

**It-vest**



**AALBORG UNIVERSITY**  
DENMARK

**høc**

# iDA: IT-Design and Application Development

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It's an education designed from the Human-Centered Computing Group and the Computer Science Department, specifically for people with **non-IT background**

More details about iDA here: <https://www.aau.dk/uddannelser/kandidat/it-design-applikationsudvikling/>

Anyone with an interest in learning more about IT  
with a Bachelor from Humanities and Social Sciences

biology, art, anthropology, history, physics, sociology, culture,  
language, economics, philosophy, communication, media, etc.

In fact, anyone with a **non-IT background** is given a  
priority

### ▶ Computational Thinking

- ▶ *You will learn to think how a problem can be solved by computers without the need for a mathematical/computer science background.*

### ▶ Programming

- ▶ *You will learn how to program in a variety of programming languages depending on the problem at hand*

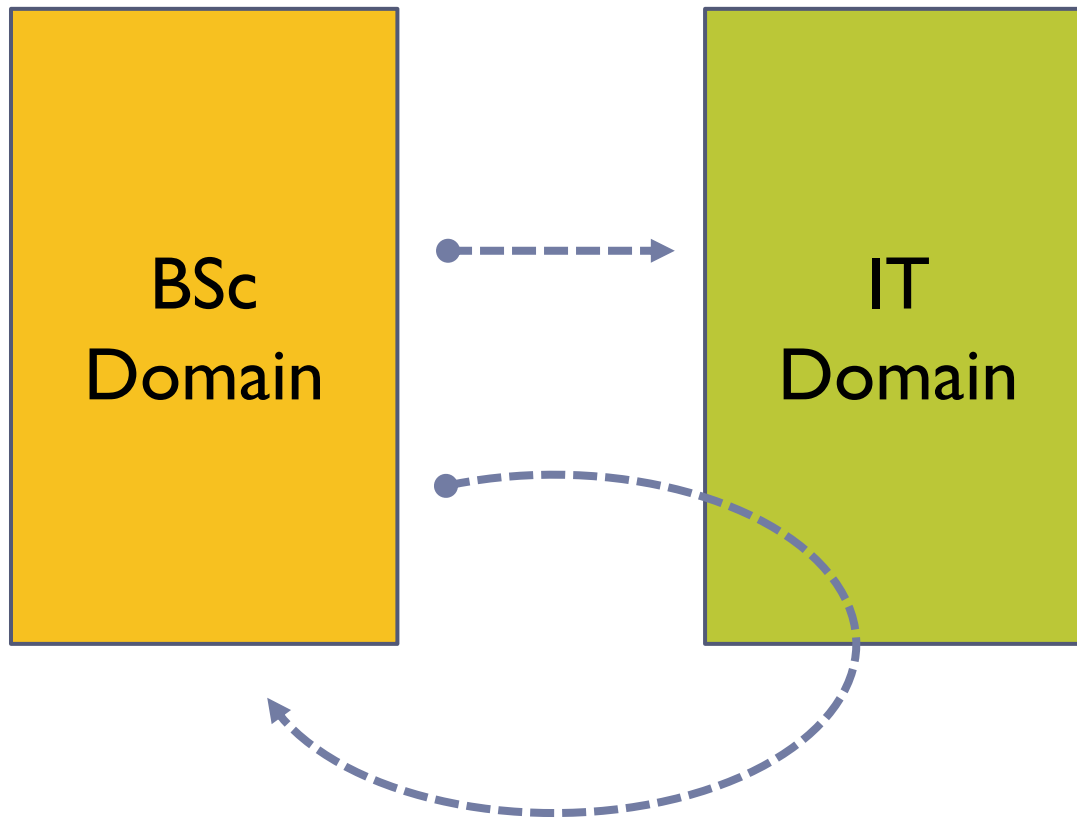
### ▶ Systems Thinking and Digitalization

- ▶ *You will learn how to understand complex digitalization processes in companies that involve IT systems. How to design for them, how to realize their impact on people, how to critically reflect on the role of technology*

### ▶ To migrate the knowledge you already have into the IT domain

- ▶ *You will learn how to combine methods, tools and techniques from your existing Bachelor with new ones, to solve complex IT problems.*

