

STUDIEORDNINGEN FOR KANDIDATUDDANNELSEN I SERVICE SYSTEM DESIGN, 2017

CAND.SCIENT. KØBENHAVN

MODULER SOM INDGÅR I STUDIEORDNINGEN

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SERVICES AS INTERACTION 2019/2020

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

LEARNING OBJECTIVES

KNOWLEDGE

Students who complete the module will obtain the following qualifications

- · Must be able to understand time and interaction related issues in specific service cases
- · Must be able to apply appropriate methods and tools to organise sequences of events and interactions in a service
- Must be able to Understand technological, material, social and cultural aspects relating to design of services and interaction

SKILLS

Students who complete the module will obtain the following qualifications

- Must be able to analyse the products' interplay with users and take into consideration and account for the contextual circumstances that necessitate a particularly active behaviour and analysis.
- Must be able to carry out an analysis of problem areas relating to the design of the interaction between products and their users.
- Must be able to synthesise technical, time and interaction related, social and cultural aspects into a design proposal.

COMPETENCES

Students who complete the module will obtain the following qualifications

- Must be able to design products and services integrating technical and user aspects through proposal-making (synthesis) and assess their integration.
- Must be able to adequate competences to present the project and the process in a professionally appropriate way by applying relevant media and techniques

TYPE OF INSTRUCTION

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

EXAM

Name of exam	Services for Interaction
Type of exam	Written or oral exam Exam format: In accordance with the current Joint Programme Regulations and directions on examination from the Study Board for Media Technology:

	Oral (based on a presentation and discussion of a project) or written (in the form of a project/process report) examination with internal censor. The assessment is performed in accordance with the 7-point scale.
ECTS	15
Permitted aids	With certain aids: See semester description.
Assessment	7-point grading scale
Type of grading	Internal examination
Criteria of assessment	The criteria of assessment are stated in the Examination Policies and Procedures

Danish title	Service som interaktion
Module code	MSNSSDM1171
Module type	Project
Duration	1 semester
Semester	Autumn
ECTS	15
Language of instruction	English
Location of the lecture	Campus Copenhagen
Responsible for the module	Claus Brøndgaard Madsen

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

USER EXPERIENCE DESIGN FOR SERVICE INTERACTION

2019/2020

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

This course trains students to research, analyse, prototype and conceptualise design considering all system aspects including the social and cultural contexts of use. The course gives a comprehensive knowledge about user involvement in the design process, going beyond traditional methods such as usability lab testing.

Experience prototyping techniques and interaction design methods will be introduced with the aim of better understanding and representing the different levels of interaction within a service. The objectives are realised by presenting methods and tools in a case based framework and through the students' active participation in workshops and assignments.

LEARNING OBJECTIVES

KNOWLEDGE

Students who complete the course module will obtain the following qualifications:

- · Knowledge about the system design methods including the social and cultural contexts of use.
- · Knowledge about ethnographic study methods for user behaviour research
- Knowledge about advanced qualitative research methods involving both design, data collection, data analysis and reporting.
- · Knowledge about validity and reliability within qualitative methods
- · Knowledge about interaction design methods

SKILLS

Students who complete the course module will obtain the following qualifications:

- Apply the taught methods to solve concrete design problems.
- · Able to evaluate and compare and apply the methods for a specific design problem.
- Understand user analysis and organise data from and interaction in a way that can be used in the design process (synthesis).
- Apply knowledge to facilitate the design process involving users in real-life contexts.
- Apply personas and scenario based design methods in different contexts for facilitating both different user types and system descriptions.
- Apply data into specific strategies for implementation taken different stakeholders into consideration.

COMPETENCES

Students who complete the course module will obtain the following qualifications:

- Ability to choose the appropriate methods to suit different dimensions of a design problem at different stages in the process and the pitfalls of each approach (synthesis)
- · Understanding the strengths and weaknesses of methods.

