

# TIK4001:DETAILED TEACHING SCHEDULE

## Modul 1: The emergence of the knowledge society

Module 1 is an introductory module which partly presents the historical background of the academic field which is covered by the master programme. The intention is that students should become familiar with how a new scientific field emerges as part of the wider social, political and academic context. This will be discussed during week 1.

The remaining part of the module (week 2 and 3) discuss how new knowledge is developed and used in modern society. We start by discussing how science emerged as a social activity in Europe from the Scientific Revolution and how science became institutionalised by establishment of new organisations undertaking research. This is followed (week 3) by discussion of learning processes which contribute to development and use of other types of knowledge. These types of knowledge remain important for production (economy) and many other social activities.

Due to absence of teaching staff during most of the semester, we will this year present a wider perspective on innovation and economic change during week 3. This involves the use of both scientific and other types of knowledge in economic processes.

### Week 34: The emergence of a new scientific area

23.8	10.15-12	Introduction- Understanding knowledge in a modern society	Olav Wicken	Mokyr 1994 (B)
	13-14	Practicalities	Ronny Tveite- Strand	
24.8	0915-11	Science in Society. Why and how?	Kristin Asdal	Asdal et al (2007) Williams and Edge (K) Fagerberg 2005 (B)
25.8		Reading day		
26.8	10.15- 12.00	Innovation – concepts and approaches	Jan Fagerberg	Handbook ch 1. Kline and Rosenberg Cohen and Levinthal
	13.15- 15.00	Schumpeter – The Innovation Theorist	Jan Fagerberg	Fagerberg 2003 Freeman & Perez Nelson and Winther
27.8	10.15- 12.00	Neoclassical, Neo- Schumpeterian and Evolutionary Perspectives on Innovation and Policy	Jan Fagerberg	Fagerberg 2003, Freeman & Perez, Nelson and Winther

### Week 35 (30.8-3.9): The scientific revolution and the building of institutions for the development of science

		<b>Lecturer</b>	<b>Topic</b>	<b>Readings</b>
Mon 30 Aug	9.15- 11.00	Sissel Myklebust	The scientific revolution	Shapin (1999) Shapin og Schaffer (1985) Tønneson (1985)
Tue 31 Aug	9.15- 11.00	Sissel Myklebust	Building of institutions, networks and systems	James McClellan III (2003) Thomas Hughes (1987) Mowery and Rosenberg 1989
Wed 1 Sep			Reading day	
Thu 2 Sep	9.15- 11.00	Sissel Myklebust	The making of research policy	John D.Bernal (1946)  Vannevar Bush (1945)
Fri 3 Sep	9.15- 11.00	Sissel Myklebust	Workshop: What is science, applied science and research?	

### **Week 36: Useful knowledge**

6.9	9.15- 11.00	Olav Wicken	A cultural approach: "Useful knowledge"	Mokyr 1994 O'Brian 2003 Berg og Bruland 1998
7.9	9.15- 11.00	Olav Wicken	Learning as a social or interactive process	Mokyr 1994
Wed				
9.9	9.15- 11.00	Olav Wicken	Transfer of knowledge and industrialisation processes	Mokyr 1994 Bruland 1989, 1998
10.9	9.15- 11.00	Olav Wicken	Workshop: Different types of learning and knowledge	

### **BØKER**

Fagerberg, Jan (2005), *Oxford Handbook of Innovation Studies (introduction)*

Mokyr, Joel (1994). *The Lever of Riches: Technological Creativity and Economic Progress*. Oxford: Oxford University Press (paperback)

Shapin (1998), *The Scientific Revolution*

Punch, Keith F (2006), *Introduction to Social Research. Quantitative and Qualitative Approaches*, SAGE Publications

## **ARTIKLER**

Bernal, John D. (1946): *The Social Function of Science*, s. 1-12 og 385-416.

Bush, Vannevar (1945): *Science: The Endless Frontier : A Report to the President*, ss1-7, 10-11, 65-71, 74-83.

Hughes, Thomas (1987): "The Evolution of Large Technological Systems", Bijker, W.E. et.al. (red.) : *The Social Construction of Technological System.s*-51-82 .

McClellan, James (2003) : "Scientific Institutions and the Organization of Science." *The Cambridge History of Science* , Vol 4 , s. 87-107.

