

Study programme
2nd Semester of the Master's Programmes

M.Sc. (Eng.) in Environmental Management (EM)

Theme:
- Environmental Management in an Institutional and Societal Perspective

The L-study Board

Aalborg University

January 2008

<http://www.lsn.aau.dk/planogmiljo/em8/>

LIST OF CONTENTS

	Page
1. Introduction	3
1.1 Overview of the semester and M.Sc. programmes	3
1.2 Studying at Aalborg University	3
1.3 Important dates	4
1.4 Checklist for students	4
2. The semester according to the curriculum	5
2.1 Theme and focus	5
2.2 Objectives	5
2.3 Credits and exams	5
3. Guidelines for project work	7
3.1 Learning goals	7
3.2 Content of project work	7
3.3 Examples of previous 2 nd semester projects	8
3.4 Guidelines concerning proper referencing	9
4. Guidelines for courses	11
4.1 Lectures	11
4.2 Study related courses (separate exams)	11
4.3 Project related courses	11
5. Content of study-related courses	13
5.1 Theories of Science	13
5.2 Policies, Institutions and Discourse	14
6. Content of project-related courses	15
6.1 Politics of Sustainable Development	15
6.2 Technology Transfer	16
6.3 Environmental Governance and policy Instruments	17
6.4 Environmental Impact Assessment	18
6.5 International and EU Green Policies	19
6.6 Sustainable Energy Planning & Policies	20
7. Academic and administrative staff in the 2nd semester 2008	21
8. Course timetable, spring 2008	22

1. Introduction

The following guidelines apply to the Master of Science programme in Environmental Management (EM) and the Master of Science programme in Sustainable Energy Planning and Management (SEPM), 2nd semester (2nd semester on the Master programmes), Department of Development and Planning, Aalborg University.

1.1 Overview of the semester and the master programmes

The present guidelines are for both programmes which are similar in most aspects, apart from the projects and some of the courses. Some of you will be guest students and some of you will follow the entire study programme for four semesters. The M.Sc. programmes are located at Fibigerstræde 13, also hosting other engineering students and parts of a Master's programme in land surveying. Most of the lecturers and supervisors at the programme have their offices in Fibigerstræde 13 as well. Furthermore, you will get to know Fredrik Bajers Vej 7F, where you will find the International Office.

The M.Sc. programmes have a duration of four semesters. The first semester focused on the operational level or company level. The second semester (the present) offers an institutional and societal perspective on Environmental Management and Sustainable Energy Planning and Management, with emphasis on policy & institutions.

During the third semester, students may spend three months as a trainee in a company abroad or in Denmark or by studying at a foreign university. Students can also choose to stay at Aalborg University and use the semester to make a comprehensive project report, as there will be no courses besides project work. This option is recommended students with limited experience in making projects. The fourth and final semester of the M.Sc. programmes is devoted to the preparation of a comprehensive Master's Thesis.

1.2 Studying at Aalborg University

For those of you coming as guest students from abroad, studying at Aalborg University will be a new experience, because the teaching methods are different from those of most other universities.

First of all, we have less course work and more project work compared to other universities. Each semester, the main part of the study programme is thus devoted to project work.

Secondly, projects normally take their starting point in actual real-life environmental or energy problems. These problems are identified, analysed and solved in the projects in a work process including e.g. collection of empirical material through interviews and consulting books and the application of theories and methods learned during lectures.

Thirdly, projects are normally prepared in groups usually of three to six students, who work together throughout the period, under the supervision of a teacher (supervisor). The topic of the project is chosen by the students themselves in co-operation with their supervisor. To prepare the project, each group has their own group room with some facilities.

The main aim of the 'course' work is to give students a broader understanding of environmental management and energy planning, as well as to present theories and concepts that can support the

2008

project work. The main learning process, however, will be during the project work described above.

1.3 Important dates

February 4th start of semester

February 11th group formation seminar – beginning of project work

March 28th project status seminar

April 8th 24-hour assignment at 9.00 in Theories of Science

April 9th hand in 24-hour assignment at 9.00 in Theories of Science

April 14th and 15th exam in Theories of Science

April 30th exam in Policies Institutions and Discourses

May 9th semester evaluation (9-12 am)

June 3rd hand in main project (before 12 noon)

Mid-June to 30th June main project exams

Holidays throughout the semester:

- 20th, 21st and 24th March
- 18th April
- 1st May
- 12th May

1.4 Checklist for students

- Check your Aalborg University e-mail daily or more often - *you will receive most information this way*
- Live in or around Aalborg - *it is not possible to study here and live in the other end of the country*
- Be punctual when attending lectures and having meetings - *being late is considered rude to lecturers and fellow students alike*
- Be careful not to plagiarize - *carefully read the section on this issue in these study guidelines*
- The absence of lectures on the schedule means group work - *decide in the group what time to appear when doing group work*
- Do not go on holiday during the semester - *your group is relying on you*
- Put mobile phones on silent mode during lectures and meetings. Refrain from taking calls during lectures and meetings. Make a group policy on the use of mobile phones.
- Everybody attends meetings with supervisor and lectures
- Read the literature for lectures before the lectures
- Participate actively during lectures and meetings with questions and comments

2. The semester according to the curriculum

This section describes theme, focus, objectives as well as credits and exams for the 2nd semester (EM and SEPM), as outlined in the official curriculum.

