

Basic Course 1: Empirical data

About the course

subject	Den internationale naturvidenskabelige bacheloruddannelse
Activity type	Basic course
Teaching language	English
Registration	Students will be signed up for this course by the study administration. If you have taken the course before and need to be signed up again please contact inm-exams@ruc.dk
Detailed description of content	Natural science deals with the real world, and hence empirical data from experiments or observations play a central role. Basic Course 1 presents various types of empirical data as well as how they can be described, presented, analyzed, and interpreted using quantitative and qualitative methods. In the course, you will also be introduced to relevant IT tools and key notions such as statistical descriptors, probability, random sampling, simple statistical distributions and tests, and basic concepts and techniques of computer science. This course runs intensively in the first 5 weeks of the semester. It is not recommended to sign up for more than one course in this intensive period
Expected work effort (ECTS-declaration)	Lectures: 14 h, team exercises: 28 h, preparation for lectures and exercises: 77 h, preparation for test: 15 h, test: 1 h. In total 135 hours. Read more about expected work effort at Natbach here
Administration of exams	INM Registration & Exams (inm-exams@ruc.dk)
Responsible for the activity	Martin Niss (maniss@ruc.dk) Maja Hanne Kirkeby (majaht@ruc.dk) Ulf Rørbæk Pedersen (urp@ruc.dk)
ECTS	5
Learning outcomes and assessment criteria	• Knowledge of different types of empirical data • Knowledge of different types of graphical presentation of data • Knowledge of static descriptors and simple static distributions and test • Skills to be able to present, analyze and interpret empirical data using quantitative and qualitative methods • Skills to be able to read and use specialist symbolic language and other formal representations • Skills to be able to use relevant IT tools when working with empirical data • The competenc to be able to undertake simple mathematical problem-solving • The competence to be able to communicate academic issues, both orally and in writing through presentation, analysis and interpretation of empirical data
Overall content	Introduction to data types, data presentation techniques as well as descriptive statistics. Introduction to basic concepts and techniques within Computer Science. An introduction to the relationship between sample and population, probability, binomial and normal distribution, confidence intervals and linear regression.
Teaching and working methods	All course sessions begin with a lecture. Following the lecture, the students work on assignments in small groups.
Type of activity	Mandatory course
Form of examination (p1)	The course is passed through active, regular attendance and satisfactory participation. Active participation is defined as: The student must participate in course-related activities (e.g., workshops, seminars, field excursions, process study groups, working conferences, supervision groups, and feedback sessions). Regular attendance is defined as: - The student must be present for a minimum of 75 percent of the lessons. Satisfactory active participation is defined as:

- During the course, the student must participate in one report.

Assessment: Pass/Fail

Form of Re-examination (p1)

Individual oral exam based on an assignment.

The exam is conducted as a dialogue.

There may be posed questions in any part of the curriculum.

The character limit of the written product is 4,800-24,000 characters, including spaces.

The character limits include the cover, table of contents, bibliography, figures and other illustrations, but exclude appendices.

Time allowed for the exam including time used for assessment: 20 minutes.

The assessment is an overall assessment of the written product(s) and the subsequent oral examination.

Permitted support and preparation materials for the oral exam: All.

Assessment: Pass/Fail

Moderation: Internal co-assessor.

Exam code(s)

Exam code(s) : U27324

Course days:

Hold: For all students

BC1 Empirical data - For all students (NIB)

time 04-09-2024 13:00 til
04-09-2024 14:00

location 41.1-14 - biograf 41.1 (152)

Teacher Ulf Rørbæk Pedersen (urp@ruc.dk)

BC1 Empirical data - For all students (NIB)

time 06-09-2024 13:00 til
06-09-2024 14:00

location 41.1-14 - biograf 41.1 (152)

BC1 Empirical data - For all students (NIB)

time 09-09-2024 13:00 til
09-09-2024 14:00

location 41.1-14 - biograf 41.1 (152)

Study planning café for NIB1 - Please note that this session is not a part of BC1

time 10-09-2024 10:15 til
10-09-2024 12:00

location 27.1-089 - teorirum 27 (66)

BC1 Empirical data - For all students (NIB)

time 10-09-2024 13:00 til
10-09-2024 14:00

location 41.1-14 - biograf 41.1 (152)

Teacher Maja Hanne Kirkeby (majaht@ruc.dk)

BC1 Empirical data - For all students (NIB)

time 12-09-2024 13:00 til
12-09-2024 14:00

location 25.2-035 - auditorie 25 (145)

Teacher Maja Hanne Kirkeby (majaht@ruc.dk)

BC1 Empirical data - For all students (NIB)

time 16-09-2024 13:00 til
16-09-2024 14:00

location 41.1-14 - biograf 41.1 (152)

Teacher Viggo Andreasen (viggo@ruc.dk)

