

Course plan for Theory of Science and Research Ethics

Course code PHDTSRE

Credits: 7.5

Number of semesters: 1 semester

Applies to: Course start autumn 2021

Teaching language: Norwegian

Responsible: Faculty of Humanities, Sports and Educational Science

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Academic content in course

This course takes as its point of departure a wide approach to questions arising from the theory and philosophy of science, drawing, in the context of these, upon the participants' own research projects. The course is made up of two parts: (1) theory of science, with an emphasis on the social sciences, humanities and creative aesthetic practices, and (2) ethical theories and concerns as they apply to science. In addition, the course deals with theoretical and ethical questions that arise with forms of knowing generated through experience, action and practice.

This course aims to promote critical reflection on established traditions of science, research and creative practice, together with critical awareness of ethical concerns pertaining to scientific practices.

Debate in contemporary research in the humanities and social sciences will underlie the variety of perspectives on the philosophy of science, as well as research ethics, presented, and serve as well to create greater insight into the research problematics of the past, present and future.

Learning outcome

Learning Outcomes

Knowledge

The candidate will

- ◆ have a thorough knowledge about the philosophy of science and research ethics as they relate to his or her field of research
- ◆ have insight into the epistemological and ontological assumptions that underlie different research and knowledge traditions
- ◆ be able to critically reflect on the basis for scientific findings that build upon different theoretical and research approaches

Skills

The candidate will be able to

- ◆ critically apply his or her knowledge and understanding of relevant epistemological, theoretical and ethical issues to his/her formulation and design of scholarly, scientific and creative projects
- ◆ critically evaluate the researcher's importance as an actor in the production of knowledge
- ◆ participate in scientific discussions in a way that satisfies the requirements for precision, reliability, credibility and integrity

General competence

The candidate will be able to

- ◆ identify ethical challenges in research and his or her field of action and practice research with professional integrity
- ◆ present scientific knowledge and critically reflect on the relevance of this knowledge and its applicability
- ◆ describe, analyze and critically reflect over problems from the fields of practice related to scientific knowledge
- ◆ judge the scientific or creative merit of their own and others' work and projects, and be able to communicate his or her assessments to colleagues and to the community at large

Learning activities

Learning activities

The course is comprised of approximately 30 total hours of teaching for both the Theory of Science and Research Ethics portions of the course. Other classroom activities include discussions of the readings, panel discussion and colloquia, in which students will present their own work.

Each student will have to submit a one-page proposal on the topic of his or her essay prior to its presentation. A course instructor will provide feedback to each student on his or her proposal.

Essay seminar

Each student will give a presentation of about 20 minutes on the theme chosen for his or her essay, with particular emphasis on the relevance of the essay for his or her own research work. The student's course advisor will be responsible for approving his or her presentation in the essay

Examination

Assessment

The grade for the course is based on the essay submitted, and active participation and attendance in the course. The minimal requirement for a pass is that the essay, on a scale of A (excellent) to F (fail), would

receive at least a grade of B (very good). Class attendance (80% min.) and active participation during the course will be graded as 'approved' or 'not approved'.

The essay will be assessed by one internal and one external examiner.

Course essay

The essay should be a maximum of 4500 words. The topic should relate to each student's own research. At least some of the literature should be chosen from the readings. The essay can be written in English, Norwegian, Danish or Swedish.

Literature (reading list) **A new readinglist will be published later**

Theory of Science and Research Ethics (PHDTSRE)

List of required (approx. 500 pages) and supplemental readings (approx. 250 pages)

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

Required reading 2019. **A new readinglist will be published later.**

BOOK	Reflexive methodology : new vistas for qualitative research Alvesson, Mats, Sköldbberg, Kaj, Los Angeles, California, SAGE, Total Pages 254, 2018, isbn: 9781473964242, <i>Chapter 2, 4, 5, 6 and 7.</i>
BOOK	Theory and reality : an introduction to the philosophy of science Godfrey-Smith, Peter, Chicago, Ill., University of Chicago Press, Total Pages 159, 2003, isbn: 9780226300634, <i>Chapter 1 - 9, and 13</i>
ELECTRONIC ARTICLE	The Development of Epistemological Theories: Beliefs About Knowledge and Knowing and Their Relation to Learning Hofer, Barbara K ; Pintrich, Paul R, Thousand Oaks, CA, Sage Publications, Total Pages 88-140, Review of Educational Research Review of Educational Research, 1, 67, 1997-03, 88-140, View online
BOOK CHAPTER	An Introduction to Research Mertens, Donna M., Research and evaluation in education and psychology : integrating diversity with quantitative, qualitative and mixed methods, Los Angeles, SAGE, Total Pages XXIII, 527 s., cop. 2010, isbn: 9781412971904,
ELECTRONIC ARTICLE	What Comes First? The Paradigm or the Approach? Mertens, Donna M, Los Angeles, CA, SAGE Publications, Total Pages 255-257, Journal of Mixed Methods Research Journal of Mixed Methods Research, 4, 6, 2012-10, 255-257, View online
BOOK	Research Ethics for Social Scientists MarkIsraël ; IainHay, London, SAGE Publications, Ltd, Total Pages 162, 2006, isbn: 9781412903905, View online
BOOK CHAPTER	A History of Qualitative Inquiry in Social and Education Research Frederick Erickson, Iphofen, Ron ; Tolich, Martin;, RonIphofen ; MartinTolich, The SAGE Handbook of Qualitative Research Ethics, 55 City Road, SAGE Publications Ltd, 2018, 35-50, isbn: 9781473970977, View online
BOOK CHAPTER	Paradigmatic Controversies, Contractions, and Emerging Confluences, Revisited Frederick Erickson, Iphofen, Ron ; Tolich, Martin;, RonIphofen ; MartinTolich, The SAGE Handbook of Qualitative Research Ethics, 55 City Road, SAGE Publications Ltd, 2018, 89-102, isbn: 9781473970977, View online