- ▶ Because you want to use the **theoretical** knowledge you got from your BSc and do something **practical**
- ▶ Because you want to move from **analyzing** stuff to **building** stuff
- ▶ Because you want to try out something **new** that many people perceive as difficult (and it's not)
- ▶ Because you believe that is time for a **change** (and change can be good) and new **challenges**.
- ▶ Because you want a **Cand.IT.** (Master of Science)



iDA is not an education that is only about programming. And is not an education where you will only learn how to develop applications.

iDA is about understanding how to holistically design/evaluate/critically reflect on technologies within the context of complex systems.

iDa is an education that you will be pushed outside your comfort zone in order to learn, but you can and will make it :)

# iDA: The new study regulation

## 7<sup>th</sup> Semester: Computing

P0+Computational Thinking

P7: Development of Software

Information and Organization

Introduction to Programming

## 8<sup>th</sup> Semester: System

P8: Application Development

Foundational OOP

Systems Development

Design and Evaluation of UIs

More details on the study regulation here: <https://studieordninger.aau.dk/2021/29/2432>



# iDA: The new study regulation

## 9<sup>th</sup> Semester: Intervention

P9: Development or Investigation

Agile Software Engineering

Database Development

Entrepreneurship

## 10<sup>th</sup> Semester: Thesis

Thesis

Specialization Course

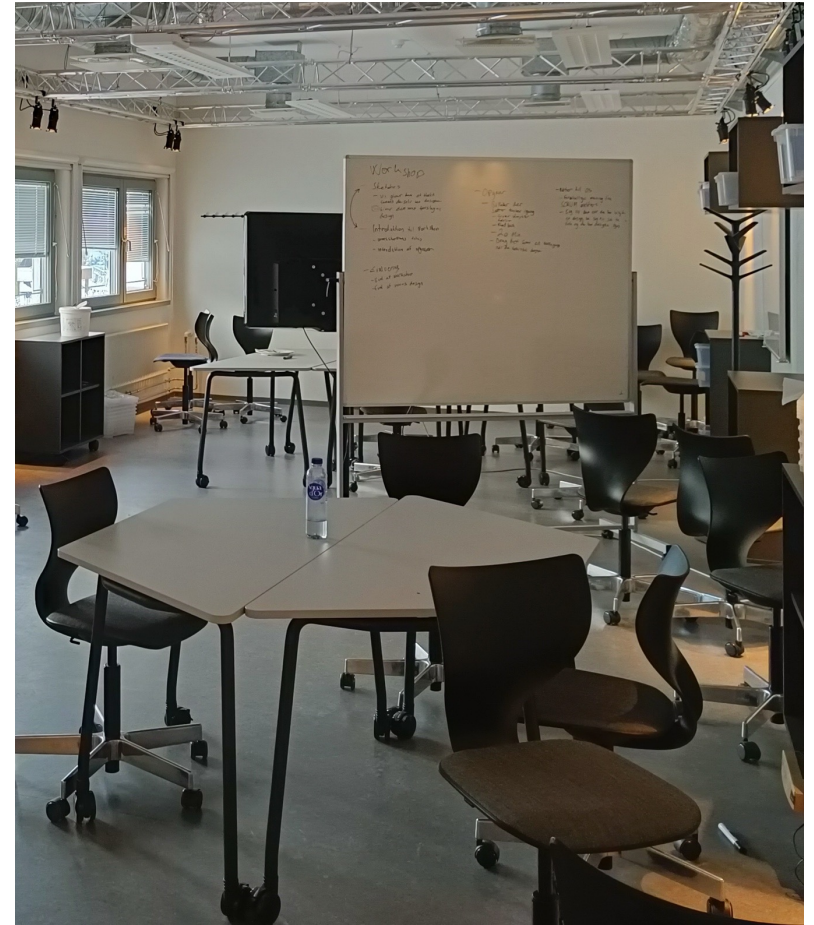
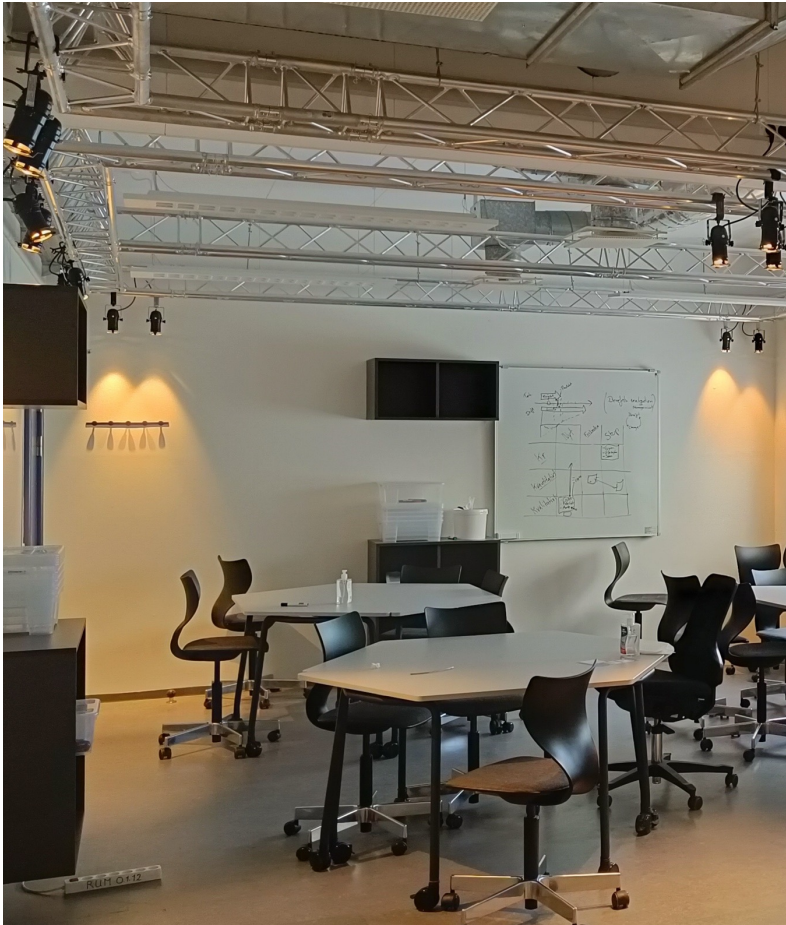
More details on the study regulation here: <https://studieordninger.aau.dk/2022/35/3103>