BC1 Empirical data - For all students (NIB)

time 17-09-2024 13:00 til
17-09-2024 14:00

location 41.1-14 - biograf 41.1 (152)

BC1 Empirical data - For all students (NIB)

time 19-09-2024 13:00 til
19-09-2024 14:00

location 41.1-14 - biograf 41.1 (152)

Teacher Viggo Andreasen (viggo@ruc.dk)

BC1 Empirical data - For all students (NIB)

time 23-09-2024 13:00 til
23-09-2024 14:00

location 41.1-14 - biograf 41.1 (152)

Teacher Viggo Andreasen (viggo@ruc.dk)

BC1 Empirical data - For all students (NIB)

time 24-09-2024 13:00 til
24-09-2024 14:00

location 41.1-14 - biograf 41.1 (152)

Teacher Viggo Andreasen (viggo@ruc.dk)

BC1 Empirical data - For all students (NIB)

time 26-09-2024 13:00 til
26-09-2024 14:00

location 41.1-14 - biograf 41.1 (152)

Teacher Ulf Rørbæk Pedersen (urp@ruc.dk)

BC1 Empirical data - For all students (NIB)

time 30-09-2024 13:00 til
30-09-2024 14:00

location 41.1-14 - biograf 41.1 (152)

Teacher Ulf Rørbæk Pedersen (urp@ruc.dk)

BC1 Empirical data - For all students (NIB)

time 01-10-2024 13:00 til
01-10-2024 14:00

location 41.1-14 - biograf 41.1 (152)

BC1 Empirical data - For all students (NIB)

time 03-10-2024 13:00 til
03-10-2024 14:00

location 41.1-14 - biograf 41.1 (152)

BC1 Empirical data - Hand-in of assignment (reexam) (NIB)

time 13-11-2024 10:00 til
13-11-2024 10:00

forberedelsesnorm ikke valgt

forberedelsesnorm D-VIP ikke valgt

BC1 Empirical data - Reexam (NIB)

time 25-11-2024 08:15 til
25-11-2024 16:00

Teacher Ulf Rørbæk Pedersen (urp@ruc.dk)

Hold: Team 4

BC1 Empirical data - divided in teams (NIB)

time 04-09-2024 14:15 til
 04-09-2024 16:00

location 28b.0-05 - lille teorirum (20)

BC1 Empirical data - divided in teams (NIB)

time 06-09-2024 14:15 til
 06-09-2024 16:00

location 28b.0-05 - lille teorirum (20)

BC1 Empirical data - divided in teams (NIB)

time 09-09-2024 14:15 til
 09-09-2024 16:00

location 28b.0-05 - lille teorirum (20)

BC1 Empirical data - divided in teams (NIB)

time 10-09-2024 14:15 til
 10-09-2024 16:00

location 28b.0-05 - lille teorirum (20)

BC1 Empirical data - divided in teams (NIB) Note: Building 11

time 12-09-2024 14:15 til
 12-09-2024 16:00

location 11.1-047 - studiesal (40)

BC1 Empirical data - divided in teams (NIB)

time 16-09-2024 14:15 til
 16-09-2024 16:00

location 28b.0-05 - lille teorirum (20)

BC1 Empirical data - divided in teams (NIB)

time 17-09-2024 14:15 til
 17-09-2024 16:00

location 28b.0-05 - lille teorirum (20)

BC1 Empirical data - divided in teams (NIB) Note: Building 11

time 19-09-2024 14:15 til
 19-09-2024 16:00

location 11.1-047 - studiesal (40)

BC1 Empirical data - divided in teams (NIB)

time 23-09-2024 14:15 til
 23-09-2024 16:00

location 28b.0-05 - lille teorirum (20)

BC1 Empirical data - divided in teams (NIB)

time 24-09-2024 14:15 til
 24-09-2024 16:00

location 28b.0-05 - lille teorirum (20)

BC1 Empirical data - divided in teams (NIB) Note: Building 11

time 26-09-2024 14:15 til
 26-09-2024 16:00

location 11.1-047 - studiesal (40)

BC1 Empirical data - divided in teams (NIB)

time 30-09-2024 14:15 til
 30-09-2024 16:00

location 28b.0-05 - lille teorirum (20)

BC1 Empirical data - divided in teams (NIB)

time 01-10-2024 14:15 til
 01-10-2024 16:00

location 28b.0-05 - lille teorirum (20)

BC1 Empirical data - divided in teams (NIB) Note: Building 11

time 03-10-2024 14:15 til
 03-10-2024 16:00

location 11.1-047 - studiesal (40)

Hold: Team 5

BC1 Empirical data - divided in teams (NIB)

time 04-09-2024 14:15 til
 04-09-2024 16:00

location 40.1-27 - workshop-lokale (20)