BOOK CHAPTER	Literature Review and Focusing the Research Mertens, Donna M., Research and evaluation in education and psychology : integrating diversity with quantitative, qualitative and mixed methods, Los Angeles, SAGE, Total Pages XXIII, 527 s., cop. 2010, isbn: 9781412971904,
BOOK CHAPTER	Data Analysis, Interpretation, and Use Mertens, Donna M., Research and evaluation in education and psychology : integrating diversity with quantitative, qualitative and mixed methods, Los Angeles, SAGE, Total Pages XXIII, 527 s., cop. 2010, isbn: 9781412971904,
ELECTRONIC ARTICLE	The Philosophy of Social Science. Internet Encyclopedia of Philosophy W.A. Gorton,
Supplemental reading	
BOOK	Reflexive methodology : new vistas for qualitative research Alvesson, Mats, Sköldbberg, Kaj, Los Angeles, California, SAGE, Total Pages 77, 2018, isbn: 9781473964242, <i>Chapter 8, 9 and 10.</i>
BOOK	Introduction to research in education Donald. Ary (forfatter), Ary, Donald.; Walker, David A.; Jacobs, Lucy Cheser., [Belmont, Calif.], Wadsworth Cengage Learning, Total Pages XX, 700 s., cop. 2014, isbn: 1133939619,
BOOK CHAPTER	Pleading for Plurality: Artistic and Other Kinds of Research Søren Kjørup, Michael. Biggs (redaktør/forfatter (forord)/forfatter), Biggs, Michael.; Karlsson, Henrik., The Routledge companion to research in the arts, London, Routledge, Total Pages XXX, 457 s., 2011, 24-43, isbn: 9780415697941, View online
BOOK	Systematic approaches to a successful literature review Booth, Andrew, Sutton, Anthea; Papaioannou, Diana, Los Angeles, Calif., Sage, Total Pages IX, 326 s., 2016, isbn: 978-1-4739-1246-5,
BOOK	Nøkkeltbegreper i forskningsmetode og vitenskapsteori Nyeng, Frode, Bergen, Fagbokforl, Total Pages 183 s., cop. 2012, isbn: 978-82-450-1277-4,
ARTICLE	Co-Constructing Knowledge Spheres in the Academy: Developing Frameworks and Tools for Advancing Publicly Engaged Scholarship Eatman, Timothy K ; Ivory, Gaelle ; Saltmarsh, John ; Middleton, Michael ; Wittman, Amanda ; Dolgon, Corey, SAGE Publications, Total Pages 532-561, Urban Education Urban Education, 4, 53, 2018-04, 532, View online
BOOK	Metode mellom forskning og læring : Refleksjon og praksis Hognestad, Karin ; Bøe, Marit ; Frers, Lars, Oslo, Cappelen Damm Akademisk/NOASP (Nordic Open Access Scholarly Publishing), 2017, isbn: 9788202549817, View online
BOOK	The practice of knowing and knowing in practices Molander, Bengt, Frankfurt, Peter Lang, Total Pages 315 s., 2015, isbn: 9783631669907,
BOOK	Research ethics and integrity for social scientists : beyond regulatory compliance / Israel, Mark,, Los Angeles :, SAGE,, Total Pages 1 online resource, [2016], isbn: 1-4739-1009-9, View online
BOOK	An introduction to the philosophy of methodology / Howell, Kerry E., Los Angeles :, SAGE,, Total Pages 1 online resource, [2016], isbn: 1-4739-5763-X, View online

- BOOK
CHAPTER
The Production of Knowledge
Henrik Borgdorff, Michael. Biggs (redaktør/forfatter (forord)/forfatter), Biggs, Michael.; Karlsson, Henrik., The Routledge companion to research in the arts, London, Routledge, Total Pages XXX, 457 s., 2011, 44-63, isbn: 9780415697941,
[View online](#)
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- BOOK
CHAPTER
Research and the Self
Morwenna Griffiths, Michael. Biggs (redaktør/forfatter (forord)/forfatter), Biggs, Michael.; Karlsson, Henrik., The Routledge companion to research in the arts, London, Routledge, Total Pages XXX, 457 s., 2011, 167-185, isbn: 9780415697941,
[View online](#)
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- BOOK
CHAPTER
Embodied Knowing through Art
Mark Johnson, Michael. Biggs (redaktør/forfatter (forord)/forfatter), Biggs, Michael.; Karlsson, Henrik., The Routledge companion to research in the arts, London, Routledge, Total Pages XXX, 457 s., 2011, 141-151, isbn: 9780415697941,
[View online](#)
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- BOOK
CHAPTER
Evaluating Quality in Artistic Research
M Biggs & H Karlsson, Michael. Biggs (redaktør/forfatter (forord)/forfatter), Biggs, Michael.; Karlsson, Henrik., The Routledge companion to research in the arts, London, Routledge, Total Pages XXX, 457 s., 2011, 405-424, isbn: 9780415697941,
[View online](#)
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- BOOK
The SAGE Handbook of Qualitative Research Ethics
Iphofen, Ron ;Tolich, Martin;, RonIphofen ; MartinTolich, 55 City Road, SAGE Publications Ltd, 2018, isbn: 9781473970977,
Chapter 3 - 5, 7, 10, 14, 20, 24 and 30.
[View online](#)