

Workshop: Data Stewardship

Hanne Risan Johnsen & Helene N. Andreassen
UiT The Arctic University of Norway

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Goal

Inform about the DocEnhance Data Stewardship course.

 Invite you to consider how content of this course can be integrated into the PhD programme(s) in your institution.





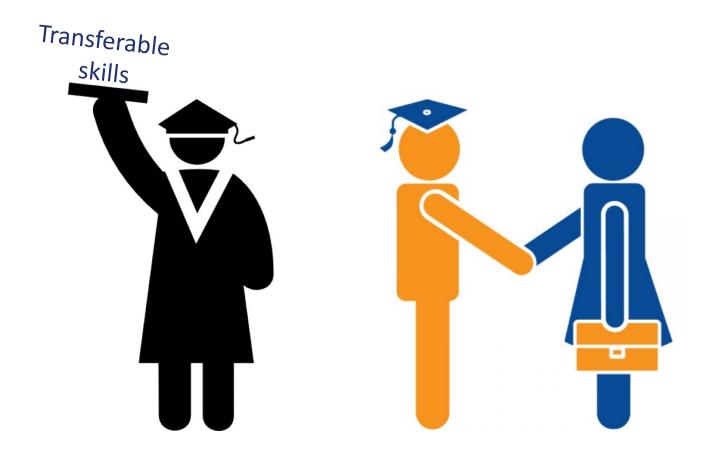
Plan

 Presentation of the DocEnhance project and the Data Stewardship course

- Group discussion
- Wrap-up in plenum



DocEnhance: Responding to the need for PhD training in transferable skills





A Consortium of 19 partners











































10/11/2022



The DocEnhance Platform









Course concept

Open Science and Innovation

1st module
Open education

2nd module
Interdisciplinarity

Another Mobility

Conline lectures

Local group work

Regional assignment

Data stewardship

Career management and Entrepreneurship

Supervision

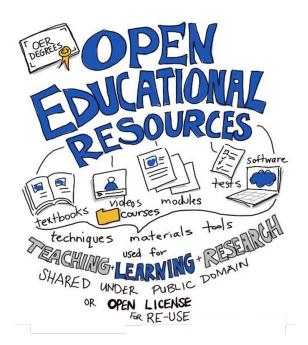




The DocEnhance Platform











The Data Stewardship course

Development team

Research librarians / RDM specialists / teachers PhD education / developers OER

- Helene N. Andreassen
- Noortje Dijkstra
- Henning Hansen
- Leif Longva













Research data management @ the UiT Library

2010- Focus on open science

2014- Focus on flexible teaching / learning

2017- Teaching & guidance on best practices within RDM

2018- Bi-annual & multidisciplinary doctoral course (ECTS credits) with focus on research integrity and open science





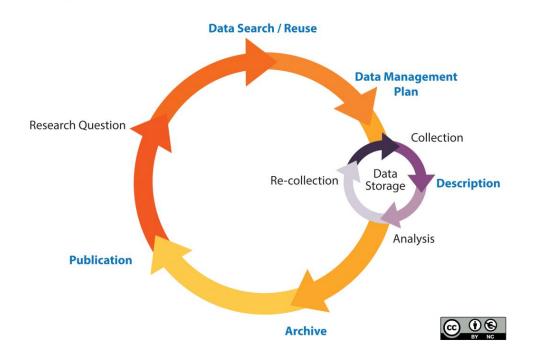






Mapping the DocEnhance course concept onto data stewardship

The Research Data Management Lifecycle



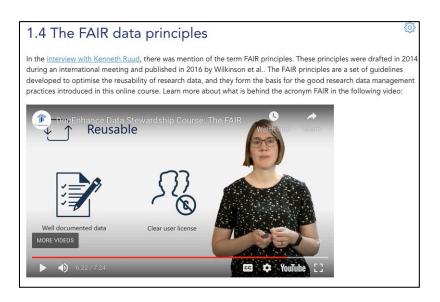






9 thematic parts

- Videos
- Food for thought
- Quizzes
- Readings









Multiple choice exam

- Certificate generated automatically upon sucessful completion
- Must be passed to be eligible for attendance in Modules 2 & 3







- Six three-hour long topical sessions
- Suggested exam assignment
- Participant activity and interaction in focus
- Teacher role: Selection of content, organisation and support in group/plenary discussions
- Flexibility in selection of sessions, activities, examples
 - Time available
 - Participant group (discipline, experience)
 - Preferences

For the teacher

Content

This module contains teaching material for six three-hour activity:

- 1. The importance of RDM and open archiving
- 2. The data management plan
- 3. Structuring and documenting research data
- 4. Data storage, file formats, and the FAIR principles
- 5. Archiving research data
- 6. Search, cite, and license research data

Material

Each session has the following composition:

- An overview of the session, with time frames
- Session teacher guide
- · Assignment texts and other material

All material is downloadable or accessible via links. Modu the PhD candidates are not supposed to enroll in the cour relevant material with the PhD candidates/course particip

Flexibility

The module is built up as an inspirational teacher's resour participant group and time constraints. You may also deci





Teaching material

Session 5: Archivin

Archiving data is an important step of the research data management to prepare a dataset and how to find a suitable repository for a given on datasets that are either created or modified for educational purpose.

