Business Intelligence and Big Data Analysis

About the course

Subject Datalogi / Informatik Activitytype master course Teaching English language Registration Tilmelding sker via stads selvbetjening indenfor annonceret tilmeldingsperiode, som du kan se på Studieadministrationens hjemmeside Når du tilmelder dig kurset, skal du være opmærksom på, om der er sammenfald i tidspunktet for kursusafholdelse og eksamen med andre kurser, du har valgt. Uddannelsesplanlægningen tager udgangspunkt i, at det er muligt at gennemføre et anbefalet studieforløb uden overlap. Men omkring valgfrie elementer og studieplaner som går ud over de anbefalede studieforløb, kan der forekomme overlap, alt efter hvilke kurser du vælger. Registration is happing through stads selvbetjening within the announced registration period, as you can see on the Studyadministration homepage. When registering for courses, please be aware of the potential conflicts between courses or exam dates on courses. The planning of course activities at Roskilde University is based on the recommended study programs which do not overlap. However, if you choose optional courses and/or study plans that goes beyond the recommended study programs, an overlap of lectures or exam dates may occur depending on which courses you choose. Detailed Data is being collected, analyzed, and used in intelligent applications as never before. This applies across all description of areas of business, science and life. We live in an age not only of a digital revolution, but also of a data revolution, content where businesses, in order to succeed, need to be ever more data-driven. But what does it mean to be datadriven and what are Big Data, Machine Learning, Artificial Intelligence, and Data Science in a business context? In this course, we will answer these questions by giving a hands-on introduction to Data Science (using the tool R) looking at how data can be utilized especially within businesses and organizations. We will discuss classical Business Intelligence and how data can be utilized in solving business problems. We will look at the entire data analysis cycle: from asking questions, collecting, preprocessing, and analyzing data, to building (machine learning) models and communicating the results. Furthermore, we will look at the particular challenges of storage and computation in the context of Big Data. Expected work The course will have a total workload of 135 hours with 40 hours of lectures and exercises, 70 hours of effort (ectspreparation over an 11 week course period and 25 hours for the exam and preparation before the course declaration) Course Articles and extracts from books and web. material and reading list Evaluation-There will be feedback on exercises which are set during the course. An evaluation will take place at the end of the and feedback forms Administration IMT Studyadministration (imt-studyadministration@ruc.dk) of exams The Jens Ulrik Hansen (jensuh@ruc.dk) responsible course lecturer

ECTS

• Knowlod

Learning outcomes and assessment criteria

- Knowledge
- Knowledge and understanding of a specific Informatics subject area.
- A comprehensive overview and understanding of the general principles behind the subject area's theory, methods and technological solutions.
- Skills:
- Selecting and applying appropriate methods and techniques from the subject area.
- Kompetencer
- Being able to work with IT issues, both independently and in teams.

• Being able to critically and systematically learn new approaches to the subject area and thereby independently take responsibility for one's own professional development.

Overall content

With the topic of their own choosing, the student has the opportunity to specialise in a specific subject area where the student acquires knowledge, skills and competences in order to translate theories, methods and solutions ideas into their own practice in relation to the design and implementation of IT applications.

Subjects can include: IT strategy, IT project management, sourcing of IT projects, IT and enterprise architecture, design and innovation in IT organisations

Prerequisites for

Currently no data from curriculum.

participation

Prerequisites

Currently no data from curriculum.

participation in the exam

Teaching and

working

Normal class instruction, i.e. a mix of lecturer presentations, student presentations and practical work on specific tasks.

methods

Lecture with exercises.

Is stated in the description at kursus.ruc.dk.

Type of activity

Elective course

Exam code(s) Exam code(s): U40549

Course days:

Hold: 1

Business Intelligence and Big Data - BIBA (INF)

Time 07-09-2020 08:15 til

07-09-2020 12:00

Location 10.1-025 - teorirum (32)

Teacher Christopher Gyldenkærne (chrgyl@ruc.dk)

Jens Ulrik Hansen (jensuh@ruc.dk)

Business Intelligence and Big Data - BIBA (INF)

Time 14-09-2020 08:15 til

14-09-2020 12:00

Location 10.1-025 - teorirum (32)

Teacher Christopher Gyldenkærne (chrgyl@ruc.dk)

Jens Ulrik Hansen (jensuh@ruc.dk)

Business Intelligence and Big Data - BIBA (INF)

Time 21-09-2020 08:15 til

21-09-2020 12:00

Location 10.1-025 - teorirum (32)

Teacher Christopher Gyldenkærne (chrgyl@ruc.dk)

Jens Ulrik Hansen (jensuh@ruc.dk)

Business Intelligence and Big Data - BIBA (INF)

Time 28-09-2020 08:15 til

28-09-2020 12:00

Location 10.1-025 - teorirum (32)

Teacher Christopher Gyldenkærne (chrgyl@ruc.dk)

Jens Ulrik Hansen (jensuh@ruc.dk)

Business Intelligence and Big Data - BIBA (INF)

Time 05-10-2020 08:15 til

05-10-2020 12:00

Location 10.1-025 - teorirum (32)

Teacher Christopher Gyldenkærne (chrgyl@ruc.dk)

Jens Ulrik Hansen (jensuh@ruc.dk)

Business Intelligence and Big Data - BIBA (INF)

Time 12-10-2020 08:15 til

12-10-2020 12:00

Location 10.1-025 - teorirum (32)

Teacher Christopher Gyldenkærne (chrgyl@ruc.dk)

Jens Ulrik Hansen (jensuh@ruc.dk)

Business Intelligence and Big Data - BIBA (INF)

Time 19-10-2020 08:15 til

19-10-2020 12:00

Location 10.1-025 - teorirum (32)

Teacher Christopher Gyldenkærne (chrgyl@ruc.dk)

Jens Ulrik Hansen (jensuh@ruc.dk)

Business Intelligence and Big Data - BIBA (INF)

Time 26-10-2020 08:15 til

26-10-2020 12:00

Location 10.1-025 - teorirum (32)

Teacher Christopher Gyldenkærne (chrgyl@ruc.dk)

Jens Ulrik Hansen (jensuh@ruc.dk)

Business Intelligence and Big Data - BIBA (INF)

Time 02-11-2020 08:15 til

02-11-2020 12:00

Location 10.1-025 - teorirum (32)

Teacher Christopher Gyldenkærne (chrgyl@ruc.dk)

Jens Ulrik Hansen (jensuh@ruc.dk)

Business Intelligence and Big Data - BIBA (INF)

Time 09-11-2020 08:15 til

09-11-2020 12:00

Location 10.1-025 - teorirum (32)

Teacher Christopher Gyldenkærne (chrgyl@ruc.dk)

Jens Ulrik Hansen (jensuh@ruc.dk)

Business Intelligence and Big Data - BIBA - Hand-in (INF)

Time 16-11-2020 10:00 til

16-11-2020 10:00

Forberedelsesnorm lkke valgt
Forberedelsesnorm d-vip lkke valgt

Business Intelligence and Big Data - BIBA - Oral Examination (INF)

Time 12-01-2021 08:15 til

13-01-2021 18:00

Forberedelsesnorm lkke valgt
Forberedelsesnorm d-vip lkke valgt

Location 08.1-033 - grupperum (6)