2.1 Theme and focus

The theme of the 2nd semester is ‘Environmental Management/Sustainable Energy Planning in an Institutional and Societal Perspective’. The professional focus is ‘Policy and formulation of strategies’. The objectives of project work and courses are described below.

2.2 Objectives

By the end of the semester the students of EM and SEPM should:

- have obtained an understanding of how the economic, organisational and institutional context in different nations and cultures impact the energy situation and the environment and constrains or enables implementation of different technical and organisational solutions to energy and environmental problems.
- be able to formulate and analyse policies and strategies within the field of energy and environmental management, based on an analysis of the institutional and societal setting
- be able to identify and discuss the basic theories and/or principles, which lie behind the approaches, and tools used in different policies and strategies

The project work has its point of departure in a policy or strategy within a specific environmental/energy field or social sector. The project analyses the relevant institutional and societal setting and discusses relations between these and the formulation of specific policies or strategies at a regional, a national or an international level. The project should be critical towards the theories and methods used in the project. The project should be written in English. Guidelines for the project work are available in section 3.

There will be offered courses to support the project work (project related courses) as well as study related courses, which has a more general purpose. Guidelines for courses are available in section 4. The specific content and purpose of the courses is described in sections 5 and 6.

2.3 Credits and exams

Size of project unit: The project unit corresponds to 26 ECTS, which includes 20 ECTS for the project work and 6 ECTS for the project related courses. The study related courses correspond to 4 ECTS, which gives a total of 30 ECTS for the entire semester.

Project examination:

Oral group examination, which takes its point of departure in the study project, and gives individual grades in accordance with the 7-grade scale. The examiner will be external. The project must written and defended in English.

2008

Course examinations:

The project related courses are evaluated through the project work, while separate exams are required for the two study related courses ('Theories of Science' and 'Policies Institutions and Discourse').

3. Guidelines for project work

The theme for the 2nd semester is Environmental Management/Sustainable Energy Planning in an institutional and societal perspective, with a focus on governmental policies, politics, institutions and company strategies.

3.1 Learning goals

Please see objectives (2.2, page 5)

3.2 Content of project work

The project work has its point of departure in a policy or strategy within a specific environmental/ energy field or social sector. The project analyses the relevance of the institutional and societal setting and discusses relations between these and the formulation of specific policies or strategies at a regional, a national or an international level.

Specific energy and environmental issues or problems confronting a company or local authority/facility can also be the point of departure, and the company or local authority can function as a case to be analysed, in order to understand how the societal and institutional context influence company strategies and policies. The project report should be written in English.

The main objective of the 2nd semester report is not to obtain thorough empirical knowledge of specific regional or national settings but to analyse the relationship between societal or institutional settings and possible strategies and policies for development. Furthermore, the discussions must include an international perspective.

Content of project report

The 2nd semester report should always contain:

- An explicit problem formulation
- Theoretical and methodological considerations
- Theories and methods used should be explained, and it should be argued, why these theories and methods are applicable, including their strengths and weaknesses, seen in relation to the chosen subject.
- An analysis focussing on the institutional and social setting
- A conclusion

A report from a group of three to six students is typically 60-90 pages including appendixes. A well-structured and well-edited report will be appreciated, and reports should not exceed 90 pages (including appendixes), where one page corresponds to maximum 2600 characters.

The project assignment values 26 ECTS (representing 20 ECTS project work and 6 ECTS project-related courses).

Examination

Oral examination based on the submitted project report. An external examiner will take part in the examination. The project report together with the oral defence will be graded individually on the 7 grade scale. The project must be written and defended in English.

In addition to submitting the report in hard-copies to Allis Hansen, you are also required to submit the report electronically - preferably as a pdf-file to Allis Hansen. If, however, you are unable to generate this, a word file will suffice though the subsequent generation of a pdf-file may affect your lay-out. Regardless of file format however, everything must be kept in one single file - i.e. including all chapters, appendices, preface, summary etc.

Please name the file in accordance with this template:
"2008EM8group1.pdf" or for the rare cases where projects are confidential
"2008EM8group1CONFIDENTIAL.pdf"

Furthermore, the study board requires you to upload your report here as well:

projekter.aau.dk

Immediately after uploading the file a receipt will appear on the screen and this MUST be printed and included with the submission of the paper-version of the report to the study secretary. Reports uploaded to projekter.aau.dk are accessible for everybody. If needed, it is possible to designate a project as being confidential during the up-loading procedure. It is the responsibility of the students to ensure that the electronic and paper versions of the report are identical.

