



AALBORG UNIVERSITET

CURRICULUM FOR THE MASTER'S PROGRAMME IN GEOGRAPHY - 2018 - AALBORG

**MASTER OF SCIENCE (MSC)
AALBORG**

MODULES INCLUDED IN THE CURRICULUM

TABLE OF CONTENTS

Disconnected Places – Geographies of Peripheral Areas 2018/2019	4
Theories of Science and Research Design in Geography 2018/2019	6
Human-Environment Interactions 2018/2019	8
Connected Places – Geographical Linkages in Space and Time 2018/2019	10
Advanced Methods in Geography 2018/2019	12
Geography in Practice 2018/2019	14
Extended Master's Thesis 2018/2019	16
Master's Thesis 2018/2019	18
Planning Theory 2018/2019	20
The Deliberative Planner 2018/2019	22
Mobilities: Policy, Branding and Place Management 2018/2019	24
Mobile Culture and Communication 2018/2019	26
Natural Resource Management 2018/2019	28
Sustainability Assessment and Societal Decision Processes 2018/2019	30
Danish Biotopes 2018/2019	32
Limnology 2018/2019	34
The Complex City 2018/2019	36
Theories of Science and Research Designs 2018/2019	38
Planning History and Urban Theory 2018/2019	40
Sustainable Urban Planning 2018/2019	42
Sustainable Energy Planning in a Technical and Business Economic Perspective 2018/2019	44
Energy Project Evaluation 2018/2019	46
Energy System Analysis 1 2018/2019	48
Corporate Sustainability Management 2018/2019	50
Sustainable Consumption and Production 2018/2019	52
Sustainable Products and Services 2018/2019	54
Urban Transformations and Sustainable Engineering 2018/2019	56
Climate and Hydrology of the Dense City 2018/2019	58
Forvaltning af natur og naturressourcer 2018/2019	60
Politisk geografi og geopolitik 2018/2019	62
Globalisering og udvikling 2018/2019	64
Demografi og udvikling 2018/2019	66
Globale økologiske processer og naturressourcer 2018/2019	68
Globaliseringens geografi 2018/2019	70
Samfundsøkonomi og projektevaluering – med sigte på udviklingsforhold mv. 2018/2019	72
Samfundsøkonomi og projektevaluering – med sigte på ejendomsøkonomi 2018/2019	74
Byen som sted og rum 2018/2019	76

Curriculum for the Master's Programme in Geography - 2018 - Aalborg

Bygeografi 2018/2019	78
Bygeografiske metoder 2018/2019	80
Menneske og natur 2018/2019	82
Hydrologi og klimatologi 2018/2019	84
Landskabsudvikling 2018/2019	86
Naturgeografiske metoder 2018/2019	88
Bypolitik og planlægning 2018/2019	90
Mobilitet og transportplanlægning 2018/2019	92
Planjura og regulering – med sigte på varmforsyningsplanlægning mv. 2018/2019	94

DISCONNECTED PLACES – GEOGRAPHIES OF PERIPHERAL AREAS

2018/2019

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

Students completing the module acquire the following:

LEARNING OBJECTIVES

KNOWLEDGE

- Understanding of the dynamics of the selected geographical problems and how these are contextualised in disconnected places
- Knowledge of selected theories of physical and socio-cultural geography in order to identify, analyse and evaluate selected geographical problems and their effects on the dynamics in place and space
- Knowledge of research designs, theories of science and research methods relevant for conducting research within physical and socio-cultural geography
- Knowledge of the scientific controversies in the selected field of research
- Knowledge of the fundamental principles of Problem Based Learning (PBL) as implemented in the Aalborg PBL model at The Technical Faculty of IT and Design

SKILLS

- Can identify, analyse and conceptualise selected geographical problems and their complex interactions and effects in place and space
- Can apply relevant theories, research design and methods in order to research and analyse geographical problems and their effects in place and space
- Can justify and substantiate the relevance of the chosen research problem, based on geographical theories
- Can structure project management activities based on a well-formulated problem formulation

COMPETENCES

- Can plan and implement a scientific research of the chosen geographical problem
- Can independently start and carry out subject specific and interdisciplinary cooperation and take a professional responsibility for their own research
- Can communicate research to multiple audiences
- Can reflect on, plan and manage a study project in a PBL learning environment

TYPE OF INSTRUCTION

Problem-based project work in groups.

EXAM

EXAMS

Name of exam	Disconnected Places – Geographies of Peripheral Areas
Type of exam	Oral exam based on a project
ECTS	20
Permitted aids	
Assessment	7-point grading scale

Type of grading	Internal examination
Criteria of assessment	Stated in the Joint Programme Regulations.

FACTS ABOUT THE MODULE

Danish title	Perifære områders geografi
Module code	PGLGEOK17101
Module type	Project
Duration	1 semester
Semester	Autumn
ECTS	20
Language of instruction	English
Empty-place Scheme	Yes
Location of the lecture	Campus Aalborg
Responsible for the module	Carla Kornelia Smink

ORGANISATION

Study Board	Studyboard for Planning, Geography and Surveying
Department	Department of Planning
Faculty	Technical Faculty of IT and Design

THEORIES OF SCIENCE AND RESEARCH DESIGN IN GEOGRAPHY

2018/2019

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

Students completing the module acquire the following:

LEARNING OBJECTIVES

KNOWLEDGE

- Understanding of the evolution of central theories in geography at an advanced level
- Understanding of the relationships between theories of science, research designs and research methods
- Understanding of the variety of qualitative and quantitative research methods available in geographic field work

SKILLS

- Can offer critiques of various scientific theoretical directions within the discipline of geography
- Can employ theories of science, research designs and research methods within own (sub)fields
- Can use and effectively apply the appropriate qualitative and/or quantitative research methods for conducting geographic research, namely during field work
- Can communicate knowledge of theories of science and research designs to specialists as well as non-specialists

COMPETENCES

- Can reflect critically on choices of qualitative, quantitative and mixed research methods based upon theories of science
- Can demonstrate professional development through acquisition of new knowledge of the development and renewal of theories of science and research designs.

TYPE OF INSTRUCTION

Lectures, field work, workshops, seminars, assignments, etc.

EXAM

EXAMS

Name of exam	Theories of Science and Research Design in Geography
Type of exam	Written or oral exam
ECTS	5
Permitted aids	
Assessment	7-point grading scale
Type of grading	Internal examination
Criteria of assessment	Stated in the Joint Programme Regulations.

FACTS ABOUT THE MODULE

Danish title	Geografisk videnskabsteori
Module code	PGLGEOK17102
Module type	Course
Duration	1 semester
Semester	Autumn
ECTS	5
Language of instruction	English
Empty-place Scheme	Yes
Location of the lecture	Campus Aalborg
Responsible for the module	Carla Kornelia Smink

ORGANISATION

Study Board	Studyboard for Planning, Geography and Surveying
Department	Department of Planning
Faculty	Technical Faculty of IT and Design

HUMAN-ENVIRONMENT INTERACTIONS

2018/2019

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

Students completing the module acquire the following:

LEARNING OBJECTIVES

KNOWLEDGE

- Advanced knowledge of the theories of the patterns and processes that shape human interaction within the built and natural environments
- Knowledge of the range of ways in which humans attempt to regulate interactions with their biophysical environments through governance, management and policy
- Can be critical toward various perspectives on human-environment interactions and reflect on how differing human values influence human uses and relations to the environment

SKILLS

- Can apply theories of human-environmental interactions seen through global change
- Can assess the value and reliability of others' research and methodology in relation to the patterns and processes that shape human interactions with the built and natural environments
- Can articulate and critique the place and space dimensions of patterns and processes that shape human interactions with the built and natural environments

COMPETENCES

- Can demonstrate continuous professional development through acquisition of new knowledge of patterns and processes that shape human interaction with the built and natural environments
- Can construct an analytical-theoretical understanding of the local dimensions of global change
- Can appreciate commonalities and diversity in the local expressions of global change processes
- Can reflect on the power relations and structural dimensions embedded in human-environment interactions

TYPE OF INSTRUCTION

Lectures, field work, workshops, seminars, assignments, etc.

EXAM

EXAMS

Name of exam	Human-Environment Interactions
Type of exam	Written or oral exam
ECTS	5
Permitted aids	
Assessment	7-point grading scale
Type of grading	Internal examination
Criteria of assessment	Stated in the Joint Programme Regulations.

FACTS ABOUT THE MODULE

Danish title	Menneske og miljø
Module code	PGLGEOK17103
Module type	Course
Duration	1 semester
Semester	Autumn
ECTS	5
Language of instruction	English
Empty-place Scheme	Yes
Location of the lecture	Campus Aalborg
Responsible for the module	Carla Kornelia Smink

ORGANISATION

Study Board	Studyboard for Planning, Geography and Surveying
Department	Department of Planning
Faculty	Technical Faculty of IT and Design

CONNECTED PLACES – GEOGRAPHICAL LINKAGES IN SPACE AND TIME

2018/2019

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

Students completing the module acquire the following:

LEARNING OBJECTIVES

KNOWLEDGE

- Understanding of differentiating influences of space and time on connected places and their development
- Knowledge of spatial and temporal influences on natural and socio-cultural resources
- Knowledge of physical and socio-cultural theories to identify, analyse and evaluate geographical problems and their effects in space and time
- Knowledge of advanced methods, research designs and science theories and how they contribute to development of new knowledge within the chosen research topic

SKILLS

- Can identify, analyse and conceptualise selected geographical problems and their complex interactions and effects in space and time
- Can apply relevant theories, research designs and advanced methods in the analyses of selected geographical problems and their dynamics and effects in space and time
- Can independently and critically develop concepts and methods for analysis of geographical connections

COMPETENCES

- Can develop an independent and critical contribution to the scientific research within the geography research field
- Can independently start and carry out subject specific and interdisciplinary cooperation and take a professional responsibility for their own research
- Can communicate research to multiple audiences

TYPE OF INSTRUCTION

Problem-based project work in groups.

EXAM

EXAMS

Name of exam	Connected Places – Geographical Linkages in Space and Time
Type of exam	Oral exam based on a project
ECTS	15
Permitted aids	
Assessment	7-point grading scale
Type of grading	External examination
Criteria of assessment	Stated in the Joint Programme Regulations.

FACTS ABOUT THE MODULE

Danish title	Forbundne steder – geografiske interaktioner i tid og rum
Module code	PGLGEOK17201
Module type	Project
Duration	1 semester
Semester	Spring
ECTS	15
Language of instruction	English
Empty-place Scheme	Yes
Location of the lecture	Campus Aalborg
Responsible for the module	Carla Kornelia Smink

ORGANISATION

Study Board	Studyboard for Planning, Geography and Surveying
Department	Department of Planning
Faculty	Technical Faculty of IT and Design

ADVANCED METHODS IN GEOGRAPHY

2018/2019

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

Students completing the module acquire the following:

LEARNING OBJECTIVES

KNOWLEDGE

- Knowledge of emerging data collection and data analysis methods in geography
- Knowledge of advanced geo-statistical analysis and advanced spatial modelling
- Knowledge of data collection and analysis methods applied to advanced qualitative geographical concepts
- Knowledge of advanced visualisations and methods to produce and analyse these

SKILLS

- Can combine advanced geographical theories, science theories and methods in order to establish a data collection protocol for complex geographical problems and related ethical dilemmas
- Can apply numerical and spatial analysis tools in the analysis of geographical data collected on a scientific basis
- Can apply qualitative and interpretive methods and tools in the analysis of geographical concepts on a scientific basis

COMPETENCES

- Can independently and critically apply advanced geographical research methods and analytical tools to complex geographical problems
- Can independently and critically apply relevant advanced geographical science theories to the analysis of complex geographical problems
- Can professionally communicate and discuss geographical analyses and issues with multiple audiences

TYPE OF INSTRUCTION

Lectures, field work, workshops, seminars, assignments, etc.

EXAM

EXAMS

Name of exam	Advanced Methods in Geography
Type of exam	Written or oral exam
ECTS	5
Permitted aids	
Assessment	Passed/Not Passed
Type of grading	Internal examination
Criteria of assessment	Stated in the Joint Programme Regulations.

FACTS ABOUT THE MODULE

Danish title	Avancerede geografiske metoder
Module code	PGLGEOK17202
Module type	Course
Duration	1 semester
Semester	Spring
ECTS	5
Language of instruction	English
Empty-place Scheme	Yes
Location of the lecture	Campus Aalborg
Responsible for the module	Carla Kornelia Smink

ORGANISATION

Study Board	Studyboard for Planning, Geography and Surveying
Department	Department of Planning
Faculty	Technical Faculty of IT and Design

GEOGRAPHY IN PRACTICE

2018/2019

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

Option 1: Project Semester – with or without Integrated Internship

The students can choose to carry through a traditional project semester which normally carries on the subject knowledge in which the student has specialized at the 1st and 2nd semesters and/or prepare for the subject about which the student wishes to write his/her thesis. The semester comprises the preparation of a project report or a scientific article.

The student can choose to integrate an internship either in Denmark or abroad in his/her project semester. The internship is typically of 3 months' duration and has to be approved by the semester coordinator on behalf of the Study Board of Planning, Geography and Surveying in advance. For each individual internship, specific learning goals have to be drawn up, clearly reflecting the professional problem of the project. The specific learning goals have to be approved by the semester coordinator.

Students who choose not to integrate an internship can combine a 20 ECTS project module with

2 x 5 ECTS course modules, chosen from existing master's programmes, eg. Water and Environment, Biology, Urban Planning and Management, Environmental Management and Sustainability Science.

Students completing the project module acquire the following:

LEARNING OBJECTIVES

KNOWLEDGE

- Conceptual and professional knowledge based on international research of relevance to geography
- Knowledge of the analytical methods used in geography
- Can understand and relate critically to the knowledge of the field and be able to identify practical geographical problems in a given complex context

SKILLS

- Can master the scientific methods and tools of geography in relation to the solution of the chosen geographical problem
- Can identify a relevant and specific geographical focus for the chosen subject
- Can work independently and discuss professional and scientific problems with both colleagues and communicate these to non-specialists

COMPETENCES

- Can describe a specific geographical problem and apply relevant solution models based on relevant geographical tools and data
- Can participate in professional and interdisciplinary cooperation of geographical problems
- Can carry out academic reflections on the chosen geographical subject and implement the attained knowledge in models
- Can take responsibility for own professional development and specialisation

TYPE OF INSTRUCTION

Problem-based project work, possibly with internship integrated.

