AALBORG UNIVERSITET

REGULATIONS AND CURRICULUM FOR THE MASTER'S PROGRAMME IN INFORMATION TECHNOLOGY (INFORMATION STUDIES), 2017

MASTER OF SCIENCE (MSC) IN INFORMATION TECHNOLOGY
AALBORG

MODULES INCLUDED IN THE CURRICULUM

TABLE OF CONTENTS

PROFESSIONAL INQUIRY

2018/2019

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

The module comprises the development and phrasing of empirical inquiry for the purpose of enabling students to formulate research questions and scientific problems within the field of informatics. This will form the basis of the problem based project work and inquiries to be carried out during the course of the informatics study programme.

LEARNING OBJECTIVES

KNOWLEDGE

In this module students will acquire knowledge of:

- the connections and differences between empirical inquiry and research questions based on informatics
- the connection between research questions and the theory of science in the organisation of scientific research
- theory of science within the field of informatics

SKILLS

In this module students will acquire skills in:

- describing empirical inquiry
- translating empirical inquiry into a scientific research question within the field of informatics
- combining a scientific research question with the theoretical basis of its investigation.

COMPETENCES

In this module students will acquire competences in:

- preparing scientific research based on personal enquiry
- taking a reflective approach to the basis of scientific inquiry
- engaging in disciplinary collaboration on scientific problem formulation

EXAM

EXAMS

Name of exam	Professional Inquiry
Type of exam	Written exam The examination is a seven-day take-home assignment on a set topic. Evaluation: pass/fail.

	The assignment paper must demonstrate that the student fulfils the objectives for the module stated above. Alternatively, the examination may completed by satisfactory and active participation in the module, i.e. a minimum of 80% attendance and completion of set tasks.
ECTS	5
Permitted aids	All written and all electronic aids
Assessment	Passed/Not Passed
Type of grading	Internal examination

FACTS ABOUT THE MODULE

Danish title	Professionel forespørgsel
Module code	KAINFOS171
Module type	Course
Duration	1 semester
Semester	Autumn
ECTS	5
Language of instruction	English
Location of the lecture	Campus Aalborg
Responsible for the module	Ole Ertløv Hansen

ORGANISATION

Study Board	Study Board of Communication and Digital Media
Department	Department of Communication and Psychology
Faculty	The Faculty of Humanities

USER PRACTICE, USER ANALYSIS AND PILOT STUDIE

2018/2019

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

Through the module, students will acquire knowledge, skills and competences in relation to the areas of user analysis and pilot studies with particular emphasis on user analysis and pilot studies in relation to the development of ICT for supporting work, knowledge and learning processes.

The module will introduce students to user analysis, user-system interaction and pilot studies within the fields of ICT innovation, design and development, which are areas of core competence within the field of informatics. This includes acquisition and application of knowledge on digital practice, organisational culture, digital culture and cognitive, conative and emotive aspects of the undertaking of user analyses and pilot studies with a view to qualifying operational processes and organisational change.

The module comprises teaching within the following areas:

- user practice, user analysis and pilot studies – theory of science and theory
- data collection and analysis methods
- user practice, user analysis and pilot studies in specific domains

Academic supervision will be offered in connection with the problem oriented project work.

LEARNING OBJECTIVES

KNOWLEDGE

In this module students will acquire knowledge of:

- theory and methods as regards the understanding of human practice and more specifically user practice in relation to technology use at the highest international level
- digital culture and practice, cultural and social phenomena related to ICT use
- cognitive, conative and emotive aspects of ICT use
- the structuring of user analyses and pilot studies directed towards various domains and processes within work life, learning and knowledge sharing.

SKILLS

In this module students will acquire skills in:

- assessing strategies and methods for user analyses and pilot studies on the basis of the needs of the study and knowledge of the disciplinary theories and methods.
- choosing suitable strategies and methods for user analyses and pilot studies directed towards various domains
- data collection and analysis as regards user analysis and pilot studies

- communicating user analyses and pilot studies to peers and others.