PLEASE NOTE: In order for a project report to be considered submitted on time, both the paper version and the electronic version must be submitted before deadline.

3.3 Examples of previous 2nd semester projects

▪ **Environmental Policy Making in the EU and Poland with a focus on Industrial Pollution Prevention (2001):**

The aim of this report is to analyse the EU's environmental policies and institutions in comparison with those of Poland. Poland was chosen as a case study, because it is a candidate country for entry into the EU with large potential for environmental improvements. The area of focus in environmental policy is industrial pollution, because this is one of the areas with the largest impact on the environment in EU and Poland.

▪ **Cleaner Production in Africa: Implementation, Constraints and Benefits (2002):**

The purpose of this project was to look at some of the hindrances and benefits of Cleaner Production (CP) implementation works in Africa. The conceptual provision of CP was also assessed within the African context. Our focus was to see if CP is sufficient for industrial sustainability in Africa.

▪ **Waste Management Policy Improvements in Lithuania (2002):**

The aim of this report is to discuss the problems of Lithuanian Waste Policy and to find out, how Denmark participates in the formation of Lithuanian Waste Policy, in relation to the landfill sites.

- **Towards Sustainable Development - Case Studies of Environmental Discourses in USA, India and Denmark (2003):**
With a point of departure in the environmental discourses of governments and NGOs in the three selected countries, the report discusses the obstacles and encouragements for reaching an common understanding of sustainable development. The reports conclude that a central obstacle is globalisation, which is viewed as the solution by Denmark and USA, while India considers it one of the main problems.
- **Sustainable development of the South from a Northern perspective - In the framework of global environmental approaches (2003):**
Through four different approaches to environment and development, i.e. neo-classical economy, ecological modernisation, eco-efficiency and structural changes, four development scenarios are evaluated with respect to the environment. It is concluded that the development of the South based on fossil fuels alone cannot be obtained, hence the development model of the North is obsolete and can be questioned.
- **Renewable Energy Development in Thailand (2003):**
The aim of this project is to formulate policy recommendations for the development of a sustainable energy sector in Thailand. The area of focus is an analysis of the interactions between different actors at the energy scene, such as renewable energy organisations, energy companies, and the Government.
- **Technological Innovation and the Establishment of a market for CO₂ trading in the EU:**
The aim of the project is to analyse the development of a market for CO₂ trading and its influence upon the development of cleaner technologies in EU. The project focuses upon problems linked to the need for price stability for long term innovation processes, and the price instability build into a market for CO₂ trading.

Students should be aware of the ‘project library’ that contains project reports (pdf format) from previous years, see:

<http://www.lsn.aau.dk/intranet/projektbibliotek/environmental/em8projekt.php?nt=41&s=419>

3.4 Guidelines concerning proper referencing

The use of the internet makes it is very easy to find sources and good texts describing issues relevant to your projects. Unfortunately, the internet also facilitates the misuse of such sources as everything can be copied directly into your own documents. This, however, is illegal plagiarism; it is seriously condemned and must at all costs be avoided. Naturally, the same applies to sources in print.

Generally, you should not use another author’s phrases unless there is a specific reason for doing so. In this case, the phrases *must* be clearly marked in the report using italics and/or quotation marks combined with a reference to the author. Failure to do so is plagiarism - even if you did not intend to cheat.

We have adapted an Oxford University rule of thumb saying that “if six or more consecutive words are the same as the source”, then it must be marked as a quotation as described above and

2008

clearly referenced. Additionally – and again inspired by Oxford University - "fewer than 6 words should also be quoted when you borrow a particularly apt or striking phrase"

Paraphrasing of other authors' work must also be properly referenced. Failure to do so is plagiarism. Even if you did not intend to cheat. It is not even acceptable to present another author's *idea* without referring to the author. Failure to do so is plagiarism. In fact, making such references merely demonstrates that you are a well-read student who knows the area of study.

Diagrams, figures, tables, photos and other graphical representations not made by yourself must also be properly referenced. Failure to do so is plagiarism.

Plagiarism is utterly unacceptable and will lead to the rejection of the report and expulsion of the student from Aalborg University if discovered in a submitted report.

The extensive use of properly referenced quotes from single sources - ~third of a page and up – on the grounds that "*they write it better than we are able to*" is *not* plagiarism and hence not illegal.

However, it is poor judgement, considered poor student work and hence generally renders a poor impression.

The extensive use of properly referenced quotes from single sources may of course be relevant under special circumstances, such as if you wish to discuss an EU directive, in which case, devoting e.g. a full page to the actual text may be appropriate.

If in doubt, please consult your supervisor.