EXAM

EXAMS

Name of exam	Geography in Practice
Type of exam	Oral exam based on a project
ECTS	30
Assessment	7-point grading scale
Type of grading	Internal examination

FACTS ABOUT THE MODULE

Danish title	Geografi i praksis
Module code	PGLGEOK18301
Module type	Project
Duration	1 semester
Semester	Autumn
ECTS	30
Language of instruction	English
Empty-place Scheme	Yes
Location of the lecture	Campus Aalborg
Responsible for the module	Carla Kornelia Smink

ORGANISATION

Study Board	Studyboard for Planning, Geography and Surveying
Department	Department of Planning
Faculty	Technical Faculty of IT and Design

EXTENDED MASTER'S THESIS

2018/2019

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

Extended Master's Thesis

Students may choose to carry through the 3rd and 4th semesters as an extended master's thesis (60 ECTS). Extended master's thesis is especially advised to work with project topics, where an extraordinary great generation of data is necessary. Master's theses have to be approved in advance by the Study Board of Planning, Geography and Surveying, and the student has to fulfil the knowledge, skills and competencies as indicated for master's theses. See description of 4th semester.

Students completing the project module acquire the following:

LEARNING OBJECTIVES

KNOWLEDGE

- Conceptual and professional knowledge based on international research of relevance to geography
- Knowledge of the analytical methods used in geography
- Can understand and relate critically to the knowledge of the field and be able to identify practical geographical problems in a given complex context

SKILLS

- Can master the scientific methods and tools of geography in relation to the solution of the chosen geographical problem
- Can identify a relevant and specific geographical focus for the chosen subject
- Can work independently and discuss professional and scientific problems with both colleagues and communicate these to non-specialists

COMPETENCES

- Can describe a specific geographical problem and apply relevant solution models based on relevant geographical tools and data
- Can participate in professional and interdisciplinary cooperation of geographical problems
- Can carry out academic reflections on the chosen geographical subject and implement the attained knowledge in models
- Can take responsibility for own professional development and specialisation

TYPE OF INSTRUCTION

Problem-based project work, possibly with internship integrated.

EXAM

EXAMS

Name of exam	Extended Master's Thesis
Type of exam	Oral exam based on a project
ECTS	60
Assessment	7-point grading scale
Type of grading	External examination

FACTS ABOUT THE MODULE

Danish title	Forlænget kandidat
Module code	PGLGEOK18302
Module type	Project
Duration	2 semesters
Semester	Autumn
ECTS	60
Language of instruction	English
Empty-place Scheme	Yes
Location of the lecture	Campus Aalborg
Responsible for the module	Carla Kornelia Smink

ORGANISATION

Study Board	Studyboard for Planning, Geography and Surveying
Department	Department of Planning
Faculty	Technical Faculty of IT and Design

MASTER'S THESIS

2018/2019

PREREQUISITE/RECOMMENDED PREREQUISITE FOR PARTICIPATION IN THE MODULE

Passed the three first semesters of the Geography programme

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

Students completing the module acquire the following:

LEARNING OBJECTIVES

KNOWLEDGE

- Can understand and on a scientific basis reflect on the knowledge attained within the geographical subjects studied
- Can identify scientific relevant geographical problems within the subjects studied and reflect on them.
- Knowledge of the scientific-theoretical and methodological embeddedness of the used geographical theories and can reflect on them
- Knowledge of important national and international geographical research in the field

SKILLS

- Can independently plan and carry out a geographical project at a high professional level
- Can assess possible theoretical and/or experimental methods for analysis of the research problem and reflect and critically evaluate the chosen methods
- Can make an independent and critical reflection of the chosen theories and methods as well as the analyses, results and conclusions
- Can communicate relevant scientific and professional aspects of project work in a clear and systematic way

COMPETENCES

- Can work independently with a project on a specific geographical problem at the highest international level
- Can define and analyse scientific geographical problems and based on that make and state the reasons for the decisions made
- Can solve new and complicated geographical problems by the use of advanced scientific geographical knowledge
- Can evaluate the progress of the project independently and select and include additional literature, field studies, experiments or supplementary data when needed in order to maintain a scientific basis for the project

TYPE OF INSTRUCTION

Problem-based project work with supervision supplemented with instructions, workshops, presentation seminars, lab tests, etc.

EXAM

EXAMS

Name of exam	Master's Thesis
Type of exam	Oral exam based on a project
ECTS	30
Permitted aids	

Assessment	7-point grading scale
Type of grading	External examination
Criteria of assessment	Stated in the Joint Programme Regulations.

FACTS ABOUT THE MODULE

Danish title	Kandidatspeciale
Module code	PGLGEOK17401
Module type	Project
Duration	1 semester
Semester	Spring
ECTS	30
Language of instruction	English
Empty-place Scheme	Yes
Location of the lecture	Campus Aalborg
Responsible for the module	Carla Kornelia Smink

ORGANISATION

Study Board	Studyboard for Planning, Geography and Surveying
Department	Department of Planning
Faculty	Technical Faculty of IT and Design

PLANNING THEORY

2018/2019

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

Students completing the module acquire the following:

LEARNING OBJECTIVES

KNOWLEDGE

- Knowledge of a broad spectrum of international planning theories
- Knowledge of the intellectual origins and value foundations of different planning theories
- Understanding of one or more planning theories on an international academic level
- Understanding of the difference between theories *in* and theories *of* planning
- Knowledge and understanding of the role(s) of planning in society
- Knowledge and understanding of the role(s) of the planner in society

SKILLS

- Can assess the relevance of different planning theories in different planning contexts
- Can on a scientific basis evaluate the strengths and weaknesses of different planning theories
- Can relate international planning theory to contemporary planning problems and the practices of planning
- Can communicate research-based planning theory, and discuss professional and scientific problems related to planning theory with professionals as well as non-professionals

COMPETENCES

- Can independently and critically apply planning theory to work and development situations that are complex, unpredictable and require new solutions
- Can independently apply planning theory in subject specific and interdisciplinary cooperation
- Can independently take responsibility for own professional development and specialisation

TYPE OF INSTRUCTION

Lectures, workshops, seminars, assignments, etc.

EXAM

EXAMS

Name of exam	Planning Theory
Type of exam	Written or oral exam
ECTS	5
Assessment	7-point grading scale
Type of grading	Internal examination
Criteria of assessment	Stated in the Joint Programme Regulations.

FACTS ABOUT THE MODULE

Danish title	Planlægningsteori
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Module code	PGLUPMK17203
Module type	Course
Duration	1 semester
Semester	Spring
ECTS	5
Language of instruction	English
Empty-place Scheme	Yes
Location of the lecture	Campus Aalborg
Responsible for the module	Kristian Olesen

ORGANISATION

Study Board	Studyboard for Planning, Geography and Surveying
Department	Department of Planning
Faculty	Technical Faculty of IT and Design

THE DELIBERATIVE PLANNER

2018/2019

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

Students completing the module acquire the following:

LEARNING OBJECTIVES

KNOWLEDGE

- Knowledge and understanding of the institutional context and power relations within which the planner is working in practice
- Knowledge and understanding of professional values, democratic legitimacy, and the roles of the planner in an international and local context
- Understanding of professional individual conduct, actions and ethical frames *in* and *for* practices of the planner
- Thorough knowledge of the deliberative practices of the planner in dealing with conflict, and in managing the planning process through various and changing situations and differences in planning goals, agents and resources

SKILLS

- Can identify central challenges in professional planning practice
- Can make use of relevant theories, concepts and methods to analyse the practice of planning and critically evaluate the need for the planner to intervene in different contexts
- Can identify the core challenges in designing and managing deliberative planning processes to deal with power dynamics, conflicts and different interests

COMPETENCES

- Can design and engage with complex planning processes in order to manage conflicts and different interests
- Can reflect on and develop own professional ethics and procedures
- Can facilitate interdisciplinary collaboration and cooperation in a planning context and be able to reflect in action while assuming professional responsibility

TYPE OF INSTRUCTION

Lectures, workshops, seminars, assignments, etc.

EXAM

EXAMS

Name of exam	The Deliberative Planner
Type of exam	Written or oral exam
ECTS	5
Assessment	Passed/Not Passed
Type of grading	Internal examination
Criteria of assessment	Stated in the Joint Programme Regulations.

FACTS ABOUT THE MODULE

Danish title	Den refleksive planlægger
Module code	PGLUPMK17202
Module type	Course
Duration	1 semester
Semester	Spring
ECTS	5
Language of instruction	English
Empty-place Scheme	Yes
Location of the lecture	Campus Aalborg
Responsible for the module	Kristian Olesen

ORGANISATION

Study Board	Studyboard for Planning, Geography and Surveying
Department	Department of Planning
Faculty	Technical Faculty of IT and Design

MOBILITIES: POLICY, BRANDING AND PLACE MANAGEMENT

2018/2019

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

The objective is to strengthen the student's ability to comprehend mobility policies and management as well as place management and branding in relation to the field of mobilities. This includes studies in leisure and travel, place theory and branding as well as mobility policies, mobility management, travel management and meetings management

Students who complete the module:

LEARNING OBJECTIVES

KNOWLEDGE

- Must have knowledge of theories and methods in the field of place theory, management, branding and policymaking in relation to the new mobilities turn.
- Must have knowledge of the strengths and weaknesses of methods and tools related to policy, branding and place management
- Must have an understanding of the relationships between spatial development, management, policies and branding
- Must have knowledge of the relationships between societal developments and mobility policies, mobility management, travel management and meetings management
- Must have knowledge of the economic implications of place, branding, policies and management
- Must have knowledge of governmentality and regulatory frameworks

SKILLS

- Must be able to apply relevant scientific theories and methods related to policy, branding and place management
- Must be able to evaluate, on the basis of state-of-the-art theories, both private and public sector mobility policies, plans, programmes and strategies
- Must be able to independently prepare place and mobility policies, plans, programmes and strategies
- Must be able to combine conventional tools from transport planning and travel management with new concepts, technologies, methods and theories in the field of place and mobilities research
- Must be able to analyse empirical cases in relation to policy, branding and place management
- Must be able to evaluate spatial development in relation to place management and branding

COMPETENCES

- Must be able to professionally communicate results and concepts related to policy, branding and place management
- Must be able to work in cross-disciplinary contexts in the field of mobility policy, mobility management, travel management and meetings management
- Must have the necessary competencies in developing models and concepts that capture the relationships between spatial development and the theoretical and methodological aspects of policy, branding and place management

TYPE OF INSTRUCTION

Lectures supplemented with seminars, field trips, study circles and workshops

EXAM

EXAMS

Name of exam	Mobilities: Policy, Branding and Place Management
Type of exam	Active participation/continuous evaluation
ECTS	5
Permitted aids	Without aids
Assessment	Passed/Not Passed
Type of grading	Internal examination
Criteria of assessment	As stated in the Joint Program Regulations

FACTS ABOUT THE MODULE

Danish title	Mobiliteter: Politik, branding og steder
Module code	AODMTM2K176
Module type	Course
Duration	1 semester
Semester	Spring
ECTS	5
Location of the lecture	Campus Aalborg
Responsible for the module	Tenna Doktor Olsen Tvedebrink , Sarah Guldhammer Olesen

ORGANISATION

Study Board	Study Board of Architecture & Design
Department	Department of Architecture, Design and Media Technology
Faculty	Technical Faculty of IT and Design

MOBILE CULTURE AND COMMUNICATION

2018/2019

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

The objective is to enable the students to understand and analyse the relationship between information and communication technologies, mobilities systems, space and society by introducing state-of-the-art theories relating to mobility cultures, to the integration of communication technologies with the spatial environment, to mobilities-related consequences of new social media and digital networks as well as to interaction design

Students who complete the module

LEARNING OBJECTIVES

KNOWLEDGE

- Must have a profound knowledge of contemporary information and communication technologies and their application in mobile cultures and systems
- Must have an understanding of the technological as well as cultural factors that are shaping and enabling mobilities systems

SKILLS

- Must be able to apply theories of information and communication technology and relevant cultural theories to the analysis of mobilities cultures and systems
- Must be able to evaluate the relevance and impact of information and communication technologies on mobilities cultures and systems

COMPETENCES

- Must have competencies in analysing on a theoretically level mobilities cultures and systems and their integration with communication technologies
- Must have competencies in professional communication in relation to both professional and lay audiences

TYPE OF INSTRUCTION

Lectures supplemented with seminars, study circles, workshops and fieldwork

EXAM

EXAMS

Name of exam	Mobile Culture and Communication
Type of exam	Active participation/continuous evaluation
ECTS	5
Permitted aids	Without aids
Assessment	7-point grading scale
Type of grading	Internal examination
Criteria of assessment	As stated in the Joint Program Regulations

FACTS ABOUT THE MODULE

Danish title	Mobilkultur og -kommunikation
Module code	AODMTM2K178
Module type	Course
Duration	1 semester
Semester	Spring
ECTS	5
Location of the lecture	Campus Aalborg
Responsible for the module	Tenna Doktor Olsen Tvedebrink , Sarah Guldhammer Olesen

ORGANISATION

Study Board	Study Board of Architecture & Design
Department	Department of Architecture, Design and Media Technology
Faculty	Technical Faculty of IT and Design

NATURAL RESOURCE MANAGEMENT

2018/2019

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

Students completing the module acquire the following:

LEARNING OBJECTIVES

KNOWLEDGE

- Knowledge of relevant national and international legislation for specific natural resources
- Understanding of measurement and indicator techniques for specific resource types
- Knowledge and understanding of rights, access and ownership models to natural resources (commons, leasing etc.)

SKILLS

- Can describe and explain the technologies used to extract and use specific natural resources
- Can discuss possible innovations and their applicability depending on framework conditions
- Can describe existing natural resource management approaches that are applied to use, protect and/or restore specific natural resources
- Can explain principles of sustainable use of marine, terrestrial and other resources

COMPETENCES

- Can analyse interrelated market dynamics between different resources using calculation models
- Can assess sustainability of specific management and consumption practices
- Can compare problems and strategies used in management of different natural resources in different settings

TYPE OF INSTRUCTION

Lectures, workshops, seminars, assignments, etc.

EXAM

EXAMS

Name of exam	Natural Resource Management
Type of exam	Written or oral exam
ECTS	5
Assessment	Passed/Not Passed
Type of grading	Internal examination
Criteria of assessment	Stated in the Joint Programme Regulations.

