

**AGH**AGH UNIVERSITY OF SCIENCE
AND TECHNOLOGYCode: - Module name: Global Environmental Governance: The Challenges of
Global Policies and Earth System Governance

Academic year: 2017/2018 Semester: ECTS credits: 4

Programme: Humanities

Course homepage: Lecture language: English

Responsible teacher: prof. Bruckmeier Karl (kbrukm@hse.ru)

Academic teachers: prof. Bruckmeier Karl (kbrukm@hse.ru)

Module summary

Global environmental and resource use problems, exhaustion of natural resources, change and degradation of the global environment, international environmental regimes, global climate policy, global environmental governance and earth system governance, intra- and intergenerational redistribution and sharing of natural resources, development of global environmental movements, policies and agency

Description of learning outcomes for module

MLO code	Student after module completion has the knowledge/ knows how to/is able to	Method of learning outcomes verification (form of completion)
Social competence		
M_K001	student is able to argue individually and critically about global environmental problems and their potential solutions	Activity during classes
Knowledge		
M_W001	student understands the necessity of global cooperation and coordination of environmental policies in a divided world	Oral answer
M_W002	student understands the difficulties of building international and global regimes and how to overcome the difficulties	Oral answer
M_W003	student understands the problems of multi-scale agency and regulation of coupled social-ecological systems	Oral answer

FLO matrix in relation to forms of classes

MLO code	Student after module completion has the knowledge/ knows how to/is able to	Form of classes										
		Lectures	Auditorium classes	Laboratory classes	Project classes	Conversation seminar	Seminar classes	Practical classes	Fieldwork classes	Workshops	Others	E-learning
Social competence												
M_K001	student is able to argue individually and critically about global environmental problems and their potential solutions	+	-	-	-	-	+	-	-	-	-	-
Knowledge												
M_W001	student understands the necessity of global cooperation and coordination of environmental policies in a divided world	+	-	-	-	-	+	-	-	-	-	-
M_W002	student understands the difficulties of building international and global regimes and how to overcome the difficulties	+	-	-	-	-	+	-	-	-	-	-
M_W003	student understands the problems of multi-scale agency and regulation of coupled social-ecological systems	+	-	-	-	-	+	-	-	-	-	-

Module content

Lectures

Global environmental change and environmental politics

Session 1 Monday 14/05/18

Discussion: text 2, chapter 1 (Galaz)

Global environmental policies - history and development

Session 2 Tuesday 15/05/18

Discussion: text 16 (Moomaw)

Political ecology - multiple perspectives

Session 3 Wednesday 16/05/18

Discussion: text 1, chapter 2 (Bryant)

International regimes and global environmental regimes

Session 6 Monday 21/05/18

Discussion: text 7 (Bradford)

Global climate policy

Session 7 Tuesday 22/05/18

Discussion: text 8 (Cook et al)

Global environmental governance and Earth system governance

Session 8 Wednesday 23/05/18

Discussion: text 2, chapter 3 (Biermann)

Crisis and critique of global environmental governance

Session 11 Monday 28/05/18

Discussion: text 4 (Archibugi & Filipetti)

Possibilities of renewing global environmental governance

Session 12 Tuesday 29/05/18

Discussion: text 13 (ISSC)

Outlook - Environmental change and global environmental governance in the 21st century

Session 13 Wednesday 30/05/18

Discussion: text 11 (Gerst et al)

Seminar classes

1. Thursday 17/05/18 Session 4

Working group presentation of text 1, chapter 6 (Rocheleau) and chapter 8 (Forsyth) and discussion of the texts with the class

2. Friday 18/05/18 Session 5

Working group presentation of text 1, chapter 37 (Doolittle) and chapter 38 (Turner) and discussion of the texts with the class

3. Thursday 24/05/18 Session 9

Working group presentation of text 18 (Pauchard) + 20 (Young) and discussion of the texts with the class

4. Friday 25/05/18 Session 10

Working group presentation of text 6 (Boykoff) + 10 (Dimitroff) and discussion of the texts with the class

5. Friday 01/06/18 Session 14

Working group presentation of texts no 14 (Krausmann et al) + 15 (Meadowcroft) and discussion of the texts with the class

6. Monday 04/06/18 Session 15

Working group presentation of texts no 17 (Ostrom) + 19 (Walsh) and discussion of the texts with the class

Course evaluation: discussion in class

Method of calculating the final grade

The course is evaluated in the last session, in oral form (discussion in the class).

