



Research data management for doctoral students Hantering av forskningsdata för doktorander

2 credits

2 högskolepoäng

Ladok Code: FBIRD01

Version: 1.0

Established by: The Research education committee in Library and Information Science 2021-08-30

Valid from: Spring 2022

Education Cycle: Third cycle

Research Subject: Others

Prerequisites: Admission to a third-cycle programme at the University of Borås

Grading Scale: Fail (U) or Pass (G)

Content

The focus of the course is to introduce key concepts and methods for data management, such as data management plan, folder structure, data security, documentation, law and ethics, versioning, archiving and long-term preservation, and availability. The course will also address the FAIR principles to research data.

The overall goal is for the doctoral students to develop their knowledge of managing and sharing research data and practically implement it to develop a data management plan for their project. Data management refers to managing, organising, and structuring the research material throughout the research process, from project planning to publication and archiving research data. The knowledge is needed for an overview of data management in one's project and future scientific research. The data management plan is also to facilitate making research data available if possible, given its nature.

Learning Outcomes

1. Knowledge and understanding

1.1. Understanding what research data can be and the need to manage it

1.2. Overall understanding of the management of research data from planning a project to archiving and making research data available

1.3. Understanding of different prerequisites to manage research data in different scientific areas

2. Skills and abilities

2.1. Ability to independently develop a data management plan

3. Evaluation ability and approach

3.1. Ability to take into consideration ethical and legal issues related to data sharing and retention

3.2. Understanding of privacy and confidentiality with some forms of research data

Forms of Teaching

Instruction will be in introductory lectures with possibilities for questions, workshops to discuss data management plans, and independent reading of relevant literature.

The language of instruction is English. However, instruction in Swedish may occur.

Forms of Examination

Examination of the course occurs through:

- Written assignment: data management plan incl reflective paper. (Learning objectives: 1.1, 1.2, 1.3, 2.1, 3.1, 3.2) 1.5 Grading scale: UG
- Oral assignment: workshop/seminar. (Learning objectives: 1.1, 1.2, 1.3) 0.5 Grading scale: UG

The course is examined through an individual written data management plan in which all relevant parts of a research project are taken into account. The data management plan includes a written paper reflecting the various choices made regarding data management, a maximum of 1000 words.

The examination also includes participation in a seminar where students critically discuss each other's data management plans.

If the student has received a decision/recommendation regarding special pedagogical support from the University of Borås due to disability or special needs, the examiner has the right to make accommodations when it comes to examination. The examiner must, based on the objectives of the course syllabus, determine whether the examination can be adapted in accordance with the decision/recommendation.

Student rights and obligations at examination are in accordance with guidelines and rules for the University of Borås.

Literature and Other Teaching Methods

Leonelli, S. (2015). *What Counts as Scientific Data? A Relational Framework*. *Philosophy of science*, 82(5), 810-821. doi:10.1086/684083

Svensk nationell datatjänst. (2021). Swedish National Data Service. URL: <https://snd.gu.se/en> (Find Data, Manage Data, Describe and Share Data)

Svensk nationell datatjänst. (2021). Checklist for data management plan. URL: <https://snd.gu.se/en/manage-data/guides/dmp-checklist>

Online tutorial:
Research Data Management Training (MANTRA), University of Edinburgh: <http://datalib.edina.ac.uk/mantra/>

Student Influence and Evaluation

The course is evaluated in accordance with current guidelines for course evaluations at the University of Borås in which students' views are to be gathered. The course evaluation report is published and returned to participating and prospective students in accordance with the above-mentioned guidelines, and will be taken into consideration in the future development of courses and education programmes. Course coordinators are responsible for ensuring that the evaluations are conducted as described above.

Miscellaneous

This syllabus is a translation from the Swedish original.