Mowery, D. and Rosenberg, N., "The growing role of science in the innovation process, I Technology and the pursuit of economic growth, ss 21-34

Tønneson, Kåre (1985): "Vitenskap" , *Aschehougs Verdenshistorie*, Bind 10, s. 133-149.

Hughes T., (1984), Large technological systems, in Bijker et al (eds.) *The Social construction of technological systems: new directions in the sociology and history of technology* , **pp. 51 – 82**

Mowery, David C., & Rosenberg, Nathan; *Ch. 2: The Growing Role of Science in the Innovation Process in Technology and the Pursuit of Economic Growth* 198, pp. 21 – 34

Shapin, S. and S. Schaffer (1985). "Seeing is Believing" (Ch. 2) in *Leviathan and the air-pump: Hobbes, Boyle, and the experimental life*, Princeton, N. J., Princeton University Press, pp. 22-79 (58 pages).

Williams, Robin and Edge, David, "Social Shaping of Technology"

Naubahar Sharif (2006), "Emergence and development of the National Innovation Systems concept", *Research Policy* vol 35, pp. 745-766

Keith Smith and Lynn Mytelka (2002), "Policy learning and innovation theory: an interactive and co-evolving process, *Research Policy*, pp 1467-1479

## Modul 2: Producing Knowledge –

Modul coordinator: Göran Sundqvist

### Week 37 (13.9-17.9): STS – general introduction (9.15-11.00 Monday-Friday)

Date	Lecturer	Lecture	Readings
Mon 13 Sep	Sissel Myklebust	Course introduction STS Pre-history	Merton (1942/1973) Kuhn (1977) Asdal, Brenna & Moser (2007: 7-53)
Tue 14 Sep	Sissel Myklebust	Acting in an Uncertain World	Callon et al (2009)
Wed 15 Sep		Reading day	
Thu 16 Sep	Göran Sundqvist	Method: Symmetry and Controversies	Collins & Pinch (1998), Int. and Con.
Fri 17 Sep	Göran Sundqvist	Analyzing Expertise	Collins & Pinch (1998). Chs 1-5

### Week 38 (20.9-24.9): SSK and SCOT (9.15-11.00 Monday-Friday)

Date	Lecturer	Lecture	Readings
Mon 20 Sep	Göran Sundqvist	Sociology of Scientific Knowledge (SSK)	Bloor (1973) Collins (1975 & 1981)
Tue 21 Sep	Göran Sundqvist	Social Construction of Technology (SCOT)	Pinch & Bijker (1984)
Wed 22 Sep		Reading day	
Thu 23 Sep	Ásdís Jonsdóttír	Method: Field Studies	de Laet & Mol (2007) Marcus (1995)
Fri 24 Sep	Invited lecture: Tommaso Venturini	Mapping Controversies	Venturini (2010)

### Week 39 (27.9-1.10): Laboratory Studies, ANT and Feminist Studies

Date	Lecturer	Lecture	Readings
Mon 27 Sep	Kristin Asdal	Laboratory Studies	Latour & Woolgar (1979/1986) Latour (1983) Knorr-Cetina (1995)
Tue 28 Sep	Ásdís Jonsdóttír	Actor Network Theory (ANT)	Latour (1987) Callon (2007) Law (1992) Moser & Law (2007)
Wed 29 Sep	Göran Sundqvist	Workshop: Analyzing Expertise in an Uncertain World: Teknologirådet	
Wed 29 Sep NB! 14.00- 16.00	Göran Sundqvist	Excursion: Teknologirådet	

Thu 30 Sep	University Library	TBA	TBA
NB! 10.15-12.00			
Fri 1 Oct	Göran Sundqvist	Summing Up	Haraway (2007)

**Week 40: 1.10-8.10:**

**Essay 1 –( hand in October 8<sup>th</sup>.)**

**Literature:**

Books:

Asdal, K, Brenna, B. & Moser, I. (eds) (2007) *Technoscience: The Politics of Intervention*. Oslo: Unipub.

Collins, H & Pinch, T. (eds) (1998) *The Golem at Large: What You Should Know about Technology*. Cambridge: Cambridge University Press.