TYPE OF INSTRUCTION

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

EXAM

EXAMS

Name of exam	User Experience Design for Service Interaction
Type of exam	Written or oral exam Individual oral (based on presentation and discussion) or written (based on a report) examination with internal censor. The assessment is performed in accordance with the 7-point scale.
ECTS	5
Permitted aids	With certain aids: See semester description.
Assessment	7-point grading scale
Type of grading	Internal examination
Criteria of assessment	The criteria of assessment are stated in the Examination Policies and Procedures

FACTS ABOUT THE MODULE

Danish title	Brugeroplevelse af serviceinteraktion
Module code	MSNSSDM1172
Module type	Course
Duration	1 semester
Semester	Autumn
ECTS	5
Language of instruction	English
Location of the lecture	Campus Copenhagen
Responsible for the module	Claus Brøndgaard Madsen

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

DESIGNING PRODUCT SERVICE SYSTEMS 2019/2020

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

This module will introduce design thinking and service design and provide knowledge and methodological tools to analyse existing services and to develop new services. The course will provide an overview of analytical methods to understand and integrate user's needs, design methods to control and organise time and interaction-based elements of a services and representation techniques that can be used to communicate with the various actors involved in a service system.

LEARNING OBJECTIVES

KNOWLEDGE

Students who complete the module will obtain the following qualifications:

- Understand the foundations of design thinking as a learning approach
- · Understand the nature and characteristics of services
- Understand and be able to explain differences and analogies between products and services in relation to the design process
- Understand the structure of a service in relation to its time, experience and interaction factors
- Understand the nature and characteristics of the interaction between service providers, technologies and users in a service encounter

SKILLS

Students who complete the module will obtain the following qualifications:

- Capability to apply the design thinking approach to real problems
- Capability to apply adequate analytical and interpretation tools to integrate users' needs and support users' participation in the design process
- · Ability to design a service, its structure, components and actors (synthesis)
- Ability to organise sets of operations, sequence of events, interactions and material evidences in a service (synthesis)
- Capability to apply adequate representation techniques to communicate the structure of the service to people with different knowledge and technical/cultural background

COMPETENCES

Students who complete the module will obtain the following qualifications:

· Ability to select and apply an appropriate approach to the analysis and the design of a service.

TYPE OF INSTRUCTION

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

EXAM

EXAMS

Name of exam	Designing Product Service Systems
Type of exam	Written or oral exam Individual oral (based on presentation and discussion) or written (based on a report) examination with internal censor. The assessment is performed in accordance with the 7-point scale.
ECTS	5
Permitted aids	With certain aids: See semester description.
Assessment	7-point grading scale
Type of grading	Internal examination
Criteria of assessment	The criteria of assessment are stated in the Examination Policies and Procedures

FACTS ABOUT THE MODULE

Danish title	Design af produkt-servicesystemer
Module code	MSNSSDM1173
Module type	Course
Duration	1 semester
Semester	Autumn
ECTS	5
Language of instruction	English
Location of the lecture	Campus Copenhagen
Responsible for the module	Claus Brøndgaard Madsen

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

PROGRAMMING FOR SERVICES 2019/2020

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

The module will introduce the basic concepts of programming needed to understand and to work with the most used applications in interaction design and with digital devices that can be used for service platforms.

LEARNING OBJECTIVES

KNOWLEDGE

Students who complete the course module will obtain the following qualifications:

- · Understand integrated development environments
- · Understand recursive functions
- · Understand types, declarations, expressions and statements
- Understand the complexity of a program
- · Understand libraries and the concept of linking

SKILLS

Students who complete the course module will obtain the following qualifications:

- Design an event-driven interactive interface, e.g., a simple app or a touch-point of a service and integrate external libraries (application)
- Interpret and analyze a basic program
- Work out the complexity of a program (understanding)
- Explain how to use algorithms, functions and data for solving problems (understanding)

