Physics and Scientific Modelling – Master level

Semester package for study activities

The Department of Science and Environment welcomes exchange students to join our International Study Programme in Natural Sciences

Semesters at Roskilde University

- A semester at Roskilde University is always 30 ECTS – a course package is equivalent to 30 ETCS
- All students must normally complete a project of 15 ECTS and course activities of 15 ECTS

Choose a semester package

If you choose a package you will benefit from:

- No overlap in lectures and exams
- Your activities will most likely be with the same group of fellow students
- Project and courses within each package work together in order to give you more than each activity gives on its own

Flexibility

If you need to mix study activity across fields of study/packages, it is possible, however:

- You are liable to check for overlap in lectures and exams (dates available in December)
- You have to choose 1 project and at least 1 course from the same field of study

Notice

Please note that study activity offer is confirmed but course information is being updated and can change until it opens by 01 December for RUC students to choose for the spring semester.

Group formation

A project is always group work ongoing throughout the semester. The project starts with a group formation process in the beginning of the semester. The group formation process is facilitated by academic staff in order to find a specific topic and group members within the field of study. It is not possible to do a project alone or to do a semester without a project if there is a project is within the semester package.

Exam period

Project exams are oral group exams held in the project exam period (always the last 2 weeks of the semester).

Spring semester – (01 February - 30 June 2025):

Field of Study:	**Physics and Scientific Modelling, Master level – Package 1: Experimental and Computational Physics (without project)**			**ECTS:**
Activity code:	**Name of activity:**	**Link to further info:**	**Study level: MA**	**30**
60194	Course: Problem Solving in Physics I	https://study.ruc.dk/class/view/35425	Master level, semester 2	5
60197	Course: Integrated Science	https://study.ruc.dk/class/view/35422	Master level, semester 2	5
60166	Course: Probability and Statistics	https://study.ruc.dk/class/view/35403	Master level, semester 2	5
60195	Course: Differential Equations in Models	https://study.ruc.dk/class/view/35421	Master level, semester 2	5
60190	Course: Scientific Computing and Data Science	https://study.ruc.dk/class/view/35428	Master level, semester 2	10
Field of Study:	**Physics and Scientific Modelling, Master level – Package 2: Mathematical Foundation of Physics and Scientific Modelling (without project)**			**ECTS:**
Activity code:	**Name of activity:**	**Link to further info:**	**Study level: MA**	**30**
60194	Course: Problem Solving in Physics I	https://study.ruc.dk/class/view/35425	Master level, semester 2	5
60197	Course: Integrated Science	https://study.ruc.dk/class/view/35422	Master level, semester 2	5
60166	Course: Probability and Statistics	https://study.ruc.dk/class/view/35403	Master level, semester 2	5
60165	Course: Dynamical Systems Analysis	https://study.ruc.dk/class/view/35401	Master level, semester 2	5
60167	Course: Fundamental Mathematical Structures (Advanced Topics in Mathematics)	https://study.ruc.dk/class/view/35402	Master level, semester 2	10

See package 3 below

Field of Study:	Physics and Scientific Modelling, Master level – Package 3: Experimental and Computational Biophysics (without project)			ECTS:
Activity code:	**Name of activity:**	**Link to further info:**	**Study level: MA**	**30**
60194	Course: Problem Solving in Physics I	https://study.ruc.dk/class/view/35425	Master level, semester 2	5
60197	Course: Integrated Science	https://study.ruc.dk/class/view/35422	Master level, semester 2	5
60049	Course: Biophysical Chemistry	https://study.ruc.dk/class/view/35344	Master level, semester 2	5
60195	Course: Differential Equations in Models	https://study.ruc.dk/class/view/35421	Master level, semester 2	5
60190	Course: Scientific Computing and Data Science	https://study.ruc.dk/class/view/35428	Master level, semester 2	10

Course catalogue

You can find the full course catalogue, course descriptions and final schedules at the RUC course database from June: http://study.ruc.dk
(Select semester (Spring semester 2025) – Master's Programmes/Physics and Scientific Modelling)

Until 01 June study activities for the upcoming academic year will only be available via the links provided above. If you would like to browse in all RUC study activities, you will find it in our course catalogue (http://study.ruc.dk), however you will have to check autumn/spring semester the year prior for inspiration prior to June. Normally, course offers will be similar from autumn to autumn semesters – spring to spring semesters.