FACTS ABOUT THE MODULE

Danish title	Forvaltning af naturressourcer
Module code	PGLEMSK17201
Module type	Course

Duration	1 semester
Semester	Spring
ECTS	5
Language of instruction	English
Empty-place Scheme	Yes
Location of the lecture	Campus Aalborg
Responsible for the module	Henrik Riisgaard

ORGANISATION

Study Board	Studyboard for Planning, Geography and Surveying
Department	Department of Planning
Faculty	Technical Faculty of IT and Design

SUSTAINABILITY ASSESSMENT AND SOCIETAL DECISION PROCESSES

2018/2019

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

Students completing the module, acquire the following:

LEARNING OBJECTIVES

KNOWLEDGE

- Knowledge of different technical impact tools and methodologies applied for ex-ante sustainability assessment
- Knowledge and understanding about the socio-technical context in which ex-ante impact assessment is developed and used
- Knowledge and understanding of how impact assessment connects to societal decision-making on e.g. large infrastructures, technologies or spatial developments
- Can understand and reflect on decision-making theories

SKILLS

- Can choose impact assessment methods and tools for ex-ante sustainability assessment
- Can integrate technical analyses of bio-physical and social variables in the assessments and decision-making processes
- Can analyse and assess theoretical and practical problems, and develop and assess solutions that favour sustainable development
- Can communicate results of assessments to both other peers and non-specialists

COMPETENCES

- Can handle complex assessment situations
- Can participate critically and reflexively in impact assessment to secure more sustainable planning and decision-making at societal level

TYPE OF INSTRUCTION

Lectures, workshops, seminars, assignments, etc.

EXAM

EXAMS

Name of exam	Sustainability Assessment and Societal Decision Processes
Type of exam	Written or oral exam
ECTS	5
Assessment	7-point grading scale
Type of grading	Internal examination
Criteria of assessment	Stated in the Joint Programme Regulations.

FACTS ABOUT THE MODULE

Danish title	Bæredygtighedsvurderinger og samfundsmæssige beslutningsprocesser
Module code	PGLBEMK17202
Module type	Course
Duration	1 semester
Semester	Spring
ECTS	5
Language of instruction	English
Empty-place Scheme	Yes
Location of the lecture	Campus Aalborg
Responsible for the module	Kristian Olesen

ORGANISATION

Study Board	Studyboard for Planning, Geography and Surveying
Department	Department of Planning
Faculty	Technical Faculty of IT and Design

DANISH BIOTOPES

2018/2019

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

LEARNING OBJECTIVES

KNOWLEDGE

Students completing the module acquire the following:

Knowledge:

- On the general geology of the Danish landscape and regional differences in soil characteristics, climate and the resulting biotypes
- On the characteristic Danish biotypes and the most unique nature sites in the Danish landscape
- On the Danish flora and its dependence on the environmental conditions
- On the most common Danish mammals, birds, reptiles and amphibians and their distribution in the Danish landscape
- On the most common Danish insects and other invertebrates
- On the floral and faunistic succession in the Danish landscape
- On the Environmental Protection Act and other laws and regulations focusing on the protection and management of the Danish nature
- On the most important environmental problems in Denmark, including eutrophication, habitat fragmentation, reduced biodiversity as well as conflicts on interests in Danish nature management (e.g. angling, cultivation, hunting, urban development)

SKILLS

- Capable of identifying biotypes based on the vegetation, fauna and geology
- Identify the level of protection of a given site based on existing laws and regulations

TYPE OF INSTRUCTION

- Excursions
- field work
- group work
- lectures.

EXAM

EXAMS

Name of exam	Danish Biotopes
Type of exam	Active participation and/or written assignment
ECTS	5
Assessment	Passed/Not Passed
Type of grading	Internal examination
Criteria of assessment	Stated in the Joint Programme Regulations.

FACTS ABOUT THE MODULE

Danish title	Danske naturtyper
Module code	K-BIO-K2-5
Module type	Course
Duration	1 semester
Semester	Spring
ECTS	5
Language of instruction	Danish
Empty-place Scheme	Yes
Location of the lecture	Campus Aalborg
Responsible for the module	Dan Bruhn

ORGANISATION

Study Board	Study Board of Biotechnology, Chemistry and Environmental Engineering
Department	Department of Chemistry and Bioscience
Faculty	Faculty of Engineering and Science

LIMNOLOGY

2018/2019

PREREQUISITE/RECOMMENDED PREREQUISITE FOR PARTICIPATION IN THE MODULE

The module builds on knowledge gained in general chemistry and general biology

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

LEARNING OBJECTIVES

KNOWLEDGE

Students who have passed the module should be able to

- Describe key components of freshwater ecosystems
- Describe relevant theory for physical, chemical and biological processes in freshwater ecosystems
- Describe the dominant anthropogenic types of pollution affecting freshwater ecosystems
- Differentiate between major types of streams, rivers and lakes
- Explain the exchange of matter between aquatic and terrestrial environments
- Explain lake and river ecosystem dependence on light, temperature, nutrients and organic matter
- Describe primary production, respiration and re-oxidation in freshwater ecosystems
- Account for current river and lake restoration methods
- Describe important organic and inorganic pollutants and pollution effects in freshwater ecosystems.

SKILLS

- Determine the significance of hydraulic conditions on chemical and biological dynamics in lakes and rivers
- Analyze oxygen dynamics in freshwater environments
- Analyze impacts of pollution on biotic communities
- Use existing pollution indicators for running waters and lakes to assess the pollution of a given location

COMPETENCES

- Work with and analyze biological communities in relation to nutrient dynamics and organic matter cycling in lake and river ecosystems
- Evaluate methods to prevent and alleviate anthropogenic perturbations in freshwater ecosystems using existing technologies

TYPE OF INSTRUCTION

- Lectures

EXTENT AND EXPECTED WORKLOAD

150 hours

EXAM

EXAMS

Name of exam	Limnologi
Type of exam	Written or oral exam

ECTS	5
Assessment	7-point grading scale
Type of grading	Internal examination
Criteria of assessment	As stated in the joint programme regulations

FACTS ABOUT THE MODULE

Danish title	Limnologi
Module code	K-BIO-B6-16
Module type	Course
Duration	1 semester
Semester	Spring
ECTS	5
Language of instruction	English
Empty-place Scheme	Yes
Location of the lecture	Campus Aalborg
Responsible for the module	Morten Lauge Fejerskov , Peter Roslev , Niels Iversen , Michael Robdrup Rasmussen

ORGANISATION

Study Board	Study Board of Biotechnology, Chemistry and Environmental Engineering
Department	Department of Chemistry and Bioscience
Faculty	Faculty of Engineering and Science

THE COMPLEX CITY

2018/2019

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

Students completing the module acquire the following:

LEARNING OBJECTIVES

KNOWLEDGE

- Knowledge and understanding of direct and indirect consequences of urban development
- Knowledge and understanding of the complexities of planning for sustainable urban development
- Knowledge of one or more fields within urban theory which is based on international academic research
- Knowledge of theories of science and research methods relevant for conducting research within the field of urban planning
- Knowledge of the fundamental principles of Problem Based Learning (PBL) as implemented in the Aalborg PBL model at The Technical Faculty of IT and Design

SKILLS

- Can identify a relevant research problem within the field of urban planning
- Can design a research project and use relevant research methods in order to analyse the chosen problem
- Can justify and substantiate the relevance of the chosen research problem based on urban planning theories on an international academic level
- Can analyse and evaluate urban policies and plans in relation to their immediate as well as long-term contribution to sustainable urban development
- Can propose an alternative urban policy and evaluate the potential consequences of this policy
- Can in relation to urban development impart research-based knowledge and discuss professional and scientific problems with both colleagues and non-specialists
- Can structure project management activities based on a well-formulated problem formulation

COMPETENCES

- Can independently and critically manage work and development situations that are complex, unpredictable and require new solutions
- Can independently start and carry out subject specific and interdisciplinary cooperation and take a professional responsibility
- Can independently take the responsibility for own professional development and specialisation
- Can reflect on, plan and manage a study project in a PBL learning environment

TYPE OF INSTRUCTION

Problem-based project work in groups

EXAM

EXAMS

Name of exam	The Complex City
Type of exam	Oral exam based on a project
ECTS	15
Assessment	7-point grading scale

Type of grading	Internal examination
Criteria of assessment	Stated in the Joint Programme Regulations.

FACTS ABOUT THE MODULE

Danish title	Den komplekse by
Module code	PGLUPMK17101
Module type	Project
Duration	1 semester
Semester	Autumn
ECTS	15
Language of instruction	English
Empty-place Scheme	Yes
Location of the lecture	Campus Aalborg
Responsible for the module	Kristian Olesen

ORGANISATION

Study Board	Studyboard for Planning, Geography and Surveying
Department	Department of Planning
Faculty	Technical Faculty of IT and Design

THEORIES OF SCIENCE AND RESEARCH DESIGNS

2018/2019

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

Students completing the module, acquire the following:

LEARNING OBJECTIVES

KNOWLEDGE

- Understanding of the history and theoretical framework of theories of science at a graduate level
- Understanding of the relation between theories of science, research design and research methods at a graduate level
- Understanding of the contents and interrelation of the positions of theories of science and capability of relating critically to them
- Thorough knowledge of the relation to theories of science and research designs of own professional fields

SKILLS

- Can use the basic complex of problems of theories of science in relation to assessment of courses and references in projects at a graduate level
- Can independently assess the value and reliability of own science production in relation to scientific basic complexes of problems
- Can independently assess the value and reliability of others' research design and methodologies
- Can use theories of science, research design and research methods within own fields at a graduate level
- Can impart knowledge of theories of science and research designs to specialists as well as non-specialists

COMPETENCES

- Can reflect critically on project-related choices of value bases, theories of science and methods
- Can reflect critically on choices of qualitative and quantitative research methods
- Can take responsibility for continuous professional development through acquisition of new knowledge of the development and renewal of theories of science and research designs.

TYPE OF INSTRUCTION

Lectures, workshops, seminars, assignments, etc.

EXAM

EXAMS

Name of exam	Theories of Science and Research Designs
Type of exam	Written or oral exam
ECTS	5
Assessment	Passed/Not Passed
Type of grading	Internal examination
Criteria of assessment	Stated in the Joint Programme Regulations.

FACTS ABOUT THE MODULE

Danish title	Videnskabsteori og forskningsdesign
Module code	PGLBEMK17101
Module type	Course
Duration	1 semester
Semester	Autumn
ECTS	5
Language of instruction	English
Empty-place Scheme	Yes
Location of the lecture	Campus Aalborg
Responsible for the module	Kristian Olesen

ORGANISATION

Study Board	Studyboard for Planning, Geography and Surveying
Department	Department of Planning
Faculty	Technical Faculty of IT and Design

PLANNING HISTORY AND URBAN THEORY

2018/2019

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

Students completing the module acquire the following:

LEARNING OBJECTIVES

KNOWLEDGE

- Knowledge and understanding of the history of modern urban planning
- Knowledge and understanding of the scientific value foundations of different urban theories
- Knowledge and understanding of urban theory in different historical and geographical contexts of urban planning
- Understanding of one or more contemporary urban theories on an international academic level
- Knowledge and understanding of the global driving forces shaping contemporary urbanisation in different international contexts

SKILLS

- Can critically examine urban problems and challenges from a historical approach
- Can use urban theories to analyse historical and contemporary planning practices and identify contemporary and potential planning challenges

COMPETENCES

- Can independently conduct research on the historical and contemporary development of cities and identify contemporary planning problems
- Can independently and critically apply urban theory to planning situations that are complex, unpredictable and require new solutions

TYPE OF INSTRUCTION

Lectures, workshops, seminars, assignments, etc.

EXAM

EXAMS

Name of exam	Planning History and Urban Theory
Type of exam	Written or oral exam
ECTS	5
Assessment	7-point grading scale
Type of grading	Internal examination
Criteria of assessment	Stated in the Joint Programme Regulations.

FACTS ABOUT THE MODULE

Danish title	Planlægningshistorie og byteori
Module code	PGLUPMK17102

Module type	Course
Duration	1 semester
Semester	Autumn
ECTS	5
Language of instruction	English
Empty-place Scheme	Yes
Location of the lecture	Campus Aalborg
Responsible for the module	Kristian Olesen

ORGANISATION

Study Board	Studyboard for Planning, Geography and Surveying
Department	Department of Planning
Faculty	Technical Faculty of IT and Design

SUSTAINABLE URBAN PLANNING

2018/2019

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

Students completing the module acquire the following:

LEARNING OBJECTIVES

KNOWLEDGE

- Understanding of the complexities of contemporary urban planning in relation to challenges and possibilities such as sustainability, resilience and liveability
- Understanding of radical changes that can constitute future directions for international urban development
- Knowledge and understanding of different concepts, analytical methods and tools for assessing the qualities of planning documents

SKILLS

- Can critically use relevant theories, concepts, analytical methods and tools for assessing the qualities of planning documents and visions
- Can analyse urban problems taking into consideration economic, environmental and social conditions
- Can prepare concepts, proposals and solutions to guide future urban planning objectives
- Can communicate research-based knowledge and scientific problems and facilitate possible future planning solutions with both professionals (from a variety of fields) and non-specialists

COMPETENCES

- Can independently use relevant theories, concepts and methods to identify challenges and possibilities in relation to sustainable urban planning
- Can engage in interdisciplinary cooperation with other experts and the public in planning urban solutions and proposals and take a professional responsibility in relation to guiding future action
- Can carry out focused, critical and well-informed research to support the planning for sustainable and liveable cities

TYPE OF INSTRUCTION

Lectures, workshops, seminars, assignments, etc.

EXAM

EXAMS

Name of exam	Sustainable Urban Planning
Type of exam	Written or oral exam
ECTS	5
Assessment	Passed/Not Passed
Type of grading	Internal examination
Criteria of assessment	Stated in the Joint Programme Regulations.