COMPETENCES

- Evaluate (analysis) existing code, judge its design and recommend changes
- Evaluate and select the right platform to be used for supporting a specific service applica-tion

TYPE OF INSTRUCTION

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

EXAM

Name of exam	Programming for Services
Type of exam	Written or oral exam In accordance with the current Joint Programme Regulations and directions on examination from the Study Board for Media Technology: Individual oral (based on presentation and discussion) or written (based on a report) examination with internal censor. The assessment is performed in accordance with the 7-point scale.
ECTS	5
Permitted aids	With certain aids: See semester description.
Assessm ent	7-point grading scale

Type of grading	Internal examination
Criteria of assessm ent	The criteria of assessment are stated in the Examination Policies and Procedures

Danish title	Programmering for service
Module code	MSNSSDM1174
Module type	Course
Duration	1 semester
Semester	Autumn
ECTS	5
Language of instruction	English
Location of the lecture	Campus Copenhagen
Responsible for the module	Claus Brøndgaard Madsen

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

SERVICES AS SYSTEMS 2019/2020

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

The objective of this project module is to give hands-on experience on the design of a complex service on the basis of a modular platform, in which actors and competences are clearly identified, organizational and interaction aspects are planned and user participation is planned and supported.

LEARNING OBJECTIVES

KNOWLEDGE

Students who complete the project module will obtain the following qualifications:

- Must be able to understand the nature and structure of distributed system
- Must be able to organise, explain and discuss the role, capabilities and relevance of different components/actors in a product service system (synthesis)

SKILLS

Students who complete the project module will obtain the following qualifications:

- Must be able to plan and describe competences of different components/actors in a modular service architecture and to organise them appropriately (synthesis)
- Must be able to apply techniques that support the participation of actors with different backgrounds, skills and culture
- · Must be able to integrate technical and human components on a service platform (synthesis)

COMPETENCES

Students who complete the project module will obtain the following qualifications:

- Must be able to plan adequate systemic structures for the organisation of services (synthesis)
- Must be expert in planning and supporting collaboration, participation and integration of different components in a service system (synthesis)

TYPE OF INSTRUCTION

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

EXAM

PREREQUISITE FOR ENROLLMENT FOR THE EXAM

· The module adds to the knowledge obtained in the 1st semester.

Name of exam	Services as Systems
Type of exam	Written or oral exam Oral (based on a presentation, video, prototypes and discussion of a project) or written (based on a project/process report) examination with external censor. The assessment is performed in accordance with the 7-point scale.

ECTS	15	
Permitted aids	With certain aids: See semester description.	
Assessment	7-point grading scale	
Type of grading	External examination	
Criteria of assessment	The criteria of assessment are stated in the Examination Policies and Procedures	

Danish title	Services som systemer
Module code	MSNSSDM2171
Module type	Project
Duration	1 semester
Semester	Spring
ECTS	15
Language of instruction	English
Location of the lecture	Campus Copenhagen
Responsible for the module	Claus Brøndgaard Madsen

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

TECHNOLOGICAL AND ORGANIZATIONAL TRENDS IN SERVICE DESIGN

2019/2020

PREREQUISITE/RECOMMENDED PREREQUISITE FOR PARTICIPATION IN THE MODULE

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

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

The objective of this model is to introduce a higher level of complexity in the design of services that allows for the definition of modular systems and service platforms in both IT-based and physical services. In this model, students will develop an understanding of all the technical and non-technical elements that are needed to provide successful services and operate a service architecture.

