

# MASTER'S DEGREE PROGRAM IT PRODUCT DEVELOPMENT

# MASTER'S DEGREE PROGRAM

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

Slides: [www.cs.au.dk/studieorientering](http://www.cs.au.dk/studieorientering)

# MASTER'S DEGREE PROGRAM

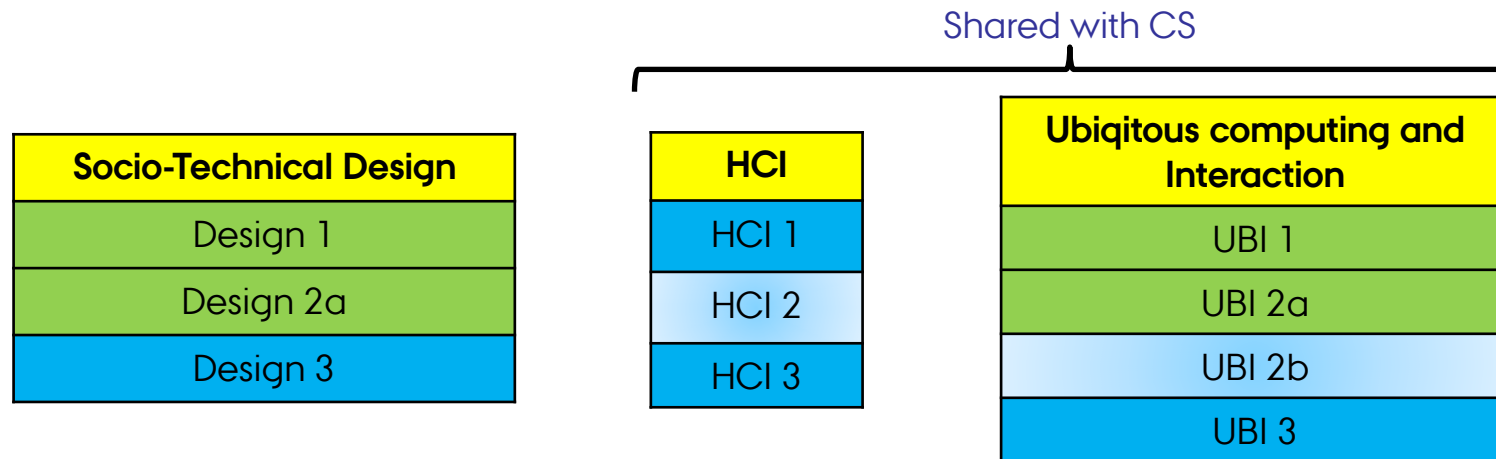
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- **Structure of the Master's Degree Program**
  - Box diagram
  - Specializations
  - Elective courses
- Study abroad
- Admission
- Practical information

# IT PRODUCT DEVELOPMENT MASTER'S

|                              |   |                 |                    |
|------------------------------|---|-----------------|--------------------|
| 1 <sup>st</sup> sem (Fall)   | Elective (10 ECTS)                        | UBI 1 (10 ECTS) | Design 1 (10 ECTS) |
| 2 <sup>nd</sup> Sem (Spring) |   | UBI 2a (5 ECTS) | Design 2a (5 ECTS) |
|                              | Innovation Project (20 ECTS)              |                 |                    |
| 3 <sup>rd</sup> Sem (Fall)   | Study abroad / elective courses (30 ECTS) |                 |                    |
| 4 <sup>th</sup> Sem (Spring) | Thesis (30 ECTS)                          |                 |                    |

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



# HUMAN-COMPUTER INTERACTION

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

- Semesters are independent – can be taken in any order

## Computer Mediated Activity

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



# SOCIO-TECHNICAL DESIGN

|                              |   |     |
|------------------------------|---|-----|
| 1 <sup>st</sup> sem (Fall)   | <a href="#">Social and Aesthetic Interaction Design (10 ECTS)</a> | PGK |
| 2 <sup>nd</sup> Sem (Spring) | <a href="#">Designing Wearables (5 ECTS)</a>                      | MP  |
| 3 <sup>rd</sup> Sem (Fall)   | <a href="#">Sustainable Design and Production (10 ECTS)</a>       | DR  |

- 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

|                              |   |      |
|------------------------------|---|------|
| 1 <sup>st</sup> sem (Fall)   | <a href="#">Building the Internet of Things with P2P and Cloud Computing (10 ECTS)</a>                            | NOB  |
| 2 <sup>nd</sup> Sem (Spring) | <a href="#">Augmented Reality (5 ECTS)</a>  | KP   |
|                              | <a href="#">Advanced Augmented Reality Project (5 ECTS)</a>   | KP   |
| 3 <sup>rd</sup> Sem (Fall)   | <a href="#">Data Visualization (10 ECTS)</a> OR<br><a href="#">Deep Learning for Visual Recognition (10 ECTS)</a> | H-JS |

- 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 Grønbaek
- Ken Pfeuffer
- Marianne Graves Petersen
- Niels Olof Bouvin



# ELECTIVE COURSES (FALL)

In addition to earlier mentioned specialization courses

- Bachelor level courses
- Systems Security (10 ECTS)
- [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 \(10 ECTS\)](#)
  - (Summer:) [Game.Play.Design \(10 ECTS\)](#)

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!