FACTS ABOUT THE MODULE

Danish title	Bæredygtig byplanlægning
Module code	PGLBEMK17102
Module type	Course
Duration	1 semester
Semester	Autumn
ECTS	5
Language of instruction	English
Empty-place Scheme	Yes
Location of the lecture	Campus Aalborg
Responsible for the module	Kristian Olesen

ORGANISATION

Study Board	Studyboard for Planning, Geography and Surveying
Department	Department of Planning
Faculty	Technical Faculty of IT and Design

SUSTAINABLE ENERGY PLANNING IN A TECHNICAL AND BUSINESS ECONOMIC PERSPECTIVE

2018/2019

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

Students completing the module acquire the following:

LEARNING OBJECTIVES

KNOWLEDGE

- Thorough knowledge and understanding of the framework conditions, challenges and roles in relation to energy problems of companies and organisations, including an ability to use tools and methods to analyse these
- Can understand and on a scientific basis reflect on energy planning on a business economic level and are able to identify scientific problems in this connection
- Knowledge of theories of science and research methods relevant for analysis of energy planning and ability of reflecting on them
- Knowledge of the fundamental principles of Problem Based Learning (PBL) as implemented in the Aalborg PBL model at The Technical Faculty of IT and Design

SKILLS

- Can identify, analyse and assess the project-relevant energy problems and consequences
- Can prepare proposals for a specific energy improvement proposal in relation to the realisation of the solution in a relevant company or organisation and seen in relation to relevant actors
- Can understand, use and critically reflect on relevant quantitative and qualitative economic, sociological, environmental and/or engineering methods of analysis and uncover the interests connected to them
- Can independently collect relevant data in relation to specific problems/challenges as well as assess the quality and reliability of these data
- Can motivate, argue and communicate the general structure and methods of the project in a scientific-theoretical context
- Can relate critically to sources and use accurate source references
- Can communicate the result of the project work to selected target groups
- Can structure project management activities based on a well-formulated problem formulation

COMPETENCES

- Can structure and handle the complex composition of specific challenges on an organisation/company level in the study and project work
- Can combine and compose the use of relevant theories, understandings, methods analyses so that they form a synthesis towards the preparation of specific strategies and plans directed towards organisation or company-level possibilities of working with sustainable energy solutions
- Can independently initiate and participate in interdisciplinary energy planning on a company or organisational level
- Can reflect on, plan and manage a study project in a PBL learning environment

TYPE OF INSTRUCTION

Problem-based project work in groups.

EXAM

EXAMS

Name of exam	Sustainable Energy Planning in a Technical and Business Economic Perspective
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Type of exam	Oral exam based on a project
ECTS	15
Assessment	7-point grading scale
Type of grading	Internal examination
Criteria of assessment	Stated in the Joint Programme Regulations.

FACTS ABOUT THE MODULE

Danish title	Bæredygtig energiplanlægning i et teknisk og virksomhedsøkonomisk perspektiv
Module code	PGLSEPK17101
Module type	Project
Duration	1 semester
Semester	Autumn
ECTS	15
Language of instruction	English
Empty-place Scheme	Yes
Location of the lecture	Campus Aalborg
Responsible for the module	Poul Alberg Østergaard

ORGANISATION

Study Board	Studyboard for Planning, Geography and Surveying
Department	Department of Planning
Faculty	Technical Faculty of IT and Design

ENERGY PROJECT EVALUATION

2018/2019

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

Students completing the module acquire the following:

LEARNING OBJECTIVES

KNOWLEDGE

- Thorough knowledge of energy-related environmental, economic and socially related problems
- Knowledge of business- and socio-economic impact analyses as well as the interaction with implementation and public regulation
- Knowledge of institutional and organisational conditions related to energy planning
- Knowledge of theories, evaluation methods and tools in relation to energy planning including environmental, economic, institutional and organisational problems

SKILLS

- Can critically analyse energy-related problems
- Can understand, use and analyse evaluation methods and tools for socio-economic impact analyses
- Can understand and reflect on connections between institutions and organisations, their dynamics as well as their interaction with the surrounding world
- Can understand energy-related environmental problems and analyse these
- Can assess application fields for evaluation methods and tools, including critically assess results and conclusions on the basis of different methods and tools
- Can understand and reflect on theories, evaluation methods and analysis tools within the relevant fields.

COMPETENCES

- Can reflect critically on project-related choices of tools and their significance for analyses and results
- Can adjust and adapt different tools for the topical challenges and needs

TYPE OF INSTRUCTION

Lectures, workshops, seminars, assignments, etc.

EXAM

EXAMS

Name of exam	Energy Project Evaluation
Type of exam	Written or oral exam
ECTS	5
Assessment	7-point grading scale
Type of grading	Internal examination
Criteria of assessment	Stated in the Joint Programme Regulations.

FACTS ABOUT THE MODULE

Danish title	Energiprojektevaluering
Module code	PGLSEPK17102
Module type	Course
Duration	1 semester
Semester	Autumn
ECTS	5
Language of instruction	English
Empty-place Scheme	Yes
Location of the lecture	Campus Aalborg
Responsible for the module	Poul Alberg Østergaard

ORGANISATION

Study Board	Studyboard for Planning, Geography and Surveying
Department	Department of Planning
Faculty	Technical Faculty of IT and Design

ENERGY SYSTEM ANALYSIS 1

2018/2019

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

Students completing the module, acquire the following:

LEARNING OBJECTIVES

KNOWLEDGE

- Thorough knowledge of the energy system from energy supply via conversion to demand including fuels, renewable energy plants, conversion technologies, demand and savings
- Knowledge of the localisation aspects of energy systems
- Knowledge of the operation of energy plants as well as evaluation methods and analysis tools for energy plants, including technical limitation, optimizing possibilities, environmental and economic consequences, involvement of externalities
- Knowledge of market conditions for energy plants

SKILLS

- Can simulate the operation of energy systems with multiple dependent energy sources, energy conversion technologies and end-use energy demands.
- Can optimise energy system operation against external energy markets
- Can assess application fields for tools and methods, including critically assess results and conclusions on the basis of different tools and methods
- Can understand and reflect on theories, methods and analysis tools within the relevant areas

COMPETENCES

- Can reflect critically on project-related choices of simulations and tools and their significance for analyses and results
- Can adjust and adapt different simulations and tools for the topical challenges and needs

TYPE OF INSTRUCTION

Lectures, workshops, seminars, assignments, etc.

EXAM

EXAMS

Name of exam	Energy System Analysis 1
Type of exam	Written or oral exam
ECTS	5
Assessment	Passed/Not Passed
Type of grading	Internal examination
Criteria of assessment	Stated in the Joint Programme Regulations.

FACTS ABOUT THE MODULE

Danish title	Energisystemanalyse 1
Module code	PGLSEPK17103
Module type	Course
Duration	1 semester
Semester	Autumn
ECTS	5
Language of instruction	English
Empty-place Scheme	Yes
Location of the lecture	Campus Aalborg
Responsible for the module	Poul Alberg Østergaard

ORGANISATION

Study Board	Studyboard for Planning, Geography and Surveying
Department	Department of Planning
Faculty	Technical Faculty of IT and Design

CORPORATE SUSTAINABILITY MANAGEMENT

2018/2019

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

Students completing the module acquire the following:

LEARNING OBJECTIVES

KNOWLEDGE

- Have thorough knowledge and understanding of the framework conditions, challenges and roles of enterprises and organisations in relation to sustainable development, including also the tools and systems which are relevant on an organisation level
- Knowledge of the fundamental principles of Problem Based Learning (PBL) as implemented in the Aalborg PBL model at The Technical Faculty of IT and Design

SKILLS

- Can identify, analyse and assess project-relevant sustainability problems and consequences
- Can understand, use and critically reflect on relevant quantitative as well as qualitative methods of analysis
- Can independently procure relevant data in relation to the challenge and problem of the project and assess the quality and reliability of these data
- Can motivate, argue and communicate the general structure and methods of the project. Must also be able to reflect critically on sources and use accurate source referencing
- Can use project-relevant theories to structure plans and action for improved sustainability at organisation level
- Can structure project management activities based on a well-formulated problem formulation

COMPETENCES

- Can structure and handle the complex combinations of specific challenges at an organisation level (eg. business level)
- Can combine and compose the use of relevant theories, understandings, methods and models so that they form an analytical framework to be used when preparing specific strategies and plans adapted to the possibilities of the enterprise(s) or organisation(s).
- Can independently start and participate in interdisciplinary sustainability planning tasks and co-operation on an organisation level
- Can reflect on, plan and manage a study project in a PBL learning environment

TYPE OF INSTRUCTION

Problem-based project work in groups.

EXAM

EXAMS

Name of exam	Corporate Sustainability Management
Type of exam	Oral exam based on a project
ECTS	15
Assessment	7-point grading scale
Type of grading	Internal examination

Criteria of assessment	Stated in the Joint Programme Regulations.
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FACTS ABOUT THE MODULE

Danish title	Organisationsrelateret bæredygtighedsledelse
Module code	PGLEMSK17101
Module type	Project
Duration	1 semester
Semester	Autumn
ECTS	15
Language of instruction	English
Empty-place Scheme	Yes
Location of the lecture	Campus Aalborg
Responsible for the module	Henrik Riisgaard

ORGANISATION

Study Board	Studyboard for Planning, Geography and Surveying
Department	Department of Planning
Faculty	Technical Faculty of IT and Design

SUSTAINABLE CONSUMPTION AND PRODUCTION

2018/2019

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

Students completing the module acquire the following:

LEARNING OBJECTIVES

KNOWLEDGE

- Can define key concepts within sustainable consumption and production and explain their interrelationships
- Understanding of the basic characteristics and dynamics of product chains and networks

SKILLS

- Can summarise the range of local, regional and global initiatives that support implementation of sustainable consumption and production actions
- Can identify and classify case specific stakeholders and prescribe how to handle these
- Can identify relevant reference standards and legislative documents from international sources
- Can set policies and define objectives, targets and key performance indicators for specific organisations working for sustainability
- Can link sustainability policies at an organisation level (micro level) to internationally negotiated goals (macro or meta level) and assess their relevance
- Can apply relevant theories to analyse the existing innovation complex of specific cases
- Can apply relevant innovation strategies that involve different stakeholders (eg. co-creation, co-production etc.)
- Can apply relevant theories to analyse the relevance of different value creation models in specific cases to arrive at implementable, real-life action plans
- Can identify and critically reflect on the benefits and drawbacks as well as possible inherent contradictions of models, concepts and theories when applied to a specific issue

COMPETENCES

- Can interpret results and assess the applicability of certain tools in specific circumstances
- Can discuss opportunities and challenges for advancing sustainable consumption in specific contexts
- Can initiate transformation and co-operation processes among industries, individuals and social groups to become actors in a development process

TYPE OF INSTRUCTION

Lectures, workshops, seminars, assignments, etc.

EXAM

EXAMS

Name of exam	Sustainable Consumption and Production
Type of exam	Written or oral exam
ECTS	5
Assessment	Passed/Not Passed
Type of grading	Internal examination
Criteria of assessment	Stated in the Joint Programme Regulations.

FACTS ABOUT THE MODULE

Danish title	Bæredygtigt forbrug og produktion
Module code	PGLEMSK17102
Module type	Course
Duration	1 semester
Semester	Autumn
ECTS	5
Language of instruction	English
Empty-place Scheme	Yes
Location of the lecture	Campus Aalborg
Responsible for the module	Henrik Riisgaard

ORGANISATION

Study Board	Studyboard for Planning, Geography and Surveying
Department	Department of Planning
Faculty	Technical Faculty of IT and Design

SUSTAINABLE PRODUCTS AND SERVICES

2018/2019

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

Students completing the module acquire the following:

LEARNING OBJECTIVES

KNOWLEDGE

- Knowledge of the scientific theoretical and methodological basis of key analytical tools for environmental assessment of products
- Have thorough knowledge of key concepts in eco-design of products
- Knowledge of creativity in the eco-design process
- Basic knowledge of consumption practices and consumption volumes
- Knowledge of regulatory aspects for the development of sustainable products

SKILLS

- Can plan and carry out independently the quantitative life-cycle based environmental assessment of a given product
- Can shift from qualitative to quantitative representations of product systems, select and gather relevant data and information needed to calculate impact estimates for the product
- Can think creatively and to include elements of critical reflection to the eco-design of a product
- Can analyse and describe the eco-design process by using relevant theories and empirical investigations
- Can organise eco-design procedures for a specific product

COMPETENCES

- Can creatively develop solutions for the ecodesign of products that take into account the products' life cycle perspective
- Can interpret quantitative and qualitative environmental assessment results and use them in a product improvement and design context

TYPE OF INSTRUCTION

Lectures, workshops, seminars, assignments, etc.

EXAM

EXAMS

Name of exam	Sustainable Products and Services
Type of exam	Written or oral exam
ECTS	5
Assessment	7-point grading scale
Type of grading	Internal examination
Criteria of assessment	Stated in the Joint Programme Regulations.

FACTS ABOUT THE MODULE

Danish title	Bæredygtige produkter og serviceydelser
Module code	PGLEMSK17103
Module type	Course
Duration	1 semester
Semester	Autumn
ECTS	5
Language of instruction	English
Empty-place Scheme	Yes
Location of the lecture	Campus Aalborg
Responsible for the module	Henrik Riisgaard

ORGANISATION

Study Board	Studyboard for Planning, Geography and Surveying
Department	Department of Planning
Faculty	Technical Faculty of IT and Design

URBAN TRANSFORMATIONS AND SUSTAINABLE ENGINEERING

2018/2019

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

Students completing the module acquire the following:

LEARNING OBJECTIVES

KNOWLEDGE

- Understanding of the dynamics of the urban climate and its effects on the built environment
- Knowledge of environmentally and socially sustainable techniques for densifying the urban environment
- Knowledge of potential resources in the contemporary built environment as a catalyst to finding sustainable engineering and design solutions
- Knowledge of synergies and conflicts in climate change planning
- Knowledge of the fundamental principles of Problem Based Learning (PBL) as implemented in the Aalborg PBL model at The Technical Faculty of IT and Design

SKILLS

- Can analyse and conceptualise complex urban projects and environments from a number of perspectives related to the 'compact city', e.g. climate adaptation and mitigation, densification, re-use, inclusivity
- Can analyse the interaction between environmental factors such as wind, water and the built environment
- Can utilise theories and methods in order to analyse and evaluate contemporary built environments and notions of 'compact cities'
- Can develop a proposal that integrates engineering techniques with conceptual and spatial design
- Can structure project management activities based on a well-formulated problem formulation

COMPETENCES

- Can work with techniques for adapting to climate change in densified built environments that compile technical, spatial, social and aesthetic qualities into an integrated design solution
- Can evaluate existing situations and utilise innovative and contemporary sustainable engineering techniques in the transformation of the built environment
- Can evaluate and communicate the effects of urban transformation as environmentally and socially sustainable
- Can reflect on, plan and manage a study project in a PBL learning environment

TYPE OF INSTRUCTION

Problem-based project work in groups.