LEARNING OBJECTIVES

KNOWLEDGE

Students who complete the course module will obtain the following qualifications:

- Understand the key technologies behind social networking, search engines, organisation of content and user-generated tagging
- · Understand the IT infrastructure needed to support living services
- · Understand the concepts of "service architecture"
- Analyse, explain and discuss methods for managing systemic components of services: user involvement, complex interaction among the stakeholders, personalization, context of use, etc.
- Analyse drivers and barriers for introduction of new ICT services from a technology, user and market perspective
- · Understand the concept of modularisation of products and services
- · Understand and explain the potential benefits of modularisation, in respect to personalisation of service
- Apply techniques and tools to control key technologies behind social networking, search engines, organisation of content and user-generated tagging

SKILLS

Students who complete the course module will obtain the following qualifications:

- Classify services and outline the requirements that a given service imposes on networks and terminals (analysis)
- **Understand** and **apply** user-centred service development and stakeholder analysis in setting up the requirements specification for a service
- Be able to **analyse** and evaluate various dimensions of modular products and services
- · Be able to position modular products and services in a specific business context (analysis).
- Be able to apply different concepts and theories to specific cases

COMPETENCES

Students who complete the course module will obtain the following qualifications:

- Analyse and design (synthesis) a realistic ICT or physical service (on a conceptual level) to address an identified
 user need and discuss the service architecture needed to realise the proposed service
- · Demonstrate understanding through application in exercises and cases of:
 - Various types of products and services
 - Various organizations characterized by differences in maturity and size

TYPE OF INSTRUCTION

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

EXAM

PREREQUISITE FOR ENROLLMENT FOR THE EXAM

• The module adds to the knowledge obtained in the 1st semester.

EXAMS

Name of exam	Computing Infrastructure Management
Type of exam	Written or oral exam Individual oral (based on presentation and discussion) or written (based on a report) examination with internal censor. The assessment is performed in accordance with the 7-point scale.
ECTS	5
Permitted aids	With certain aids: See semester description.
Assessment	7-point grading scale
Type of grading	Internal examination
Criteria of assessment	The criteria of assessment are stated in the Examination Policies and Procedures

FACTS ABOUT THE MODULE

Danish title	Teknologiske og organisatoriske trends i service design
Module code	MSNSSDM2175
Module type	Course
Duration	1 semester
Semester	Spring
ECTS	5
Language of instruction	English
Location of the lecture	Campus Copenhagen
Responsible for the module	Claus Brøndgaard Madsen

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

USER PARTICIPATION AND SOCIAL INNOVATION 2019/2020

PREREQUISITE/RECOMMENDED PREREQUISITE FOR PARTICIPATION IN THE MODULE

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

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

The purpose of this module is to provide students with advanced knowledge and methods to interact with users and involve them in a process of co-design and participation. In this module, exercises and theoretical reflections will also be proposed to analyse and evaluate design action on innovation in specific social contexts. The students will learn to use methods and techniques from different disciplinary contexts and adapt them in order to stimulate and support users' participation and the interpretation of their needs, behaviour and attitudes in relation to their social and cultural context.

LEARNING OBJECTIVES

KNOWLEDGE

Students who complete the course module will obtain the following qualifications:

- Understand the potential of methods and tools deriving from different disciplines for the development of a design process
- · Knowledge about theories and practice of innovation in social contexts
- · Extensive knowledge about participatory design and co-design theories and methodological approach
- Understand the relevance of participatory design approach on specific applications of services in the public and private sector
- · Understand the implications and characteristics of innovation processes in open and distributed systems

SKILLS

Students who complete the course module will obtain the following qualifications:

- Apply advanced knowledge about user centred techniques to support users' co-creation and participation
- Support user participation by developing prototypes (synthesis) that simulate and provide evaluation elements on user interaction and participation
- · Apply specific methods and tools to engage with users
- Develop design strategies that take into account specific socio-technical contexts (synthesis
- Evaluate the social-technical implications of design intervention in social contexts

COMPETENCES

Students who complete the course module will obtain the following qualifications:

- Plan and develop user-oriented design activities in relation to a specific design task and context (synthesis)
- Plan users involvement and participation in the design process (synthesis)

