

Recommended study plan

Om kurset

uddannelse

Datalogi

Anbefalet studieforløb

Find your study combination below

Remember to read the curriculum

List of courses offered in the fall 2021

- Mandatory Core Topics - Computer Science
- Research Seminar in Computer Science
- Business Intelligence and Big Data Analysis
- Theoretical Computer Science
- Project Management
- Advanced User Experience
- Designing for it-mediated communication
- Artificial Intelligence and Deep Learning

kursusgange:

Hold: 1

Computer Science and Business Studies

tidspunkt 01-01-1970 01:00 til
01-01-1970 01:00

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Indhold

First semester

- Mandatory Core Topics - Computer Science (10 ECTS)
- Elective course (Computer Science) (5 ECTS)
- Project Portfolio - Computer Science (15 ECTS)

Second semester

- Business Studies and Management & Leadership Processes (10 ECTS)
- Advanced Organisation Theory (5 ECTS)
- Project: Business Management and Leadership (15 ECTS)

Third semester

Computer Science

- 2 x Elective Courses in Computer Science (5 ECTS)
- Research Seminar in Computer Science (Datalogi) (5 ECTS)

Business Studies

One of the following two projects or project-oriented Internships:

- Project or Projectoriented internship: The Firm's Resources, Value Creation and Innovation and/or Strategic Management, Responsibility and Legitimacy (15 ECTS)
- Project or Project-oriented internship: Innovation and Innovation Management (15 ECTS)

OR one of the following two 10 ECTS courses:

- Elective course: The Firm's Resources and Value Creation (10 ECTS)
- Elective course: Innovation Management (10 ECTS)

AND one of the following two 5 ECTS courses:

- Elective course: The Firm's External Relations (5 ECTS)
- Elective course: Advanced methodology course (5 ECTS)

An internship may only take place once during the course of the education. The internship must be approved by the Board of Studies for subject 1.

Fourth semester - thesis

Computer Science and Communication

tidspunkt 01-01-1970 01:00 til
01-01-1970 01:00

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Indhold

First semester

- Mandatory Core Topics - Computer Science (10 ECTS)
- Elective course (Computer Science) (5 ECTS)
- Project Portfolio - Computer Science (15 ECTS)

Second semester

- Mandatory course in Strategic Communication (5 ECTS)
- 2 elective courses, each of (5 ECTS)
- Project in Communication (15 ECTS)

Third semester

Computer Science

- 2 x Elective Courses in Computer Science (5 ECTS)
- Research Seminar in Computer Science (Datalogi) (5 ECTS)

Communication Studies

- Elective course (10 ECTS)
- Elective course (5 ECTS)

The student has the opportunity to complete a specifically planned and academically relevant project-oriented internship in the 3rd semester. The aim of the internship is for the student to acquire knowledge and understanding about the company's or organisation's activities and subject area in addition to gaining insights into the latest relevant scientific literature.

The internship replaces the two Communications courses and can be undertaken if the Board of Studies approves the internship.

Fourth semester - thesis

Computer Science and Informatics

tidspunkt 01-01-1970 01:00 til
01-01-1970 01:00

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Indhold

First semester

- Mandatory Core Topics - Computer Science (10 ECTS)
- Elective course (Computer Science) (5 ECTS)
- Project Portfolio - Computer Science (15 ECTS)

Second semester

- Mandatory Core Topics - Informatics (10 ECTS)
- Elective course (Informatics) (5 ECTS)
- Project Portfolio (Informatics) (15 ECTS)

Third semester

Computer Science

- 2 x Elective Courses in Computer Science (5 ECTS)
- Research Seminar in Computer Science (Datalogi) (5 ECTS)

Informatics

- 3rd semester project in Informatics (Informatics) (15 ECTS) or
- Project-oriented Internship (Informatics) (15 ECTS)