Several reference systems exist. Use one system consequently throughout the whole report and throughout the entire process *including drafts*. Sloppy reference methodology in the preparation of drafts will cause problems in the writing of your final report. You will most likely forget that parts of your text are in fact quotations – and these parts will be considered plagiarism in your submitted report. Below is a link to a description of the Chicago style (successor of Harvard), which we recommend you to use. <http://www.lib.murdoch.edu.au/find/citation/chicago.html>

4. Guidelines for courses

4.1 Lectures

In line with the educational approach at Aalborg University, we expect active participation from students in all teaching activities. Ordinary lectures will be offered in all the courses, but they will be combined with intensive class discussions and case analysis. Part of the course work will be offered in co-operation with other study programmes at Aalborg University. Some lectures are evaluated through individual examination (Study related courses) and some are evaluated through the project work (Project related courses). This means that you need to prove in the project that you have learned something from these courses.

The study project is supported by a number of courses. Generally speaking the semester consists of 10 ECTS of course work (of which 6 ECTS are project related) and 20 ECTS of study project. The 10 ECTS of courses consists of the following.

4.2 Study related courses (separate exams)

The following courses are not included in the project unit and are hence evaluated separately. The students are examined either orally or in writing in these two courses

- Theories of Science (2 ECTS)
- Policies, Institutions and Discourse (2 ECTS)

Students from Urban Planning and Management will also participate in these two courses.

Examination:

The course 'Theories of Science' will be examined through a written 24-hour mini project in groups. This will take place from 8th April at 9 am to 9th April at 9 am. The mini project will be evaluated individually through an oral examination on 14th and 15th April.

The course Policies, Institutions and Discourse will be examined through a 2-hour individual, written exam. The exam will take place on 30th April.

4.3 Project related courses

The following courses are included in the project unit and are intended to support the study project. These courses are evaluated through the examination of the project, unless otherwise specified:

- Politics of Sustainable Development (2 ECTS)
- Technology Transfer (1 ECTS)
- Environmental Impact Assessment (1 ECTS) (FSA)*
- International and EU Green Policies (1+1 ECTS)*
- Sustainable Energy Planning & Policies (1 ECTS)*
- Environmental Governance and Policy Instruments (1 ECTS) (FSA)

Students can maximum choose to follow project-related courses corresponding to 6 ECTS. During the semester introduction, the students will be presented to the courses and subsequently asked to choose which to attend. It will be possible to attend half of the course in International

2008

and EU Green Policies (e.g. the lectures which focuses on energy aspects and which are especially relevant for SEPM students). In practise students have to select 2 ECTS of the courses labelled (*). It is possible to 'follow' courses, which have not been selected, but the student will not obtain extra credits for this.

Examination

The courses are examined through the project exam, except for the two courses labeled 'FSA'. These courses are open to other students at the university and are therefore evaluated separately.

The course in Environmental Impact Assessment has a separate exam during the last lecture. Details concerning the examination will be given during the first lecture of the course.

The course in Environmental Governance and Policy Instruments is considered 'passed' if the students follow 80% of the classes (i.e. 4 out of 5 lectures).

The contents and purpose of the courses are presented in the following also encompassing a schedule for the individual courses and the literature used.

5. Content of study related courses

5.1 Theories of Science

Credits: 2 ECTS

Lecturers: Lars Botin (responsible), Andrew Jamison (AJ), Petter Næss (PN)

Aim:

The aim is for the student to reach an understanding of the main positions within the Epistemology (theory of Knowledge) of the Social Sciences, and the application of these to Planning Research and Practice. The students will be trained in evaluating the adequacy of different perspectives on Knowledge and Science in relation to Planning.

Content:

The content takes the point of departure in the Sociology of Knowledge and the History of Science. Thus attention will be directed towards the social conditions under which Knowledge is produced. During the course various Schools and positions will be presented. Furthermore, basic concepts such as ‘explanation’, ‘truth’, ‘causality’, and ‘values’ will be explored.

Readings:

Jamison, A. & M. Hård (2005): *Hubris and Hybrids*. London: Routledge.

Delanty, G. & P. Strydom (2003): *Philosophies of Social Science*. Berkshire: Open University Press.

These books will be available at the Aalborg University Bookshop (Fib. 15) shortly before start of semester.

Please see semester homepage for further info.

Programme:

1. What is Science? An Introduction to the Course and to the Historical Development of Science (AJ)
2. The Making of Modern Science (AJ)
3. Changing Contexts of Science. On the relations between Science, Technology and Society (AJ)
4. The Analytical-Rationalist Tradition. From Bacon and Descartes to Popper and Kuhn (AJ)
5. Action and Change-Oriented Research (AJ)
6. Hermeneutics, Phenomenology and Theories of Human Sciences (LB)
7. Critical Realism (PN)
8. Critical Theory (LB)
9. Post-Structuralism and Postmodernism (LB)
10. Theories of Science in Practice - Exercise (LB)

Evaluation:

The course is evaluated through an individual, oral exam based on a written group assignment (‘mini project’). The exam is with internal examiner and will be graded ‘passed’ or ‘not passed’.