COMPETENCES

In this module students will acquire competences in:

- taking an analytical, reflective and critical approach to the preconditions for user analyses and pilot studies
- taking an analytical, reflective and critical approach to user analyses and pilot studies
- engaging in disciplinary and interdisciplinary collaboration on user analyses and pilot studies, with a professional approach
- identifying own learning needs and structuring own learning in relation to the subject area of user analysis for pilot studies.

EXAM

EXAMS

Name of exam	User Practice, User Analysis and Pilot Studies
Type of exam	Oral exam based on a project The examination is a conversation between the student(s) and the examiner and external examiner based on a project report produced individually or in a group. The project report/written work will be considered the shared responsibility of the group. Students will be examined and assessed on the basis of the entire project report, and one combined grade will be awarded each student for the project report and the oral performance. Literature foundation: 1500 standard pages supervisor approved, self-selected literature related to the project. The project report: the total number of pages must be no less than 15 pages and no more than 20 pages per student in a project group, and 30 pages if written individually. Duration of examination: 20 minutes per student and 10 minutes per group for assessment and announcement of result, although no longer than a total of two hours. 30 minutes in total for individual examinations. Any re-examinations will be held on the basis of a revised project report.
ECTS	15
Permitted aids	All written and all electronic aids
Assessment	7-point grading scale
Type of grading	External examination
Criteria of assessment	The project report and the conversation must demonstrate that the student fulfils the objectives for the module stated above.

	In the evaluation of the examination performance, the grade 12 will only be awarded for an excellent performance displaying a high level of command of all aspects of the relevant material, with no or only a few minor weaknesses.

FACTS ABOUT THE MODULE

Danish title	Brugerpraksis, brugeranalyse og pilotstudie
Module code	KAINFOS172
Module type	Project
Duration	1 semester
Semester	Autumn
ECTS	15
Language of instruction	English
Location of the lecture	Campus Aalborg
Responsible for the module	Ole Ertløv Hansen

ORGANISATION

Study Board	Study Board of Communication and Digital Media
Department	Department of Communication and Psychology
Faculty	The Faculty of Humanities

ICT BASED DATA COLLECTION AND ANALYSIS

2018/2019

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

The module will introduce students to ICT based data collection and analysis offering a number of opportunities to obtain vast amounts of data on the use of for example Web based ICT solutions with relative ease. These opportunities call for fundamental consideration of options and problems, including ethical concerns on the significance of the potentially extensive mappings of individual user behaviour. During the course of the module, students will engage in ICT based data collection and analysis for the support of ICT user analyses and pilot projects.

The module comprises courses and exercises within the following areas:

- theory and method within ICT based data collection and analysis
- tools for ICT based data collection and analysis

LEARNING OBJECTIVES

KNOWLEDGE

In this module students will acquire knowledge of:

- theories and methods at the highest international level as regards qualitative and quantitative oriented data collection and analysis in relation to user analyses and pilot studies
- ICT systems for data collection and analysis in relation to user analyses and pilot studies
- principles, including ethical principles, for managing ICT systems for data collection and analysis in relation to user analyses and pilot studies.

SKILLS

In this module students will acquire skills in:

- assessing and selecting a method for qualitative and quantitative oriented data collection and analysis in relation to user analyses and pilot studies
- selecting, configuring and adapting ICT systems for qualitative and quantitative oriented data collection and analysis in relation to user analyses and pilot studies
- communicating methods for ICT based data collection and analysis to peers and laymen
- communicating results on ICT based data collection and analysis to peers and laymen.

COMPETENCES

In this module students will acquire competences in:

- taking an analytical, reflective and critical approach to qualitative and quantitative oriented data collection and analysis in relation to user analyses and pilot studies

- engaging in interdisciplinary collaboration on ICT based data collection and analysis in relation to user analyses and pilot studies
- identifying own learning needs and structuring own learning in relation to the subject area of ICT based data collection and analysis in relation to user analyses and pilot studies.