Fourth semester - thesis

Computer Science and Molecular Biology

tidspunkt 01-01-1970 01:00 til
01-01-1970 01:00

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Indhold

First semester

- Mandatory Core Topics - Computer Science (10 ECTS)
- Elective course (Computer Science) (5 ECTS)
- Project Portfolio - Computer Science (15 ECTS)

Second semester

Starting in the Autumn:

- 2 Optional courses 5 ECTS each (total of 10 ECTS). Choose from: Theoretical Theme Course in Molecular Biology (5 ECTS), Experimental Theme Course in Molecular Biology (5 ECTS), Seminar course in advanced Molecular Biology (5 ECTS), Methods course in advanced Molecular Biology (5 ECTS), Advanced Eukaryotic Cell Biology II - Cellular Mechanisms in Development and Cancer
- Advanced Eukaryotic Cell Biology I - Inside the Cell (5 ECTS)
- Project in Advanced Molecular Biology (15 ECTS)

Starting in the Spring:

- Course in Bioinformatics (5 ECTS)
- Course: Course in Experimental Biotechnology (5 ECTS)
- Optional course (5 ECTS): Theoretical Theme Course in Molecular Biology (5 ECTS), Experimental Theme Course in Molecular Biology (5 ECTS), Seminar course in advanced Molecular Biology (5 ECTS), Methods course in advanced Molecular Biology (5 ECTS)
- Project in Advanced Molecular Biology (15 ECTS)

Third semester

Computer Science

- 2 x Elective Courses in Computer Science (5 ECTS)
- Research Seminar in Computer Science (Datalogi) (5 ECTS)

Molecular Biology

Starting in the Autumn:

- Course: Bioinformatics (5 ECTS)
- Course: Experimental Biotechnology (5 ECTS)
- Optional course (5 ECTS): Theoretical Theme Course in Molecular Biology (5 ECTS), Experimental Theme Course in Molecular Biology (5 ECTS), Seminar course in advanced Molecular Biology (5 ECTS), Methods course in advanced Molecular Biology (5 ECTS)

Starting in the Spring:

- Advanced Eukaryotic Cell Biology I - Inside the Cell (5 ECTS)
- 2 Optional course 5 ECTS each (10 ECTS): Theoretical Theme Course in Molecular Biology (5 ECTS), Experimental Theme Course in Molecular Biology (5 ECTS), Seminar course in advanced Molecular Biology (5 ECTS), Methods course in advanced Molecular Biology (5 ECTS) or Advanced Eukaryotic Cell Biology II - Cellular Mechanisms in Development and Cancer

Fourth semester - thesis

Computer Science og Filosofi & Videnskabsteori

tidspunkt 01-01-1970 01:00 til
01-01-1970 01:00

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Indhold

1. semester

- Mandatory Core Topics - Computer Science (10 ECTS)
- Elective course (Computer Science) (5 ECTS)
- Project Portfolio - Computer Science (15 ECTS)

2. semester - Filosofi & Videnskabsteori

Uddannelseselementer

- Obligatorisk kursus: Tendenser i moderne videnskabsteori (10 ECTS)
- Valgkursus: Specialiseringskursus i filosofi (5 ECTS) (valgfrit)
- Projekt (15 ECTS)

3. semester

Uddannelseselementer

Computer Science

- 2 x Elective Courses in Computer Science (5 ECTS)
- Research Seminar in Computer Science (Datalogi) (5 ECTS)

Filosofi & Videnskabsteori

- Projekt: Tematisk projektantologi (15 ECTS) eller Projektorienteret praktikforløb (Filosofi og videnskabsteori) (15 ECTS)

4. semester - specialet

Computer Science og Geografi

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Indhold

1. semester

- Mandatory Core Topics - Computer Science (10 ECTS)
- Elective course (Computer Science) (5 ECTS)
- Project Portfolio - Computer Science (15 ECTS)

2. semester - Geografi

Uddannelseselementer

- Geografiske Processer (5 ECTS)
- GIS Visualisering (5 ECTS)
- Kritisk urban geografi (5 ECTS) eller Kulturlandskabets geografi (5 ECTS)
- Fagprojekt i Geografi (15 ECTS) eller Projektorienteret praktikforløb (Geografi) (15 ECTS)