EXAM

EXAMS

Name of exam	Urban Transformations and Sustainable Engineering
Type of exam	Oral exam based on a project
ECTS	15
Assessment	7-point grading scale
Type of grading	Internal examination

Criteria of assessment	Stated in the Joint Programme Regulations.
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FACTS ABOUT THE MODULE

Danish title	Urbane transformationer og bæredygtighed
Module code	PGLCISK17101
Module type	Project
Duration	1 semester
Semester	Autumn
ECTS	15
Language of instruction	English
Empty-place Scheme	Yes
Location of the lecture	Campus Aalborg
Responsible for the module	Martin Lehmann

ORGANISATION

Study Board	Studyboard for Planning, Geography and Surveying
Department	Department of Planning
Faculty	Technical Faculty of IT and Design

CLIMATE AND HYDROLOGY OF THE DENSE CITY

2018/2019

PREREQUISITE/RECOMMENDED PREREQUISITE FOR PARTICIPATION IN THE MODULE

A BSc degree (Bachelor) in Architecture and Design or similar

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

The course will provide practical knowledge and skills in the development of designs supporting sustainability in the urban built environment. The main goal is to gain knowledge and understanding of the design challenges involved in creating a more ecologically based city considering natural and built elements in the design process. The course will contribute to knowledge and skills about sustainable urban development in a changing built environment. Hereby the students obtain competencies in engineering solutions to guide the city through a sustainable transformation.

Students who complete the module:

LEARNING OBJECTIVES

KNOWLEDGE

- Must have knowledge of causes, development, and effects of climate change from global to local scale
- Must have knowledge on aquatic and terrestrial ecology and ecosystems
- Must have knowledge on techniques for addressing climate adaptation
- Must have knowledge on urban water management practices

SKILLS

- Must be able to utilise analytical tools and methods concerning sustainable and infrastructural design
- Must be able to identify and address problems in relation to climate adaption and hydrological issues relevant to the design of the built environment
- Must be able to assess similarities and differences between rural and urban ecosystems
- Must be able to assess the impact of the build environment on urban climatology
- Must be able to measure quantify, and model urban transformation processes in relation to the built environment

COMPETENCES

- Must have the competence to analyse, plan, and guide the sustainable transformation of a city
- Must be able to evaluate the quality of urban 'blue' and 'green' ecosystem structures
- Must have the competence to develop strategies for urban climate adaption

TYPE OF INSTRUCTION

See general description of the types of instruction described in the introduction to Chapter 3.

EXAM

EXAMS

Name of exam	Climate and Hydrology of the Dense City
Type of exam	Written or oral exam

ECTS	5
Permitted aids	Without aids
Assessment	7-point grading scale
Type of grading	Internal examination
Criteria of assessment	As stated in the Framework Provisions

FACTS ABOUT THE MODULE

Danish title	Klima og hydrologi i den tætte by
Module code	AODUPM1K133
Module type	Course
Duration	1 semester
Semester	Autumn
ECTS	5
Location of the lecture	Campus Aalborg
Responsible for the module	Tenna Doktor Olsen Tvedebrink , Sarah Gulddammer Olesen

ORGANISATION

Study Board	Study Board of Architecture & Design
Department	Department of Architecture, Design and Media Technology
Faculty	Technical Faculty of IT and Design

FORVALTNING AF NATUR OG NATURRESSOURCER

2018/2019

MODULETS INDHOLD, FORLØB OG PÆDAGOGIK

Studerende, der gennemfører modulet, tilegner sig følgende:

LÆRINGSMÅL

VIDEN

- Skal kunne redegøre for grundlæggende debatter og begreber indenfor natur- og naturressourceforvaltning
- Skal, fra et primært dansk perspektiv, kunne redegøre for forekomst og udnyttelse af forskellige former for naturtyper og naturressourcer
- Kendskab til de forskellige grupper af interessenter ifht. ressourcerne
- Skal, fra et primært dansk perspektiv, kunne redegøre for typiske konflikter / problemtyper samt reguleringsmekanismer i det åbne land/vand i en forvaltningskontekst, samt have kendskab til værktøjer til vurdering af forvaltningstiltag

FÆRDIGHEDER

- Skal kunne identificere de vigtigste naturressourcer og vurdere deres betydning for et givent samfund
- Skal kunne afdække sammenhængene mellem ressourcetype, udnyttelsesform og bæredygtighed i en given kontekst
- Skal kunne analysere begrænsninger eller forudsætninger for en bæredygtig udnyttelse af naturressourcer i et givent samfund
- Identifikation af relevante interessenter og myndigheders positioner og herudfra identificere handlingsbehov eller ændringer i forvaltningen
- Skal kunne reflektere over skellet mellem videnskab og politik

KOMPETENCER

- Skal som geograf kunne anvende sin faglige viden og færdigheder i samspil med andre faggrupper i forbindelse med forvaltning af natur- og naturressourcer i en konkret case

For studerende, der følger modulet på kandidatniveau, gælder desuden følgende ekstra kompetencemål:

- Kunne reflektere over fagområdets tilgang til faglige problemstillinger på højt niveau og dets relation til andre fagområder.
- Kunne inddrage vidensområdet i løsningen af komplekse faglige problemstillinger og dermed opnå ny forståelse af et givet genstandsområde.

EKSAMEN

PRØVER

Prøvens navn	Forvaltning af natur og naturressourcer
Prøveform	Skriftlig eller mundtlig
ECTS	5
Bedømmelsesform	7-trins-skala
Censur	Intern prøve
Vurderingskriterier	Er angivet i Fællesbestemmelserne.

FAKTA OM MODULET

Engelsk titel	Management of Nature and Natural Resources
Modulkode	PGLGEOB16602
Modultype	Kursus
Varighed	1 semester
Semester	Forår
ECTS	5
Undervisningssprog	Dansk
Tomplads	Ja
Undervisningssted	Campus Aalborg
Modulansvarlig	Carla Kornelia Smink

ORGANISATION

Studienævn	Studienævnet for Planlægning, Geografi og Landinspektøruddannelsen
Institut	Institut for Planlægning
Fakultet	Det Tekniske Fakultet for IT og Design

POLITISK GEOGRAFI OG GEOPOLITIK

2018/2019

MODULETS INDHOLD, FORLØB OG PÆDAGOGIK

Studerende, der gennemfører modulet, tilegner sig følgende:

LÆRINGSMÅL

VIDEN

- Genstandsfelterne for politisk geografi og geopolitik.
- Centrale begreber og teorier i politisk geografi og geopolitik.
- Analysemetoder i politisk geografi.
- Udvalgte aktuelle politisk-geografiske og geopolitiske problemstillinger.

FÆRDIGHEDER

- Identificere og analysere politisk-geografiske problemstillinger.
- Anvende social- og politisk-geografiske teorier og begreber.
- Selvstændigt vurdere politisk-geografiske teorier, begreber og problemstillinger.
- Formidle politisk-geografisk indsigt.
- Anvende politisk-geografiske betragtninger i samspil med andre geografiske betragtninger.

KOMPETENCER

- At kunne anvende, udvikle og reflektere over politiskgeografiske teorier, begreber og metoder i analyser af geografiske problemstillinger.

For studerende, der følger modulet på kandidatniveau, gælder desuden følgende ekstra kompetencemål:

- Kunne reflektere over fagområdets tilgang til faglige problemstillinger på højt niveau og dets relation til andre fagområder.
- Kunne inddrage vidensområdet i løsningen af komplekse faglige problemstillinger og dermed opnå ny forståelse af et givet genstandsområde.

UNDERVISNINGSFORM

Forelæsninger, workshops, seminarer, opgaveløsning og præsentation, lærerfeedback samt feltstudier e.lign.

EKSAMEN

PRØVER

Prøvens navn	Politisk geografi og geopolitik
Prøveform	Mundtlig
ECTS	5
Bedømmelsesform	7-trins-skala
Censur	Intern prøve
Vurderingskriterier	Er angivet i Fællesbestemmelserne.

FAKTA OM MODULET

Engelsk titel	Political Geography and Geopolitics
Modulkode	PGLGEOB16603
Modultype	Kursus
Varighed	1 semester
Semester	Forår
ECTS	5
Undervisningssprog	Dansk
Tomplads	Ja
Undervisningssted	Campus Aalborg
Modulansvarlig	Carla Kornelia Smink

ORGANISATION

Studienævn	Studienævnet for Planlægning, Geografi og Landinspektøruddannelsen
Institut	Institut for Planlægning
Fakultet	Det Tekniske Fakultet for IT og Design

GLOBALISERING OG UDVIKLING

2018/2019

MODULETS INDHOLD, FORLØB OG PÆDAGOGIK

Studerende, der gennemfører modulet, tilegner sig følgende:

LÆRINGSMÅL

VIDEN

- Globaliseringens betydning for samfundets / menneskets valgmuligheder i forhold til udvikling samt konsekvenser i forskellige dele af verden
- Udvalgte humane- og naturressourcers betydning for udvikling i et globalt perspektiv
- Relevante geografiske analysemetoder til analyse af globaliseringens konsekvenser

FÆRDIGHEDER

- Kunne analysere problemstillingen ud fra en syntesegeografisk synsvinkel.
- Kunne analysere geografiske problemstillinger ved selvstændig indsamling af data og vurdere kvaliteten og pålideligheden af de indsamlede data.
- Reflektere kritisk over de valgte teorier, metoder og analysetilgange.
- Reflektere kritisk over projektarbejdets resultater.
- Strukturere og formidle projektarbejdets faglige grundlag og resultater.

KOMPETENCER

- Anvende og kritisk reflektere over geografiske teorier og metoder i relation til geografiske problemstillinger omhandlende interaktioner mellem samfund, ressourcer og miljø på globalt plan
- Tilrettelægge og gennemføre en problembehandling af syntesegeografisk karakter.

For studerende, der følger modulet på kandidatniveau, gælder desuden følgende ekstra kompetencemål:

- Kunne reflektere over fagområdets tilgang til faglige problemstillinger på højt niveau og dets relation til andre fagområder.
- Kunne inddrage vidensområdet i løsningen af komplekse faglige problemstillinger og dermed opnå ny forståelse af et givet genstandsområde.

UNDERVISNINGSFORM

Projektvejledning.

EKSAMEN

PRØVER

Prøvens navn	Globalisering og udvikling
Prøveform	Mundtlig pba. projekt
ECTS	15
Bedømmelsesform	7-trins-skala
Censur	Intern prøve
Vurderingskriterier	Er angivet i Fællesbestemmelserne.

FAKTA OM MODULET

Engelsk titel	Globalisation and Development
Modulkode	PGLGEOB16501
Modultype	Projekt
Varighed	1 semester
Semester	Efterår
ECTS	15
Undervisningssprog	Dansk
Tomplads	Ja
Undervisningssted	Campus Aalborg
Modulansvarlig	Carla Kornelia Smink

ORGANISATION

Studienævn	Studienævnet for Planlægning, Geografi og Landinspektøruddannelsen
Institut	Institut for Planlægning
Fakultet	Det Tekniske Fakultet for IT og Design

DEMOGRAFI OG UDVIKLING

2018/2019

MODULETS INDHOLD, FORLØB OG PÆDAGOGIK

Studerende, der gennemfører modulet, tilegner sig følgende:

LÆRINGSMÅL

VIDEN

- Skal kunne redegøre for udvikling af samfund og befolkning, herunder de grundlæggende drivkræfter og tendenser på tværs af forskellige skalaer
- Skal kunne identificere og analysere mønstre i udviklingsprocesser og tendenser på tværs af forskellige nationale og lokale områder, samt identificere og analysere befolkningsprocesser, dødelighed, fertilitet og migration og den resulterende befolkningsstruktur ift. aldersfordeling, urbanisering, sociologi og kultur.
- Skal kunne redegøre for forskelle og ligheder i udviklingstendenser globalt og lokalt, herunder forskelle i befolkningsudvikling
- Skal kunne reflektere over udviklingsteoretiske teorier og begreber og forskellige tilgange til at forstå og analysere globalisering, samt deres videnskabsteoretiske og metodiske forankring
- Skal kunne reflektere over demografiske teorier og redegøre for, samt anvende demografiske datakilder og analysemetoder.
- Skal kunne beskrive og identificere demografiske forhold på global, national og lokal skala med henblik på at kunne forstå og analysere befolkningsforhold i et givent område ud fra tilgængelige data.

FÆRDIGHEDER

- Skal kunne analysere udvikling og befolkningsprocesser, deres forudsætninger og konsekvenser, som sociale, økonomiske og politiske fænomener.
- Skal kunne anvende teorier og metoder om udvikling og demografi til at analysere, evaluere og sammenligne tendenser og mønstre i udvikling og demografi.
- Skal kunne reflektere over aktuelle tendenser i udvikling på forskellige skalaer, samt de demografiske tendenser og udviklingsmønstre.
- Skal kunne arbejde med komplekse demografiske og udviklingsproblemstillinger i en konkret kontekst

KOMPETENCER

- Kan formidle viden om grundlæggende dynamikker og udviklingstendenser i såvel udviklings- som befolkningsdynamikker til såvel fagfolk som ikke-fagfolk
- Kan kritisk anvende tværdisciplinær viden fra forskellige felter til at forstå og analysere udvikling og befolkningsudvikling

For studerende, der følger modulet på kandidatniveau, gælder desuden følgende ekstra kompetencemål:

- Kunne reflektere over fagområdets tilgang til faglige problemstillinger på højt niveau og dets relation til andre fagområder.
- Kunne inddrage vidensområdet i løsningen af komplekse faglige problemstillinger og dermed opnå ny forståelse af et givet genstandsområde.

UNDERVISNINGSFORM

Forelæsninger suppleret med øvelser, feltstudie og selvstudier.

EKSAMEN

PRØVER

Prøvens navn	Demografi og udvikling
Prøveform	Skriftlig eller mundtlig
ECTS	5
Bedømmelsesform	7-trins-skala
Censur	Intern prøve
Vurderingskriterier	Er angivet i Fællesbestemmelserne.

FAKTA OM MODULET

Engelsk titel	Demography and Development
Modulkode	PGLGEOB16502
Modultype	Kursus
Varighed	1 semester
Semester	Efterår
ECTS	5
Undervisningssprog	Dansk
Tomplads	Ja
Undervisningssted	Campus Aalborg
Modulansvarlig	Carla Kornelia Smink

ORGANISATION

Studienævn	Studienævnet for Planlægning, Geografi og Landinspektøruddannelsen
Institut	Institut for Planlægning
Fakultet	Det Tekniske Fakultet for IT og Design

GLOBALE ØKOLOGISKE PROCESSER OG NATURRESSOURCER

2018/2019

MODULETS INDHOLD, FORLØB OG PÆDAGOGIK

Studerende, der gennemfører modulet, tilegner sig følgende:

LÆRINGSMÅL

VIDEN

- Den globale biogeokemiske cirkulering af de vigtigste stoffer, herunder vand, kulstof, kvælstof, fosfor og svovl
- De processer der forbinder atmosfæren, hav og landområder samt den globale kulstofcyklus
- Forekomst og udnyttelse af biologiske og geologiske ressourcer, samt konflikter omkring landareal som begrænsende ressource.
- Forekomst og udnyttelse af vandressourcer og fiskeri.
- Forskellige energiresourcer og væsentlige energistrømme, herunder både fossile og vedvarende energikilder

FÆRDIGHEDER

- Udføre numeriske analyser af de biogeokemiske processer
- Forstå sammenhængen mellem ressourcestype, udnyttelsesform og bæredygtighed.
- Identificere forskellige energiresourcer og deres udnyttelsespotentialer og begrænsninger.

