About the course

subject Den Naturvidenskabelige Bacheloruddannelse / Den internationale naturvidenskabelige bacheloruddannelse Activity type **Basic course** Teaching English language Registration Please register via STADS-self-service within the annonced registration period, for more information see: https://intra.ruc.dk/en/students/student-hub/student-hub/rucuddannelsesjura-og-studieadministration/registration-periods/ Foreign English at a level equivalent to the Danish gymnasium level B. language reading proficiency Objectives The goal of the course is that the student acquires: Knowledge: • Preliminary knowledge of logic description and discrete mathematics and the understanding of what is going on in a given situation when it is (assessment applied. Skills: • Oral and written presentation of logical and algorithmic reasoning Kompetencies: criteria) The use of logic and discrete mathematics as a means for modeling and as a tool for specification and communication in relevant scientific (not least computational) connections.** CURRICULUM FOR THE BACHELOR STUDY PROGRAMME IN NATURAL SCIENCES § 19**. Courses BK 4 to BK 8: Courses in the natural sciences: The objectives of courses BK 4 to BK 8 are to give students a broad introduction to and basic knowledge of the natural sciences with the aim of enabling them to make a qualified choice of subject modules, and to complete these. Overall The course will address propositional- and predicate logic (informal as well as formal), sets and content functions, algorithms, mathematical induction, formal languages. Detailed Please contact Torben Braüner (torben@ruc.dk) for more information. description of content Information about the previous edition of the course can be found here: http://www.ruc.dk/~torben/Spring17DiscreteMath.html Teaching and Survey lectures, group and individual work both with theory building problems and traditional working exercises, and regular assignments (home work). methods Course Kenneth H. Rosen, Discrete Mathematics and Its Applications, International Version, 6th edition, material and Mc-Graw Hill. Reading list ISBN-13: 978-0071244749, ISBN-10: 0071244743 The book can be bought a number of places, for example at Amazon: https://www.amazon.com/ Discrete-Mathematics-Applications-International-Version/dp/0071244743/ ref=sr_1_1?s=books&ie=UTF8&qid=1358745865&sr=1-1&keywords=9780071244749 Beware: The book comes in a number of different editions, it's important that you get hold of the correct version specified above - please check the ISBN number. Prerequisite Two or three individual mini projects, completed in groups, which must be handed in during the for taking the semester. The mini projects are based on a handed out problem formulation. A precondition for exam taking the exam is that the student has handed in and received approval for a number of minor assignments set during the course. Form of Individual oral exam with a duration of 15 minutes based on two or three individual mini projects examination Form of re-Individual oral exam with a duration of 15 minutes based on two or three individual mini projects examination Examination Individual examination type

Assessment	7-point grading scale		
Moderation	Internal (i.e. course lecturer and	an internal examiner assess)	
Evaluation- and feedback forms	All courses include formative eva and the teacher(s). All courses a evaluation at the end of the cour comments from the course respo	uluation during the course based on di re also evaluated through a questionn se. The Study Board will handle all eva onsible teacher.	alogue between the students naire in SurveyXact and oral Iluations along with any
Responsible for the activity	Morten Blomhøj (<u>blomhoej@ruc.dk</u>) Torben Braüner (<u>torben@ruc.dk</u>)		
teacher	Torben Braüner (<u>torben@ruc.dk</u>)		
Administration of exams	Natbach Studieadministration (natbach-studieadministration@ruc.dk	<u>(</u>)
STADS stamdata	Basic course workload : 5 ECTS exam form : Internal	activitycode : U24756 grading : 7-point grading scale cen	sorship : Internal censor

Course days:

Hold: 1

NATBACH: Basisc course 4-8; Logic and discrete mathematics - Lecture 1

time	13-03-2018 13:15 til 13-03-2018 17:00
location	28b.0-01 - store teorirum (30)
Content	Please see Moodle
Reading list	Please see Moodle

NATBACH: Basisc course 4-8; Logic and discrete mathematics - Lecture 2

time	15-03-2018 13:15 til 15-03-2018 15:00
location	28b.0-01 - store teorirum (30)
Content	Please see Moodle
Reading list	Please see Moodle

