

Basic course 3: Theory of natural science

About the course

subject	Den internationale naturvidenskabelige bacheloruddannelse
Activity type	Basic course
Teaching language	English
Registration	Tilmelding sker via STADS-Selvbetjening indenfor annonceret tilmeldingsperiode, som du kan se på Studieadministrationens hjemmeside. Når du tilmelder dig kurset, skal du være opmærksom på, om der er sammenfald i tidspunktet for kursusafholdelse og eksamen med andre kurser, du har valgt. Uddannelsesplanlægningen tager udgangspunkt i, at det er muligt at gennemføre et anbefalet studieforløb uden overlap. Men omkring valgfrie elementer og studieplaner som går ud over de anbefalede studieforløb, kan der forekomme overlap, alt efter hvilke kurser du vælger. Registration through STADS-Selvbetjening within the announced registration period, as you can see on the Studyadministration homepage. When registering for courses, please be aware of the potential conflicts between courses or exam dates on courses. The planning of course activities at Roskilde University is based on the recommended study programs which do not overlap. However, if you choose optional courses and/or study plans that goes beyond the recommended study programs, an overlap of lectures or exam dates may occur depending on which courses you choose.
Course material and Reading list	Material that can be found at Moodle
Evaluation- and feedback forms	There will be given feedback at the assignments that are handed in during the course. An electronic evaluation will take place by the end of the course
Head of studies/ academic coordinator	Morten Blomhøj (blomhoej@ruc.dk)
Administration of exams	Nibbach Studyadministration (nibbach-studyadministration@ruc.dk)
Responsible for the activity	Martin Niss (maniss@ruc.dk) Torben Braüner (torben@ruc.dk)
ECTS	5
Learning outcomes and assessment criteria	• Knowledge of scientific-theoretical aspects in subjects within the Natural Sciences • Knowledge of philosophical, historical, didactic and ethical aspects of Natural Sciences • Skills to be able to select and draw upon relevant literature, including scientific-theoretical literature and relevant original scientific sources • Skills to be able to describe an area or an issue within the Natural Sciences, so that it becomes accessible to scientific-theoretical analysis and reflection • Skills to be able to carry out investigations of and reflections on the Natural Sciences and their roles and functions in education, research and application • The competence to be able to carry out scientific-theoretical analysis on a delimited natural scientific research question • The competence to be able to share knowledge about investigations of and reflections on scientific-theoretical aspects of subjects and issues within the Natural Sciences
Overall content	The course is designed around a number of science theory themes with associated cases. Among other things, this will include traditional philosophy of science positions such as logical positivism, Popper's falsificationism and Kuhn's theory on scientific revolutions, as well as core issues concerning scientific methods, natural history versus experimental science, the foundation of mathematics and mathematics as a modelling tool, pseudo-science, ethics, and the role of computersimulation in science.

Prerequisites for participation in the exam	Students must submit 6 group assignments during the course in groups of 2-4 students. The assignments are set and approved by the course coordinator. The assignments are handed in during the course and followed by feedback. Students who do not meet the prerequisite can resubmit the assignments. Deadline is stated at study.ruc.
Teaching and working methods	Lectures and group work with reports for the cases.
Type of activity	Mandatory course
Form of examination (p1)	Individual written invigilated exam in a topic(s) given by the lecturer. The duration of the exam is 1 hour. Permitted support and preparation materials for the exam: None. Assessment: Pass/Fail.
Form of Re-examination (p1)	Samme som ordinær eksamen
Exam code(s)	Exam code(s) : U26533

Course days:

Hold: 1

BC3 Theory of natural science (NIB)

time	31-08-2020 10:15 til 31-08-2020 12:00
location	11.1-047 - studiesal (40)
Teacher	Martin Niss (maniss@ruc.dk) Torben Braüner (torben@ruc.dk) Hans Ramløv (hr@ruc.dk)

BC3 Theory of natural science (NIB)

time	01-09-2020 10:15 til 01-09-2020 12:00
forberedelsesnorm	ikke valgt
forberedelsesnorm D-VIP	ikke valgt
location	11.1-047 - studiesal (35)
Teacher	Martin Niss (maniss@ruc.dk) Torben Braüner (torben@ruc.dk) Hans Ramløv (hr@ruc.dk)

