

Til: Programrådet
Fra: Ingrid Hjort, emneansvarlig på ECON2920
Sak: Sak 17/2021
Sak: Pensumendringer våren 2022
Dato: 11.10.2021

SAK 17/2021 Pensumendringer våren 2022

Emneansvarlig for ECON2920 - Environmental and natural resource economics ønsker å justere pensum for undervisningen som skal gis våren 2022.

Her er følgende endringer som er foreslått.

Ny pensumbok og ny pensumliste – men samme «learning outcome».

Temaer:

- Welfare theory and environmental economics. Pareto optimality, externalities and public goods
- Pollution control and environmental regulation
- Environmental cost-benefit analysis
- Transboundary pollution problems and international agreements
- Global environmental issues and climate change.

SYLLABUS

Book:

- Perman, R. et.al (2011) Natural Resource and Environmental Economics. 4th edition.
 - Careful note the specific reading guidelines for each lecture. The technical parts of the book and chapters 1,2,3,8,13,14,15,16,17,18,19 are not part of the syllabus.



Papers:

- Nyborg, K. (1996) Environmental Valuation, Cost-Benefit Analysis and Policy making: A Survey. Statistics Norway 96/12.
- Barrett, S. (1994). Self-Enforcing International Environmental Agreements. Oxford Economic Papers. 46. 878-894
- Hoel, M. (1994) Efficient Climate Policy in the Presence of Free Riders. Journal of Environmental Economics and Management. 27(3)259-274
- Asheim, G. et al. (2019) The case for a supply-side climate treaty. Science 365(6451):325-327
- [In Norwegian: «Parisavtalen og oljeeksporten». Fæhn m.fl. Aktuell analyse i Samfunnsøkonomene, Nr. 3, 2018]

Reading guidelines

| Week | Date | Time | # | Lecturer | Topic | Syllabus |
|---|-----------------|------|-----------|-------------|---|--|
| Topic 1: Foundations | | | | | | |
| 3 | | | Lecture 1 | I. Hjort | Welfare economics, market failures and the environment: Public goods and externalities | • Perman ch. 4, p. 111 – 136 (p. 92-110 is prerequisite micro theory) |
| 4 | | | Lecture 2 | I. Hjort | Pollution control: Targets | • Perman ch. 5, p. 139-151 |
| Topic 2: Environmental regulation and policy | | | | | | |
| 5 | | | Lecture 3 | I. Hjort | Pollution control: Instruments I | • Perman ch. 6, p. 177-210 |
| 6 | | | Lecture 4 | I. Hjort | Pollution control: Instruments II | • Perman ch. 6, p. 177-210 |
| 6 | | | Seminar 1 | M. Hedne | Welfare economics and market failures | |
| 7 | | | Lecture 5 | K. Holtmark | Environmental regulation - cost efficiency and distributional aspects. Theory and examples | |
| 7 | | | Seminar 2 | M. Hedne | Pollution control | |
| 7 | Torsdag Feb 18. | | Movie | | View the movie "The Play of Everyman" together with the master course econ4910. Discussion after the viewing. | |
| Winter Holiday | | | | | | |
| 9 | | | Lecture 6 | I. Hjort | Environmental cost benefit analysis and discounting | • Nyborg (1996) • Perman ch. 11: p. 367-378 + box 11.2 + ch. 11.3 (p.392-410) • Perman ch. 12: p. 411-419. + ch. 12.3.7 + box. 12.2-12.3 |
| 9 | | | Seminar 3 | M. Hedne | Cost benefit analysis | |
| 10 | | | Lecture 7 | I. Hjort | Pollution control under uncertainty | • Perman ch. 7, p. 229-250 |
| 10 | | | Seminar 4 | M. Hedne | Uncertainty | |

| | | | | | | |
|--|--|--|------------|--|--|---|
| 11 | | | Oblig | | The Mandatory task is handed out, March 17. | |
| Topic 3: The global perspective | | | | | | |
| 11 | | | Lecture 8 | I. Hjort | International environmental problems and game theory | • Perman ch. 9, p. 282-293 |
| 11 | | | ZOOM | I. Hjort | + Behavioral experiment – a game with two cards. | |
| 11 | | | Seminar 5 | M. Hedne | Empirical studies | |
| 12 | | | Lecture 9 | I. Hjort | International environmental agreements | |
| 12 | | | Seminar 6 | M. Hedne | Transboundary environmental problems | |
| 13 | | | Lecture 10 | First part: K. Nyborg Second part: I. Hjort | Nyborg: Supply side policy Hjort: Leakage effects | • Asheim et al. (2019) • In Norwegian: <i>Fæhn m.fl. (2018)</i> |
| 13 | | | Oblig | | The Mandatory task Deadline: 1. April (end week 13) | |
| 14 | | | Lecture 11 | I. Hjort | Trade and the environment | • Perman ch. 10, p. 342-350 |
| 14 | | | Seminar 7 | M. Hedne | Solutions to the Mandatory task | |
| Easter | | | | | | |
| 16 | | | Lecture 12 | C. Traeger | Discounting and long-term environmental problems. | • Perman: Box 3.1 <i>Ethics and climate change in the Stern Review</i> on p. 79-80. • Perman ch. 11 <i>Discounting</i> p. 367-378. |
| 17 | | | Lecture 13 | C. Traeger | Integrated Assessment of Climate Change and the Social Cost of Carbon. | • Perman: Box 16.1 <i>Nordhaus: The DICE-2207 model of global warming</i> p. 545-548 • Background: Nordhaus & Sztorc (2013) |
| 17 | | | Seminar 8 | M. Hedne | Climate change, discounting and IAMs | |
| | | | EXAM | | | |

Forslag til vedtak:

Programrådet godtar endringene som er foreslått i pensum for ECON2920.