5.2 Policies, Institutions and Discourse

Credits: 2 ECTS
Lecturers: Søren Løkke (SL) (responsible)
Frede Hvelplund (FH)
Tim Richardson (TR)

Aim:

The aim is to make the students develop an understanding of the way in which policy and planning are embedded in multiple institutional settings, economic interests, power relations and discourses. As a part of this process the student should develop the skill of analysing real life policy, using theories of political economy, institutions and discourse in an operational way.

Content:

The content will provide an understanding of concepts and theories within policy analysis with a particular emphasis on discourse analysis and institutional analysis. The course is divided in three parts. In part one (lecture 1) the basic policy concepts are presented. Part two present two analytical frameworks for analysing the context of policy and planning - institutional analysis (lecture 2 and 3) and discourse analysis (lecture 4, 5, 6). Institutional analysis is exemplified on cases within energy policy, whereas discourse analysis is exemplified on cases within environmental and urban planning and policy. In this way the students will be introduced to the basic concepts within political science, new-institutionalism and discourse theory. Part three (lecture 7, 8, and 9) provide some perspective on this set up. Lecture 8 look into the international dimension of policy analysis with a special emphasis on globalisation and international institutions, whereas lecture 9 is a workshop discussing relationships between discourse analysis and institutional analysis.

Programme and Readings:

Please see semester homepage.

Part 1: Introduction

1. Politics, power and planning (SL)

Part 2: Two analytical frameworks

2. Institutional analysis: Three Pillars - regulative, normative and cognitive (SL)
3. Institutions and technological change (FH)
4. The basics of discourse analysis (SL)
5. Discourse analysis in practise 1 (TR)
6. Discourse analysis in practise 2 (TR)

Part 3: Perspectives on policy analysis

7. Changing the renewable energy system – an example of institutional change and discursive power (FH)
8. Applying the three pillar framework (SL)
9. Workshop: Institutional analysis and discourse analysis in comparison (FH, SL)

Evaluation:

Two-hour individual written examination graded passed/not passed.

6. Content of project related courses

6.1 Politics of Sustainable Development

Credits: 2 ECTS
Lecturers: Andrew Jamison (AJ)
Ole Busck (OB) (responsible)

Aim:

The course is meant to provide a review of the most important debates and recent developments within the world of environmental politics, from the perspective of both the Northern, industrial countries, and the Southern, developing countries. The aim is to introduce environmental discourses and explore the structural links between environment and development in a globalized world, as well as the main sources of political conflict and tensions, particularly between the North and the South.

Readings:

The Making of Green Knowledge, by Andrew Jamison (Cambridge 2001).

Planet Dialectics by Wolfgang Sachs (Zed Books 1999) (extracts).

The books will be available at the Aalborg University Bookshop (Fib. 15) shortly before semester start. Please see semester homepage for further info.

Programme:

1. Introduction to the Course (AJ)
2. History of Environmental Politics (AJ)
3. The Cultural Shaping of Environmental Politics (AJ)
4. The Dialectics of Sustainability Development (AJ)
5. The Future of Environmental Politics (AJ)
6. Development and the Environment (OB)
7. Sustainable Development and Globalization (OB)
8. International Environmental Politics (OB)
9. The 'Fossil Resource Economy' (OB)
10. Transforming the Growth Economy? (OB)

Evaluation:

Through the project evaluation

6.2 Technology Transfer

Credits: 1 ECTS

Lecturers: Jens Müller (JM) (responsible)

Objectives:

The general aim is to give the students an operational competency to plan, implement and evaluate international technology transfer projects within the field of environmental management.

In particular, the purpose is to enable the students to gain:

- insight into international technology transfer processes;
- proficiency in Logical Framework Analysis

Readings:

Kuada, John (ed.): *Culture and Technology Transformation in the South: Transfer or Local Innovation?* Copenhagen: Samfundslitteratur Press, 2003. (Available from Aalborg University Bookshop, Fib.15).

Bo Vagnby: *Manual on Logical Framework Approach - A participatory Tool*. Department of Development and Planning, Aalborg University, 2000. (Available from Aalborg University Bookshop, Fib.15).

Please see semester homepage for further info.

Programme:

1. Central problems in technology transfer projects (JM)
2. Transfer of technologies of foreign origin. (JM)
3. Logical Framework analysis in theory (JM)
4. Logical Framework analysis in practice (JM)
5. Global technological transformations (JM)

Evaluation: Through the project evaluation

6.3 Environmental Governance and Policy Instruments (FSA)

Evaluation: At least 80% attendance is required to pass the course

Credits: 1 ECTS

Lecturers: Carla K. Smink (CS) (responsible)
Eskild Holm Nielsen (EHN)

Objectives:

The aim of the course is to give the students an understanding in developments in environmental regulations in industrialized countries: past - present and future. Attention will be paid to various policy instruments to regulate industry.