EXAM

EXAMS

Name of exam	ICT Based Data Collection and Analysis
Type of exam	Written exam The examination is a seven-day take-home assignment on a set topic. On the basis of the module, students will respond to one or a number of questions and assignments within the subject area of the module. The assignment paper must not exceed eight pages, and it must be prepared individually.
ECTS	5
Permitted aids	All written and all electronic aids
Assessment	7-point grading scale
Type of grading	Internal examination
Criteria of assessment	In the evaluation of the examination performance, the grade 12 will only be awarded for an excellent performance displaying a high level of command of all aspects of the relevant material, with no or only a few minor weaknesses.

FACTS ABOUT THE MODULE

Danish title	IKT-baseret dataindsamling og analyse
Module code	KAINFOS173
Module type	Course
Duration	1 semester
Semester	Autumn
ECTS	5
Language of instruction	English
Location of the lecture	Campus Aalborg
Responsible for the module	Ole Ertløv Hansen

ORGANISATION

Study Board	Study Board of Communication and Digital Media
Department	Department of Communication and Psychology
Faculty	The Faculty of Humanities

DEVELOPMENT AND DESIGN OF ICT

2018/2019

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

The module will introduce students to design of ICT directed towards organisational practice or another professional practice as an additional core activity in the practice field of informatics.

The module comprises teaching within the following areas:

- system design with particular emphasis on information architecture and interaction design
- user-driven system development and system development methods in theory and practice
- formal models for preparing and communicating design solutions (for example blueprints, UML etc.)
- information theory and understanding of information with a view to reflecting on the scientific theoretical basis of design work.

Academic supervision will be offered in connection with the problem oriented project work.

LEARNING OBJECTIVES

KNOWLEDGE

In this module students will acquire knowledge of:

- the theory of science, theory and methods of system development
- user-driven techniques and tools
- organisational change and organisational culture in relation to system development and system design pertaining to ICT
- information architecture and usability
- formalisation and categorisation as regards formal models for the preparation, visualisation and communication of design solutions.

SKILLS

In this module students will acquire skills in:

- assessing strategies and methods for system development and system design on the basis of user needs and/or costumer needs and knowledge of the disciplinary theories and methods.
- choosing suitable strategies and methods for system development and system design directed towards various domains
- data collection and analysis as regards system development and system design

- applying formal models for the preparation and communication of system development and system design
- communicating system development and system design to peers and others.

COMPETENCES

In this module students will acquire competences in:

- taking an analytical, reflective and critical approach to the preconditions for system development and system design
- taking an analytical, reflective and critical approach to system development and system design
- engaging in disciplinary and interdisciplinary collaboration on system development and system design, with a professional approach
- identifying own learning needs and structuring own learning in relation to the subject area of system development and system design.

EXAM

EXAMS

Name of exam	Development and Design of ICT
Type of exam	Oral exam based on a project The examination is a conversation between the student(s) and the examiner and external examiner based on a project report produced individually or in a group. The project report/written work will be considered the shared responsibility of the group. Students will be examined and assessed on the basis of the entire project report, and one combined grade will be awarded each student for the project report and the oral performance. Literature foundation: 2000 standard pages supervisor approved, self-selected literature related to the project. The project report: total number of pages must be no less than 15 pages and no more than 20 pages per student in a project group, and 30 pages if written individually. Duration of examination: 20 minutes per student and 10 minutes per group for assessment and announcement of result, although no longer than a total of two hours. 30 minutes in total for individual examinations. At oral group examinations, the examination must be conducted in such a way that individual assessment of each individual student's performance is ensured.
ECTS	20
Permitted aids	All written and all electronic aids
Assessment	7-point grading scale
Type of grading	External examination

Criteria of assessment	The project report and the conversation must demonstrate that the student fulfils the objectives for the module stated above. Literature foundation: 2000 standard pages supervisor approved, self-selected literature related to the project. In the evaluation of the examination performance, the grade 12 will only be awarded to students who give an excellent performance and demonstrate that they have fulfilled the above objectives exhaustively or with only few insignificant omissions.