BC3 Theory of natural science (NIB)

time 04-09-2020 10:15 til
04-09-2020 12:00

forberedelsesnorm ikke valgt

forberedelsesnorm D-VIP ikke valgt

location 11.1-047 - studiesal (35)

Teacher Martin Niss (maniss@ruc.dk)
Torben Braüner (torben@ruc.dk)
Hans Ramløv (hr@ruc.dk)

BC3 Theory of natural science (NIB)

time 11-09-2020 10:15 til
11-09-2020 12:00

location 11.2-047 - gl. natfagsal (65)

Teacher Hans Ramløv (hr@ruc.dk)
Martin Niss (maniss@ruc.dk)
Torben Braüner (torben@ruc.dk)

BC3 Theory of natural science (NIB)

time 18-09-2020 10:15 til
18-09-2020 12:00

location 11.2-047 - gl. natfagsal (65)

Teacher Hans Ramløv (hr@ruc.dk)
Martin Niss (maniss@ruc.dk)
Torben Braüner (torben@ruc.dk)

BC3 Theory of natural science (NIB)

time 25-09-2020 10:15 til
25-09-2020 12:00

location 11.2-047 - gl. natfagsal (65)

Teacher Hans Ramløv (hr@ruc.dk)
Martin Niss (maniss@ruc.dk)
Torben Braüner (torben@ruc.dk)

BC3 Theory of natural science (NIB)

time 02-10-2020 10:15 til
02-10-2020 12:00

forberedelsesnorm ikke valgt

forberedelsesnorm D-VIP ikke valgt

location 11.2-047 - gl. natfagsal (50)

Teacher Martin Niss (maniss@ruc.dk)
Torben Braüner (torben@ruc.dk)
Hans Ramløv (hr@ruc.dk)

BC3 Theory of natural science (NIB)

time 09-10-2020 10:15 til
09-10-2020 12:00

location 11.2-047 - gl. natfagsal (65)

Teacher Hans Ramløv (hr@ruc.dk)
Martin Niss (maniss@ruc.dk)
Torben Braüner (torben@ruc.dk)

BC3 Theory of natural science (NIB)

time 16-10-2020 10:15 til
16-10-2020 12:00

location 11.2-047 - gl. natfagsal (65)

Teacher Hans Ramløv (hr@ruc.dk)
Martin Niss (maniss@ruc.dk)
Torben Braüner (torben@ruc.dk)

BC3 Theory of natural science (NIB)

time 23-10-2020 10:15 til
23-10-2020 12:00

location 11.2-047 - gl. natfagsal (65)

Teacher Hans Ramløv (hr@ruc.dk)
Martin Niss (maniss@ruc.dk)
Torben Braüner (torben@ruc.dk)

BC3 Theory of natural science (NIB)

time 30-10-2020 10:15 til
30-10-2020 12:00

location 11.2-047 - gl. natfagsal (65)

Teacher Hans Ramløv (hr@ruc.dk)
Martin Niss (maniss@ruc.dk)
Torben Braüner (torben@ruc.dk)

BC3 Theory of natural science (NIB)

time 06-11-2020 10:15 til
06-11-2020 12:00

location 11.2-047 - gl. natfagsal (65)

Teacher Hans Ramløv (hr@ruc.dk)
Martin Niss (maniss@ruc.dk)
Torben Braüner (torben@ruc.dk)

BC3 Theory of natural Science - Exam (NIB)

time 18-11-2020 13:00 til
18-11-2020 14:00

location 04.1-06.1-014 - teorirum 04/06 (130)

BC3 - Final submission of assignments in Moodle (prerequisites reexam) (NIB)

time 15-01-2021 12:00 til
18-01-2021 12:00

forberedelsesnorm ikke valgt

forberedelsesnorm D-VIP ikke valgt

BC3 Theory of natural science - Reexam (NIB)

time 29-01-2021 13:00 til
29-01-2021 14:00

location 11.2-047 - gl. natfagsal (65)