## An example in detail: Introduction to Programming

- ▶ The course consists of a series of flipped, online lectures, and exercises that will take place, collectively and collaboratively, in class
- ▶ We start from Scratch, and you will become familiar with basic programming concepts and tools.
- ▶ You will learn to program in building blocks, and then we move into learning C and Python.
- ▶ You will apply your knowledge to the P7 project where you will construct an interactive product.

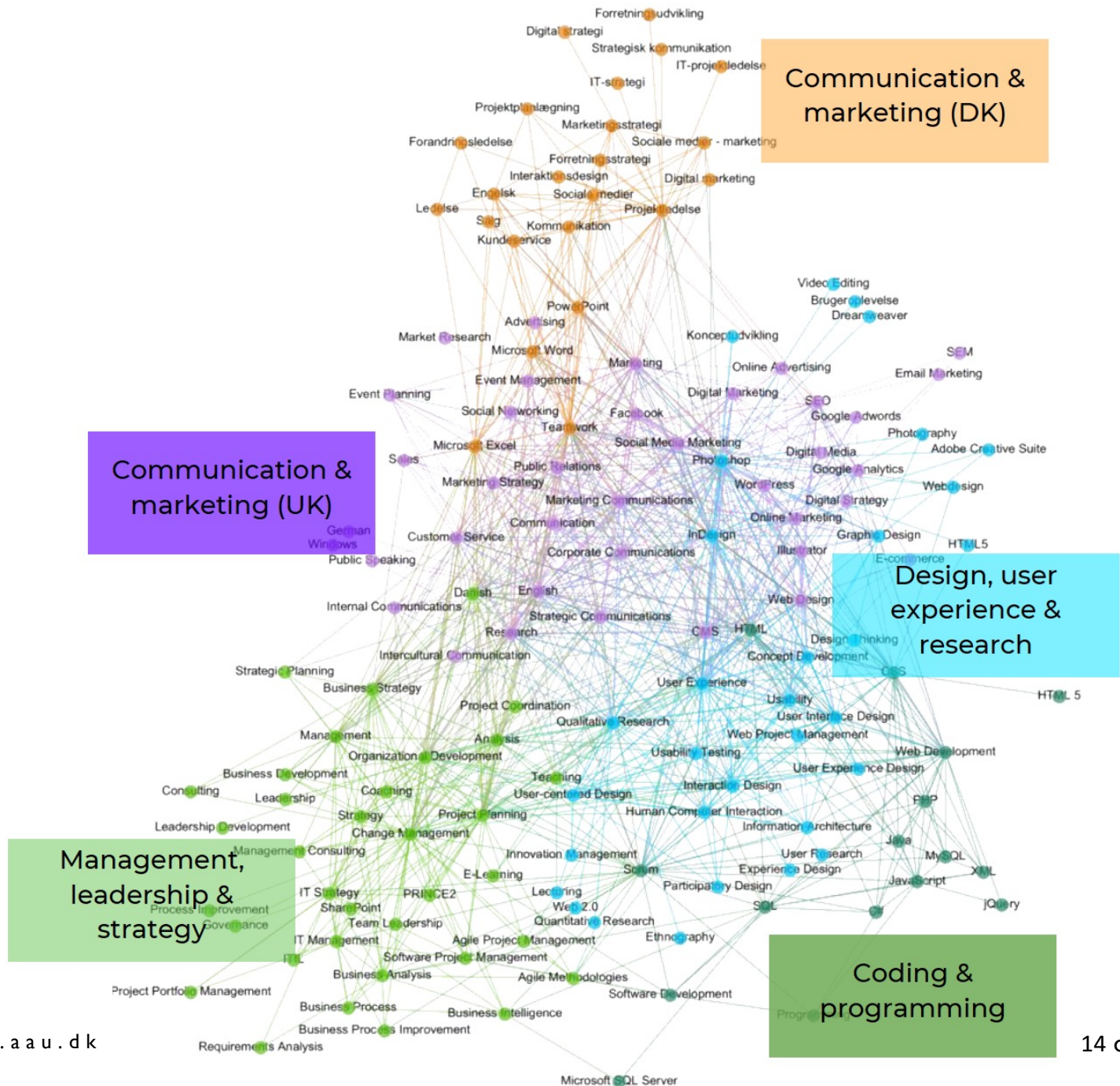
- ▶ You will join the Computer Science Department which hosts almost 20% of AAU students (Cassiopeia, Aalborg Øst)
- ▶ You will interact with students from Software, Computer Science, Interaction Design, Data Science, and more.
- ▶ You will have access to equipment (e.g. 3D Printers), and you will be able to buy necessary equipment for your learning activities (e.g. Arduino boards, sensors)
- ▶ You will learn inside your own, newly-built Design Studios
- ▶ You will experience a gender-balanced education
- ▶ You will be prepared in semesters 9 and 10 on how to enter the job market

# iDA: The Design Studios



- ▶ You will have knowledge on key topics in systems development, digitalization and human-computer interaction
- ▶ You will be able to apply this knowledge in practice and/or research
- ▶ You will be able to design applications and systems for complex areas and create new innovative solutions
- ▶ You will be able to provide a critical view on the role of technology
- ▶ You will be able to describe and analyse experiences from the development practice
- ▶ You will be able to communicate with different actors and stakeholders





- ▶ We recommend that you prepare a well-thought application, with a one-page motivation letter
- ▶ As of 2021, the iDA education has a cap of 20 students
  - ▶ We want to make sure that all students have full access to the teaching staff
  - ▶ We want to make sure that you have the best of chances to meet and collaborate with your colleagues
- ▶ Remember: candidates without an IT experience are heavily favored

# iDA Open House

## Week 7

(date will be announced soon)

Computer Science Department, Cassiopeia, Selma Lagerlöfs  
Vej 300, 9220 Aalborg Øst

Express interest here:

<https://tinyurl.com/yc5p3b54>



# Thank you!

Now, let's have a talk