FACTS ABOUT THE MODULE

Danish title	Udvikling og Design af ICT
Module code	KAINFOS174
Module type	Project
Duration	1 semester
Semester	Spring
ECTS	20
Language of instruction	English
Location of the lecture	Campus Aalborg
Responsible for the module	Ole Ertløv Hansen

ORGANISATION

Study Board	Study Board of Communication and Digital Media
Department	Department of Communication and Psychology
Faculty	The Faculty of Humanities

ICT FOR LEARNING, KNOWLEDGE AND CONTENT MANAGEMENT

2018/2019

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

The module will introduce students to the management and adaptation of systems for learning, knowledge and content management in order to enable students to act independently when needing to adapt systems, implement prototypes and implement more complete solutions on the basis of the adaptation and combination of components.

The module comprises courses and exercises within the following areas:

- systems for learning, knowledge and content management
- use and adaptation of systems for learning, knowledge and content management.

LEARNING OBJECTIVES

KNOWLEDGE

In this module students will acquire knowledge of:

- theory and methods at the highest international level as regards ICT systems for learning, knowledge and content management
- ICT systems for learning, knowledge and content management

SKILLS

In this module students will acquire skills in:

- assessing, selecting and applying methods for learning, knowledge and content management
- selecting, configuring and adapting ICT systems for learning, knowledge and content management
- communicating methods and solutions for ICT for learning, knowledge and content management to peers and others.

COMPETENCES

In this module students will acquire competences in:

- taking an analytical, reflective and critical approach to selecting, adapting and applying ICT systems for learning, knowledge and content management
- engaging in interdisciplinary collaboration on selecting, adapting and applying ICT systems for learning, knowledge and content management
- identifying own learning needs and structuring own learning in relation to selecting, adapting and applying ICT systems for learning, knowledge and content management.

EXAM

EXAMS

Name of exam	ICT for Learning, Knowledge and Content Management
Type of exam	Written exam The examination is a seven-day take-home assignment on a set topic. On the basis of the module, students will respond to one or a number of questions and assignments within the subject area of the module. The assignment paper must not exceed eight pages, and it must be prepared individually.
ECTS	5
Permitted aids	All written and all electronic aids
Assessment	7-point grading scale
Type of grading	Internal examination
Criteria of assessment	In the evaluation of the examination performance, the grade 12 will only be awarded to students for an excellent performance displaying a high level of command of all aspects of the relevant material, with no or only a few minor weaknesses.

FACTS ABOUT THE MODULE

Danish title	IKT til læring, viden og indholdsforvaltning
Module code	KAINFOS175
Module type	Course
Duration	1 semester
Semester	Spring
ECTS	5
Language of instruction	English
Location of the lecture	Campus Aalborg
Responsible for the module	Ole Ertløv Hansen

ORGANISATION

Study Board	Study Board of Communication and Digital Media
Department	Department of Communication and Psychology
Faculty	The Faculty of Humanities

RESEARCH METHODOLOGY

2018/2019

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

In the module students will learn to plan large and complex research studies independently and on the basis of information studies. Emphasis will be on the student's independent identification and description of the research object, and on the student's reflections on various methodological approaches for the implementation of the research study, including quantitative and qualitative approaches.

The module comprises virtual courses, seminars and supervision within the following area:

- research design

LEARNING OBJECTIVES

KNOWLEDGE

In this module students will acquire knowledge of:

- disciplinary paradigms and scientific methods
- the correlation between theory of science, scientific methods and choice of theory in scientific research studies

SKILLS

In this module students will acquire skills in:

- structuring subject specific research studies and research projects, including choice of research object, method and theory
- assessing the consequences of various methodological and theoretical approaches to subject specific studies and research projects

COMPETENCES

In this module students will acquire competences in:

- structuring subject specific studies and research projects in specific contexts in practice
- working independently and engaging in professional collaboration as regards the structuring of subject specific studies and research projects, with a professional approach.