3. semester

Uddannelseselementer

Computer Science

- 2 x Elective Courses in Computer Science (5 ECTS)
- Research Seminar in Computer Science (Datalogi) (5 ECTS)

Geografi

- Projekt 3. semester (15 ECTS)

Eller:

- Projektorienteret praktik (15 ECTS)
- 4. semester - specialet**

Computer Science og Performance Design

tidspunkt 01-01-1970 01:00 til
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Indhold

1. semester

- Mandatory Core Topics - Computer Science (10 ECTS)
- Elective course (Computer Science) (5 ECTS)
- Project Portfolio - Computer Science (15 ECTS)

2. semester - Performance Design

Uddannelseselementer

- Kulturproduktion og æstetik (10 ECTS)
- Valgfrit emne (5 ECTS).
- Projekt (15 ECTS) eller projektorienteret praktikprojekt

3. semester

Computer Science

- 2 x Elective Courses in Computer Science (5 ECTS)
- Research Seminar in Computer Science (Datalogi) (5 ECTS)

Performance Design

- Projekt: Performance-design II (15 ECTS) eller Projektorienteret praktikforløb (Performance-design) (15 ECTS)

4. semester - specialet

Computer Science og Psykologi

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Indhold

1. semester

- Mandatory Core Topics - Computer Science (10 ECTS)
- Elective course (Computer Science) (5 ECTS)
- Project Portfolio - Computer Science (15 ECTS)

2. semester - Psykologi

Uddannelseselementer

- Projekt - Psykologien i relation til arbejde, læring, teknologi og institutioner (15 ECTS)
- Pædagogisk psykologi (5 ECTS)
- Arbejds- og organisationspsykologi (Psykologi) (5 ECTS)
- Teknologi-psykologi - studier i menneske-teknologi interaktion (5 ECTS)

3. semester

Computer Science

- 2 x Elective Courses in Computer Science (5 ECTS)
- Research Seminar in Computer Science (Datalogi) (5 ECTS)

Psykologi

- 1. semester projekt: Udvikling af teori og praksis i relation til menneskers samfundsmæssige liv (15 ECTS) eller Projektorienteret praktikforløb (15 ECTS) (Psykologi) (15 ECTS)
4. semester - specialet

Environmental Biology and Computer Science

tidspunkt 01-01-1970 01:00 til
01-01-1970 01:00

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Indhold

Below you will find a list of the programme elements of the entire study programme.

The courses that are offered depends on whether it is a spring or an autumn semester.

For the elective parts of the programme, the students can choose the study activities they wish from among the courses offered at study.ruc.dk so that they meet the requirements of having 45 ECTS in subject 1 and 45 ECTS in subject 2 before starting their master's thesis.

Programme elements

Environmental Biology

- Project in Environmental Biology (15 ECTS) or Project-oriented Internship (Environmental Biology) (15 ECTS)
- Field course: Practical Ecology - Monitoring Techniques (5 ECTS)
- Energy and Element Cycling in Ecosystems (5 ECTS)
- Sustainable Use of Biological Systems (5 ECTS) (elective)
- Biodiversity and Conservation (5 ECTS) (elective)
- Molecular Methods in Ecology (5 ECTS) (elective)
- Ecotoxicology - Theories and Application (10 ECTS) (elective)

Computer Science

- Project Portfolio - Computer Science (15 ECTS)
- Mandatory Core Topics - Computer Science (10 ECTS)
- Elective course (Computer Science) (5 ECTS)
- Project in Advanced Computer Science (15 ECTS) or Project-oriented internship (Computer Science) (15 ECTS)

Fourth semester - thesis

Filosofi & Videnskabsteori og Computer Science

tidspunkt 01-01-1970 01:00 til
01-01-1970 01:00

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Indhold

1. semester - Filosofi & Videnskabsteori

Uddannelseselementer

- Obligatorisk kursus: Tendenser i moderne videnskabsteori (10 ECTS)
- Valgkursus: Specialiseringskursus i filosofi (5 ECTS) (valgfrit)
- Projekt (15 ECTS)