NATBACH: Basisc course 4-8; Logic and discrete mathematics - Lecture 3

time	20-03-2018 13:15 til 20-03-2018 17:00
location	28b.0-01 - store teorirum (30)
Content	Please see Moodle

NATBACH: Basisc course 4-8; Logic and discrete mathematics - Lecture 4

time	22-03-2018 13:15 til 22-03-2018 15:00
location	28b.0-01 - store teorirum (30)
Content	Please see Moodle
Reading list	Please see Moodle

NATBACH: Basisc course 4-8; Logic and discrete mathematics - Lecture 5

time	27-03-2018 13:15 til 27-03-2018 17:00
location	28b.0-01 - store teorirum (30)
Content	Please see Moodle
Reading list	Please see Moodle

NATBACH: Basisc course 4-8; Logic and discrete mathematics - Lecture 6

time	03-04-2018 13:15 til 03-04-2018 17:00
location	28b.0-01 - store teorirum (30)
Content	Please see Moodle
Reading list	Plegse see Moodle

NATBACH: Basisc course 4-8; Logic and discrete mathematics - Lecture 7

time	05-04-2018 13:15 til 05-04-2018 15:00
location	28b.0-01 - store teorirum (30)
Content	Please see Moodle
Reading list	Please see Moodle

NATBACH: Basisc course 4-8; Logic and discrete mathematics - Lecture 8

time	10-04-2018 13:15 til 10-04-2018 17:00
location	28b.0-01 - store teorirum (30)
Content	Please see Moodle

NATBACH: Basisc course 4-8; Logic and discrete mathematics - Lecture 9

time	12-04-2018 13:15 til 12-04-2018 15:00
location	28b.0-01 - store teorirum (30)
Content	Please see Moodle
Reading list	Please see Moodle

NATBACH: Basisc course 4-8; Logic and discrete mathematics - Lecture 10

time	17-04-2018 13:15 til 17-04-2018 17:00
location	28b.0-01 - store teorirum (30)
Content	Please see Moodle
Readina list	
Reading 151	Please see Moodle

NATBACH: Basisc course 4-8; Logic and discrete mathematics - Lecture 11

time	19-04-2018 13:15 til 19-04-2018 15:00
location	28b.0-01 - store teorirum (30)
Content	Please see Moodle
Reading list	Please see Moodle

NATBACH: Basisc course 4-8; Logic and discrete mathematics - Lecture 12

time	24-04-2018 13:15 til 24-04-2018 17:00
location	28b.0-01 - store teorirum (30)
Content	Please see Moodle
Reading list	Please see Moodle

NATBACH: Basisc course 4-8; Logic and discrete mathematics - Lecture 13

time	26-04-2018 13:15 til 26-04-2018 15:00
location	28b.0-01 - store teorirum (30)
Content	Please see Moodle

NATBACH: Basisc course 4-8; Logic and discrete mathematics - Lecture 14

time	01-05-2018 13:15 til 01-05-2018 17:00
location	28b.0-01 - store teorirum (30)
Content	Please see Moodle
Reading list	Please see Moodle

NATBACH: Basisc course 4-8; Logic and discrete mathematics - Lecture 15

time	03-05-2018 13:15 til 03-05-2018 15:00
location	28b.0-01 - store teorirum (30)
Content	Please see Moodle
Reading list	Plages cas Moodla
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NATBACH: Basisc course 4-8; Logic and discrete mathematics - Examination

time	11-06-2018 08:15 til
	12-06-2018 17:00

location 27.2-054 - lokale 3 (40)

NATBACH: Basisc course 4-8; Logic and discrete mathematics - Re-examination

time	16-08-2018 13:00 til 16-08-2018 17:00
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forberedelsesnorm D-VIP	ikke valgt
location	27.2-054 - lokale 3 (40)

STADS stamdata	Basic course			
	workload : 5 ECTS	activitycode : U24756		
	exam form : Internal	grading : 7-point grading scale	censorship : Internal censor	