KOMPETENCER

- Evaluere og analysere data vedr. biogeokemiske globale processer
- Diskutere og analysere menneskets indflydelse på den globale stof cirkulation
- Analysere begrænsninger eller forudsætninger for en bæredygtig udnyttelse af naturressourcer samt handlingsbehov i forhold til forvaltningen

For studerende, der følger modulet på kandidatniveau, gælder desuden følgende ekstra kompetencemål:

- Kunne reflektere over fagområdet tilgang til faglige problemstillinger på højt niveau og dets relation til andre fagområder.
- Kunne inddrage vidensområdet i løsningen af komplekse faglige problemstillinger og dermed opnå ny forståelse af et givet genstandsområde.

UNDERVISNINGSFORM

Forelæsninger, workshops, seminarer, opgaveløsning og præsentation, lærerfeedback samt felstudier e.lign.

EKSAMEN

PRØVER

Prøvens navn	Globale økologiske processer og naturressourcer
Prøveform	Skriftlig eller mundtlig
ECTS	5
Bedømmelsesform	Bestået/ikke bestået
Censur	Intern prøve

Vurderingskriterier	Er angivet i Fællesbestemmelserne.
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FAKTA OM MODULET

Engelsk titel	Global Ecological Processes and Resources
Modulkode	PGLGEOB16503
Modultype	Kursus
Varighed	1 semester
Semester	Efterår
ECTS	5
Undervisningssprog	Dansk
Tomplads	Ja
Undervisningssted	Campus Aalborg
Modulansvarlig	Carla Kornelia Smink

ORGANISATION

Studienævn	Studienævnet for Planlægning, Geografi og Landinspektøruddannelsen
Institut	Institut for Planlægning
Fakultet	Det Tekniske Fakultet for IT og Design

GLOBALISERINGENS GEOGRAFI

2018/2019

MODULETS INDHOLD, FORLØB OG PÆDAGOGIK

Studerende, der gennemfører modulet, tilegner sig følgende:

LÆRINGSMÅL

VIDEN

- Skal kunne redegøre for globale strømme og rum, herunder de grundlæggende drivkræfter og tendenser på tværs af forskellige skalaer
- Skal kunne identificere og analysere mønstre i strømme og rum på lokale, nationale og internationale skalaer
- Skal kunne redegøre for forskelle og mønstre i globaliseringstendenser og -mønstre og det komplekse samspil mellem strømme og rum
- Skal kunne reflektere over teorier og begreber om globalisering og forskellige tilgange til at forstå og analysere globalisering, samt deres videnskabsteoretiske og metodiske forankring
- Skal kunne reflektere over styrker og svagheder ved forskellige teorier om globalisering

FÆRDIGHEDER

- Skal kunne analysere globalisering, dens forudsætninger og konsekvenser, som et historisk, socialt, økonomisk og politisk fænomen
- Skal kunne anvende globaliseringsteori i en dansk såvel som international sammenhæng
- Skal kritisk kunne reflektere over aktuelle tendenser indenfor globalisering på forskellige skalaer
- Skal kunne arbejde med komplekse problemstillinger i samspillet mellem lokalitet og globalisering

KOMPETENCER

- Kan formidle viden om globaliseringens grundlæggende dynamikker og udviklingstendenser til såvel fagfolk som ikke-fagfolk
- Kan kritisk anvende tværdisciplinær viden fra forskellige felter til at forstå og analysere globalisering

UNDERVISNINGSFORM

Forelæsninger suppleret med øvelser, feltstudie og selvstudier.

EKSAMEN

PRØVER

Prøvens navn	Globaliseringens geografi
Prøveform	Skriftlig eller mundtlig
ECTS	5
Bedømmelsesform	7-trins-skala
Censur	Intern prøve
Vurderingskriterier	Er angivet i Fællesbestemmelserne.

FAKTA OM MODULET

Engelsk titel	The Geography of Globalisation
Modulkode	PGLGEOB16504
Modultype	Kursus
Varighed	1 semester
Semester	Efterår
ECTS	5
Undervisningsprog	Dansk
Tomplads	Ja
Undervisningssted	Campus Aalborg
Modulansvarlig	Carla Kornelia Smink

ORGANISATION

Studienævn	Studienævnet for Planlægning, Geografi og Landinspektøruddannelsen
Institut	Institut for Planlægning
Fakultet	Det Tekniske Fakultet for IT og Design

SAMFUNDSØKONOMI OG PROJEKTEVALUERING – MED SIGTE PÅ UDVIKLINGSFORHOLD MV.

2018/2019

MODULETS INDHOLD, FORLØB OG PÆDAGOGIK

Studerende, der gennemfører modulet, tilegner sig følgende:

LÆRINGSMÅL

VIDEN

- Grundlæggende viden om nationaløkonomiske teorier, herunder neoklassisk økonomi, miljøøkonomi og om nationalproduktbegrebet og inddragelse af økonomiens indvirkning på naturgrundlaget.
- Grundlæggende viden om konkret institutionel økonomi og herunder f.eks. om samspillet mellem teknologisk udvikling og konkret lovgivning og skattepolitik.
- Grundlæggende viden om samspillet mellem samfundsøkonomi, virksomhedsøkonomi og regional udvikling.
- Grundlæggende viden om forskellige projektevalueringsmetoder. Herunder cost-benefit metoden versus innovativ strategisk projektvurdering.
- Grundlæggende rentesregning og nuværdiberegning.
- Grundlæggende viden om eksterne sociale- og miljøomkostningers inddragelse i projektvurdering.
- Grundlæggende viden om kommunaløkonomi.
- Grundlæggende viden om samspillet mellem international og national økonomisk regulering.

Herudover gælder følgende:

- Grundlæggende viden om samspil mellem økonomi og ulige udvikling på forskellige skalaer

FÆRDIGHEDER

- Kan foretage virksomheds- og samfundsøkonomiske projektvurderinger.
- Kan deltage i en konkret diskussion af afgrænsningerne i anvendte nationaløkonomiske modeller, og betydningen af disse afgrænsninger for projektevalueringer.
- Kan foretage en simpel projektevaluering med inddragelse af miljø og samfundsmæssige virkninger i vurderingen.
- Kan foretage en vurdering af et projekts samspil med lokal og regional udvikling samt kommunernes økonomi.
- Kan foretage en diskussion af konkrete institutionelle betingelsers indflydelse på udvikling i det åbne land versus udvikling i bycentrene.
- Kan analysere hvordan offentlig regulering kan fremme eller hæmme implementeringen af et givent projekt i en projektevalueringsproces.

Herudover gælder følgende:

- Har opnået grundlæggende færdigheder i relation til vurdering af lokale udviklingsprojekter og investeringer.

KOMPETENCER

- Evne til selvstændigt og kritisk at analysere og vurdere samfundsøkonomiske modeller og disses samspil med konkrete projektevalueringer.

For studerende, der følger modulet på kandidatniveau, gælder desuden følgende ekstra kompetencemål:

- Kunne reflektere over fagområdets tilgang til faglige problemstillinger på højt niveau og dets relation til andre fagområder.
- Kunne inddrage vidensområdet i løsningen af komplekse faglige problemstillinger og dermed opnå ny forståelse af et givet genstandsområde.

UNDERVISNINGSFORM

Forelæsninger suppleret med øvelser og selvstudie e.lign.

EKSAMEN

PRØVER

Prøvens navn	Samfundsøkonomi og projektevaluering – med sigte på udviklingsforhold mv.
Prøveform	Skriftlig eller mundtlig
ECTS	5
Tilladte hjælpemidler	
Bedømmelsesform	Bestået/ikke bestået
Censur	Intern prøve
Vurderingskriterier	Er angivet i Fællesbestemmelserne.

FAKTA OM MODULET

Engelsk titel	Economy and Project Evaluation – with a View to Development etc.
Modulkode	PGLBGB164602
Modultype	Kursus
Varighed	1 semester
Semester	Forår
ECTS	5
Undervisningssprog	Dansk
Tomplads	Ja
Undervisningssted	Campus Aalborg, Campus København
Modulansvarlig	Søren Roth Djørup

ORGANISATION

Studienævn	Studienævnet for Planlægning, Geografi og Landinspektøruddannelsen
Institut	Institut for Planlægning
Fakultet	Det Tekniske Fakultet for IT og Design

SAMFUNDSØKONOMI OG PROJEKTEVALUERING – MED SIGTE PÅ EJENDOMSØKONOMI

2018/2019

MODULETS INDHOLD, FORLØB OG PÆDAGOGIK

Studerende, der gennemfører modulet, tilegner sig følgende:

LÆRINGSMÅL

VIDEN

- Grundlæggende viden om nationaløkonomiske teorier, herunder neoklassisk økonomi, miljøøkonomi og om nationalproduktbegrebet og inddragelse af økonomiens indvirkning på naturgrundlaget.
- Grundlæggende viden om konkret institutionel økonomi og herunder f.eks. om samspillet mellem teknologisk udvikling og konkret lovgivning og skattepolitik.
- Grundlæggende viden om samspillet mellem samfundsøkonomi, virksomhedsøkonomi og regional udvikling.
- Grundlæggende viden om forskellige projektevalueringsmetoder. Herunder cost-benefit metoden versus innovativ strategisk projektvurdering.
- Grundlæggende rentesregning og nuværdiberegning.
- Grundlæggende viden om eksterne sociale- og miljøomkostningers inddragelse i projektvurdering.
- Grundlæggende viden om kommunaløkonomi.
- Grundlæggende viden om samspillet mellem international og national økonomisk regulering.

Herudover gælder følgende:

- Grundlæggende viden om samspillet mellem samfunds- og ejendomsøkonomi
- Grundlæggende viden om offentlig ejendomsvurdering og -beskatning
- Grundlæggende viden om projektudvikling i forhold til byggemodning

FÆRDIGHEDER

- Kan foretage virksomheds- og samfundsøkonomiske projektvurderinger.
- Kan deltage i en konkret diskussion af afgrænsningerne i anvendte nationaløkonomiske modeller, og betydningen af disse afgrænsninger for projektevalueringer.
- Kan foretage en simpel projektevaluering med inddragelse af miljø og samfundsmæssige virkninger i vurderingen.
- Kan foretage en vurdering af et projekts samspil med lokal og regional udvikling samt kommunernes økonomi.
- Kan foretage en diskussion af konkrete institutionelle betingelsers indflydelse på udvikling i det åbne land versus udvikling i bycentrene.
- Kan analysere hvordan offentlig regulering kan fremme eller hæmme implementeringen af et givent projekt i en projektevalueringsproces.

Herudover gælder følgende:

- Har opnået grundlæggende færdigheder i relation til vurdering af de økonomiske forhold i relation ejendomsfinansiering, -beskatning mv.

KOMPETENCER

- Evne til selvstændigt og kritisk at analysere og vurdere samfundsøkonomiske modeller og disses samspil med konkrete projektevalueringer.

Herudover gælder følgende:

- Evne til selvstændigt at kunne vurdere de ejendomsøkonomiske forhold i relation til en samfundsmæssig kontekst.

For studerende, der følger modulet på kandidatniveau, gælder desuden følgende ekstra kompetencemål:

Curriculum for the Master's Programme in Geography - 2018 - Aalborg

- Kunne reflektere over fagområdet tilgang til faglige problemstillinger på højt niveau og dets relation til andre fagområder.
- Kunne inddrage vidensområdet i løsningen af komplekse faglige problemstillinger og dermed opnå ny forståelse af et givet genstandsområde.

UNDERVISNINGSFORM

Forelæsninger suppleret med øvelser og selvstudie e.lign.

EKSAMEN

PRØVER

Prøvens navn	Samfundsøkonomi og projektevaluering – med sigte på ejendomsøkonomi
Prøveform	Skriftlig eller mundtlig
ECTS	5
Bedømmelsesform	Bestået/ikke bestået
Censur	Intern prøve
Vurderingskriterier	Er angivet i Fællesbestemmelserne.

FAKTA OM MODULET

Engelsk titel	Economy and Project Evaluation – with a View to Property Economics
Modulkode	PGLLGB16603
Modultype	Kursus
Varighed	1 semester
Semester	Forår
ECTS	5
Undervisningssprog	Dansk
Tomplads	Ja
Undervisningssted	Campus Aalborg, Campus København
Modulansvarlig	Bent Hulegaard Jensen

ORGANISATION

Studienævn	Studienævnet for Planlægning, Geografi og Landinspektøruddannelsen
Institut	Institut for Planlægning
Fakultet	Det Tekniske Fakultet for IT og Design

BYEN SOM STED OG RUM

2018/2019

MODULETS INDHOLD, FORLØB OG PÆDAGOGIK

Studerende, der gennemfører modulet, tilegner sig følgende:

LÆRINGSMÅL

VIDEN

- Byens geografiske kompleksitet.
- Byens kulturgeografi på forskellige skalaer, fra det lokale til det globale.
- Relevante kulturgeografiske teorier og problemstillinger i en bymæssig kontekst.
- Det metodeteoretiske grundlag for at undersøge en konkret case i en bymæssig kontekst.

FÆRDIGHEDER

- Skal kunne organisere og gennemføre indsamling og bearbejdning af data til at identificere og udforske kulturgeografiske problemstillinger i en konkret bymæssig kontekst.
- Skal kunne gøre brug af Geografiske Informationssystemer (GIS) software til at bearbejde geodata af bygeografisk relevans til at analysere en konkret bymæssig problemstilling.
- Skal kunne anvende en relevant teoretisk ramme for at analysere en konkret bymæssig problemstilling.
- Skal kritisk kunne reflektere over projektarbejdets resultater i en videnskabsteoretisk sammenhæng.
- Skal kunne strukturere, dokumentere og formidle projektarbejdets faglige grundlag og resultater.

