



AALBORG UNIVERSITET

CURRICULUM FOR THE MASTER'S PROGRAMME IN SUSTAINABLE CITIES - 2017 - COPENHAGEN

**MASTER OF SCIENCE (MSC) IN ENGINEERING
COPENHAGEN**

MODULES INCLUDED IN THE CURRICULUM

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THE ROLE OF ORGANISATIONS AND BUSINESS IN DEVELOPING SUSTAINABLE CITIES

2018/2019

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

A student who has completed the module:

LEARNING OBJECTIVES

KNOWLEDGE

- Has thorough knowledge and understanding of the framework conditions, challenges and roles of organisations and businesses in relation to the development and design of sustainable cities, including the tools and systems which are relevant at the organisational level
- Is able to understand and, on a scientific basis, reflect on the development of sustainable cities at the organisational level, as well as to identify relevant problems in this context
- Has basic knowledge and understanding of the structure and operation of organisations
- Has knowledge of theories of science and research methods relevant to the analysis of the roles of organisations in sustainable urban development.

SKILLS

- Can identify, analyse and assess relevant problems and impacts related to sustainability
- Can understand, apply and critically reflect on relevant quantitative as well as qualitative economic, social, environmental and/or technical methods of analysis and identify the interests connected to these
- Can independently collect relevant data in relation to the challenges and problems of the project, and assess the quality and reliability of this data
- Can motivate, substantiate and communicate the general structure and methods of the project in a scientific context
- Can relate critically to sources and indicate accurate references
- Can, in relation to sustainable urban development, communicate research-based knowledge and discuss professional and scientific problems with peers as well as non-specialists

COMPETENCES

- Can structure and manage the complex combination of specific challenges related to sustainable urban development at the organisational level (business level) in his/her study and project work
- Can combine and use relevant theories, understandings, methods and analyses in such a way that these form a synthesis aimed at the formulation of concrete strategies and plans for the potential work of a business (organisation) with sustainable solutions
- Can independently initiate and participate in interdisciplinary planning tasks and cooperation at the organisational level (business level)

TYPE OF INSTRUCTION

Problem-based project work in groups

EXAM

EXAMS

Name of exam	The Role of Organisations and Business in Developing Sustainable Cities
Type of exam	Oral exam based on a project

ECTS	15
Assessment	7-point grading scale
Type of grading	Internal examination
Criteria of assessment	As outlined in the Joint Programme Regulations

FACTS ABOUT THE MODULE

Danish title	Organisationers og virksomheders rolle i bæredygtig byudvikling
Module code	PGLSUSK17101
Module type	Project
Duration	1 semester
Semester	Autumn
ECTS	15
Language of instruction	English
Empty-place Scheme	Yes
Location of the lecture	Campus Copenhagen
Responsible for the module	Brian Vad Mathiesen

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

A student who has completed the module:

LEARNING OBJECTIVES

KNOWLEDGE

- Has an understanding of the history and theoretical framework of theories of science at the Master's level
- Has an understanding of the relation between theories of science, research designs and research methods at the Master's level
- Has an understanding of the contents and interrelation of the positions of theories of science as well as the capability of relating critically to these at the Master's level
- Has a thorough knowledge of the relation of his/her own professional fields to theories of science and research designs.

SKILLS

- Can use the basic problems of theories of science in relation to the assessment of sources and references in projects at the Master's level
- Can independently assess the value and reliability of his/her own science production in relation to scientific basic problems
- Can use theories of science, research designs and research methods within his/her own fields at the research level
- Can communicate knowledge of theories of science and research designs to specialists as well as non-specialists.

COMPETENCES

- Is able to reflect critically on project-related choices of values, theories of science and methods
- Is able to continuously develop professionally through the acquisition of new knowledge of the development and renewal of theories of science and research designs.

TYPE OF INSTRUCTION

Lectures, workshops, synopses, seminars, assignments, etc.

EXAM

EXAMS

Name of exam	Theories of Science and Research Designs
Type of exam	Written exam
ECTS	5
Permitted aids	
Assessment	7-point grading scale
Type of grading	Internal examination
Criteria of assessment	As outlined in the Joint Programme Regulations.