EXAM

EXAMS

Name of exam	Research Methodology
Type of exam	Written exam The examination is a take-home assignment in which the student/s will explain the design of a large subject specific study within the disciplinary area of the programme, on the basis of the module, however the actual

	study will not be carried out. The student/s will choose the topic, and the submission deadline will be set by the Study Board. The written assignment may be prepared in groups of up to three students. The written assignment paper must not exceed eight pages if written individually, ten pages if written in groups of two, and twelve pages if written in groups of three students.
ECTS	5
Permitted aids	All written and all electronic aids
Assessment	Passed/Not Passed
Type of grading	Internal examination
Criteria of assessment	In the evaluation of the examination performance, the assessment of 'pass' will be awarded to students who demonstrate that they have fulfilled the above objectives to a satisfactory extent. The assignment paper will be evaluated by the examiner; in case of a fail grade, the assignment paper will also be evaluated by another internal examiner.

FACTS ABOUT THE MODULE

Danish title	Forskningsmetodik
Module code	KAINFOS176
Module type	Course
Duration	1 semester
Semester	Autumn
ECTS	5
Language of instruction	English
Location of the lecture	Campus Aalborg
Responsible for the module	Ole Ertløv Hansen

ORGANISATION

Study Board	Study Board of Communication and Digital Media
Department	Department of Communication and Psychology
Faculty	The Faculty of Humanities

INFORMATION STUDIES IN PRACTICE

2018/2019

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

The theme of the module is the practical reality of information studies. The main component of the module is a three-to-four-month practice oriented work placement, where students collaborate on solving an issue on the basis of Information Studies in a relevant company, organisation or institution. The idea is for students to develop a knowledge and understanding of the concrete work reality that this programme is directed towards. The work practice will be elucidated in a written report on the basis of the theory and methods of the entire study programme.

As part of the practice oriented work placement, students are expected to carry out an interview with their company, organisation or institution. The interview must elucidate the company, organisation or institution's need for the student's knowledge, skills and competences. The interview will be included in the report as an appendix and also as part of the report in the shape of a brief, edited summary.

In exceptional circumstances, the Study Board may approve that the practice oriented project is not undertaken at a company or organisation, but at the University in the shape of a constructed case directed towards implementing knowledge within Information Studies in practice.

The module also comprises:

- a halfway evaluation and an evaluation when the practice oriented work placement has been completed
- a virtual learning course during the practice oriented semester comprising presentation techniques, negotiation techniques, business communication etc.

Academic supervision will be offered and the teaching will be organised as a practice oriented work placement.

LEARNING OBJECTIVES

KNOWLEDGE

In this module students will acquire knowledge of:

SKILLS

In this module students will acquire skills in:

- working in practice on the basis of informatics, including applying strategies and methods for user analysis, pilot studies, system development and system design
- assessing issues and solutions within the field of informatics in practice, on the basis of theories and methods for user analysis, pilot studies, system development or system design
- communicating knowledge within informatics to peers and laypeople
- managing themselves in work contexts with a view to identifying issues pertaining to skills and competences.

COMPETENCES

In this module students will acquire competences in:

- taking an analytical, reflective and critical approach to the preconditions for user analysis, pilot studies, system development or system design in practice
- taking an analytical, reflective and critical approach to user analysis, pilot studies, system development or system design in practice
- engaging in disciplinary and interdisciplinary collaboration on user analysis, pilot studies, system development or system design in practice, with a professional approach
- identifying own learning needs and structuring own learning in relation to the subject area of user analysis, pilot studies, system development or system design in practice.