KOMPETENCER

- At kunne anvende, udvikle og reflektere over kulturgeografiske teorier og metoder gennem selvstændigt og problemorienteret projektarbejde.
- Kunne arbejde med bymæssige problemstillinger i en tværfaglig kontekst.

For studerende, der følger modulet på kandidatniveau, gælder desuden følgende ekstra kompetencemål:

- Kunne reflektere over fagområdets tilgang til faglige problemstillinger på højt niveau og dets relation til andre fagområder.
- Kunne inddrage vidensområdet i løsningen af komplekse faglige problemstillinger og dermed opnå ny forståelse af et givet genstandsområde.

UNDERVISNINGSFORM

Problemorienteret projektarbejde i grupper.

EKSAMEN

PRØVER

Prøvens navn	Byen som sted og rum
Prøveform	Mundtlig pba. projekt
ECTS	15
Bedømmelsesform	7-trins-skala
Censur	Ekstern prøve

Vurderingskriterier	Er angivet i Fællesbestemmelserne.
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FAKTA OM MODULET

Engelsk titel	The City as Space and Place
Modulkode	PGLGEOB16301
Modultype	Projekt
Varighed	1 semester
Semester	Efterår
ECTS	15
Undervisningssprog	Dansk
Tomplads	Ja
Undervisningssted	Campus Aalborg
Modulansvarlig	Carla Kornelia Smink

ORGANISATION

Studienævn	Studienævnet for Planlægning, Geografi og Landinspektøruddannelsen
Institut	Institut for Planlægning
Fakultet	Det Tekniske Fakultet for IT og Design

BYGEOGRAFI

2018/2019

MODULETS INDHOLD, FORLØB OG PÆDAGOGIK

Studerende, der gennemfører modulet, tilegner sig følgende:

LÆRINGSMÅL

VIDEN

- Skal kunne redegøre for byer og bysystemer, herunder de grundlæggende drivkræfter og tendenser bag byudvikling fra den lokale til den globale skala
- Skal kunne identificere og analysere urbaniseringsmønstre på lokale, nationale og internationale skalaer
- Skal kunne redegøre for forskelle og ligheder i byudviklingstendenser mellem forskellige bytyper, herunder byer i de traditionelle 'i-lande' og 'ulande'
- Skal kunne reflektere over byteori og forskellige tilgange til at forstå og analysere byen, samt deres videnskabsteoretiske og metodiske forankring
- Skal kunne reflektere over styrker og svagheder ved forskellige teorier om byen

FÆRDIGHEDER

- Skal kunne analysere byen som et socialt, økonomisk og politisk fænomen
- Skal kunne anvende byteori i en dansk såvel som international sammenhæng
- Skal kritisk kunne reflektere over aktuelle tendenser indenfor byudvikling på forskellige skalaer
- Skal kunne arbejde med komplekse problemstillinger i et givent byområde

KOMPETENCER

- Kan formidle viden om byers grundlæggende dynamikker og udviklingstendenser til såvel fagfolk som ikke-fagfolk
- Kan kritisk anvende tværdisciplinær viden fra forskellige felter til at forstå og analysere byen

For studerende, der følger modulet på kandidatniveau, gælder desuden følgende ekstra kompetencemål:

- Kunne reflektere over fagområdets tilgang til faglige problemstillinger på højt niveau og dets relation til andre fagområder.
- Kunne inddrage vidensområdet i løsningen af komplekse faglige problemstillinger og dermed opnå ny forståelse af et givet genstandsområde.

UNDERVISNINGSFORM

Forelæsninger suppleret med øvelser og selvstudier e.lign.

EKSAMEN

PRØVER

Prøvens navn	Bygeografi
Prøveform	Skriftlig eller mundtlig
ECTS	5
Bedømmelsesform	7-trins-skala
Censur	Intern prøve
Vurderingskriterier	Er angivet i Fællesbestemmelserne.

FAKTA OM MODULET

Engelsk titel	Urban Geography
Modulkode	PGLLBGB16303
Modultype	Kursus
Varighed	1 semester
Semester	Efterår
ECTS	5
Undervisningssprog	Dansk
Tomplads	Ja
Undervisningssted	Campus Aalborg
Modulansvarlig	Lars Bodum

ORGANISATION

Studienævn	Studienævnet for Planlægning, Geografi og Landinspektøruddannelsen
Institut	Institut for Planlægning
Fakultet	Det Tekniske Fakultet for IT og Design

BYGEOGRAFISKE METODER

2018/2019

MODULETS INDHOLD, FORLØB OG PÆDAGOGIK

Studerende, der gennemfører modulet, tilegner sig følgende:

LÆRINGSMÅL

VIDEN

- Skal kunne forklare udvalgte kvalitative og kvantitative metoder til indsamling af data om byen som rum og sted.
- Skal kunne bruge GIS til at analysere byen som rum og sted
- Skal kunne analysere og vurdere demografiske og andre menneskelige parametre, der relaterer sig til byens befolkning og samspillet mellem samfund, rum og sted
- Skal kunne beskrive de videnskabelige grundlag for forskellige dataindsamlingsmetoder til at analysere byen som rum og sted
- Skal kunne udlede forskelligheder, sammenfald, komplementaritet og forhold imellem akademiske og praktiske tilgange til at analysere rum og sted i en bymæssig kontekst

FÆRDIGHEDER

- Skal kunne indhente forskellige data til at forstå rum og sted i en bymæssig kontekst
- Skal kunne identificere, fremskaffe, anvende og kombinere data fra de væsentligste datasamlinger (herunder fra Danmarks Statistik og Kortforsyningen) til at forstå den bymæssige kontekst
- Skal kunne organisere og analysere indsamlede data, herunder med brug af relevante software
- Skal skriftligt, mundtligt og visuelt kunne kommunikere og formidle resultater af analyser af rum og sted
- Skal kunne strukturere feltstudier, anskaffe viden om byen og indsamle data gennem feltstudier

KOMPETENCER

- Kan selvstændigt designe en dataindsamling med henblik på at forstå rum og sted i en bymæssig kontekst.
- Kan vurdere kvalitet og relevans af data og analyser for specifikke akademiske og praktiske formål.

For studerende, der følger modulet på kandidatniveau, gælder desuden følgende ekstra kompetencemål:

- Kunne reflektere over fagområdet tilgang til faglige problemstillinger på højt niveau og dets relation til andre fagområder.
- Kunne inddrage vidensområdet i løsningen af komplekse faglige problemstillinger og dermed opnå ny forståelse af et givet genstandsområde.

UNDERVISNINGSFORM

Forelæsninger suppleret med øvelser og selvstudier e.lign.

EKSAMEN

PRØVER

Prøvens navn	Bygeografiske metoder
Prøveform	Skriftlig eller mundtlig
ECTS	5
Bedømmelsesform	Bestået/ikke bestået
Censur	Intern prøve

Vurderingskriterier	Er angivet i Fællesbestemmelserne.
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FAKTA OM MODULET

Engelsk titel	Methods in Urban Geography
Modulkode	PGLLBGB16304
Modultype	Kursus
Varighed	1 semester
Semester	Efterår
ECTS	5
Undervisningssprog	Dansk
Tomplads	Ja
Undervisningssted	Campus Aalborg, Campus København
Modulansvarlig	Lars Bodum

ORGANISATION

Studienævn	Studienævnet for Planlægning, Geografi og Landinspektøruddannelsen
Institut	Institut for Planlægning
Fakultet	Det Tekniske Fakultet for IT og Design

MENNESKE OG NATUR

2018/2019

MODULETS INDHOLD, FORLØB OG PÆDAGOGIK

Studerende, der gennemfører modulet, tilegner sig følgende:

LÆRINGSMÅL

VIDEN

- Udvalgte naturgeografiske metoder og teorier, samt deres anvendelse og begrænsninger.
- Planlægning og udførelse af naturgeografiske undersøgelser og analyser.
- Indsamling og bearbejdning af geografiske informationer for analysen af naturlandskabet.
- Processer og strukturer i landskabet og menneskets samspil med naturen

FÆRDIGHEDER

- Kunne identificere en relevant naturgeografisk problemstilling og analysere de samfundsmæssige konsekvenser af naturens processer
- Kunne vælge og anvende relevante teorier, metoder og analysetilgange.
- Redegøre for, hvordan et komplekst samspil af fysiske og kemiske processer kan analyseres ud fra feltmålinger, laboratorieanalyser, kort og litteraturstudier.
- Skal kunne anvende GIS-software til bearbejdning af geodata med henblik på analyser af data og fremstilling af kort samt opstilling af simple geografiske modeller
- Reflektere kritisk over de valgte teorier, metoder og analysetilgange.
- Reflektere kritisk over projektarbejdets resultater.
- Strukturere og formidle projektarbejdets faglige grundlag og resultater.

KOMPETENCER

- Evaluere menneskets indflydelse på naturens processer i et givet område
- Anvende og kritisk reflektere over naturgeografiske teorier og metoder gennem selvstændigt projektarbejde.
- Videnskabelig kommunikation og dokumentation af naturgeografisk projektarbejde, både skriftligt, mundtligt og visuelt.
- Vurdere egen læring i forhold til de opstillede mål og egen studieindsats.

For studerende, der følger modulet på kandidatniveau, gælder desuden følgende ekstra kompetencemål:

- Kunne reflektere over fagområdets tilgang til faglige problemstillinger på højt niveau og dets relation til andre fagområder.
- Kunne inddrage vidensområdet i løsningen af komplekse faglige problemstillinger og dermed opnå ny forståelse af et givet genstandsområde.

UNDERVISNINGSFORM

Projektvejledning.

EKSAMEN

PRØVER

Prøvens navn	Menneske og natur
Prøveform	Mundtlig pba. projekt
ECTS	15

Bedømmelsesform	7-trins-skala
Censur	Ekstern prøve

FAKTA OM MODULET

Engelsk titel	People and Nature
Modulkode	PGLGEOB16401
Modultype	Projekt
Varighed	1 semester
Semester	Forår
ECTS	15
Undervisningssprog	Dansk
Tomplads	Ja
Undervisningssted	Campus Aalborg
Modulansvarlig	Carla Kornelia Smink

ORGANISATION

Studienævn	Studienævnet for Planlægning, Geografi og Landinspektøruddannelsen
Institut	Institut for Planlægning
Fakultet	Det Tekniske Fakultet for IT og Design

HYDROLOGI OG KLIMATOLOGI

2018/2019

MODULETS INDHOLD, FORLØB OG PÆDAGOGIK

Studerende, der gennemfører modulet, tilegner sig følgende:

LÆRINGSMÅL

VIDEN

- Jordens energibalance, atmosfærens sammensætning, vejsystemer og klimaklassifikation.
- Det hydrologiske kredsløb, herunder nedbør, fordampning og afstrømningsforhold.

FÆRDIGHEDER

- Beskrive og identificere de klimatologiske forhold på stor skala og på lokal skala med henblik på at analysere klimaet i Danmark enten ved hjælp af egne målinger eller ud fra eksisterende data.
- Kvantificere nedbør, fordampning og afstrømning ved hjælp af målinger eller ved hjælp af eksisterende data og simple modeller.

KOMPETENCER

- Kunne danne sig et overblik over og analysere de klimatiske forhold og de hydrologiske forhold i et nedbørsopland.
- Kunne forklare de grundlæggende biogeografiske forhold i et givet område ud fra viden om hydrologi, klimatologi.

For studerende, der følger modulet på kandidatniveau, gælder desuden følgende ekstra kompetencemål:

- Kunne reflektere over fagområdets tilgang til faglige problemstillinger på højt niveau og dets relation til andre fagområder.
- Kunne inddrage vidensområdet i løsningen af komplekse faglige problemstillinger og dermed opnå ny forståelse af et givet genstandsområde.

UNDERVISNINGSFORM

Forelæsninger, workshops, seminarer, opgaveløsning og præsentation, lærefeedback samt feltstudier e.lign.

EKSAMEN

PRØVER

Prøvens navn	Hydrologi og klimatologi
Prøveform	Skriftlig eller mundtlig
ECTS	5
Bedømmelsesform	7-trins-skala
Censur	Intern prøve
Vurderingskriterier	Er angivet i Fællesbestemmelserne.

FAKTA OM MODULET

Engelsk titel	Hydrology and Climatology
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Modulkode	PGLGEOB16402
Modultype	Kursus
Varighed	1 semester
Semester	Forår
ECTS	5
Undervisningssprog	Dansk
Tomplads	Ja
Undervisningssted	Campus Aalborg
Modulansvarlig	Carla Kornelia Smink

ORGANISATION

Studienævn	Studienævnet for Planlægning, Geografi og Landinspektøruddannelsen
Institut	Institut for Planlægning
Fakultet	Det Tekniske Fakultet for IT og Design

LANDSKABSUDVIKLING

2018/2019

MODULETS INDHOLD, FORLØB OG PÆDAGOGIK

Studerende, der gennemfører modulet, tilegner sig følgende:

LÆRINGSMÅL

VIDEN

- Jordklodens opbygning, pladetektonik og de væsentligste bjergartsdannende processer og bjergarter
- Danmarks geologi og danske landskabstyper
- Jordbundens sammensætning og fysiske forhold samt grundlæggende jordbundskemiske processer.

FÆRDIGHEDER

- Identificere de vigtigste bjergarter og sedimenttyper og beskrive deres dannelse.
- Forklare pladetektonikkens betydning for jordklodens udvikling.
- Genkende og forklare de processer, der har formet et landskab.
- Genkende og forklare de processer, som former en jordbund.

KOMPETENCER

- Kunne danne sig et overblik over de geologiske processers indflydelse på kontinenternes dannelse og landskabets opbygning.
- At have kendskab til geologiske materialer, deres egenskaber og forekomst samt deres betydning for jordbundsudvikling og landskabsdannelse

For studerende, der følger modulet på kandidatniveau, gælder desuden følgende ekstra kompetencemål:

- Kunne reflektere over fagområdet tilgang til faglige problemstillinger på højt niveau og dets relation til andre fagområder.
- Kunne inddrage vidensområdet i løsningen af komplekse faglige problemstillinger og dermed opnå ny forståelse af et givet genstandsområde.

UNDERVISNINGSFORM

Forelæsninger, workshops, seminarer, opgaveløsning og præsentation, lærerfeedback samt feltstudier e.lign.

EKSAMEN

PRØVER

Prøvens navn	Landskabsudvikling
Prøveform	Skriftlig eller mundtlig
ECTS	5
Bedømmelsesform	7-trins-skala
Censur	Intern prøve
Vurderingskriterier	Er angivet i Fællesbestemmelserne.