Chapters in compendium:

Knorr-Cetina, K. (1995) 'Laboratory studies: The cultural approach to the study of science' in Sheila Jasanoff et al (eds) *Handbook of Science and Technology Studies*, London, Sage, pp. 140-166.

Kuhn, T.S. (1977) *The Historical Structure of Scientific Discovery*, pp. 165-177, in Kuhn, T.S., *The Essential Tension*. Chicago: The University of Chicago Press.

Latour, B. (1983) 'Give me a laboratory and I will raise the world', 141-170.

Latour, B. (1987) *Science in Action: How to Follow Engineers and Scientists through Society*. Cambridge, Mass.: Harvard University Press. Introduction, pp. 1-17; chapter 2, pp. 63-100; chapter 3, pp. 103-144.

Latour, B. & Woolgar, S. (1979/1986) *Laboratory Life: The Construction of Scientific Facts*. Princeton, NJ: Princeton University Press. Chapter 2, pp. 43-90; Postscript, pp. 273-286.

Merton, R.K. (1942/1973) 'The Normative Structure of Science', pp. 267-280 in Merton, R. K., *The Sociology of Science*. Chicago: Chicago University Press.

Articles to download:

Bloor, D. (1973) 'Wittgenstein and Mannheim on the Sociology of Mathematics'. *Studies in History and Philosophy of Science* 4(2): 173-191 (19pp)

[http://www.sciencedirect.com/science?\\_ob=PublicationURL&\\_tockey=%23TOC%235828%231973%23999959997%23322055%23FLP%23&\\_cdi=5828&\\_pubType=J&\\_auth=y&\\_acct=C000036598&\\_version=1&\\_urlVersion=0&\\_userid=674998&md5=d3a1a706f90dc5bcdd50ef768cc81688](http://www.sciencedirect.com/science?_ob=PublicationURL&_tockey=%23TOC%235828%231973%23999959997%23322055%23FLP%23&_cdi=5828&_pubType=J&_auth=y&_acct=C000036598&_version=1&_urlVersion=0&_userid=674998&md5=d3a1a706f90dc5bcdd50ef768cc81688)

Callon, M., Lascoumes, P. & Barthe, Y. (2009) *Acting in an Uncertain World: An Essay on Technical Democracy*. Cambridge, Mass.: The MIT Press, pp 1-36 (36pp)

<http://mitpress.mit.edu/catalog/item/default.asp?tttype=2&tid=11748&mode=toc>

Collins, H.M. (1975) 'The Seven Sexes: A Study in the Sociology of a Phenomenon, or the Replication of Experiments in Physics'. *Sociology* 9 (2): 205-224.

<http://soc.sagepub.com/cgi/reprint/9/2/205>

Collins, H.M. (1981) 'Introduction: Stages in the Empirical Programme of Relativism'. *Social Studies of Science* 11(1): 3-10.

<http://www.jstor.org/stable/284733>

Law, J. (1992) 'Notes on the Theory of the Actor Network: Ordering, Strategy and Heterogeneity', published by the Centre for Science Studies, Lancaster University, Lancaster LA1 4YN.

<http://www.comp.lancs.ac.uk/sociology/papers/Law-Notes-on-ANT.pdf>

Marcus, G. (1995) 'Ethnography in/of the World System: the Emergence of Multi-Sited Ethnography', *Annual Review of Anthropology* 24: 95-117. (23pp)

<http://www.jstor.org/stable/i311433>

Pinch, T.J. & Bijker, W. (1984) 'The Social Construction of Facts and Artefacts: or How the Sociology of Science and the Sociology of Technology might Benefit Each Other'. *Social Studies of Science* 14(3): 399-441

<http://www.jstor.org/stable/285355>

Venturini, Tommaso (2010) "Diving in Magma: How to Explore Controversies with Actor-Network Theory". *Public Understanding of Science* 19: 258-273.

<http://pus.sagepub.com/content/19/3/258.full.pdf+html>

### Module 3: Innovation

Module coordinator: Magnus Gulbrandsen

Module description: The aim of these two weeks is to give a more thorough introduction to the topic of innovation, introduced by Fagerberg's lectures in Module 1. The students will learn more about innovation systems and their development, the process of innovation, definitions and indicators of innovation, as well as innovation policy. Emphasis is on the case of Norway. The module also includes a full day with key actors in innovation policy-making in Norway.

