

Datalogi - Fagmodulkursus 1 - Essential Computing I

Om kurset

uddannelse	Fagmodul i Datalogi
sted	43.2-29
Kurstype	fagmodulkursus
Undervisningssprog	English
Tilmelding	<p>Register through STADS Self-Service</p> <p>Questions regarding registration please contact course secretary Anja Kastrup Christiansen (anjakc@ruc.dk)</p> <p>Registration will take place during the period May 1, 2015 - May 15, 2015</p>
Kursus starter	16-09-2015
Kursus slutter	18-11-2015
Undervisningstidspunkt	Wednesdays 8.30-12.45
forudsætninger	English at a level equivalent to the Danish gymnasium level B
Kursusrækkefølge	<p>Examples of how to structure your studies at Computer Science:</p> <p>http://www.ruc.dk/uddannelse/fag/datalogi/om-faget/fagets-opbygning-og-indhold/kurser-paa-fagmodulet/</p>
formål	<p>§ 1. The aim of the Bachelor Subject module in Computer Science is to qualify the student in interdisciplinary development work, particularly in preparation for professional functions in software development, i.e. especially construction and analysis of software. The aim is to give general and valid qualifications at a scientific level. General terms and general understanding have a high priority and the student's ability to work in the field of computer science from a problem-solving and critical perspective is emphasised</p>
Indhold	<p>The course introduces fundamental concepts and tools related to programming. The course is based on the Java programming language.</p> <p>More specifically the course covers the following:</p> <ul style="list-style-type: none">• The idea of an algorithm, problem solving, computational thinking, limits of what can be computed• Essential programming control structures, basic data types, arrays, structured data types, procedures and functions• Calculations, using libraries and APIs, files, handling graphics and sound• Classes, objects and object oriented programming <p>Structure of typical programs with graphical user interface</p>
Undervisningsform	The teaching is based on lectures and exercises in programming
bedømmelseskriterier	<p>The goal of the course is that the student acquires:</p> <p><i>Knowledge:</i></p> <ul style="list-style-type: none">• Knowledge about basic terms and tools related to programming <p><i>Skills:</i></p> <ul style="list-style-type: none">• Skills in basic programming and the use of tools for preparation and execution of programmes. <p><i>Competencies:</i></p> <ul style="list-style-type: none">• Competencies in analysing a problem and producing, implementing and testing an algorithmic solution

Eksamensform	<p>The exam will be a 15 minute individual oral exam. The exam will mainly be about the assignments (especially the mini project) but questions can be related to the whole course curriculum.</p> <p>The mark will be based on overall assessment on the assignments and the oral exam.</p> <p>To attend the exam the student must have 50 % of the hand in assignments approved including the mini project.</p> <p>The assignments can be made in groups – each group with a maximum of 3 students</p>		
Reksamensform	As the ordinary exam		
Eksamenstidspunkt	<p>January 4 (monday) and January 5 (tuesday) 2016</p> <p>You will be informed of details such as exact time and location later</p>		
undervisningsmaterialer	Head First Java ISBN-13: 978-0596009205		
Aktivitetsansvarlig	Ebbe Vang (ebbevang@ruc.dk)		
Kursussekretær	Heidi Lundquist (heilu@ruc.dk) Anja Kastrup Christiansen (anjakc@ruc.dk)		
Underviser	Ebbe Vang (ebbevang@ruc.dk)		
STADS	fagmodulskursus		
stamdata	belastning : 5 ECTS	aktivitetskode : U24755	
	prøveform : mundtlig	bedømmelse : 7-trinsskala	censur : Intern censur