# MASTER'S DEGREE PROGRAM

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- Structure of the Master's Degree Program
- **Study abroad**
  - **Study abroad semester (30 ECTS)**
  - **Study abroad summerschool (5-10 ECTS)**
- Admission
- Practical information

# STUDY ABROAD (30 ECTS SEMESTER)

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General information (destinations, deadlines, procedures, etc)

- <http://studerende.au.dk/studier/fagportaler/datalogi/udlandsophold/>

Study Abroad Event 27 October 2021:

<https://studerende.au.dk/studier/fagportaler/datalogi/udlandsophold/events/nat-tech-study-abroad-events/>

Application Deadline: 1 December 2021

Selected destination:

- TuE (Eindhoven, Netherlands) has a semester from their Industrial Design Master's program that fits nicely into an AU IT Product Development program: [link](#)
- Contact: Søren Poulsen

# STUDY ABROAD (30 ECTS SEMESTER)

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## Credit transfer /course selection

- <https://studerende.au.dk/studier/fagportaler/datalogi/udlandsophold/saadan-soeger-du/>
  - Select potential universities based on course offerings.
  - Apply for exchange through MoveON
- <https://studerende.au.dk/studier/fagportaler/datalogi/udlandsophold/saadan-soeger-du/valg-af-kurser-og-forhaandsgodkendelse/>
  - When you have been admitted for exchange at specific university you need **advance approval of courses**.
  - If foreign university allows less than 30 ECTS then top up with summer courses or project work.
  - Update Master's contract /book an interview.
  - Contact Gudmund/Søren

## Other aspects?

- Contact Ann-Kirstine Faurholdt Kristiansen, Nat-Tech international coordinator, <http://studerende.au.dk/studier/fagportaler/datalogi/udlandsophold/kontakt/>

# STUDY ABROAD (SUMMER SCHOOL)

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General information (destinations, deadlines, procedures, etc)

- <https://studerende.au.dk/studier/fagportaler/datalogi/udlandsophold/andre-udrejsemuligheder/gratis-sommerskoler-i-udlandet/>

# MASTER'S DEGREE PROGRAM

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- **Admission**
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# ADMISSION

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- 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

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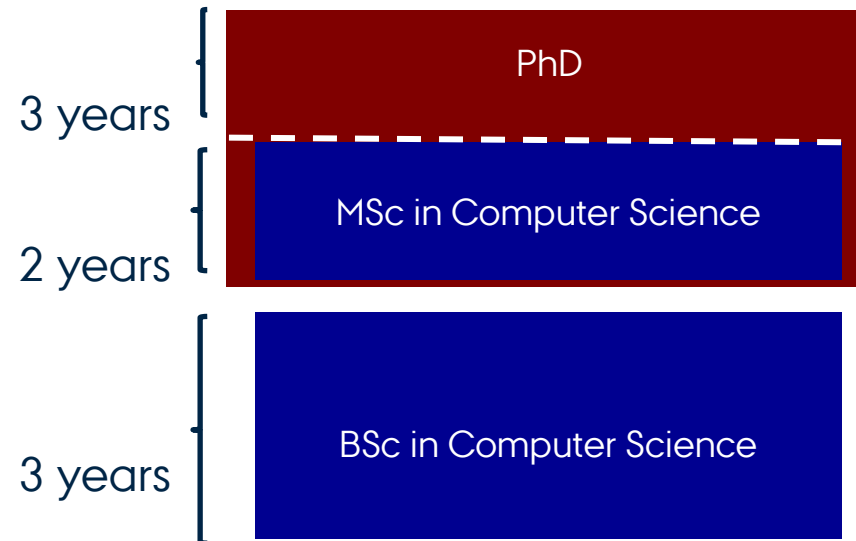
- If you lack  $X < 30$  ECTS in your bachelor, you may for a 6 months period take  $30 - X$  ECTS courses to be part of your future Master's Program
- No temporary admission if you still lack a mandatory course and you have failed it twice!
- Never delay (re)examination in a mandatory course!
- This might have SU-related consequences!
- <http://studerende.au.dk/studier/fagportaler/datalogi/studievejledning/midlertidig-indskrivning-paa-kandidatstudiet/>

# PHD STUDIES?

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Apply for PhD studies!

- <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 you Master's studies or following your Master's degree.
- For deadlines see <https://phd.nat.au.dk/for-applicants/>
- Contact Anders Møller for info <http://pure.au.dk/portal/en/amoeller@cs.au.dk>





# MASTER'S DEGREE PROGRAM

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



# CONTRACTS

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- <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
  - <http://www.cs.au.dk/~gudmund/interview.html>
  - 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

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## Sign up:

- January 15 – April 1 for courses in Summer
- May 1-5 for courses in (Summer &) Fall
- November 1-5 for courses in the Spring
- Advance approval of credit transfer is needed for courses from outside Nat-Tech,
  - Outside AU: see <http://studerende.au.dk/en/studies/subject-portals/computer-science/student-counselling/credit-transfer/>
  - Outside Nat-Tech, but inside AU: see <http://studerende.au.dk/en/studies/subject-portals/computer-science/student-counselling/enrolment-in-a-credit-module/>
  - 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")

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- 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

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The student counselor may help you

- Nikolaj Beck Mikkelsen



- <http://studerende.au.dk/studier/fagportaler/datalogi/studievejledning/kontakt-studievejledningen/>
- Possible topics:
  - Change of study program, delay, leave of absence, withdrawel.
  - Illness.
  - Study regulations, selecting supplementary subjects.

# YOU CAN HAVE INFLUENCE!

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Join a committee

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

## Education Committee

- Chair: Marianne Graves Petersen, [mgraves@cs.au.dk](mailto:mgraves@cs.au.dk)
- <http://cs.staff.au.dk/boards-and-committees/education-committee/>

## Office Committee

- Chair: Na Ree Sabina Pagaard Sørensen, [nrs@cs.au.dk](mailto:nrs@cs.au.dk)
- <http://cs.staff.au.dk/boards-and-committees/office-committee/>

## Lab Committee

- Chair: Søren Poulsen, [poulsen@cs.au.dk](mailto:poulsen@cs.au.dk)
- <http://cs.staff.au.dk/boards-and-committees/lab-committee/>



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