BC1 Empirical data - divided in teams (NIB)

time 06-09-2024 14:15 til
 06-09-2024 16:00

location 42.3-39 - workshop-lokale (20)

BC1 Empirical data - divided in teams (NIB)

time 09-09-2024 14:15 til
 09-09-2024 16:00

location 42.1-39 - workshop-lokale (20)

BC1 Empirical data - divided in teams (NIB)

time 10-09-2024 14:15 til
 10-09-2024 16:00

location 42.1-39 - workshop-lokale (20)

BC1 Empirical data - divided in teams (NIB)

time 12-09-2024 14:15 til
 12-09-2024 16:00

location 42.1-39 - workshop-lokale (20)

BC1 Empirical data - divided in teams (NIB)

time 16-09-2024 14:15 til
 16-09-2024 16:00

location 42.1-39 - workshop-lokale (20)

BC1 Empirical data - divided in teams (NIB)

time 17-09-2024 14:15 til
 17-09-2024 16:00

location 42.1-39 - workshop-lokale (20)

BC1 Empirical data - divided in teams (NIB)

time 19-09-2024 14:15 til
 19-09-2024 16:00

location 42.1-39 - workshop-lokale (20)

BC1 Empirical data - divided in teams (NIB)

time 23-09-2024 14:15 til
 23-09-2024 16:00

location 42.1-39 - workshop-lokale (20)

BC1 Empirical data - divided in teams (NIB)

time 24-09-2024 14:15 til
 24-09-2024 16:00

location 42.1-39 - workshop-lokale (20)

BC1 Empirical data - divided in teams (NIB)

time 26-09-2024 14:15 til
 26-09-2024 16:00

location 42.1-39 - workshop-lokale (20)

BC1 Empirical data - divided in teams (NIB)

time 30-09-2024 14:15 til
 30-09-2024 16:00

location 42.1-39 - workshop-lokale (20)

BC1 Empirical data - divided in teams (NIB)

time 01-10-2024 14:15 til
 01-10-2024 16:00

location 22.2-067 - undervisningslokale (28)

BC1 Empirical data - divided in teams (NIB)

time 03-10-2024 14:15 til
 03-10-2024 16:00

location 42.1-37 - workshop-lokale (20)

Hold: Team 2

BC1 Empirical data - divided in teams (NIB)

time 04-09-2024 14:15 til
 04-09-2024 16:00

location 40.1-06-08 - workshop-lokale (foldedør) (24)

BC1 Empirical data - divided in teams (NIB)

time 06-09-2024 14:15 til
 06-09-2024 16:00

location 28b.0-01 - store teorirum (30)

BC1 Empirical data - divided in teams (NIB)

time 09-09-2024 14:15 til
 09-09-2024 16:00

location 28b.0-01 - store teorirum (30)

BC1 Empirical data - divided in teams (NIB)

time 10-09-2024 14:15 til
 10-09-2024 16:00

location 28b.0-01 - store teorirum (30)

BC1 Empirical data - divided in teams (NIB)

time 12-09-2024 14:15 til
 12-09-2024 16:00

location 28b.0-01 - store teorirum (30)

BC1 Empirical data - divided in teams (NIB)

time 16-09-2024 14:15 til
 16-09-2024 16:00

location 28b.0-01 - store teorirum (30)

BC1 Empirical data - divided in teams (NIB)

time 17-09-2024 14:15 til
 17-09-2024 16:00

location 28b.0-01 - store teorirum (30)

BC1 Empirical data - divided in teams (NIB)

time 19-09-2024 14:15 til
 19-09-2024 16:00

location 28b.0-01 - store teorirum (30)

BC1 Empirical data - divided in teams (NIB)

time 23-09-2024 14:15 til
 23-09-2024 16:00

location 28b.0-01 - store teorirum (30)

BC1 Empirical data - divided in teams (NIB)

time 24-09-2024 14:15 til
 24-09-2024 16:00

location 28b.0-01 - store teorirum (30)

BC1 Empirical data - divided in teams (NIB)

time 26-09-2024 14:15 til
 26-09-2024 16:00

location 28b.0-01 - store teorirum (30)

BC1 Empirical data - divided in teams (NIB)

time 30-09-2024 14:15 til
 30-09-2024 16:00

location 28b.0-01 - store teorirum (30)

BC1 Empirical data - divided in teams (NIB)

time 01-10-2024 14:15 til
 01-10-2024 16:00

location 28b.0-01 - store teorirum (30)

BC1 Empirical data - divided in teams (NIB)

time 03-10-2024 14:15 til
 03-10-2024 16:00

location 28b.0-01 - store teorirum (30)

Hold: Team 3

BC1 Empirical data - divided in teams (NIB)

time 04-09-2024 14:15 til
 04-09-2024 16:00

location 27.1-052 - lokale 2 (20)