Readings: Please see semester homepage

Programme:

1st Lecture: Introduction: governance towards sustainability (CS)

2nd Lecture: Instruments for environmental protection (CS)

3rd Lecture: Getting stakeholders involved: actors in global governance (CS)

4th Lecture: “Smart regulation”: designing environmental policy (CS)

5th Lecture: Integrated Pollution Prevention Control (IPPC) (EHN)

Evaluation: At least 80% attendance is required to pass the course

6.4 Environmental Impact Assessment (EIA) (FSA)

Evaluation: This course is evaluated through an exam in the 5th lecture

Credits: 1 ECTS

Lecturer: Lone Kørnøv (LK) (responsible)

Aim:

To provide training and critical knowledge of the procedures and methods for carrying out an EIA. The course is primarily based on the requirements of the EC Directive 85/337, but will also consider and include procedures from other countries and also from donor organisations.

Content:

The course introduces Environmental Impact Assessment (EIA), which is now used worldwide as an instrument for identifying and managing the adverse effects of development proposals. The course provides the basis for preparation, presentation and review of EIA procedures and statements.

Readings:

- | |
|--|
| <ul style="list-style-type: none">• Kørnøv, Lone, Mikkel Thrane, Arne Remmen and Henrik Lund (2007), Tools for Sustainable Development, Aalborg University |
|--|

Please see semester homepage for further info.

Programme:

1. The concept, history and principles of EIA. Terms and methods used for impact assessment and the EIA process (LK)
2. Law, policy and institutional arrangements for EIA in different countries. Screening, scoping and baseline setting (LK)
3. Prediction, evaluation and mitigation (LK)
4. Participation, presentation and review (LK)
5. Strategic environmental assessment (LK)

Evaluation:

This course is evaluated through an exam in the 5th lecture

2008

2008

6.5 International and EU Green Policies

Credits: 2 ECTS
Lecturers: Anders N. Andersen (ANA)
Søren Løkke (SL)
Dorte Kardel (DK)
Henrik Riisgaard (HR) (responsible)
Steen Gade (SG)

Aim:

The course presents the international conventions and, especially, the EU policies in the environmental and energy areas. The course deals with some of the following issues: When and why do international conventions work? What kind of political institution is the EU? How are the procedures and policy process of the EU in relation to the environmental and energy areas? This question will be discussed in general terms as well as through specific examples in the environmental and energy areas.

Readings:

Please see semester homepage

Programme:

1. International conventions and policy institutions (HR)
2. Mobilising consumption for sustainability using labelling and public procurement - Background, mechanisms, procedures, evaluations, impacts and barriers (HR)
3. The EU environmental policy processes – institutions and instruments (DK)
4. Environmental policy strategies with a life cycle approach - Fora, procedures and access IPP, ETAP, SCP, governance and lobbying (HR)
5. Policy for Eco-design - The framework directive on EuP (energy-using products) and initiatives on Extended Producer Responsibility (HR)
6. To be announced later – please see semester homepage
7. EU and the regulation of chemicals (SL)
8. EU regulatory frameworks - the free energy market (ANA)
9. EU regulatory frameworks - climate change policies (ANA)
10. To be announced later – please see semester homepage (SG)

Evaluation: Through the project evaluation

2008

6.6 Sustainable Energy Planning & Policies

Credits: 1 ECTS

Lecturers: Poul Alberg Østergaard (PAØ) (responsible)
Frede Hvelplund (FH)

Objectives:

To provide knowledge of the energy global planning practices. To provide knowledge of energy planning in regulated markets. To provide knowledge of new trends in energy planning

Readings:

Please see semester homepage.

Programme:

Evolution of global energy planning practices. Top-down versus bottom-up approaches in energy planning. Econometrics versus engineering approaches. Energy planning in regulated markets - with focus on conditions in a) the Western Europe context and b) the non-Western European context (both including typical distribution of competence between public administrative levels and different types of companies). New trends in energy planning; tradable permits, certificates, quotas.

1. The global agenda for energy planning (PAØ)
2. Expansion planning to integrated resource planning (PAØ)
3. Planning using economic measures (PAØ)
4. From state markets to market states (FH)
5. Governance systems for a sustainable energy development (FH)

Evaluation:

Through the project evaluation

7. Academic and administrative staff in the 2nd semester 2008

Academic Co-ordinators:

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Guest Lecturer:

Henrik Kirkegaard

Secretarial Office:

Allis Hansen, Secretary allis@plan.aau.dk Room 71a, Fib. 13
 Office hours: Monday - Friday from 10.30 -12.30

International Office:

Susanne Sørensen, Secretary Fredrik Bajers Vej 7F

If you have any questions regarding academic matters, please contact Assistant Professor Mikkel Thrane or Professor Frede Hvelplund. For practical matters concerning your studies, please contact Allis Hansen (room 71a).