#### Week 41+42:

Date		Topic	Lecturer	Reading list
Mon 11.10	10.15- 12.00	The development of the Norwegian innovation system	Olav Wicken	FMV chapter 1 and 2 Oxford Handbook chapter 7
Tues 12.10	10.15- 12.00	The role of government for R&D and innovation: a historical perspective	Olav Wicken	FMV chapter 4 and 13
Wed		Reading day		
Thur 14.10	10.15- 12.00	Definitions and measurement of innovation	Magnus Gulbrandsen	Abernathy & Clark (1985), OECD's Oslo Manual (latest version), Oxford Handbook chapter 6, Godin (2008)
Fri 15.10	10.15- 12.00	Processes of innovation	Magnus Gulbrandsen	Kline & Rosenberg (1986), Balconi et al (2010)
Mon 18.10	10.15- 12.00	Systemic perspectives on innovation	Magnus Gulbrandsen	Oxford Handbook chapter 7, 14, 15 and 16
Tue 19.10	10.15- 12.00	Public R&D organisations and innovation	Magnus Gulbrandsen	FMV chapter 3, 11 and 12
Wed		Reading day		
Thu 21.10	10.15- 12.00	Innovation policy	Magnus Gulbrandsen	Oxford Handbook chapter 22, NHD (2003), NHD (2008-9)
Fri 22.10	10.00- 15.00	Innovation policy in practice (Excursion NFR)	Magnus Gulbrandsen/NFR	Organised by the Research Council of Norway

**Reading list:**

FMV: Fagerberg, J., D.C. Mowery & B. Verspagen (2009), *Innovation, Path Dependency and Policy: the Norwegian Case*. Oxford: Oxford University Press. For this module the required chapters are 1, 2, 3, 4, 11, 12 and 13.

Oxford Handbook: Fagerberg, J., R.R. Nelson & D.C. Mowery (2006), *The Oxford Handbook of Innovation*. Oxford: Oxford University Press. Required chapters for this module are 6, 7, 14, 15 and 16 (plus chapter 1 from Module 1).

Abernathy, W.J. & K.B. Clark (1985), Innovation: mapping the winds of creative destruction, *Research Policy*, 14:3-22 (available online).

Balconi, M., S. Brusoni & L. Orsenigo, In defence of the linear model: an essay, *Research Policy*, 39:1-13 (available online).

Godin, Benoît, *Innovation: the history of a category*. Paper no 1, Project on the intellectual history of innovation. Available online at <http://www.csiic.ca/innovation.html>.

Kline, S.J. & N. Rosenberg, An overview of innovation. In Landau, R. & N. Rosenberg, *The Positive Sum Strategy: Harnessing Technology for Economic Growth*, pp. 275-305 (also available for free reading on Google Books).

NHD (2003), *Fra idé til verdi. Regjeringens plan for en helhetlig innovasjonspolitik*. Oslo: Nærings- og handelsdepartementet (nedlastbar fra [nhd.dep.no](http://nhd.dep.no)).

NHD (2008-9), *Et nyskapende og bærekraftig Norge*. Oslo: Nærings- og handelsdepartementet, Stortingsmelding nr 7 (2008-2009) (nedlastbar fra [nhd.dep.no](http://nhd.dep.no)).

Oslo-manualen: *The measurement of scientific and technological activities. Proposed guidelines for collecting and interpreting technological innovation data. Oslo manual*. Paris: OECD/Eurostat/European Commission (available online at [www.oecd.org](http://www.oecd.org)).

## Module 4: Managing knowledge and innovation

*Module tutor: Jarle Moss Hildrum*

The aim of this module is to provide the students with an introduction to how organizations manage knowledge and innovation. During the lectures the students will be introduced to theoretical topics such as knowledge management, organizational learning, innovation process management and the supervision of knowledge-intensive collaborations. The students will learn how firms can use concepts from advertising and design to facilitate innovation. We will also study how a number of external factors – such as markets and user communities - affect knowledge creation processes within private firms. In relation to this, we will examine the ways in which high-technology firms involve lead-users directly in the product development process, and how ideas from advertising might be used to promote innovation. Moreover, we will look into the topic of inter-organizational innovation ventures, exploring how firms organise knowledge-intensive collaborations with Universities and foreign partners. Finally, the module incorporates three methodological lectures, focusing on practical ways of planning and carrying out empirical research for a master thesis.

