

Course plan for Literature Management and Scientific Communication

Course code PHDLMSC

Credits: 5

Number of semesters: 1 semester

Applies to: Course start spring 2020

Teaching language: English

Responsible: Faculty of Health and Social Sciences

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Academic content in course

This course aims to provide the PhD candidate with transferable research skills. It is open to candidates from all PhD programmes, and is best suited to those at an early stage of the PhD. The main goal for the course is that each candidate, early on in the research process, gains a confident insight and overview of their research field, of crucial literature and of different information sources. To this end, the PhD candidate will learn how to make a literature review for the dissertation including extensive searching in relevant databases and methods for synthesising and administrating the literature. Useful software for the review process will be introduced, including the reference management tool EndNote. The candidates will learn about publishing processes, publishing channels, research networks, copyright issues and evaluation of research. The course also aims to provide the candidates with knowledge about data management including data storage, archiving, protection, and sharing.

Learning outcome

Learning Outcome

Knowledge

The Candidate:

- can critically evaluate the expediency and application of different methods and processes in research and scholarly projects
- can position own research in relation to a larger field of study through an extensive literature review
- has an awareness of useful software for organising and reviewing the literature
- can critically evaluate the quality of different publications and publishing channels
- has specific knowledge about procedures of peer review, how to get published internationally, criteria for ranking of journals and other publication channels and other forms of research evaluation
- has specific knowledge about how to increase the visibility of own research
- has specific knowledge about data storage and archiving, personal data, data protection, and data sharing in light of national and international regulations

Skills

The Candidate:

- can use a variety of literature search techniques and critically review relevant sources of information in the field of study
- can use an electronic reference management system for correct referencing and citation techniques
- can critically analyse and evaluate different forms and rules of scientific communication and formulate an appropriate publishing strategy
- can make a data management plan for own research.

General Competence

The Candidate:

- can contribute to developing new knowledge by identifying gaps in the previous research, positioning own research in the field and engaging in the written dialogue with researchers in the field
- can communicate research and development work through recognized national and international channels, and by online networking
- can consider ethical challenges related to data collection, storage, publishing, and sharing.

Learning activities

Learning Activities

There will be lectures with case discussions and practical exercises in which the candidates will learn how to make a data management plan, search relevant databases, and increase the visibility of own research.

These exercises will be useful to the mandatory course essay. It will be possible for the PhD students to schedule individual guidance sessions with a local subject librarian inbetween the teaching sessions. The last course day after lunch, there will be a seminar in which the participants will give a presentation of an essay proposal. A peer candidate and the course instructors will give opposition on the proposal to identify potential improvements that should be made.

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Forms of assessment

Examination

Assessment is based on the course essay that should be about 3000 words and submitted two weeks after the last day of teaching. The essay have to be a draft of the literature review in the actual field of research including documentation of the search in two relevant databases. The essay should also contain a justified strategy for how to publish and disseminate the research to increase the visibility. Additionally, a reference management system in line with institutional (USN) and international requirements should be used in the essay. Finally, a data management plan must be attached.

The essay must include literature from the course and can be written in English, Norwegian, Danish, or Swedish.

The essay will be assessed by an external examiner and one of the course teachers.

Assessment form: accepted / not accepted.

Literature (reading list)

Literature Management and Scientific Communication (PHDLMSC), USN Høst19

[Click to view interactive reading list in Leganto](#)

Literature management

ARTICLE	Meeting the review family: exploring review types and associated information retrieval requirements Sutton, Anthea ; Clowes, Mark ; Preston, Louise ; Booth, Andrew, Total Pages 202-222, Health Information & Libraries Journal Health Information & Libraries Journal, 3, 36, 2019-09-01, 202-222, View online
ARTICLE	Ten Simple Rules for Writing a Literature Review Pautasso, M., PLoS Computational Biology PLoS Computational Biology, 7, 9, 2013, 1-4, View online