EXAM

EXAMS

Name of exam	Information Studies in Practice
Type of exam	Oral exam based on a project The examination is a conversation between the student(s) and the examiner based on a project report produced individually or in a group. The project report/written work will be considered the shared responsibility of the group. Students will be examined and assessed on the basis of the entire project report, and one combined grade will be awarded each student for the project report and the oral performance. Literature foundation: 2500 standard pages supervisor approved, self-selected literature related to the project. In case a large or several smaller products that the students have made or provided significant contributions to in the course of the internship is handed in along with the project, literature foundation is reduced by 50 % - ie to 1250 pages. The project report: total number of pages must be no less than 15 pages and no more than 20 pages per student in a project group, and 30 pages if written individually. Duration of examination: 20 minutes per student and 10 minutes per group for assessment and announcement of result, although no longer than a total of two hours. 30 minutes in total for individual examinations.
ECTS	25
Permitted aids	All written and all electronic aids
Assessment	7-point grading scale
Type of grading	Internal examination
Criteria of assessment	The project report and the conversation must demonstrate that the student fulfils the objectives for the module stated above. In the evaluation of the examination performance, the grade 12 will only be awarded for an excellent performance displaying a high level of command of all aspects of the relevant material, with no or only a few minor weaknesses.

FACTS ABOUT THE MODULE

Danish title	Informationsstudier i praksis
Module code	KAINFOS177
Module type	Project
Duration	1 semester
Semester	Autumn
ECTS	25
Language of instruction	English
Location of the lecture	Campus Aalborg
Responsible for the module	Ole Ertløv Hansen

ORGANISATION

Study Board	Study Board of Communication and Digital Media
Department	Department of Communication and Psychology
Faculty	The Faculty of Humanities

MASTER'S THESIS

2018/2019

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

The Master's thesis module comprises preparation of a Master's thesis on a subject which the student is free to select from within the disciplinary framework of the programme. The thesis may be written as either a theoretically, methodologically or analytically oriented thesis, or it may be oriented towards practical and constructive ICT solutions on the basis of theory and method.

The topic of the Master's thesis must be approved by the Study Board. The topic must be presented to the Study Board in the shape of a synopsis comprising a preliminary problem formulation, argumentation for the relevance of the topic and for the theoretical and methodological points of departure, a preliminary bibliography and time schedule, including a submission deadline.

The module includes a number of thesis seminars. Additionally, students will be offered expert thesis supervision in relation with their problem oriented thesis work.

LEARNING OBJECTIVES

KNOWLEDGE

In the Master's thesis module, the student will acquire knowledge of:

- the theories, methods and technologies of the selected subject area at the highest international level
- research ethics and understanding of the implications of research work
- the theory of science of the selected thesis topic

SKILLS

In the Master's thesis module, the student will acquire skills in:

- applying methods, theories and technologies pertaining to a specific issue within the academic area
- creating an independent and systematic overview of relevant existing knowledge within the topic of the thesis
- independently selecting approaches pertaining to the topic of the thesis on the basis of theory of science, theory, methods, analysis, design and/or technology, and substantiating these academic choices and priorities
- applying, further developing and critically reflecting on relevant theories, methods and technologies pertaining to the topic of the thesis

COMPETENCES

In the Master's thesis module, the student will acquire competences in:

- critical reflection on the disciplinary area pertaining to the chosen topic of the thesis
- independent and systematic search for knowledge, choosing and explaining this choice and planning and undertaking the research of the topic of the thesis
- arguing for choices as regards the applied theories, methods and technologies as well as choices as regards any empirical material and/or design aspects
- structuring and communicating the acquired knowledge in a suitable manner as regards content and language register to an academic audience within the disciplinary field of the programme.