On extra-curricular matters, please contact Susanne Sørensen at the International Office.

2008

8. COURSE TIMETABLE, SPRING 2008

The course programme starts on Monday, 4th February 2008

Week	Mon. 4.2	Tues. 5.2	Wed. 6.2	Thurs.7.2	Fri. 8.2
6	9.00 – 12.00 Introduction to the semester (MT), (FH)	9.00-15.00 Intro for new students, Room 49, Fib. 13	8.30-12.00 Group work	9.00-12.00 PSD (1) (AJ), room 51, Fib. 13	9.00-12.00 TS (1) (AJ), room 51, Fib. 13
	15.00 to ? Int. Office (introduction for new int. students)	9.00-15.00 Intro for new students, Room 49, Fib. 13	12.30-16.00 Group work	13.00-16.00 PSD (2) (AJ), room 51, Fib. 13	13.00-16.00 TS (2) (AJ), room 51, Fib. 13

Week	Mon. 11.2	Tues.12.2	Wed. 13.2	Thurs. 14.2	Fri. 15.2
7	8.30-12.00 IEGP (1), room 51, Fib. 13	8.30-12.00 SEPP (1) (PAØ), room 51, Fib. 13	8.30-12.00 EIA (LK) (1), room 51, Fib. 13	8.30-12.00 PID (1) (SL), room 51, Fib. 13	9.00-12.00 TS (3) (AJ), room 51, Fib. 13
	12.30-16.00 Group formation (MT), room 51, Fib. 13	12.30-16.00 Group work	14.00-15.30 Traineeship meeting by International Office, Aud. A, Fib. 15	13.00-16.00 PSD (3) (AJ), room 51, Fib. 13	12.30-16.00 Group work

2008

Week	Mon. 18.2	Tues. 19.2	Wed. 20.2	Thurs. 21.2	Fri. 22.2
8	8.30-12.00 Group work	8.30-12.00 EGPI (1) (CS), room 51, Fib. 13	8.30-12.00 EIA (LK) (2), room 51, Fib. 13	8.30-12.00 PID (2) (SL), room 51, Fib. 13	9.00-12.00 TS (4) (AJ), room 51, Fib. 13
	12.30-16.00 TT (1) (JM), room 51, Fib. 13	12.30-16.00 TT (2) (JM), room 51, Fib. 13	12.30-16.00 Group work	13.00-16.00 PSD (4) (AJ), room 51, Fib. 13	12.30-16.00 EIA (3) (LK), room 51, Fib. 13
Week	Mon. 25.2	Tues. 26.2	Wed. 27.2	Thurs. 28.2	Fri. 29.2
9	8.30-12.00 IEGP (2), room 51, Fib. 13	8.30-12.00 SEPP (2) (PAØ), room 51, Fib. 13	8.30-12.00 EIA (4) (LK), room 51, Fib. 13	8.30-12.00 PID (FH) (3), room 51, Fib. 13	9.00-12.00 TS (5) (AJ), room 51, Fib. 13
	12.30-16.00 TT (3) (JM), room 51, Fib. 13	12.30-16.00 EGPI (2) (CS), room 51, Fib. 13	12.30-16.00 Group work	13.00-16.00 PSD (5) (AJ), room 51, Fib. 13	12.30-16.00 IEGP (3) (DK)

Week	Mon. 3.3	Tues. 4.3	Wed. 5.3	Thurs. 6.3	Fri. 7.3
10	8.30-12.00 TT (4) (JM), room 51, Fib. 13	8.30-12.00 SEPP (3) (PAØ), room 51, Fib. 13	8.30-12.00 EGPI (4) (CS), room 51, Fib. 13	8.30-12.00 PID (4) (SL), room 51, Fib. 13	8.30-12.00 (5) (FH), room 51, Fib. 13
	12.30-16.00 PSD (6) (OB), room 51, Fib. 13	12.30-16.00 EGPI (3) (CS), room 51, Fib. 13	12.30-16.00 TS (6) (LB), room 51, Fib. 13	12.30-16.00 SEPP (4) (FH), room 51, Fib. 13	12.30-16.00 EIA (5) (LK), room 51, Fib. 13

2008

Week	Mon. 10.3	Tues. 11.3	Wed. 12.3	Thurs. 13.3	Fri. 14.3
11	8.30-12.00 IEGP (4), room 51, Fib. 13	8.30-12.00 PID (5) (TR), room 51, Fib. 13	8.30-12.00 IEGP (5), room 51, Fib. 13	8.30-12.00 TT (5) (JM), room 51, Fib. 13	9.00-12.00 TS (7) (PN), room 51, Fib. 13
	12.30-16.00 EGPI (5) (EHN), room 51, Fib. 13	12.30-16.00 PID (6) (TR), room 51, Fib. 13	12.30-16.00 Group work	12.30-16.00 PSD (7) (OB), room 51, Fib. 13	12.30-16.00 PSD (8) (OB), room 51, Fib. 13