Modul 4: Managing knowledge and innovation				
Week 43: Managing knowledge in organizations				
Monday 25.October	0900- 1100	Introduction to the module. Student presentation techniques	Jarle Hildrum, TIK Heidi Berg, Norfund	
	1300- 1500	Knowledge management and strategy. Preparations for Statkraft visit		Tidd et al. (2005) chapter 11, Hansen et al. (1999), Haas and Hansen (2007)
Tuesday 26. October	1300- 1500	Organizational learning in theory and practice	Tian Sørhaug, TIK	March (1991), Nonaka (1995 - will be handed out prior to lecture)
Wednesday 27. October		Reading day		
Thursday 28. October	0900- 1100	Methods: Planning and conducting case studies in organizations	Jarle Moss Hildrum, TIK	Yin (1994), chapters 1 and 2. Punch chapters 9 and 10
Friday 29. October	0945- 1200	Company visit: Statkraft Innovasjon, Lilleaker	Jarle Moss Hildrum, TIK	Information about the company as well as location & transportation will be distributed prior to the lecture

<b>Week 46: Managing innovation</b>				
Monday 01. November	0900- 1100	Innovation processes and innovation strategy  Preparations for Dinamo visit	Jarle Moss Hildrum, TIK	Tidd et al. (2005) chapter 2 and 3, Hansen and Birkinshaw (2007)
Tuesday 02. November	0900- 1100  1300- 1500	Using concepts from advertising to promote innovation  Company Visit: Dinamo	Morten Kristiansen Senior advisor Dinamo Design  Morten Aas, Director, Digital Media Dinamo	Tidd et al. (2005) Chapter 7, Ensor et al. (2001)
Wednesday 03. November		Reading day		
Thursday 04. November	0900- 1100	Methods: Introduction to quantitative research	Jarle Moss Hildrum, TIK	Punch, chapters 5 and 7, Lewis Beck (1980) <i>Copies of the Lewis Beck book will be made available in the TIK /ESST reading room</i>
Friday 05. November	0900- 1100  1300- 1500	Student workshop: Design driven innovation  Organization visit: Norwegian Design Council (NDC)	Jarle Moss Hildrum, TIK  Ingjerd Jevnaker, (NDC)	Utterback et al. (2006) ch. 1 and 6.  Norwegian Design Council (2009) - report  <i>Copies of the Utterback chapters will be made available in the TIK /ESST reading room</i>
<b>Managing innovation-oriented collaborations</b>				
Monday 08. November			Reading day	
Tuesday 09. November	0900- 1100	Open innovation: Approaches to innovation collaboration.  Preparation for DNV visit	Jarle Moss Hildrum, TIK	Chesbrough 2003, Tidd et al. (2005, Chapter 6), Dahlander and Gann (2010)

Wednesday 10. November	0900- 1100	Methods: How to find a research question and get a flying start with your thesis work	Jarle Moss Hildrum, TIK	Punch, chapter 3, Hildrum (2010) ESST survival manual (will be handed out during first lecture)
Thursday 11. November	0900- 1100	User-driven innovation	Lars Bo Jeppesen Copenhagen Business School	Jeppesen and Molin (2003), Von Hippel (2006)
	1300- 1500	Crowdsourcing and innovation	Lars Bo Jeppesen Copenhagen Business School	
Friday 12. November	0900 - 1500	Company visit – Det Norske Veritas, Høvikodden	Jarle Moss Hildrum, TIK	Handouts about the company as well as transport details will be distributed prior to the visit

## Literature

### Books to be purchased by the students

Tidd, J., Bessant, J and K. Pavitt (2005) *Managing innovation. Integrating technological, market and organizational change*. John Wiley, Chichester England.

Yin, R. K. (1994) *Case Study Research. Design and Methods* (2<sup>nd</sup>. edition). Sage, Thousand Oaks, CA.

Punch, K. (2005) *Introduction to Social Research*. Sage, London.

