

## Syllabus -- 9205 – Theory of Science and Ethics – Fall 2017

### Part 1 – Theory of Science

#### Book – purchased by students:

Godfrey-Smith, Peter 2003 *Theory and Reality*.  
Chicago: The University of Chicago Press - Kap. 1-9 & 13  
ISBN-13: 978-0226300634 / ISBN-10: 0226300633 (160 pages)

#### Texts – made available in frontier:

- Duhem, Pierre. 1999 "Physical Theory and Experiment".  
In: *Scientific Inquiry: Readings in the Philosophy of Science*, ed. by Robert Klee, 59-62.  
New York: Oxford University Press. (4 pages)  
ISBN-13: 978-0195119763 / ISBN-10: 0195119762
- Hume, David. 1748 *An Inquiry Concerning Human Understanding* (excerpt). (4 pages)
- Hempel, Carl. 2000 "The Role of Induction in Scientific Inquiry".  
In: *Readings in the Philosophy of Science from Positivism to Postmodernism*, ed. by T. Schick, Jr., 41-49.  
Mountain View, CA: Mayfield Publishing Company. (8 pages)  
ISBN-13: 978-0767402774 / ISBN-10: 0767402774
- Popper, Karl. 2000 "The Problem of Induction".  
In: *Readings in the Philosophy of Science from Positivism to Postmodernism*, ed. by T. Schick, Jr., 49-52.  
Mountain View, CA: Mayfield Publishing Company (3 pages)  
ISBN-13: 978-0767402774 / ISBN-10: 0767402774
- Feyerabend, Paul. 1999 "An Argument Against Method".  
In: *Scientific Inquiry: Readings in the Philosophy of Science*, ed. by Robert Klee, 228-235.  
New York: Oxford University Press. (8 pages)  
ISBN-13: 978-0195119763 / ISBN-10: 0195119762
- Bloor, David. 1999 "The Strong Programme in the Sociology of Science".  
In: *Scientific Inquiry: Readings in the Philosophy of Science*, ed. by Robert Klee, 241-250.  
New York: Oxford University Press. (9 pages)  
ISBN-13: 978-0195119763 / ISBN-10: 0195119762

- Hempel, Carl. 1998 "Two Basic Types of Scientific Explanation".  
In: *Philosophy of Science: The Central Issues*, ed. by M. Curd and J. A. Cover, 685-690.  
New York: Norton. (6 pages)  
ISBN-13: 978-0393919035 / ISBN-10: 9780393919035
- Mandelbaum Maurice. 1974 "The Problem of 'Covering Laws'".  
In: *The Philosophy of History*, ed. by P. Gardiner, 51-65.  
Oxford: Oxford University Press. (15 pages)  
ISBN-10: 0198750315 / ISBN-13: 978-0198750314
- von Wright, G. H. 1971 *Explanation and Understanding*, s. 1-10  
New York, Cornell University Press  
ISBN 0-7100-7219-8 (10 pages)
- Habermas, Jürgen. 1971 " Knowledge and human interests: a general perspective".  
In: *Knowledge and Human Interests*, trans. Jeremy J. Shapiro, 301-317. Boston: Beacon Press. (16 pages)  
ISBN-10: 0807015415 / ISBN-13: 978-0807015414
- Weber, Max. 1994 "'Objectivity' in Social Science and Social Policy",  
In: Michael Martin & Lee C. McIntyre (eds.), *Readings in the Philosophy of Social Science*, 535-545  
Cambridge, MA: The MIT Press  
ISBN: 0-262-63151-2 (10 pages)
- Ingthorsson, R. D. 2016 "There's No Truth-theory like the Correspondence Theory",  
*Discusiones Filosóficas*, forthcoming in Jan-Jun issue  
[available online:  
[https://www.academia.edu/343454/Theres\\_no\\_Truth\\_Theory\\_Like\\_the\\_Correspondence\\_Theory](https://www.academia.edu/343454/Theres_no_Truth_Theory_Like_the_Correspondence_Theory)] (21 Pages)
- Ingthorsson, R. D. 2013 "The Natural vs. Human Sciences: Myth, Methodology, and Ontology", *Discusiones Filosóficas* 22(1): 13–29.  
[available online:  
[https://www.academia.edu/3553833/The\\_Natural\\_vs.\\_The\\_Human\\_Sciences\\_Myth\\_Methodology\\_and\\_Ontology](https://www.academia.edu/3553833/The_Natural_vs._The_Human_Sciences_Myth_Methodology_and_Ontology)] (13 pages)

## **Part 2 – The Making Disciplines**

### **Texts – made available in frontier**

Carlsen, K. (2015). *Forming i barnehagen i lys av Reggio Emilias atelierkultur*. Åbo: Åbo Akademis Förlag.

[https://www.doria.fi/bitstream/handle/10024/103745/carlsen\\_kari.pdf?sequence=2](https://www.doria.fi/bitstream/handle/10024/103745/carlsen_kari.pdf?sequence=2)  
(s.111–117, 148–159, 168–173) 22 pages

Biggs, M., & Karlsson, H. (2011) Editors' preface. I: M. Biggs & H. Karlsson (Red.), *The Routledge companion to research in the arts*. London Routledge Tilgang via [oria.no: http://site.ebrary.com/lib/telem/docDetail.action?docID=10428053](http://site.ebrary.com/lib/telem/docDetail.action?docID=10428053) (S. X-XVI.)

Biggs, M. & Karlsson, H. (2011). Evaluating Quality in Artistic Research. I: M. Biggs & H. Karlsson (Red.), *The Routledge Companion to research in the arts*, London: Routledge. (s. 405-425).

