in IT Product Development (5 or 10 ECTS)
• Erhvervsprojekt / Vocational Training Project at the Department of Computer Science (10 ECTS)
  • Collaboration with a company
  • https://studerende.au.dk/en/studies/subject-portals/computer-science/project-collaboration/
  • https://studerende.au.dk/studier/fagportaler/datalogi/projektsamarbejde/cs-project-bank/

Courses at other departments:

• Arts
  • Data and Digital Culture (10 ECTS)
  • Design som kritisk praksis (10 ECTS)

If you fail an exam in an elective course, then that course has become mandatory! If you have made an erroneous choice of an elective course please contact us for guidance immediately!

Bemærk at Arts-kurser stiller krav til skriftlig analyse, litteraturinddragelse og præsentation i en Arts-tradition – se de enkelte kursusbeskrivelser
MASTER’S DEGREE PROGRAM

- Structure of the Master’s Degree Program
- Study abroad
  - Study abroad semester (30 ECTS)
- Admission
- Practical information
## MASTER’S DEGREE PROGRAM & STUDY ABROAD

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course 1 (10 ECTS)</th>
<th>Course 2 (10 ECTS)</th>
<th>Course 3 (10 ECTS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st sem (Fall)</td>
<td>Elective</td>
<td>UBI 1</td>
<td>Design 1</td>
</tr>
<tr>
<td>2nd Sem (Spring)</td>
<td>UBI 2a</td>
<td>Design 2a</td>
<td>Innovation Project (20 ECTS)</td>
</tr>
<tr>
<td>3rd Sem (Fall)</td>
<td>Study abroad (30 ECTS)</td>
<td></td>
<td></td>
</tr>
<tr>
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<td></td>
<td>Thesis (30 ECTS)</td>
<td></td>
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</tbody>
</table>

MSc program with study abroad semester

- If your elective course in the 1st semester is from the HCI or UBI specializations, then there is no requirements on your study abroad courses.
- Otherwise, you have to take an HCI or UBI course when abroad. It need not be a course that is identical to an AU course. It suffices with a course within the area of HCI or UBI.
MASTER’S DEGREE PROGRAM

- Structure of the Master’s Degree Program
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ADMISSION

• When bachelor completed
• You apply for admission into Master’s Program
  • Deadline 1 March
• ... or apply for admission into PhD studies
• Admission
  • You must actively apply for admission
  • You must actively apply for SU
  • Making a study program (contract) does not suffice
• https://kandidat.au.dk/optagelse/ansoegning/
TEMPORARY ADMISSION

- If you lack X<30 ECTS in your bachelor, you may for a 6 months period take 30-X ECTS courses to be part of your future Master’s Program
- No temporary admission if you still lack a mandatory course and you have failed it twice!
- Never delay (re)examination in a mandatory course!
- This might have SU-related consequences!
PHD STUDIES?

Apply for PhD studies!

• [https://phd.nat.au.dk/programmes/computer-science/](https://phd.nat.au.dk/programmes/computer-science/)
• You receive a salary while studying!
• Apply for PhD studies directly following your Bachelor’s degree, during your Master’s studies or following your Master’s degree.
• For deadlines see [https://phd.nat.au.dk/for-applicants/](https://phd.nat.au.dk/for-applicants/)
• Contact Anders Møller for info [http://pure.au.dk/portal/en/amoeller@cs.au.dk](http://pure.au.dk/portal/en/amoeller@cs.au.dk)

![Diagram showing the duration of BSc, MSc, and PhD in Computer Science](image.png)
MASTER’S DEGREE PROGRAM

- Structure of the Master’s Degree Program
- Study abroad
- Admission
- Practical information
  - Contracts
  - Signing up for courses
  - "Fremdriftsreform"
  - Student Guidance
CONTRACTS

- http://kontrakt.nattech.au.dk/

Study Contract:
- Complete before signing up for first course in Master’s Program
  - Also in case of temporary admission
  - You may only sign up for courses mentioned in your contract
- Revise at semiannual interviews in April and October
  - You will receive an email invitation
  - You will have a friendly chat with Søren and Gudmund

Project Work Contract:
- In addition to signing up for a project work / vocational training project (erhvervsprojekt) you must also make a contract

Thesis Contract:
- Fill out at start of thesis work
SIGNING UP FOR COURSES

Sign up:

- Mid January – Mid March for courses in the Summer
- May 1-5 for courses in the Fall
- November 1-5 for courses in the Spring
- Advance approval of credit transfer is needed for courses from outside Nat-Tech,
- Apply well in advance!
- Advance approval of credit transfer is no guarantee that you will be admitted to the course!

Schedule for elective courses:

- watch out for collisions!
FREMDRIFTSREFORM ("STUDY PROGRESS REFORM")

- If you follow the recommended program of study (30 ECTS per semester), take courses in the correct order (the Box Diagrams) and pass all courses at the ordinary exam or at the first scheduled re-exam then you need not worry about the study progress reform.

- If you fall behind or do not pass a course at the latest by the first reexamination then contact us for advice and guidance on your individual study program.

- If you ignore this advice and believe that “it will be fine”, it may have serious consequences!

- If you do not complete your master’s program within six months after the prescribed time you are automatically signed out of the study program / out of the university https://studerende.au.dk/en/studies/subject-portals/computer-science/student-counselling/maximum-duration-of-study/.

- If you fail an exam in an elective course, then that course has become mandatory! If you have made an erroneous choice of an elective course, please contact us for guidance immediately!
STUDENT COUNSELOR

The student counselor may help you

• Nikolaj Beck Mikkelsen

• [https://studerende.au.dk/studier/fagportaler/datalogi/studievejl/kontakt-studievejledning/](https://studerende.au.dk/studier/fagportaler/datalogi/studievejl/kontakt-studievejledning/)

• Possible topics:
  • Change of study program, delay, leave of absence, withdrawal.
  • Illness.
  • Study regulations, selecting supplementary subjects.
YOU CAN HAVE INFLUENCE!

Join a committee
- Contact the chair
- You may look up current student members on the web

**Education** Committee
- [http://cs.staff.au.dk/boards-and-committees/education-committee/](http://cs.staff.au.dk/boards-and-committees/education-committee/)

**Office** Committee

**Lab** Committee
- [http://cs.staff.au.dk/boards-and-committees/lab-committee/](http://cs.staff.au.dk/boards-and-committees/lab-committee/)