BK4/BK8 - Logic and discrete mathematics

Om kurset

uddannelse	Den naturvidenskabelige bacheloruddannelse / Den Internationale Naturvidenskabelige Bacheloruddannelse	
Hjemmeside	www.ruc.dk/om-universitetet/organisation/regelsamling/uddannelse/ studieordninger-knyttet-til-faellesreglerne-fra-2012/	
Kursustype	bachelor	
Undervisningssprog	English	
Tilmelding	Through STADS selfservice from 1st November to 15th November : <u>Link to</u> <u>STADS selfservice</u> Questions regarding registration can be directed to Mona Vølcker-Hansen, monavh@ruc.dk, phone 4674-2393	
Kursus starter	10-03-2015	
Kursus slutter	05-05-2015	
	03-03-2013	
Undervisningstidspunkt	Blok C:Tuesday 13-16:30/friday 8:30-10:30	
Undervisningssted	Room III building 27.2	
forudsætninger	English at a level equivalent to the Danish gymnasium level B. No further prerequisites.	
formål	 The goal of the course is that the student acquires: Knowledge: Preliminary knowledge of logic and discrete mathematics and the understanding of what is going on in a given situation when it is applied. Skills: Oral and written presentation of logical and algorithmic reasoning Kompetencies: 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.	
Indhold	The course will address propositional- and predicate logic (informal as well as formal), sets and functions, algorithms, mathematical induction, formal languages.	

Undervisningsform	Survey lectures, group and individual work l and traditional exercises, and regular assignment	both with theory building problems nents (home work).
Eksamensform	Individual oral exam with a duration of 15 m individual mini projects, completed in group the semester. The mini projects are based on formulation.	ninutes based on two or three os, which must be handed in during a handed out problem
	The grading is a total of the mini projects an	d the oral exam.
	A precondition for taking the exam is that th received approval for a number of minor ass	e student has handed in and ignments set during the course.
Reeksamensform	Extension of mini project and individual ora minutes based on the extended mini project.	l exam with a duration of 15
Eksamenstidspunkt	12-06-2015	
reeksamenstidspunkt	21-08-2015	
Undervisningsevalueringsform	All courses include formative evaluation during the course based on dialogue between the students and the teacher(s). All courses are also evaluated through n a questionnaire in SurveyXact and oral evaluation at the end of the course. The Study Board will handle all evaluations along with any comments from the course responsible teacher.	
Maksimum antal deltagere	30	
Aktivitetsansvarlig	Torben Braüner (torben@ruc.dk)	
Kursussekretær	Mona Vølcker-Hansen (monavh@ruc.dk) Charlotte Levin Pedersen (chle@ruc.dk)	
Underviser	Torben Braüner (torben@ruc.dk)	
STADS stamdata bachelor belastning : 5 ECTS prøveform : Intern	aktivitetskode : U24756 bedømmelse : 7-trinsskala	censur : Intern censur