FAKTA OM MODULET

Engelsk titel	Landscape Development
Modulkode	PGLGEOB16403
Modultype	Kursus
Varighed	1 semester
Semester	Forår
ECTS	5
Undervisningssprog	Dansk
Tomplads	Ja
Undervisningssted	Campus Aalborg
Modulansvarlig	Carla Kornelia Smink

ORGANISATION

Studienævn	Studienævnet for Planlægning, Geografi og Landinspektøruddannelsen
Institut	Institut for Planlægning
Fakultet	Det Tekniske Fakultet for IT og Design

NATURGEOGRAFISKE METODER

2018/2019

MODULETS INDHOLD, FORLØB OG PÆDAGOGIK

Studerende, der gennemfører modulet, tilegner sig følgende:

LÆRINGSMÅL

VIDEN

- Geografiske informationssystemer (GIS) og anvendelsen af digitale tematiske kort i geografiske analyser.
- Udvalgte naturgeografiske feltmetoder og laboratorieanalyser, herunder vandføringsmåling, måling af klimatiske parametre og fysiske og kemiske jordbundsanalyser og prøveudtagning.
- De vigtigste jordbundstyper, især af danske jordbunde.

FÆRDIGHEDER

- Udarbejde og præsentere forskellige tematiske kort over et afgrænset område med henblik på at beskrive terrænforhold, oplandsareal, jordbundstyper/geologi og arealanvendelse ved brug af GIS.
- Evne til at vælge, tilrettelægge og udføre rumlige analyser af såvel vektor som raster data.
- Evne til at fortolke og vurdere resultaterne af GIS analyser.
- Måle nedbør, fordampning og afstrømning samt udføre grundlæggende nivelleringsopgaver med landmålingsudstyr.
- Udføre jordbundsprøvetagning og lave en profilbeskrivelse.
- Vurdere størrelser og usikkerheder på feltmålinger og laboratorieanalyser.

KOMPETENCER

- Planlægning og udførelse af naturgeografisk feltarbejde og efterfølgende databehandling.
- Vurdering og anvendelse af rumlige analyser inden for naturgeografiske problemstillinger.
- Udføre rumlige analyser og fremstilling af tematiske kort i GIS.
- Sætte de målte parametre i forhold til naturgeografisk teori og kritisk kunne reflektere over benyttelsen af forskellige måle- og analysemetoder.
- Sammenstille resultaterne af forskellige målinger og analyser med henblik på at give en naturgeografisk beskrivelse af en lokalitet.
- Demonstrere fortrolighed med korrekt videnskabelig kommunikation.

For studerende, der følger modulet på kandidatniveau, gælder desuden følgende ekstra kompetencemål:

- Kunne reflektere over fagområdets tilgang til faglige problemstillinger på højt niveau og dets relation til andre fagområder.
- Kunne inddrage vidensområdet i løsningen af komplekse faglige problemstillinger og dermed opnå ny forståelse af et givet genstandsområde.

UNDERVISNINGSFORM

Feltkursus, workshops, udarbejdelse af miniprojekt i grupper e.lign.

EKSAMEN

PRØVER

Prøvens navn	Naturgeografiske metoder
Prøveform	Aktiv deltagelse/løbende evaluering

ECTS	5
Bedømmelsesform	Bestået/ikke bestået
Censur	Intern prøve
Vurderingskriterier	Er angivet i Fællesbestemmelserne.

FAKTA OM MODULET

Engelsk titel	Physical Geographical Methods and Field Work
Modulkode	PGLGEOB16404
Modultype	Kursus
Varighed	1 semester
Semester	Forår
ECTS	5
Undervisningssprog	Dansk
Tomplads	Ja
Undervisningssted	Campus Aalborg
Modulansvarlig	Carla Kornelia Sminck

ORGANISATION

Studienævn	Studienævnet for Planlægning, Geografi og Landinspektøruddannelsen
Institut	Institut for Planlægning
Fakultet	Det Tekniske Fakultet for IT og Design

BYPOLITIK OG PLANLÆGNING

2018/2019

MODULETS INDHOLD, FORLØB OG PÆDAGOGIK

Studerende, der gennemfører modulet, tilegner sig følgende:

LÆRINGSMÅL

VIDEN

- Skal have kendskab til byens komplekse rolle i samfundsudviklingen, herunder aktuelle drivkræfter, udfordringer og normer inden for byudvikling.
- Skal kunne reflektere over byplanlægningens rolle i samfundsudviklingen.
- Skal have forståelse for byudvikling og -planlægning som politisk interessefelt, herunder introduktion til planteori og grundlæggende teori om forskellige styreformers og plankulturer.
- Skal kunne redegøre for byplanlægningens rolle og indlejring i plansystemet, set ift. plansystemets komponenter og de plantyper, der udarbejdes jf. Planloven.
- Skal kunne redegøre for og forstå bypolitik og planlægning ift. relevante skalaer (fra internationalt til lokalt niveau) og forskellige plantyper (formelle som uformelle).

FÆRDIGHEDER

- Skal kunne analysere og vurdere byplanlægningens muligheder og begrænsninger i forhold til at styre byudviklingen på tværs af skalaer.
- Skal kunne analysere og vurdere forskellige plantypers (formelle såvel som uformelle) rolle i forhold til konkrete byudviklingsudfordringer, herunder samspil og koordinering mellem forskellige plantyper
- Skal kunne udpege konkrete strategiske initiativer og plantyper til at understøtte en bestemt bypolitik.

KOMPETENCER

- Kan håndtere relevante plantyper til at imødegå komplekse byudviklingsog planlægningsmæssige udfordringer.
- Kan selvstændigt indgå i det komplekse samspil mellem forskellige fagfelter i bypolitik og planlægning.
- Kan identificere og strukturere behovet for viden og egen læring i forbindelse med byudvikling og planlægning af byer.

For studerende, der følger modulet på kandidatniveau, gælder desuden følgende ekstra kompetencemål:

- Kunne reflektere over fagområdets tilgang til faglige problemstillinger på højt niveau og dets relation til andre fagområder.
- Kunne inddrage vidensområdet i løsningen af komplekse faglige problemstillinger og dermed opnå ny forståelse af et givet genstandsområde.

UNDERVISNINGSFORM

Forelæsninger suppleret med øvelser og selvstudier e.lign.

EKSAMEN

PRØVER

Prøvens navn	Bypolitik og planlægning
Prøveform	Skriftlig eller mundtlig
ECTS	5

Bedømmelsesform	Bestået/ikke bestået
Censur	Intern prøve
Vurderingskriterier	Er angivet i Fællesbestemmelserne.

FAKTA OM MODULET

Engelsk titel	Urban Governance and Planning
Modulkode	PGLLBGB16305
Modultype	Kursus
Varighed	1 semester
Semester	Efterår
ECTS	5
Undervisningssprog	Dansk
Tomplads	Ja
Undervisningssted	Campus Aalborg, Campus København
Modulansvarlig	Carsten Jahn Hansen

ORGANISATION

Studienævn	Studienævnet for Planlægning, Geografi og Landinspektøruddannelsen
Institut	Institut for Planlægning
Fakultet	Det Tekniske Fakultet for IT og Design

MOBILITET OG TRANSPORTPLANLÆGNING

2018/2019

MODULETS INDHOLD, FORLØB OG PÆDAGOGIK

Studerende, der gennemfører modulet, tilegner sig følgende:

LÆRINGSMÅL

VIDEN

- Skal have viden om den historiske udvikling indenfor mobilitets- og transportplanlægning
- Skal have viden om komplekse problemstillinger inden for mobilitet- og transportområdet, samt strategier til at kunne håndtere disse
- Skal have viden om og forståelse for samspillet mellem politik og planlægning inden for mobilitets- og transportområdet, herunder brugen af transportmodeller som politisk beslutningsværktøj
- Skal have viden om de bagvedliggende rationaler og mekanismer, der knytter sig til centrale værktøjer inden for mobilitets- og transportområdet

FÆRDIGHEDER

- Skal kunne definere transportudfordringer i hhv. et trafik- og mobilitetsperspektiv, og analysere forskellene mellem de løsningsforslag, som disse perspektiver resulterer i.
- Skal kunne analysere mobilitetsudfordringer såvel i som udenfor byerne og identificere konkrete løsninger, der imødegår disse udfordringer.

KOMPETENCER

- Kan integrere mobilitetsplanlægning med andre planlægningsområder.
- Kan udarbejde strategiske mobilitetsplaner

For studerende, der følger modulet på kandidatniveau, gælder desuden følgende ekstra kompetencemål:

- Kunne reflektere over fagområdets tilgang til faglige problemstillinger på højt niveau og dets relation til andre fagområder.
- Kunne inddrage vidensområdet i løsningen af komplekse faglige problemstillinger og dermed opnå ny forståelse af et givet genstandsområde.

UNDERVISNINGSFORM

Forelæsninger suppleret med øvelser og selvstudier e.lign.

EKSAMEN

PRØVER

Prøvens navn	Mobilitet og transportplanlægning
Prøveform	Skriftlig eller mundtlig
ECTS	5
Bedømmelsesform	Bestået/ikke bestået
Censur	Intern prøve
Vurderingskriterier	Er angivet i Fællesbestemmelserne.

FAKTA OM MODULET

Engelsk titel	Mobility and Transport Planning
Modulkode	PGLLBGB16307
Modultype	Kursus
Varighed	1 semester
Semester	Efterår
ECTS	5
Undervisningssprog	Dansk
Tomplads	Ja
Undervisningssted	Campus Aalborg
Modulansvarlig	Claus Lassen

ORGANISATION

Studienævn	Studienævnet for Planlægning, Geografi og Landinspektøruddannelsen
Institut	Institut for Planlægning
Fakultet	Det Tekniske Fakultet for IT og Design

PLANJURA OG REGULERING – MED SIGTE PÅ VARMEFORSYNINGSPANLÆGNING MV.

2018/2019

MODULETS INDHOLD, FORLØB OG PÆDAGOGIK

Studerende, der gennemfører modulet, tilegner sig følgende:

LÆRINGSMÅL

VIDEN

- Skal have kendskab til grundlæggende elementer på det miljøretlige område med tilknytning til fast ejendom, planlægning og udvikling, dvs. retsregler, -kilder, -institutioner, og -principper. Skal i den forbindelse også kunne forstå forskellen mellem offentlig og privat ret på området
- Skal have viden om og forståelse for plan- og reguleringssystemet i Danmark, herunder dets opbygning, funktion og indbyrdes sammenhæng.
- Skal særligt have kendskab til plan- og reguleringslovgivningen samt til planlægningsrelevant forvaltningsret på nationalt, regionalt og især på kommunalt og lokalt niveau
- Skal have indgående kendskab til de juridiske krav til udarbejdelse af kommunale plantyper, især lokalplanen og/eller varmforsyningsplanlægning, herunder de juridiske muligheder og begrænsninger, der knytter sig til disse plantyper
- Skal kunne forstå de juridiske krav til udarbejdelse af projektforslag til godkendelse af projekter til nye produktionsanlæg i forhold til varmforsyningsloven, herunder de juridiske muligheder og begrænsninger, der knytter sig til disse projekter

FÆRDIGHEDER

- Skal ift. en given reguleringssituation og under givne forudsætninger kunne identificere de relevante miljøretlige regler og vurdere betydningen af disse
- Skal særligt kunne anvende planlovgivning (især vedrørende kommuneog lokalplanlægning), naturbeskyttelseslovgivning, miljøbeskyttelseslovgivning, forsyningslovgivning og anden lovgivning med nær relevans for udvikling af det bebyggede miljø i forhold til konkrete udviklingsmæssige udfordringer og problemstillinger på især byniveau
- Skal kunne anvende teoretisk forståelse af de retlige muligheder og begrænsninger i udarbejdelsen af en juridisk holdbar lokalplan
- Skal have forståelse for planlægning for varmforsyning og dennes sammenhæng med andre reguleringsmæssige redskaber, herunder lokalplaner og VVM

KOMPETENCER

- Skal kunne afklare og redegøre for de miljøretlige forudsætninger i almindeligt forekommende byudviklingssituationer, herunder redegøre for og i ukomplicerede tilfælde afklare eventuelle tvivsspørgsmål ift. regelgrundlaget.
- Skal kunne håndtere almindeligt forekommende byudviklingssituationer og sikre sammenhæng i planlægningens juridiske regulerende bestemmelser
- Skal kunne indgå med miljøretlig ekspertise i tværfaglige samarbejder i de mest almindelige udviklingsorienterede situationer
- Skal selvstændigt kunne indgå i juridisk fagligt og tværfagligt samarbejde omkring udarbejdelse af projektforslag til godkendelse af projekter til nye produktionsanlæg i forhold til varmforsyningsloven, lige som der skal kunne ydes juridisk rådgivning i relation til de mest almindelige udviklingsorienterede situationer for etablering af nye produktionsanlæg

Det ovennævnte lovkompleks behandles med forbehold for navneændringer, fremkomsten af nye love og andre ændringer i den miljøretlige lovportefølje.

For studerende, der følger modulet på kandidatniveau, gælder desuden følgende ekstra kompetencemål:

Curriculum for the Master's Programme in Geography - 2018 - Aalborg

- Kunne reflektere over fagområdet tilgang til faglige problemstillinger på højt niveau og dets relation til andre fagområder.
- Kunne inddrage vidensområdet i løsningen af komplekse faglige problemstillinger og dermed opnå ny forståelse af et givet genstandsområde.

UNDERVISNINGSFORM

Forelæsninger, opgaveløsning og præsentation, lærerfeedback e.lign.

EKSAMEN

PRØVER

Prøvens navn	Planjura og regulering – med sigte på varmforsyningsplanlægning mv.
Prøveform	Skriftlig eller mundtlig
ECTS	5
Bedømmelsesform	7-trins-skala
Censur	Intern prøve
Vurderingskriterier	Er angivet i Fællesbestemmelserne.

FAKTA OM MODULET

Engelsk titel	Planning Law and Regulation – with a View to Planning for Heat Supply etc.
Modulkode	PGLLBGB16302
Modultype	Kursus
Varighed	1 semester
Semester	Efterår
ECTS	5
Undervisningssprog	Dansk
Tomplads	Ja
Undervisningssted	Campus Aalborg, Campus København
Modulansvarlig	Bent Hulegaard Jensen

ORGANISATION

Studienævn	Studienævnet for Planlægning, Geografi og Landinspektøruddannelsen
Institut	Institut for Planlægning
Fakultet	Det Tekniske Fakultet for IT og Design