FACTS ABOUT THE MODULE

Danish title	Videnskabsteori og forskningsdesign
Module code	PGLSUSK17102
Module type	Course
Duration	1 semester
Semester	Autumn
ECTS	5
Language of instruction	English
Empty-place Scheme	Yes
Location of the lecture	Campus Copenhagen
Responsible for the module	Brian Vad Mathiesen

ORGANISATION

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

CHALLENGES AND PLANNING FOR SUSTAINABLE CITIES

2018/2019

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

A student who has completed the module:

LEARNING OBJECTIVES

KNOWLEDGE

- Has understanding of the concepts of sustainability and sustainable development in an international context
- Has knowledge of important sustainability aspects and problems in the urban development, such as population, economy and growth, resources, climate, environment and health as well as biodiversity
- Has knowledge of the social, environmental and economic impacts of urban development.
- Has understanding of cities and their design as complex systems in which different contexts, structures and changes mutually affect each other
- Is able to understand and, on a scientific basis, reflect on the interplay between urban development and sustainable development as well as to identify scientific problems in relation to this
- Has thorough knowledge of important side effects of the most common strategies for the promotion of consideration of sustainability in urban development
- Has knowledge of the interaction of the various actors and aspects of sustainability in an urban context

SKILLS

- Can understand and reflect on the relation between institutions, organisations and other actors; their dynamics and their interaction
- Can critically analyse the environmental, social and economic impacts of urban development
- Can reflect critically on the relations between growth, innovation and sustainable development
- Can communicate research-based knowledge and discuss professional and scientific problems in relation to the interplay between urban development and sustainable development with peers and non-specialists

COMPETENCES

- Can carry out simple research investigations of sustainability aspects in an urban context in which the methodological approach takes into account the complex relations of cities

TYPE OF INSTRUCTION

Lectures, workshops, seminars, problem solving and presentation, teacher feedback, etc.

EXAM

EXAMS

Name of exam	Challenges and Planning for Sustainable Cities
Type of exam	Active participation/continuous evaluation
ECTS	5
Permitted aids	
Assessment	Passed/Not Passed

Type of grading	Internal examination
Criteria of assessment	As outlined in the Joint Programme Regulations

FACTS ABOUT THE MODULE

Danish title	Udfordringer og planlægning for bæredygtige byer
Module code	PGLSUSK17103
Module type	Course
Duration	1 semester
Semester	Autumn
ECTS	5
Language of instruction	English
Empty-place Scheme	Yes
Location of the lecture	Campus Copenhagen
Responsible for the module	Brian Vad Mathiesen

ORGANISATION

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

TOOLS AND APPROACHES TO SUSTAINABLE DEVELOPMENT

2018/2019

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

A student who has completed the module:

LEARNING OBJECTIVES

KNOWLEDGE

- Has thorough knowledge of sustainability problems in organisations
- Has thorough knowledge of selected types of tools and systems for the promotion of sustainable development at the organisational level
- Has understanding of the strengths and weaknesses of selected tools and systems in relation to the organisational context
- Has knowledge of investment economic aspects at the project level
- Has knowledge of impact assessment, including economic impacts at the project and organisational levels, as well as of the interaction between the different instruments applied in an urban development perspective
- Has knowledge of the structure and operation of organisations involved in sustainable urban development

SKILLS

- Can analyse and assess selected tools and approaches to embedding the sustainability efforts into an organisation, from mapping and documentation to securing continuous improvements through motivation, participation, etc.
- Can use the selected tools and approaches as the basis for developing proposals for sustainability-related improvements
- Can understand different types of organisations; map important stakeholders and initiate a relevant dialogue with these
- Can, by the use of various tools, assess the effects of initiatives seen in relation to sustainable urban development.

COMPETENCES

- Can reflect critically on the selection of tools and approaches, including critically assess results and conclusions
- Can understand and reflect on theory, assessment methods and analytical tools within the relevant fields
- Can continually adjust and adapt different tools and systems to the present challenges and needs of an organisation

TYPE OF INSTRUCTION

Lectures, workshops, seminars, problem solving and presentation, teacher feedback, etc.

EXAM

EXAMS

Name of exam	Tools and Approaches to Sustainable Development
Type of exam	Written or oral exam
ECTS	5
Permitted aids	

Assessment	Passed/Not Passed
Type of grading	Internal examination
Criteria of assessment	As outlined in the Joint Programme Regulations

FACTS ABOUT THE MODULE

Danish title	Værktøjer og tilgange til bæredygtig udvikling
Module code	PGLSUSK17104
Module type	Course
Duration	1 semester
Semester	Autumn
ECTS	5
Language of instruction	English
Empty-place Scheme	Yes
Location of the lecture	Campus Copenhagen
Responsible for the module	Brian Vad Mathiesen

ORGANISATION

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

SUSTAINABLE CITIES FROM AN INSTITUTIONAL AND SOCIETAL PERSPECTIVE

2018/2019

PREREQUISITE/RECOMMENDED PREREQUISITE FOR PARTICIPATION IN THE MODULE

The module adds to the knowledge obtained in 1st Semester.