Prerequisites and additional requirements

The course is organized in

(1) lecture sessions (introductory lectures with short videos and subsequent discussion in the class),
(2) seminar sessions (short presentations of texts from the course literature by working groups of students and discussion in the class).

From the students it is expected to participate in all sessions and to read the course literature individually, to be prepared for the discussions. The course does not include an examination.

Recommended literature and teaching resources

The literature used in the lectures, discussions and seminars includes English texts from political

ecology, policy analysis and political science, social ecology, research on global environmental and earth system governance.

(a) Books (selected chapters to read):

1. Bryant, Raymond L., ed. (2015). *The International Handbook of Political Ecology*. Cheltenham UK and Northampton, MA: Edward Elgar.
2. Pattberg, Philip; Zelli, Fariborz, eds. (2015). *Encyclopedia of Global Environmental Governance and Politics*. Cheltenham UK and Northampton MA: Edward Elgar. (Chapters 1-4)

(b) Articles:

3. Adger, Neil W., et al., 2001. Advancing a Political Ecology of Global Environmental Discourses. *Development and Change*, 32, pp. 681-715.
4. Archibugi, Daniele; Filipetti, Andrea, 2010. The Globalisation of Intellectual Property Rights. *Global Policy*, 1, 2: 137-149.
5. Biermann, Frank (2007). 'Earth system governance' as a crosscutting theme of global change research. *Global Environmental Change*, 17: 326-337.
6. Boykoff, Maxwell T., 2007. Flogging a dead norm? Newspaper coverage of anthropogenic climate change in the United States and the United Kingdom from 2003- 2006. *Area*, 39,2: 12 pp.
7. Bradford, Anu, 2007. Regime Theory. *Max Planck Encyclopedia of Public International Law*. (Oxford Public International Law: <http://opil.ouplaw.com>)
8. Cook, John, et al, 2016. Consensus on consensus: a synthesis of consensus estimates on human caused global warming. *Environmental Research Letters*, 11 (doi:10.1088/1748-9326/11/4/048002).
9. De Vos, M., et al, 2010. Formalizing knowledge on international environmental regimes for integrated assessment modelling. *International Congress on Environmental Modeling and Software* (<http://scholarsarchive.byu.edu/iemssconference/2010/all/2>).
10. Dimitroff, Radoslav S., 2010. Inside Copenhagen: The State of Climate Governance. *Global Environmental Politics*, 10, 2: 18-24.
11. Gerst, M.D.; Raskin, P.D.; Rockström, J., 2014. Contours of a Resilient Global Future, *Sustainability*, 6 (1), pp. 123-135.
12. Hynek, Nik, 2017. Regime Theory as IR Theory: Reflection on the Three Waves of 'Isms'. *Central European Journal of International and Security Studies*, 11, 1.
13. International Social Science Council (ISSC), (2010). *Transformative Cornerstones of Social Science Research for Global Change*. Paris (www.worldsocialscience.org).
14. Krausmann, Fridolin, et al (2009). The global socio-metabolic transition: past and present socio-metabolic profiles and their future trajectories. *Journal of Industrial Ecology*, 12, 5-6: 537-656.
15. Meadowcroft, James, 2007. Who is in Charge here? Governance for Sustainable Development in a Complex World. *Journal of Environmental Policy and Planning*, 9, 3-4: 299-314.
16. Moomaw, William R., et al , 2017. Sustainable Development Diplomacy: Diagnostics for the Negotiation and Implementation of Sustainable Development. *Global Policy* 8, 1: 73-81.
17. Ostrom, Elinor, 2007. A diagnostic approach to go beyond panaceas. *PNAS*, 104, 39, pp. 15181-15187.
18. Pauchard, Nicholas, 2017. Access and Benefit Sharing under the Convention on Biological Diversity and its Protocol. What Can Some Numbers tell us about the Effectiveness of the Regulatory Regime? *Resources*, 6,11 (doi:10.3390/resources6010011).
19. Walsh, C.L., et al (2015). Are wildcard events on infrastructure systems opportunities for transformational change. *Futures*, 67: 1-10.
20. Young, Oran R. 2011. Effectiveness of international environmental regimes: Existing knowledge, cutting-edge themes, and research strategies. *PNAS*, 108, 50: 19853-19860.