TYPE OF INSTRUCTION

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

EXAM

EXAMS

Name of exam	User Participation and Social Innovation	
Type of exam	Written or oral exam Individual oral (based on presentation and discussion) or written (based on a report) examination with internal censor. The assessment is performed in accordance with the 7-point scale.	
ECTS	5	
Permitted aids	With certain aids: See semester description.	
Assessment	7-point grading scale	
Type of grading	Internal examination	
Criteria of assessment	The criteria of assessment are stated in the Examination Policies and Procedures	

FACTS ABOUT THE MODULE

Danish title	Brugerinvolvering og social innovation
Module code	MSNSSDM2173
Module type	Course
Duration	1 semester
Semester	Spring
ECTS	5
Language of instruction	English
Location of the lecture	Campus Copenhagen
Responsible for the module	Claus Brøndgaard Madsen

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

SERVICES REPRESENTATION AND PROTOTYPING 2019/2020

PREREQUISITE/RECOMMENDED PREREQUISITE FOR PARTICIPATION IN THE MODULE

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

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

The purpose of this module it to provide students with advanced knowledge of techniques and tools to represent non-functional aspects of services such as time sequences, interactions and experiences. The students will learn how to use narrative, visual and multimodal techniques to communicate nature and characteristics of services and how to use rapid prototyping techniques to represent specific service touch points and experiences.

LEARNING OBJECTIVES

KNOWLEDGE

Students who complete the course module will obtain the following qualifications:

- Knowledge about different levels, qualities and perceptions of experience in services
- Understand advanced representation techniques to represent experience in a service
- Extensive and advanced knowledge about storytelling and narrative techniques
- · Some knowledge about video editing and video sketching techniques
- · Knowledge of basics paradigms on embedded systems and sensors technology
- · Some knowledge about video editing and video sketching techniques

SKILLS

Students who complete the course module will obtain the following qualifications:

- Apply narrative techniques to represent service experiences
- Apply appropriate modality of interaction with users according to the level of their involvement in the service and the context of use
- · Apply video sketching as a fast and rich representation technique
- Apply Human Machine Interaction and rapid prototyping techniques to materialize service touch-points and to create tangible service representations
- Capability to convert human input into data output
- · Apply methods to test experience qualities such as usability, sociability, likeability, etc. in services

COMPETENCES

Students who complete the course module will obtain the following qualifications:

- · Involve users and reflect on their role in relation to the co-design of services and experiences
- Represent experience-related aspects in services (synthesis)
- · Manage and process data in relation to the design of experience in services (synthesis)

TYPE OF INSTRUCTION

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

EXAM

EXAMS

Name of exam	Services Representation and Prototyping	
Type of exam	Written or oral exam Individual oral (based on presentation/videos and discussion) or written (based on a report) examination with internal censor. Assessment: pass/fail.	
ECTS	5	
Permitted aids	With certain aids: See semester description.	
Assessment	Passed/Not Passed	
Type of grading	Internal examination	
Criteria of assessment	The criteria of assessment are stated in the Examination Policies and Procedures	

FACTS ABOUT THE MODULE

Danish title	Services, repræsentation og prototyping
Module code	MSNSSDM2174
Module type	Course
Duration	1 semester
Semester	Spring
ECTS	5
Language of instruction	English
Location of the lecture	Campus Copenhagen
Responsible for the module	Claus Brøndgaard Madsen

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

PROJECT-ORIENTED WORK IN A COMPANY 2019/2020

PREREQUISITE/RECOMMENDED PREREQUISITE FOR PARTICIPATION IN THE MODULE

The module adds to the knowledge obtained in the 2nd semester.

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

The purpose of this project module is to give the students the opportunity to have a *hands-on* experience in service design with a company or an organisation. The project can be developed as an internship at the company or through cooperation between the student, the university, and the company.