Dunin-Woyseth, Halina, & Michl, Jan. (2001). Towards a disciplinary identity of the making professions: an introduction. In Halina Dunin-Woyseth & Jan Michl (Eds.), *Towards a Disciplinary Identity of the Making Professions*. The Oslo Millennium Reader. Oslo: Oslo School of Architecture. (s. 1-21)

Dyrssen, C. (2011) Navigating in Heterogeneity: Architectural thinking and art based I: M. Biggs & H. Karlsson (Red.), *The Routledge companion to research in the arts*. London Routledge. Tilgang via [oria.no http://site.ebrary.com/lib/telem/docDetail.action?docID=10428053](http://site.ebrary.com/lib/telem/docDetail.action?docID=10428053) (S. 223-239).

Frayling, C. (1993/94). Research in art and design. *Royal College of Art research paper*, 1(1). 1-9

Grand, S. & Jonas, W. (2012). Exploring the swampy ground. An inquiry into the logic of design research, in *Mapping design research*. Basel: Birkhäuser.

Groth C. and Mäkelä, M. (2016) The Knowing Body in Material Exploration. *Studies in Material Thinking*, Vol 14 (2016) <https://www.materialthinking.org/papers/220>.

Molander, B. (2015): Kapittel: "Participating in Knowledge – With good reasons". I: *The Practice of Knowing and Knowing in Practices*. Frankfurt am Main: Peter Lang. (pdf copy available on Fronter)

Nilsson, F. (2013). "Knowledge in the Making. On Production and Communication of Knowledge in the Material Practices of Architecture." *FORMakademisk* 6(2): 1-13. <http://dx.doi.org/10.7577/formakademisk.569>.

Nimkulrat, N. Seitamaa-Hakkarainen, P., Pantouvaki, S. and de Freitas, N. (2016): "Experience, Materiality and Articulation in Art/Design and Research Practices" in *Studies in Material Thinking*, Vol 14 (2016) <https://www.materialthinking.org/papers/218>.

Niederer, K. (2013) "Explorative Materiality and Knowledge - The Role of Creative Exploration and Artefacts in Design Research." *FORMakademisk* 6(2) s.1-20 <https://journals.hioa.no/index.php/formakademisk/article/view/651/613>.

Riis, K: Designkundskabens DNA. Udforskning af designkundskab gennem designprocessen Mit DNA. (ph.d.-afhandling. Norge: NTNU) Chapters 1 & 2. <http://hdl.handle.net/11250/2393093>.

### **Suggested readings (not available in fronter)**

Barone, Tom, & Eisner, Elliot W. (2012). *Arts based research*. Los Angeles, Calif.: Sage.

Goossens W., Hendrickx, A. and Janssens, N. (2016) A Case of Poetic Measuring: Isopleth. *Studies in Material Thinking*, Vol 14 (2016) <https://www.materialthinking.org/papers/219>

Halvorsen, E. M. (2007) *Kunstfaglig og pedagogisk FoU : Nærhet - distanse - dokumentasjon* Kristiansand Høyskoleforlaget

Johnson, M (2011) Embodied Knowing Through Art I: M. Biggs & H. Karlsson (Red.), *The Routledge companion to research in the arts*. London Routledge London Routledge Tilgang via [oria.no](http://oria.no)  
<http://site.ebrary.com/lib/telem/docDetail.action?docID=10428053> (S. 141-151.)

Pink, S. (2007). *Doing Visual Ethnography: Images, Media and Representation in Research*. London: Sage.

### **Part 3 – The Ethics of Science and Research**

#### **Book – purchased by students:**

Israel, Mark & Iain Hay, *Research Ethics for Social Scientists* (London: Sage Publications, 2006) – ISBN10 1 4129 0390 4 [145 pages]

#### **Texts – made available in fronter**

Lekka-Kowalik, Agnieszka, "Why Science Cannot Be Value-Free. Understanding the Rationality and Responsibility of Science." *Science and Engineering Ethics* 16 (2010), pp. 33-41). -- [http://download-v2.springer.com/static/pdf/632/art%253A10.1007%252Fs11948-009-9128-3.pdf?token2=exp=1431527551~acl=%2Fstatic%2Fpdf%2F632%2Fart%25253A10.1007%25252Fs11948-009-9128-3.pdf\\*~hmac=d55e16591c07ae77c8f1aed9e57db6e98948bf33a824344dfc716d6043fa58db](http://download-v2.springer.com/static/pdf/632/art%253A10.1007%252Fs11948-009-9128-3.pdf?token2=exp=1431527551~acl=%2Fstatic%2Fpdf%2F632%2Fart%25253A10.1007%25252Fs11948-009-9128-3.pdf*~hmac=d55e16591c07ae77c8f1aed9e57db6e98948bf33a824344dfc716d6043fa58db)

Alison Wylie, "The Feminism Question in Science: What Does It Mean to 'Do Social Science as a Feminist'?", in Daniel Steel & Francesco Guala (eds.), *The Philosophy of Social Science Reader* (London: Routledge, 2011), pp. 51-61.

Resnik, David B. 1998. "Standards of Ethical Conduct in Science." In David B. Resnik, *The Ethics of Science. An Introduction* (London: Routledge, 1998), pp. 53-73.

Carlson, Allen. 2000. "Is Environmental Art an Aesthetic Affront to Nature?" In A. Carlson. *Aesthetics and the Environment. The Appreciation of Nature, Art and Architecture*. (London: Routledge, 2000), pp. 150-163.

Fox, Warwick, "Towards an Ethics (or at Least a Value Theory) of the Built Environment." In *Ethics and the Built Environment*, edited by Warwick Fox, 207-221. (London: Routledge, 2000), pp. 207-221.

Carrol, Noël, "Art and Ethical Criticism: An Overview of Recent Directions of Research." *Ethics* 110 (2000), pp. 350-387.