- Structure of session 5: Archiving research data
- Structure of Session 5 (printable version)
- Preacher guide to Session 5
- 5.1 Pre-assignment text Getting ready to work on research
- 5.2 Assignment text Preparing and depositing a datase
- 5.2 Dummy dataset
- 5.2 DocEnhance Educational Data Archive
- 5.2 Discussion guide for the teacher Preparing and dep
- 5.3 Assignment text Selecting a research data repositor

Structure of Session 5: Archiving research data

00:00 - 00:15 Plenum: Introduction to session 5

- Plan for the session.
- Recap in plenum & terminology demystifier: What do you need to think about and/or do when you want to archive research data? Teacher or someone else takes on secretary function and writes down keywords (virtual or physical whiteboard).

00:15 - 01:45 Buzz groups & plenum: Preparing and depositing a dataset

- In buzz groups, test archiving research data by entering metadata and converting/uploading files
 for a given dataset into the DocEnhance Educational Data Archive (for login and repository
 guidelines, see pre-assignment text 5.1: Getting ready to work on research data archiving).
 Write down comments, questions, or experienced challenges in a shared Padlet. Wrap-up in
 plenum.
- If needed, the individual buzz groups organise a 5-minute break during group work.
- Material:
 - 5.1 Pre-assignment text: Getting ready to work on research data archiving.
 - o 5.2 Assignment text: Preparing and depositing a dataset.
 - 5.2 Dummy dataset.
 - o 5.2 Discussion guide (for the teacher).
 - DocEnhance Educational Data Archive.
 - Shared Padlet for entire group, one column per group.

01:45 - 02:00 Break

Material: Refreshments and fresh air.

02:00 - 02:45 Buzz groups & plenum: Selecting a research data repository

- In buzz groups, select one of the datasets in the DocEnhance Educational Data Archive and search for a suitable repository. Take notes and be ready to argue for your choice. Wrap-up in plenum.
- Material:
 - 5.3 Assignment text: Selecting a research data repository.
 - o DocEnhance Educational Data Archive.





- Advice from the non-academic sector
- Getting started
- Assignment ideas

Relevant challenges

Challenges that actors in the non-academic sector a discussion with a handful of stakeholders from N data management:

Assignment

- Data access and ownership, e In large organisations, procedur collaborators.
- Data protection, e.g. how to me data management is in line with data should be managed: How knowledge is required to handle
- Standardisation, e.g. how to far different entities within the organization archiving the data.
- Combination of data, e.g. how work with a large variety of data different datasets and their com specialised competences, and t
- Big data analysis, e.g. how to related to big data analysis are way of working that rapidly is g
- Data provision, e.g. how to proserve actors in private or public visualised in an understandable

Assignment ideas and examples

In this Module 3, the PhD candidates will work on practical assignme and work with data from the non academic sector, while business ent



Photo: "Wrapping one's head around the data" by Unhindered by Ta

Examples

Here are some possible tasks DocEnhance participants may be asked

- Analyses based on (raw) data:
- Give the doctoral candidate a set of (raw) data from the firm/org
- Ask the doctoral candidate to suggest whether the data may
- Ask the doctoral candidate to suggest how (some of the) data
- Ask the doctoral candidate to do some basic regressions or of
- Ask the doctoral candidate to illustrate effects that these ar
- Ask the doctoral candidate to suggest metadata to attach to t



Exam assignment

 Report based on work done in collaboration with non-academic sector.









Feedback participants

It is important to inform early about structure, content, and materials.

Good combination of theory and application.

Great to meet and work with other PhD candidates.

"It was an awesome experience."

"The best course I've done during my PhD so far."

The course should be incorporated into the PhD study.





Feedback local teachers

Time is an issue. Enough time for each module, and enough time between modules to prepare well.

Teacher guides are essential.

Challenging the participants, getting them out of the comfort zone, is beneficial both for learning and for dynamics within the group.

The course should be given on a regular basis, and/or incorporated into the institutional PhD programme.





Target groups

Individuals who want to enhance competencies and skills on RDM by self-studying.

Teachers who want elements to include in relevant teaching.

Institutions who want to include a formal course on RDM in their PhD programmes.





Implementation at the institution

- Organisation
- Teachers
- Non-academic partners
- Definition of work load
- Selection / adjustment of material
- Portefolio assessment & ECTS credits (or other)

UiT is author of the course and may be contacted for questions about content.







Group discussion

Assignment

- How can the content of Data
 Stewardship be integrated into PhD education and supervision at your own institution? Challenges? Possibilities?
- How can the content be made relevant and immediately useful for the different research communities? Experiences? Thoughts?
- What should be covered by such a course, and what should be covered in other contexts? Who should do what?

Keywords

- Practical issues
- Teachers
- Thematic relevance
- Rooted in the institution
- Cooperation
- Academic diversity
- PhD training programme
- PhD supervision
- Roles & division of labour







Wrap-up

Share your thoughts!

Bring relevant reflections, questions and comments with you back home, and continue the discussion with your colleagues!



Course on Data Stewardship

Available by December 2022

http://docenhance.eu