Master course (grp. 2): Databases (DB)

Om kurset

| uddannelse | Computer Science / Informatik | | | |
|----------------------------|-------------------------------|--|--|--|
| Kursustype | forelæsning | | | |
| Undervisningssprog English | | | | |
| Kursus starter | 02-09-2013 | | | |
| Kursus slutter | 22-11-2013 | | | |
| FOTO | 7.5 | | | |
| ECIS | 1.5 | | | |
| | | | | |
| Eksamensform | 3 hours written exam | | | |

Eksamenstidspunkt January 2014

| | The excellent performance: The student demonstrates | | |
|----------------|---|--|--|
| | solid knowledge, insight and overview of the subject area; demonstrates solid description, competent application, and critical reflection with respect to the command and application of theories and methods; demonstrates certainty, conceptual accuracy, and independent and clear organization with respect to structuring and communication. | | |
| - 1 · | The good performance: The student demonstrates | | |
| Evaluering | knowledge of and insight into the subject area; demonstrates clear description and relatively competent application with respect to the command and application of theories and methods; demonstrates clear presentation and organization with respect to structuring and communication. | | |
| | The performance meeting the minimum requirements: The student demonstrates | | |
| forudsætninger | sufficient however limited knowledge of the subject area;demonstrates a sufficient account of command and appli | | |
| | The recommended prerequisites are: Basic programming skills, for example obtained by completing the Introduction to Programming or by attending the CSS course in parallel. Very basic knowledge of algorithms. | | |
| | Basic knowledge of Java or PHP will be helpful. | | |
| Indhold | The course introduces systems, models, languages and design involved in databases and their application. We cover also the architecture of database systems, to the extent that is necessary in order to develop efficient and effective database applications. The teaching | | |

| | involves practica development of concepts. | involves practical exercises using a fully developed database system, both for development of small applications and for isolated experiments with specific facilities and concepts. | | | | |
|--|---|---|---|--|--|--|
| | We put an emph most central one consider how SO database design | We put an emphasis on mainstream data models with the relational data model as the most central one. We introduce to database languages and go in depth with SQL, and consider how SQL can be used from at application program. Furthermore, we introduce to database design and cover E/R-modelling as well as normalization. | | | | |
| | We consider also database applica human-compute | o some elements of graphical user inte tions, and introduce briefly to parts of r interfaces (HCI) that are relevant wh | erfaces (GUI) that are relevant for f general methods and principles for then con | | | |
| Kursusdage | Fridays at 8.30 - | 12.45 a.m. in the period from Septem | ıber 6 - November 22 2013. | | | |
| kursusform | Lectures and exe | Lectures and exercises. | | | | |
| | The purpose of t application and | this course is to give a general introduce foundation. More specifically, the aim | ction to databases in terms of both is that the student should: | | | |
| | • Obtain l | • Obtain knowledge about the overall structure of database systems. | | | | |
| | Become and ana | • Become familiar with the design of databases by use of special notations like E/R and analysis through normalization. | | | | |
| mål | • Get an or about the SQL. | • Get an overview of the most important database models and a detailed knowledge about the most important model - the relational model as well as the language SQL. | | | | |
| | Get an o Obtain l includin Obtain l (applica) | Get an overview of database indexing and query processing Obtain knowledge about application programming for database systems, including distributed databases and client/server architectures. Obtain knowledge about the design of graphical user interfaces to database (applications) and related aspects Human-Computer Interaction. | | | | |
| | A student who a and implement r | ttends the course in a satisfactory way non-trivial | y, is expected to be able to design | | | |
| Vurdering | Will be annound | ed later. | | | | |
| Kursussekre | tær Heidi Lundquist | Heidi Lundquist (heilu@ruc.dk) | | | | |
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| kan | didat 1. modul | | | | | |
| STADS aktivitetskode : U22912 / stamdata U22984 | | | | | | |
| prø | veform : skriftlig | bedømmelse : 7-trinsskala | censur : Ekstern censur | | | |