### Electronic books

Von Hippel, E. (2006) *Democratizing Innovation*. The MIT Press, Cambridge MA.  
This book can be printed out for free at <http://web.mit.edu/evhippel/www/democ1.htm>

### Journal articles available in the compendium

Chesbrough, H.W. (2003) The Era of Open Innovation, MIT Sloan management Review, Spring 2003

Dahlander, L. and M. W. Wallin (2006) A man on the inside: Unlocking communities as complementary assets. *Research Policy* 35: 1243–1259

Hansen, M. T., Nohria, N. and T. Tierney (1999) What's your strategy for managing knowledge. *Harvard Business Review*, March-April (1999).

Jeppesen, L. B. & Molin, M. (2003). Consumers as Co-developers: Learning and Innovation Outside the Firm. *Technology Analysis & Strategic Management*, 15(3), 363 – 383.

Lam, A. (2005) Organizational Innovation. In J. Fagerberg, R. R. Nelson and D. C. Mowery *The Oxford Handbook of Innovation*. Oxford University Press, New York, pp. 119-141.

March, J. G. (1991) Exploration and exploitation in organizational learning. *Organization Science* 2(1): 71-87.

Swan, J., S. Newell, H. Scarbrough and D. Hislop (1999) Knowledge management and innovation: networks and networking. *Journal of Knowledge Management*, Volume 3 . Number 4 . 1999 . pp. 262-275.

Teece, D. J., Pisano, G., & Shuen, A. (1997). Dynamic capabilities and strategic management. *Strategic Management Journal*, 18(7), 509-533. (24p) <http://www3.interscience.wiley.com/cgi-bin/fulltext/7947/PDFSTART>

### **Journal articles and reports available as PDFs in Fronter**

Nonaka, I. (1991) The Knowledge-creating Company. *Harvard Business Review*, November-December, pp. 96-104.

Hansen M. T. and J. Birkinshaw (2007) 'The Innovation Value Chain.' *Harvard Business Review*, April 2007 (reprint R0706)

Haas, M. and M. T. Hansen (2007) Different knowledge, different benefits: toward a productivity perspective on knowledge sharing in organizations. *Strategic Management Journal* 28(11), pp. 1133-1153.

Dahlander, L. and D. M. Gann( 2010) How open is innovation? *Research Policy* 39: 699-709.

Ensor, J., Cottam, A. and C. Band (2001) Fostering knowledge management through the creative work environment: a portable model from the advertising industry. *Journal of Information Science* 27(3): 147-155.

Norwegian Design Council (2009) Design-driven innovation programme. Report, Norwegian design Council, Oslo.

Lewis Beck, Michael S. (1980) *Applied Regression: An Introduction*. An introduction. Sage University Papers (Quantitative applications in the social sciences). 07-022, Sage, Thousand Oaks CA.

Utterback, J. Vedin, M., Alvarez, B., Ekman, S. Walsh Sanderson, S. and B. Tether (2006) *Design-inspired Innovation*. World Scientific Publishing, New Jersey.

**Week 46: Essay 2**

## Modul 5 : Politics of knowledge

Kristin Asdal (All undervisning: 9.15-11.00)

Learning outcomes:

- **Recognizing the complex relationship between knowledge and policy.**
- **Being able to analyse public controversies on science and technology**
- **Increased understanding of research tools and methods to study the role of science and technology in society.**

### Week 47

#### Users, public participation and deliberative democracy

Mon 22/11	Lecture, Method: Document analysis	Kristin Asdal	Asdal et. al 2008b
Tue 23/11	Lecture: Users and democratization of technology	Göran Sundqvist	Wynne Ellis & Waterton Collins & Pinch
Wed 24/11	Reading day		
Thu 25/11	Lecture: Users and democratization of technology II	Ásdís Jónsdóttir	Wyatt Akrich Martin Aune
Fri 26/11	Excursion: Bellona	Ásdís Jónsdóttir	Oudshoorn & Pinch Latour 2005