LEARNING OBJECTIVES

KNOWLEDGE

Students who complete the project module will obtain the following qualifications:

- Must have practical, conceptual and professional knowledge that qualify the role and value of service design practice
- Must have knowledge and relevant professional, business related and organizational issues that are relevant for the design practice

SKILLS

Students who complete the project module will obtain the following qualifications:

- · Must be able to understand and engage with a professional environment in relation to service design assignments
- Must be able to analyse, understand and synthesise strategic issues in design practice on the basis of the knowledge acquired in the previous courses

COMPETENCES

Students who complete the project module will obtain the following qualifications:

 Must be able to manage and solve (synthesis) systemic tasks related to service design in cross-disciplinary teams in a company, design studio or similar

TYPE OF INSTRUCTION

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

EXAM

Name of exam	roject-Oriented Work in a Company	
Type of exam	Oral exam based on a project Oral on basis of a submitted Company Stay Report. Assessment: pass/fail.	
ECTS	25	
Permitted aids	With certain aids: See semester description.	

Assessment	Passed/Not Passed	
Type of grading	Internal examination	
Criteria of assessment	The criteria of assessment are stated in the Examination Policies and Procedures	

Danish title	Projekt i samarbejde med virksomhed
Module code	MSNSSDM3171
Module type	Project
Duration	1 semester
Semester	Autumn
ECTS	25
Language of instruction	English
Location of the lecture	Campus Copenhagen
Responsible for the module	Claus Brøndgaard Madsen

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

STRATEGY AND BUSINESS IN SERVICES 2019/2020

PREREQUISITE/RECOMMENDED PREREQUISITE FOR PARTICIPATION IN THE MODULE

The module adds to the knowledge obtained in the 2nd semester.

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

The purpose of this module is to provide advanced knowledge on theories and methodological tools to analyse and suggest appropriate and innovative business models for service companies. The module will focus on theories of entrepreneurship with emphasis on innovative business models for product-service systems. Theories and methodological tools will be applied to specific cases.

LEARNING OBJECTIVES

KNOWLEDGE

Students who complete the course module will obtain the following qualifications:

- · Knowledge about theories and methods for business development
- · Knowledge about theories of innovation and entrepreneurship
- · Understand and explain the key linkages between the different theories

SKILLS

Students who complete the course module will obtain the following qualifications:

- Understand and explain the link between different design elements of business models: customer value, organisation, technology and financial issues
- Appropriately and critically, apply innovation and business developments theories and methodologies in the analysis of market trends and business models
- Combine knowledge on service systems and technology with business development and business potential (synthesis)

COMPETENCES

Students who complete the course module will obtain the following qualifications:

- Appropriately select and use business models in different business areas needed to realise the proposed service (synthesis)
- Select and use creative and design-driven perspectives for the development of innovative services, up to the development of appropriate business plans (synthesis)

TYPE OF INSTRUCTION

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

EXAM

Name of exam	Strategy and Business in Services
Type of exam	Written or oral exam

	Individual oral (based on a presentation and discussion) or written (a report) examination with internal censor. The assessment is performed in accordance with the 7-point scale.
ECTS	5
Permitted aids	With certain aids: See semester description.
Assessment	7-point grading scale
Type of grading	Internal examination
Criteria of assessment	The criteria of assessment are stated in the Examination Policies and Procedures

Danish title	Strategi og forretning i servicesektoren
Module code	MSNSSDM3173
Module type	Course
Duration	1 semester
Semester	Autumn
ECTS	5
Language of instruction	English
Location of the lecture	Campus Copenhagen
Responsible for the module	Claus Brøndgaard Madsen

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

THEORETICAL ELABORATION OF A TOPIC OR A CASE 2019/2020

PREREQUISITE/RECOMMENDED PREREQUISITE FOR PARTICIPATION IN THE MODULE

The module adds to the knowledge obtained in the 2nd semester.

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

The purpose of this module is to give the student the opportunity to reflect and elaborate on the theoretical and methodological knowledge acquired in the previous modules, possibly applying this knowledge to a specific study area, a business sector or a case.