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

A student who has completed the module:

LEARNING OBJECTIVES

KNOWLEDGE

- Has thorough knowledge and understanding of the societal framework conditions and challenges in relation to sustainable urban development
- Has knowledge of project-related quantitative and qualitative economic, sociological, environmental and/or technical methods of analysis
- Has thorough knowledge and understanding of different societal interests and roles of actors in relation to sustainable urban development as well as the possibilities and challenges characterising the interplay between different actors
- Has knowledge of planning processes related to sustainable urban development, including the influence of political, economic and other interests in relation to power

SKILLS

- Can analyse and understand the handling of problems related to sustainable urban development at a societal level, including the integration of policies, instruments and institutional aspects seen in relation to the way in which society handles problems of sustainability
- Can analyse and understand the potentials and challenges in the development of cooperation relations, including public-private partnerships, networks, etc.
- Can formulate and analyse potential strategies for sustainable urban development, based on an analysis of the societal conditions
- Can identify, analyse and assess project-related problems and impacts related to sustainability in a societal perspective, including understand the interplay between the local, regional and national levels
- Can analyse and critically reflect on policies, strategies and plans for urban development in terms of their impacts and potentials for urban development
- Can understand, apply and critically reflect on relevant quantitative as well as qualitative economic, sociological, environmental and/or technical methods of analysis and identify the interests connected to these
- Can independently collect data in relation to relevant societal problems and assess the quality and reliability of this data
- Can motivate and substantiate the general structure and methods of the project in a scientific context
- Can relate critically to sources and indicate accurate references
- Can communicate the result of the project to a selected target audience

COMPETENCES

- Can structure and manage the complex combination of specific challenges which relate particularly to environment and sustainable development at the societal level
- Can combine and use relevant theories, understandings, methods and analyses in such a way that these form a synthesis aimed at the formulation of concrete strategies and plans for the institutional and socially determined potentials for working with innovative sustainable solutions
- Can independently initiate and participate in interdisciplinary planning tasks and cooperation across social levels, nationalities and cultures

TYPE OF INSTRUCTION

Problem-oriented project work in groups

EXAM

EXAMS

Name of exam	Sustainable Cities from an Institutional and Societal Perspective
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	As outlined in the Joint Programme Regulations

FACTS ABOUT THE MODULE

Danish title	Bæredygtig byudvikling i et institutionelt og samfundsmæssigt perspektiv
Module code	PGLSUSK17201
Module type	Project
Duration	1 semester
Semester	Spring
ECTS	15
Language of instruction	English
Empty-place Scheme	Yes
Location of the lecture	Campus Copenhagen
Responsible for the module	Brian Vad Mathiesen

ORGANISATION

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

POLICY, PLANNING AND GOVERNANCE

2018/2019

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

A student who has completed the module:

LEARNING OBJECTIVES

KNOWLEDGE

- Has knowledge of power, politics and policies in relation to decision-making processes based on national and international research
- Has knowledge of governance and planning in relation to decision-making processes based on national and international research
- Has knowledge of discourses, institutions and actors as tools of analysis in relation to decision-making processes based on national and international research
- Has the ability to reflect critically on the use of the concepts and methods of analysis presented

SKILLS

- Is able to, at an advanced level, apply the concepts and methods of analysis introduced to concrete problems
- Is able to, independently, develop and introduce new concepts and methods of analysis in relation to problems relevant to his/her own professional competence
- Can communicate knowledge of policies, planning and governance to specialists as well as non-specialists.

COMPETENCES

- Is able to critically and independently apply and develop the concepts and methods of analysis presented to problem-based project work
- Is able to develop professionally on a continuous basis through the acquisition of new knowledge of policy, planning and governance.

TYPE OF INSTRUCTION

Lectures, workshops, synopses, fieldwork, seminars, assignments, etc.

EXAM

EXAMS

Name of exam	Policy, Planning and Governance
Type of exam	Written or oral exam
ECTS	5
Permitted aids	
Assessment	7-point grading scale
Type of grading	Internal examination
Criteria of assessment	As outlined in the Joint Programme Regulations.