ARTICLE	<p>A guide to writing the dissertation literature review Randolph, J. J., Practical Assessment, Research & Education Practical Assessment, Research & Education, 13, 14, 2009, 1-13, View online</p>
ARTICLE	<p>Using nvivo™ for literature reviews: The eight step pedagogy (N7+1) O'neill, M. ; Booth, S. ; Lamb, J., Nova Southeastern University, Total Pages 24-39, Qualitative Report Qualitative Report, 13, 23, 2018, 24-39, View online</p>
BOOK	<p>Telling a research story : writing a literature review Feak, Christine B., Swales, John,; Swales, John, [Ann Arbor, Mich.], University of Michigan Press, Total Pages XIV, 98 s., cop. 2009, isbn: 9780472033362,</p>
Data management	
ARTICLE	<p>Data reuse and the open data citation advantage Piwowar, Heather A. ; Vision, Todd J., PeerJ. Ltd., Total Pages e175, PeerJ PeerJ, 1, 1, 2013, 1-25, View online</p>
ARTICLE	<p>Cloudy, increasingly FAIR; revisiting the FAIR Data guiding principles for the European Open Science Cloud Mons, B. et al., Information Services and Use Information Services and Use, 1, 37, 2017, 49-56, View online</p>
BOOK CHAPTER	<p>Research Methodology: An Introduction. (e-book) Kothari, C. R., C.R. Kothari, Research Methodology: Methods and Techniques, 2004, 1-23, isbn: 9788122424881, View online</p>
BOOK CHAPTER	<p>Getting Started Designing a Project Leavy, Patricia, Leavy, Patricia,, Research design : quantitative, qualitative, mixed methods, arts-based, and community-based participatory research approaches /, New York, New York ;, The Guilford Press,, Total Pages 1 online resource (321 pages), 2017, 54-84, isbn: 9781462530038, View online</p>
BOOK CHAPTER	<p>Quantitative Research Design Leavy, Patricia, Leavy, Patricia, Research design : quantitative, qualitative, mixed methods, arts-based, and community-based participatory research approaches /, New York, New York ;, The Guilford Press,, Total Pages 1 online resource (321 pages), 2017, 87-123, isbn: 9781462530038, View online</p>
BOOK CHAPTER	<p>Qualitative Research Design Leavy, Patricia, Leavy, Patricia,, Research design : quantitative, qualitative, mixed methods, arts-based, and community-based participatory research approaches /, New York, New York ;, The Guilford Press,, Total Pages 1 online resource (321 pages), ©2017, 124-163, isbn: 9781462530038, View online</p>
ARTICLE	<p>Ten Simple Rules for Creating a Good Data Management Plan Michener, William K, Bourne, Philip E. (Editor), San Francisco, CA USA, Public Library of Science, Total Pages e1004525, 10, 11, 2015-10-22, 1-9, View online</p>
ELECTRONIC ARTICLE	<p>The Evolution of Data Citation: From Principles to Implementation Crosas, Mercè, Total Pages 62-70, IASSIST Quarterly IASSIST Quarterly, 1, 37, 2014-05-26, 62-70, View online</p>