### Week 48

#### The role of science and policy in the governance of global risks

Mon 29 Nov	Lecture: Governmentality and risk	Kristin Asdal	Mythen Foucault
Tue 30 Nov	Lecture/Seminar: Risk Society, Risk Theory,	Kristin Asdal	Beck Lidskog and Sundqvist
Wed 1 Nov	Reading day		
Thu 2 Dec	Lecture, Method: Doing interviews and grasping materialities	Ingun Grimstad Klepp	Klepp 2009 Tranberg Hansen (upublisert) Kaarhus 1999
<b>Fri 3 Dec</b>	<b>Lecture: Definition struggles and policy</b>	<b>Ásdís Jónsdóttir</b>	<b>Hinchliffe Barry</b>
<b>NB: 11.30-13.00</b>			

<b>Week 49</b>			
<b>Politics and power</b>			
<b>Mon (NB!)</b> <b>Two lectures this Monday!</b> <b>6/12</b> <b>9.15-11-00</b>	<b>Lecture 1: The politics of artefacts.</b> <b>The politics of classification</b>	<b>Sissel Myklebust</b>	<b>Winner</b>
<b>12.15-14.00</b>	<b>Lecture 2: The Politics of Knowledge</b>		<b>Star</b> <b>Haraway</b> <b>Shapin &amp; Schaffer</b>
Mon. 12.15-14.00			
Tue 7/12	New Emerging technologies: RFID	Dag Slette-meås	
Wed 8/12	Lecture: Political technologies	Kristin Asdal	Asdal  Bruun Jensen
Thu 9/12			
Fri 10/12	Reflections on the term	Olav Wicken	

### Literature

- Akrich, Madeleine (1992): "The de-scription of Technical objects" in Bijker, W.E. & J. Law (red.): *Shaping technology/building society : studies in sociotechnical change*. Cambridge, MA:MIT Press, pp. 205-24.
- Asdal, Kristin, Ingunn Brita Moser and Brita Brenna eds. (2007) *Technoscience the politics of interventions*, Oslo Academic Press, Oslo.
- Asdal, Kristin (2008): "On Politics and the little Tools of Democracy: A Down to Earth Approach", *Distinction* No. 16, pp11-26 (16p)
- Asdal, Kristin (2008b): "Saken" in Asdal, Kristin, Kjell Lars Berge, Karen Gammelgaard, Helge Jordheim, Tore Rem, Trygve Riiser-Gundersen og Johan L.Tønnesen *Tekst og historie. Å lese tekster historisk*, Universitetsforlaget
- Aune, Margrethe (1996), "The Computer in Everyday Life. Patterns of Domestication of a New Technology" i Merete Lie og Knut H. Sørensen (eds), *Making technology our own*, Scandinavian University Press: Oslo
- Barry, Andrew (2007): "Political interventions", in Asdal, Kristin, Ingunn Brita Moser and Brita Brenna eds. (2007) *Technoscience the politics of interventions*, Oslo Academic Press, Oslo.
- Beck, Ulrich (1992). "The Politics of knowledge in Risk Society" Chapter 2 in: Ulrich Beck, *Risk Society. Towards a new Modernity*. London: Sage Publications,
- Collins H. and T. Pinch ([1998]2002): Ch 6 and 7 in *The Golem at Large. What you should know about technology*. Cambridge University Press, pp. 113 – 150
- Ellis, Rebecca and Claire Waterton (2005): "Caught between the cartographic and the ethnographic imagination: the whereabouts of amateurs, professionals, and nature in

- knowing biodiversity”, in *Environment and Planning D: Society and Space*, volume 23, pp673 – 693 (20p), <http://www.envplan.com/abstract.cgi?id=d353t>
- Foucault, Miche (2002) I; "Regjering" in Michel Foucault, *Forelesninger om regjering og styringskunst*, Cappelen Akademisk Forlag: Oslo. Karen Tranberg Hansen, Filling up the wardrobe: Decision Making, Clothing Purchases and Dress Valuation in Lusaka, Zambia, in Hans Peter Hahn (ed.) *Consumption in Africa, Anthropological Approaches*. Reihentitel: Bayreuth African Studies Vol. 37. (Blir utdelt).
- Haraway, Donna (1997): “*Modest Witness@Second Millenium*”, in [Modest Witness@Second Millenium.FeemaleMan Meets Oncomouse](http://www.blackwell-synergy.com/doi/pdf/10.1111/j.1751-9020.2007.00068.x@soco.2008.2.issue-v1). Routledge, pp. 173-212
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**Week 50: Essay 3 (eksamen)**