Scientific publications of module course instructors related to the topic of the module

Selected from last 10 years

Books

Individual author

1. Bruckmeier, Karl: *Social-Ecological Transformation: Reconnecting Society and Nature*, 2016 (Palgrave MacMillan, UK).
2. Bruckmeier, Karl: *Natural Resource Use and Global Change: New Interdisciplinary Perspectives in Social Ecology*, 2013 (Palgrave MacMillan, Houndmills, UK).

Co-author, chapters in books

1. Bruckmeier, Karl: Environmental conflicts – towards theoretical analyses of social-ecological systems (in: Gunilla Almered Olsson, Kenneth Hermele, eds, *Natural Resources, Conflicts and Sustainable Development*. Routledge. Publication in preparation)
2. Bruckmeier, Karl, Pires, Iva: Innovation as Transformation: Integrating the Socio-Ecological Perspectives of Resilience and Sustainability (in: Hugo Pinto, Teresa de Noronha, eds, *Resilience and*

Regional Dynamics: An International Approach to a New Research Agenda, pp. 193-216. University of Algarve. Publication in preparation)

3. Bruckmeier, Karl; Westerberg, Håkan; Varjopuro, Riku : Baltic Sea Reconciliation in Practice: The Seal Conflict and its Mitigation in Sweden and Finland (in: R.A. Klenke, et al., Human-Wildlife Conflicts in Europe, pp.15-48. Berlin and Heidelberg: Springer Verlag, 2013).

4. Bruckmeier, Karl and Knutsson, Per: Swedish case study "Mobility" (in: Allan Williams, ed, Human Mobility in Coastal Regions: The Impact of Migration and Temporary Mobilities on Urbanization. Sapienza Università Editrice, Vol. II, September 2012).

5. Bruckmeier Karl: Human Ecology in the Knowledge Society (in: I.M. Pires, M. Gibert, L. Hens, eds., Studies in Human Ecology. Hanoi: Publishing House for Science and Technology, 2010).

6. Bruckmeier, Karl; Tovey, Hilary, eds: Rural Sustainable Development in the Knowledge Society (Ashgate: Aldershot, UK, 2008).

Articles in scientific journals (peer reviewed)

7. Bruckmeier, Karl; Linke, Sebastian: Fisheries co-management - review of European experiences. Ocean and Coastal Management, 2015, 104: 170-181.

8. Stepanova, Olga; Bruckmeier, Karl: Resource use conflicts and urban-rural resource use dynamics in Swedish coastal landscapes: comparison and synthesis. Journal of Environmental Policy and Planning, 2013 (DOI:10.1080/1523908X.2013.778173).

9. Bruckmeier, Karl: Problems of cross-scale coastal management in Scandinavia. Regional Environmental Change, 2014, 14, 6: 2151-2160.

10. Stepanova, Olga; Bruckmeier, Karl: The relevance of environmental conflict research for coastal management: a review of concepts, approaches and methods with a focus on Europe. Ocean and Coastal Management, 2013, 75: 20-32.

11. Bruckmeier, Karl: Towards Interdisciplinary rural research - theorizing nature-society relations. Natures, Sciences, Sociétés, 2011.

12. Bruckmeier, Karl: Sustainability between Necessity, Contingency and Impossibility. Sustainability, 2009, 1: 1388-1411 (www.mdpi.com/journal/sustainability).

13. Bruckmeier, Karl; Engwall, Ylva; Knickel, Karl-Heinz; Kröger, Melanie: Evaluation of policies with respect to the multifunctionality of agriculture. Journal of Environmental Policy and Planning, 2009: 347-367 (Special issue „Multifunctional Agriculture“).