Publishing

- ARTICLE **Bibliometrics: The Leiden Manifesto for research metrics**
Hicks, D. et al., Nature Nature, 7548, 520, 2015, 429-431,
[View online](#)
-
- ARTICLE **Peer Review: Recent Experience and Future Directions**
Ware, M., New Review of Information Networking New Review of Information Networking, 1, 16, 2011,
23-53,
-
- ARTICLE **'Predatory' open access: a longitudinal study of article volumes and market characteristics**
Shen, C. and Björk, B.-C., BMC Medicine BMC Medicine, 13, 2015,
[View online](#)
-
- ARTICLE **Do altmetrics point to the broader impact of research? An overview of benefits and disadvantages of altmetrics**
Bornmann, Lutz, Elsevier Ltd, Total Pages 895-903, Journal of Informetrics Journal of Informetrics, 4, 8,
2014-10, 895-903,
[View online](#)
-
- ARTICLE **Publishing in Academia: Woes of Authorship, Figures, and Peer Review**
Sadler, Theodore R, Los Angeles, CA, SAGE Publications, Total Pages 145-150, Therapeutic Innovation &
Regulatory Science Therapeutic Innovation & Regulatory Science, 2, 45, 2011-03, 145-150,
[View online](#)
-
- ARTICLE **Are Female Researchers Less Cited? A Large-Scale Study of Norwegian Scientists**
Aksnes, Dw ; Rorstad, K ; Piro, F ; Sivertsen, G, WILEY-BLACKWELL, Total Pages 628-636, Journal Of The
American Society For Information Science And Technology Journal Of The American Society For
Information Science And Technology, 4, 62, 2011-04, 628-636,
[View online](#)
-
- ARTICLE **The effect of highly cited papers on national citation indicators**
Aksnes, Dag ; Sivertsen, Gunnar, Dordrecht, Kluwer Academic Publishers, Total Pages 213-224,
Scientometrics Scientometrics, 2, 59, 2004-02, 213-224,
[View online](#)
-
- ARTICLE **Negative results are disappearing from most disciplines and countries**
Fanelli, Daniele, Dordrecht, Springer Netherlands, Total Pages 891-904, Scientometrics Scientometrics,
3, 90, 2012-03, 891-904,
[View online](#)
-
- ARTICLE **Making the future of scholarly communications**
Hill, Steven A., Chichester, UK, John Wiley & Sons, Ltd, Total Pages 366-370, Learned Publishing
Learned Publishing, supplement S1, 29, 2016, 366-370,
[View online](#)
-
- ARTICLE **Publication patterns in the social sciences and humanities: evidence from eight European countries**
Kulczycki, Emanuel ; Engels, Tim ; Pölönen, Janne ; Bruun, Kasper ; Dušková, Marta ; Guns, Raf ;
Nowotniak, Robert ; Petr, Michal ; Sivertsen, Gunnar ; Istenič Starčič, Andreja ; Zuccala, Alesia, Cham,
Springer International Publishing, Total Pages 463-486, Scientometrics Scientometrics, 1, 116, 2018-07,
463-486,
[View online](#)
-
- BOOK CHAPTER **Prologue to a science of science**
Price, D., Price, Derek John de Solla, Little science, big science ...and beyond, New York, Columbia
University Press, Total Pages xxiii, 301 s., 1986, 1-29, isbn: 0231049579,
[View online](#)
-

ARTICLE **Intended and unintended consequences of a publish-or-perish culture: A worldwide survey**
Van Dalen, Hendrik P. ; Henkens, Kène, Total Pages 1282-1293, Journal of the American Society for Information Science and Technology Journal of the American Society for Information Science and Technology, 7, 63, 2012-07, 1282-1293,
[View online](#)

Other resources

WEBSITE **PhD on Track**

[View online](#)

WEBSITE **Cristin**

Current Research Information System in Norway,
[View online](#)

WEBSITE **The Norwegian Register for Scientific Journals, Series and Publishers**

Norwegian Centre for Research Data (NSD),
[View online](#)

WEBSITE **About authorship and co-authorship**

The Norwegian National Research Ethics Committees,
[View online](#)

WEBSITE **The Vancouver recommendations**

The Norwegian National Research Ethics Committees,
[View online](#)

WEBSITE **Open Access explained**

2012,
[View online](#)

WEBSITE **USNs Open Access Policy**

[View online](#)

WEBSITE **Supplementary guidelines for Open Access at USN**

[View online](#)

WEBSITE **About Creative Commons licenses**

[View online](#)

WEBSITE **USN Databases**

[View online](#)

WEBSITE **Reference tools**

[View online](#)