BC1 Empirical data - divided in teams (NIB)

time 06-09-2024 14:15 til
 06-09-2024 16:00

location 27.1-052 - lokale 2 (20)

BC1 Empirical data - divided in teams (NIB)

time 09-09-2024 14:15 til
 09-09-2024 16:00

location 27.2-054 - lokale 3 (40)

BC1 Empirical data - divided in teams (NIB)

time 10-09-2024 14:15 til
 10-09-2024 16:00

location 27.1-052 - lokale 2 (20)

BC1 Empirical data - divided in teams (NIB)

time 12-09-2024 14:15 til
 12-09-2024 16:00

location 27.1-052 - lokale 2 (20)

BC1 Empirical data - divided in teams (NIB)

time 16-09-2024 14:15 til
 16-09-2024 16:00

location 27.2-054 - lokale 3 (40)

BC1 Empirical data - divided in teams (NIB)

time 17-09-2024 14:15 til
 17-09-2024 16:00

location 27.1-052 - lokale 2 (20)

BC1 Empirical data - divided in teams (NIB)

time 19-09-2024 14:15 til
 19-09-2024 16:00

location 27.1-052 - lokale 2 (20)

BC1 Empirical data - divided in teams (NIB)

time 23-09-2024 14:15 til
 23-09-2024 16:00

location 27.2-054 - lokale 3 (40)

BC1 Empirical data - divided in teams (NIB)

time 24-09-2024 14:15 til
 24-09-2024 16:00

location 27.1-052 - lokale 2 (20)

BC1 Empirical data - divided in teams (NIB)

time 26-09-2024 14:15 til
 26-09-2024 16:00

location 27.1-052 - lokale 2 (20)

BC1 Empirical data - divided in teams (NIB)

time 30-09-2024 14:15 til
 30-09-2024 16:00

location 27.2-054 - lokale 3 (40)

BC1 Empirical data - divided in teams (NIB)

time 01-10-2024 14:15 til
 01-10-2024 16:00

location 27.1-052 - lokale 2 (20)

BC1 Empirical data - divided in teams (NIB)

time 03-10-2024 14:15 til
 03-10-2024 16:00

location 27.1-052 - lokale 2 (20)

Hold: Team 1

BC1 Empirical data - divided in teams (NIB)

time 04-09-2024 14:15 til
 04-09-2024 16:00

location 12.1-073 - teorilokale i 12.1 (30)

BC1 Empirical data - divided in teams (NIB)

time 06-09-2024 14:15 til
 06-09-2024 16:00

location 12.1-073 - teorilokale i 12.1 (30)

BC1 Empirical data - divided in teams (NIB)

time 09-09-2024 14:15 til
 09-09-2024 16:00

location 12.1-073 - teorilokale i 12.1 (30)

BC1 Empirical data - divided in teams (NIB)

time 10-09-2024 14:15 til
 10-09-2024 16:00

location 12.1-073 - teorilokale i 12.1 (30)

BC1 Empirical data - divided in teams (NIB)

time 12-09-2024 14:15 til
 12-09-2024 16:00

location 12.1-073 - teorilokale i 12.1 (30)

BC1 Empirical data - divided in teams (NIB)

time 16-09-2024 14:15 til
 16-09-2024 16:00

location 12.1-073 - teorilokale i 12.1 (30)

BC1 Empirical data - divided in teams (NIB)

time 17-09-2024 14:15 til
 17-09-2024 16:00

location 12.1-073 - teorilokale i 12.1 (30)

BC1 Empirical data - divided in teams (NIB)

time 19-09-2024 14:15 til
 19-09-2024 16:00

location 12.1-073 - teorilokale i 12.1 (30)

BC1 Empirical data - divided in teams (NIB)

time 23-09-2024 14:15 til
 23-09-2024 16:00

location 12.1-073 - teorilokale i 12.1 (30)

BC1 Empirical data - divided in teams (NIB)

time 24-09-2024 14:15 til
 24-09-2024 16:00

location 12.1-073 - teorilokale i 12.1 (30)

BC1 Empirical data - divided in teams (NIB)

time 26-09-2024 14:15 til
 26-09-2024 16:00

location 12.1-073 - teorilokale i 12.1 (30)

BC1 Empirical data - divided in teams (NIB)

time 30-09-2024 14:15 til
 30-09-2024 16:00

location 12.1-073 - teorilokale i 12.1 (30)

BC1 Empirical data - divided in teams (NIB)

time 01-10-2024 14:15 til
 01-10-2024 16:00

location 12.1-073 - teorilokale i 12.1 (30)

BC1 Empirical data - divided in teams (NIB)

time 03-10-2024 14:15 til
 03-10-2024 16:00

location 12.1-073 - teorilokale i 12.1 (30)