Week	Mon. 17.3	Tues. 18.3	Wed. 19.3	Thurs. 20.3	Fri. 21.3
12	8.30-12.00 Group work	8.30-12.00 Group work	8.30-12.00 Group work	Easter holiday	Easter holiday
	12.30-16.00 Group work	12.30-16.00 Group work	12.30-16.00 Group work	Easter holiday	Easter holiday

Week	Mon. 24.3	Tues. 25.3	Wed. 26.3	Thurs. 27.3	Fri. 28.3
13	Easter holiday	9.00-12.00 TS (8) (LB), room 51, Fib. 13	8.30-12.00 Group work	8.30-12.00 IEGP (6), room 51, Fib. 13	8.30-12.00 Group work
	Easter holiday	12.30-16.00 PSD (9) (OB), room 51, Fib. 13	12.30-16.00 Group work	12.30-16.00 PSD (10) (OB), room 51, Fib. 13	12.30-16.00 Project status seminar (MT, FH), rooms 53 & 55, Fib. 13

2008

Week	Mon. 31.3	Tues. 1.4	Wed. 2.4	Thurs. 3.4	Fri. 4.4
14	9.00-12.00 TS (9) (LB), room 51, Fib. 13	Course in Entrepreneurship (offered by the Faculty)	Course in Entrepreneurship (offered by the Faculty)	Course in Entrepreneurship (offered by the Faculty)	Course in Entrepreneurship (offered by the Faculty)
	12.30-16.00 PID (7) (FH), room 51, Fib. 13	Course in Entrepreneurship (offered by the Faculty)	Course in Entrepreneurship (offered by the Faculty)	Course in Entrepreneurship (offered by the Faculty)	Course in Entrepreneurship (offered by the Faculty)

Week	Mon. 7.4	Tues. 8.4	Wed. 9.4	Thurs.10.4	Fri. 11.4
15	9.00-12.00 TS (10) (LB), room 51, Fib. 13	9.00 24-hour assignment in TS	9.00 Hand in 24-hour assignment	8.30-12.00 PID (8) (SL), room 51, Fib. 13	8.30-12.00 Group work
	12.30-16.00 Group work	24-hour assignment in TS	12.30-16.00 Group work	12.30-16.00 Group work	12.30-16.00 Group work

Week	Mon. 14.4	Tues.15.4	Wed. 16.4	Thurs. 17.4	Fri. 18.4
16	TS, oral exams all day, room 55, Fib. 13	TS, oral exams all day, room 55, Fib. 13	8.30-12.00 Group work	8.30-12.00 PID (9) (SL, FH), room 51, Fib. 13	Holiday

2008

	TS, oral exams all day, room 55, Fib. 13	TS, oral exams all day, room 55, Fib. 13	12.30-16.00 Group work	12.30-16.00 Group work	Holiday
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Week	Mon. 21.4	Tues. 22.4	Wed. 23.4	Thurs. 24.4	Fri. 25.4
17	8.30-12.00 Group work	8.30-12.00 Group work	8.30-12.00 Group work	8.30-12.00 IEGP (7), room 51, Fib. 13	8.30-12.00 IEGP (9)
	12.30-16.00 Group work	12.30-16.00 Group work	12.30-16.00 Group work	12.30-16.00 IEGP (8), room 51, Fib. 13	12.30-16.00 IEGP (10)

Week	Mon. 28.4	Tues. 29.4	Wed. 30.4	Thurs. 1.5	Fri. 2.5
18	8.30-12.00 Group work	8.30-12.00 Group work	9.00-11.00 PID written exam	Holiday	8.30-12.00 Group work
	12.30-16.00 Group work	12.30-16.00 Group work	12.30-16.00 Group work	Holiday	12.30-16.00 Group work

Week	Mon. 5.5	Tues. 6.5	Wed. 7.5	Thurs. 8.5	Fri. 9.5
19	8.30-12.00 Group work	8.30-12.00 Group work	8.30-12.00 Group work	8.30-12.00 Group work	9.00-12.00 Semester evaluation (MT, FH), room 51, Fib. 13

2008

	12.30-16.00 Group work	12.30-16.00 Group work	12.30-16.00 Group work	12.30-16.00 Group work	12.30-16.00 Group work
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Week	Mon. 12.5	Tues. 13.5	Wed. 14.5	Thurs. 15.5	Fri. 16.5
20	Holiday	8.30-12.00 Group work	8.30-12.00 Group work	8.30-12.00 Group work	8.30-12.00 Group work
	Holiday	12.30-16.00 Group work	12.30-16.00 Group work	12.30-16.00 Group work	12.30-16.00 Group work