FACTS ABOUT THE MODULE

Danish title	Politik, planlægning og governance
Module code	PGLSUSK17202
Module type	Course
Duration	1 semester
Semester	Spring
ECTS	5
Language of instruction	English
Empty-place Scheme	Yes
Location of the lecture	Campus Copenhagen
Responsible for the module	Brian Vad Mathiesen

ORGANISATION

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

SYSTEMS AND STRUCTURES OF THE CITY

2018/2019

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

A student who has completed the module:

LEARNING OBJECTIVES

KNOWLEDGE

- Has knowledge of the basic structures of the city, such as buildings, infrastructure and transport
- Has knowledge of different models for the development and design of cities and the impacts of these models
- Has knowledge of political approaches which influence sustainable urban development, including strategic planning
- Has knowledge of technological approaches to the promotion of sustainable innovation and growth
- Has knowledge of methods and experiences in relation to the social development and conditions of life of the city

SKILLS

- Can assess and combine different approaches to promoting sustainable development in an urban context
- Can critically analyse policies, strategies and models for sustainable urban development in a concrete context

COMPETENCES

- Can independently initiate and participate in interdisciplinary planning tasks and cooperation
- Can independently assume responsibility for his/her own professional development and specialisation

TYPE OF INSTRUCTION

Lectures, workshops, seminars, problem solving and presentation, teacher feedback, etc.

EXAM

EXAMS

Name of exam	Systems and Structures of the City
Type of exam	Written or oral exam
ECTS	5
Permitted aids	
Assessment	7-point grading scale
Type of grading	Internal examination
Criteria of assessment	As outlined in the Joint Programme Regulations

FACTS ABOUT THE MODULE

Danish title	Byens strukturer og systemer
Module code	PGLSUSK17203
Module type	Course

Duration	1 semester
Semester	Spring
ECTS	5
Language of instruction	English
Empty-place Scheme	Yes
Location of the lecture	Campus Copenhagen
Responsible for the module	Brian Vad Mathiesen

ORGANISATION

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

ECONOMIC, SOCIAL AND ENVIRONMENTAL IMPACT ASSESSMENT

2018/2019

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

A student who has completed the module:

LEARNING OBJECTIVES

KNOWLEDGE

- Has knowledge of economic impact assessment in the public and private sectors; social and environmental impact assessment, as well as the interaction between assessment, implementation and public regulation
- Has knowledge of economic models and their significance for sustainable development
- Has knowledge of assessment methods and tools, such as feasibility studies, presentation of scenarios/alternatives and risk assessment.

SKILLS

- Can assess fields of application of assessment methods and tools, including the critical assessment of results and conclusions based on different methods and tools
- Can understand and critically reflect on theory, assessment methods and tools of analysis in the given fields

COMPETENCES

- Can independently assess economic, social and environmental impacts in relation to sustainable urban development
- Can participate in interdisciplinary cooperation in relation to economic, social and environmental assessment

TYPE OF INSTRUCTION

Lectures, workshops, seminars, problem solving and presentation, teacher feedback, etc.

EXAM

EXAMS

Name of exam	Economic, Social and Environmental Impact Assessment
Type of exam	Written or oral exam
ECTS	5
Permitted aids	
Assessment	7-point grading scale
Type of grading	Internal examination
Criteria of assessment	As outlined in the Joint Programme Regulations

FACTS ABOUT THE MODULE

Danish title	Økonomisk, social og miljømæssig konsekvensvurdering
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Module code	PGLSUSK17204
Module type	Course
Duration	1 semester
Semester	Spring
ECTS	5
Language of instruction	English
Empty-place Scheme	Yes
Location of the lecture	Campus Copenhagen
Responsible for the module	Brian Vad Mathiesen

ORGANISATION

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

PROFESSIONAL DEVELOPMENT

2018/2019

PREREQUISITE/RECOMMENDED PREREQUISITE FOR PARTICIPATION IN THE MODULE

The module adds to the knowledge obtained in 1st Semester (and attended the courses and examinations of the 2nd Semester).

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

On 3rd Semester, the student may choose among the following options:

Option 1: Project Semester – with or without integrated internship

The student can choose to complete a traditional project Semester, which will usually build on the professional field in which the student has specialised during the 1st and 2nd Semesters, and/or serve as a preparation for the subject which the student wishes to treat in his/her master's thesis. The Semester comprises the writing of a project report or a scientific paper, of which the supervisor may be the co-writer.

The student may choose to integrate an internship either in Denmark or abroad during the project Semester. The internship must be of maximum 2-4 months' duration and must be approved in advance by the Study Board of Planning, Geography and Surveying. Specific learning goals must be identified for each individual internship, clearly reflecting the professional problem defined for the project.