LEARNING OBJECTIVES

KNOWLEDGE

Students who complete the project module will obtain the following qualifications:

- Must be able to analyse, define and frame a relevant subject for investigation and research within the area of design of product service systems
- Must be able to understand and account for relevant theoretical positions and related methodologies pertaining to the chosen subject

SKILLS

Students who complete the project module will obtain the following qualifications:

- Must be able to **synthesise** the research problem, taking into account the interdependency between type of knowledge wanted, the possible methods of investigation and type of data produced
- · Must be able to observe, analyse and interpret designers' behaviour in specific social technical contexts

COMPETENCES

Students who complete the project module will obtain the following qualifications:

Must be able to plan and carry out research of a chosen subject and have the capacity to describe the chosen problem in a theoretical and methodological framework as well as to draw conclusions of own analysis of the results (**synthesis**)

TYPE OF INSTRUCTION

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

EXAM

Name of exam	Theoretical Elaboration of a Topic or a Case
Type of exam	Written or oral exam Oral (based on a presentation, video, prototype and discussion of a project) or written (based on a project/process report) examination with internal censor. The assessment is performed in accordance with the 7-point scale.

ECTS	25
Permitted aids	With certain aids: See semester description.
Assessment	7-point grading scale
Type of grading	Internal examination
Criteria of assessment	The criteria of assessment are stated in the Examination Policies and Procedures

Danish title	Teoretisk uddybelse af et emne eller sag
Module code	MSNSSDM3172
Module type	Project
Duration	1 semester
Semester	Autumn
ECTS	25
Language of instruction	English
Location of the lecture	Campus Copenhagen
Responsible for the module	Claus Brøndgaard Madsen

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

MASTER'S THESIS

2019/2020

PREREQUISITE/RECOMMENDED PREREQUISITE FOR PARTICIPATION IN THE MODULE

The module adds to the knowledge obtained in the 1st, 2nd, and 3rd semester.

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

In the Master's thesis the student has to demonstrate the acquisition of competences, skills and knowledge that allow him/her to master the profession of service design. The student will work on a theme chosen together with the supervisor and possibly an external company or organisation.

LEARNING OBJECTIVES

KNOWLEDGE

Students who complete the module will obtain the following qualifications:

- Must have knowledge about the possibilities to apply appropriate methodological approaches to specific study areas
- Must have knowledge about design theories and methods that focus on the design of advanced and complex product-service systems

SKILLS

Students who complete the module will obtain the following qualifications:

- Must be able to work independently, to identify major problem areas (analysis) and adequately address problems and opportunities (synthesis)
- Must demonstrate the capability of analysing, designing and representing innovative solutions
- Must demonstrate the ability to evaluate and address (synthesis) major organisational and business issues
 emerging in the design of a product-service system

COMPETENCES

Students who complete the module will obtain the following qualifications:

- Must be able to master design and development work in situations that are complex, unpredictable and require new solutions (synthesis)
- Must be able to independently initiate and implement discipline-specific and interdisciplinary cooperation and assume professional responsibility (synthesis)
- Must have the capability to independently take responsibility for own professional development and specialisation (synthesis)

TYPE OF INSTRUCTION

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

EXAM

Name of	Master's Thesis
exam	

Type of exam	Oral exam based on a project Oral (based on the project report, a presentation, discussion as well as e.g. video, prototypes and discussion) or written (a project/process report) examination with external censor. The assessment is performed in accordance with the 7-point scale.
ECTS	30
Permitted aids	With certain aids: See semester description.
Assessmen t	7-point grading scale
Type of grading	External examination
Criteria of assessmen t	The criteria of assessment are stated in the Examination Policies and Procedures

Danish title	Kandidatspeciale
Module code	MSNSSDM4171
Module type	Project
Duration	1 semester
Semester	Spring
ECTS	30
Language of instruction	English
Location of the lecture	Campus Copenhagen
Responsible for the module	Claus Brøndgaard Madsen

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