2. semester

- Mandatory Core Topics - Computer Science (10 ECTS)
- Elective course (Computer Science) (5 ECTS)
- Project Portfolio - Computer Science (15 ECTS)

3. semester - Filosofi & Videnskabsteori og Computer Science

Uddannelseselementer

Filosofi & Videnskabsteori

- Obligatorisk kursus: Filosofi i verden – verden i filosofien (10 ECTS)
- Et specialiseringskursus (5 ECTS), som den studerende vælger blandt de specialiseringskurser, der udbydes i et semester.

Alternativt kan den studerende gennemføre et projektorienteret praktikforløb på Filosofi & Videnskabsteori (15 ECTS) i stedet for kurset Filosofi i verden – verden i filosofien (10 ECTS) og specialiseringskursus (5 ECTS).

Computer Science

- Project in Advanced Computer Science (15 ECTS) eller Project-oriented internship (Computer Science) (15 ECTS)

4. semester – specialet

Physics and Computer Science

tidspunkt 01-01-1970 01:00 til
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Indhold

Below you will find a list of the programme elements of the entire study programme except the master's thesis.

The courses that are offered depends on whether it is a spring or an autumn semester.

For the optional parts of the programme, students must select the study activities they want from the courses offered at study.ruc.dk, so that they meet the requirement of participating, in addition to the master's thesis, in 45 ECTS for Subject 1 and in 45 ECTS for Subject 2.

Programme elements

Physics

- Project in Physics (15 ECTS)
- Quantum Mechanics (10 ECTS) – OBS! Students who have passed Quantum Mechanics (10 ECTS) at their Bachelor-education have to sign up for Advanced Physics A (10 ECTS)
- Physical Techniques (5 ECTS) or Theme Course in Physics (5 ECTS)
- Advanced Physics (5 ECTS)
- Problem Solving in Physics II (10 ECTS)

Computer Science

- Project Portfolio - Computer Science (15 ECTS)
- Mandatory Core Topics - Computer Science (10 ECTS)
- Project in Advanced Computer Science (15 ECTS) or Project-oriented internship (Computer Science) (15 ECTS)
- Elective course (Computer Science) (5 ECTS)

Fourth semester - thesis

Politik og Computer Science

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Indhold

1. semester – Politik

Uddannelseselementer

- Policyområder i et moderne demokrati (10 ECTS)

- Metodekursus i Offentlig økonomi: teori og metode eller de studerende vælger blandt de kurser, som udbydes af Studienævnet i det aktuelle semester (5 ECTS).
- Problemorienteret formidlingsprojekt (15 ECTS)

2. semester

- Mandatory Core Topics - Computer Science (10 ECTS)
- Elective course (Computer Science) (5 ECTS)
- Project Portfolio - Computer Science (15 ECTS)

3. semester

Uddannelseselementer

Politik

- Valgkursus: Specialiseringskursus (10 ECTS). Den studerende vælger blandt de specialiseringskurser, som udbydes på Politik i det aktuelle semester. Kurserne udbydes i inden for rammerne af fire temaer:
 1. Politik, styring og demokrati
 2. Organisation og ledelse
 3. Europæisering og globalisering
 4. Social og samfundsmæssig analyse
- Valgkursus: Videregående metodekursus (5 ECTS). Den studerende vælger blandt de danske metodekurser, som udbydes til Politik i det aktuelle semester.

Aktiviteterne på 3. semester kan, efter ansøgning i studienævnet, erstattes af et projektorienteret praktikforløb på Politik (15 ECTS). Praktik kan kun forekomme én gang i løbet af uddannelsen.

Computer Science

- Project in Advanced Computer Science (15 ECTS) eller Project-oriented internship (Computer Science) (15 ECTS)

4. semester - specialet