A student who has followed the 1st and 2nd Semesters of Sustainable Cities may, as an alternative, choose to follow the 1st Semester of one of the specialisations of the Master's Programme in Urban, Energy and Environmental Planning or MSc Geography. In that case, the student follows the course modules and project module of this Semester in full and thus acquires the knowledge, skills and competences described in the curriculum of this 3rd Semester.

Option 2: International or National Credit

By prior approval of the Study Board, the 3rd Semester may be transferred to another educational institution in Denmark or abroad. Prior approval

(pre-credit) may be expected if the studies at another educational institution can give the student knowledge, skills and competences corresponding to the extent and knowledge, skills and competences that could otherwise be acquired by following the "Project Semester – with or without Integrated Internship", see above.

Option 3: Extended Final Project (Master's Thesis)

Students may choose to complete the 3rd and 4th Semesters as one extended master's thesis (60 ECTS). An extended final project is especially recommended in the project work which requires an extraordinary collection of data. Final projects must be approved in advance by the Study Board of Planning, Geography and Surveying, and the student must meet the requirements indicated for master's theses in terms of knowledge, skills and competences (see below).

A student who has completed the module:

LEARNING OBJECTIVES

KNOWLEDGE

- Has knowledge based on the highest international research within a selected part of his/her field of specialisation
- Is able to understand and critically relate to the knowledge of the field and identify scientific or practical problems in a given complex context

SKILLS

- Can master the scientific methods and tools of the field as well as general skills in relation to the solution of the chosen problem
- Can assess and choose among the scientific methods, tools and general skills of the field and draw up new models of analysis and solution
- Can discuss professional and scientific problems with both peers and non-specialists

COMPETENCES

- Is able to manage work and development situations which are complex and unpredictable and require new solution models
- Is able to independently initiate and carry through professional and interdisciplinary cooperation and assume a professional responsibility
- Is able to independently assume responsibility for his/her own professional development and specialisation

TYPE OF INSTRUCTION

Problem-based project work, possibly with an integrated internship

EXAM

EXAMS

Name of exam	Professional Development
Type of exam	Oral exam based on a project
ECTS	30
Permitted aids	
Assessment	7-point grading scale
Type of grading	Internal examination

FACTS ABOUT THE MODULE

Danish title	Faglig og professionel udvikling
Module code	PGLSUSK17301
Module type	Project
Duration	1 semester
Semester	Autumn
ECTS	30
Language of instruction	English
Empty-place Scheme	Yes
Location of the lecture	Campus Copenhagen
Responsible for the module	Brian Vad Mathiesen

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

Has passed the first three semesters of Sustainable Cities.

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

A student who has completed the module:

LEARNING OBJECTIVES

KNOWLEDGE

- Has thorough knowledge of relevant theories and methods in relation to the chosen problem and can reflect on these
- Can describe the theory or theories used in such a way that the special characteristics of the theory are brought to light and thereby document the understanding of the possibilities and limitations of the theories applied within the concerned field of problems
- Has knowledge of the scientific and methodical basis of the used theories and can reflect on these
- Has thorough knowledge of the research basis of the chosen problems, including knowledge of the most important national and international research in the field.

SKILLS

- Can independently plan and carry through a project course at a high professional level
- Can account for possible methods for solution of the problem presented in the project and describe and assess the suitability of the chosen method, including an account of the chosen limitations and their impact on the results of the product
- Can account for the relevance of the chosen problem for the study programme, including a precise account of the core of the problem and the professional context in which it appears
- Can analyse and describe the chosen problem by using relevant theories and empirical data
- Can analyse and assess the results of empirical studies, both the student's own investigations and those of others, including an assessment of the impact of the investigation method on the validity of the results
- Can point out relevant future strategies, possibilities of change and/or suggested solutions
- Can communicate knowledge of the problem to both professionals and non-professionals.

COMPETENCES

- Can form a synthesis between the professional problem and theoretical and empirical studies and make a critical assessment of the synthesis formed and the other results of the project work
- Can independently, on the basis of the acquired problem, participate in interdisciplinary discussions and development work
- Can independently acquire the most recent knowledge in the field and is, on this basis, able to continually develop his/her professional skills and competences.

TYPE OF INSTRUCTION

Problem-oriented project work in groups

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	As outlined in the Joint Programme Regulations

FACTS ABOUT THE MODULE

Danish title	Kandidatspeciale
Module code	PGLSUSK17401
Module type	Project
Duration	1 semester
Semester	Spring
ECTS	30
Language of instruction	English
Empty-place Scheme	Yes
Location of the lecture	Campus Copenhagen
Responsible for the module	Brian Vad Mathiesen

ORGANISATION

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