14. Bruckmeier, Karl; Tovey, Hilary: Knowledge in Sustainable Rural Development: From Knowledge Forms to Knowledge Processes. Sociologia Ruralis, 2008, 48, 3: 313-329.

Additional information

Karl Bruckmeier is Professor Department of Sociology of National Research University, Higher School of Economics, Moscow.

The course is given in 3 weeks (15 sessions of 90 minutes)

Every week 3 sessions "lecture + discussion" (60 minutes lecture + 30 minutes discussion of 1 text from the course literature in the class) and 2 seminar sessions (in each seminar 2 texts from the course literature are summarized by workings of students and the working groups guide also the discussion with the class).

Aims of the course

The course provides knowledge about global environmental governance and earth system governance as attempts to develop globally integrated policies and regulations of the interaction between society and nature in multi-scale approaches. The policies and governance processes address problems resulting from global environmental change (climate change, biodiversity reduction, land use change and urbanisation). With these policies a global transition towards a sustainable society shall be supported. Through the participation in the course students should learn to understand

(1) causes and consequences of global environmental change;

(2) possibilities of building global environmental regimes within the present world order that is politically divided in national states and socio-economically in the Global North of the industrialised countries that are on the way to build post-industrial systems and the Global South of formerly colonial and dependent countries that are on the way to delayed industrialisation;

(3) possibilities of a global transformation towards a socially, economically and environmentally sustainable society.

The following issues and problems are covered in lectures, discussions and seminars: global environmental and resource use problems, exhaustion of natural resources, change and degradation of the global environment, international environmental regimes, global climate policy, global environmental governance and earth system governance, intra- and intergenerational redistribution and sharing of natural resources, development of global environmental movements, policies and agency.

1. Theme. Global Environmental Change and Environmental Politics

- Basic concepts, approaches and methods for the analysis of
- global environmental change (and its interaction with global social change)
 - national, international and global environmental politics (institutions, processes, actors)
2. Theme. Global Environmental Policies – History and Development
 - Global Environmental Conferences – Stockholm, Rio, Johannesburg
 - Brundtland report – Our common Future/ sustainable development
 - Global policy programmes and regimes – Agenda 21, Convention on Biological Diversity
 3. Theme. Political ecology – multiple perspectives
 - History of political ecology, approaches
 - Colonialism, dependence, wars and violence
 - Benefit sharing in environmental governance
 - Science, politics and depoliticized environments
 4. Theme. International regimes and global environmental regimes
 - International relations and international regimes
 - Regime theory, political, economic and socio-ecological regimes
 - Global environmental regimes
 5. Theme. Global Climate Policy
 - History of Climate Policy: Montreal, Kyoto, Copenhagen, Paris
 - Climate research and its global coordination: IPCC-Reports
 - Different scientific approaches for constructing global climate change
 - Scientific and political controversies about man-made climate change
 - Present state and problems of implementation
 6. Theme. Global Environmental Governance and Earth System Governance
 - The governance concept
 - Global players
 - Global environmental governance
 - Earth system governance
 7. Theme. Crisis and Critique of Global Environmental Governance
 - Political and economic power structures, vested interests
 - Successes and failures of policies – policy failure, market failure, community failure
 - The fragmented architecture of global governance
 - Valorisation of natural resources
 - TRIPS – Agreement on Trade-Related Aspects of Intellectual Property Rights
 8. Theme. Possibilities of renewing global environmental governance
 - Limits of global governance
 - New normative orders – a new world order
 - Building global agency – transformative action
 - The social, cultural, economic and ecological contexts of global environmental governance
 - Global environmental governance or socio-metabolic transition to sustainability
 9. Theme. Outlook – Environmental Change and Global Environmental Governance in the 21st century
 - Resilient or sustainable global futures
 - Economic collapse or regime shifts
 - Resource wars
 - The long-term perspective: conflicts, catastrophes, transformation, sustainability

Student workload (ECTS credits balance)

Student activity form	Student workload
Participation in lectures	18 h
Participation in seminar classes	12 h
Preparation for classes	30 h
Realization of independently performed tasks	40 h
Summary student workload	100 h
Module ECTS credits	4 ECTS