EXAM

EXAMS

Name of exam	Master's Thesis

Type of exam	Master's thesis/final project The examination will be conducted as a conversation between the student(s) and the examiner and external examiner on the basis of a Master's thesis prepared by one or a number of students. The Master's thesis will be considered the shared responsibility of the group. The Master's thesis and the conversation must demonstrate that each student fulfils the objectives for the module stated above as regards knowledge, skills and competences. The Master's thesis, including a one-two page summary in a foreign language (see below), forms the basis of the examination and assessment, and a combined grade will be awarded for the Master's thesis and the oral performance. Summary: A summary of no less than one page and no more than two pages in Danish or English must be included. Literature foundation: 3000 standard pages supervisor approved, self-selected literature related to the Master Thesis. Total number of pages: The extent of The Master's thesis must follow the current rules at The Faculty of Humanities. Normal duration of examination: 45 minutes; if two students, 75 minutes; and if three students, 100 minutes.
ECTS	30
Permitted aids	All written and all electronic aids
Assessment	7-point grading scale
Type of grading	External examination
Criteria of assessment	The examination must substantiate that each student fulfils the objectives for the module. In the evaluation of the examination performance, the grade 12 will only be awarded for an excellent performance displaying a high level of command of all aspects of the relevant material, with no or only a few minor weaknesses.

FACTS ABOUT THE MODULE

Danish title	Kandidatspeciale
Module code	KAINFOS1712
Module type	Course
Duration	1 semester
Semester	Spring
ECTS	30
Language of instruction	English
Location of the lecture	Campus Aalborg
Responsible for the module	Ole Ertløv Hansen

ORGANISATION

Study Board	Study Board of Communication and Digital Media
Department	Department of Communication and Psychology
Faculty	The Faculty of Humanities

DIGITAL COLLABORATION

2018/2019

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

The course offers an overview of digital sociality and governance, presenting issue such as Smart Cities and Big Data in a larger societal context. During the course, students are provided with an understanding of how digital collaboration may be instigated and to what purpose. Drawing on collaboration with external partners, students will learn about the opportunities and challenges with data-driven, collaborative projects in various social and organizational contexts.

LEARNING OBJECTIVES

KNOWLEDGE

In this module students will acquire knowledge of:

- The current landscape of digital collaboration in and between various public and private organizations.
- Theoretical approaches to digital, data-driven knowledge collaboration
- The values and opportunities of data-driven collaboration projects as well as their challenges for various stakeholders

SKILLS

In this module students will acquire skills in:

- Identifying areas where data-driven collaboration projects can add to existing value propositions
- Crafting digital collaborative set-ups
- Critically discuss and reflect on digital collaborations and their outcomes for various types of stakeholders

COMPETENCES

In this module students will acquire competences in:

- Designing and discussing collaborative strategies in the context of relevant data project topics
- Professionally engaging in, assessing and reflecting on data-driven knowledge collaborations
- Independently continuing one's individual competency development within digital collaborations

EXAM

EXAMS

Name of exam	Digital Collaboration

Type of exam	Written exam The examination is a portfolio submitted in steps during the term, comprising contributions from the students set by the examiner on the basis of the course module. The examination portfolio will be prepared individually by the student and must not exceed 10 pages. The examination portfolio will be evaluated by an internal examiner. A second internal examiner will be included in case of an assignment is given a failed assessment.
ECTS	5
Permitted aids	All written and all electronic aids
Assessment	7-point grading scale
Type of grading	Internal examination
Criteria of assessment	The examination must demonstrate that the student can fulfil the objectives outlined above regarding knowledge and understanding, skills and competencies.

FACTS ABOUT THE MODULE

Danish title	Digital samarbejde
Module code	KAINFOS178
Module type	Course
Duration	1 semester
Semester	Autumn
ECTS	5
Language of instruction	English
Location of the lecture	Campus Aalborg
Responsible for the module	Ole Ertløv Hansen

ORGANISATION

Study Board	Study Board of Communication and Digital Media
Department	Department of Communication and Psychology
Faculty	The Faculty of Humanities

DATA PREPARATION AND UNDERSTANDING

2018/2019

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

The course provides students with an understanding of relevant data formats and methods for harvesting large-scale data about user behaviour, interaction, and/or opinions. More specifically, the course is focused on digital, online traces of user behaviour and how to identify, collect, prepare, and make sense of such data. Students are prompted to reflect on the scope and feasibility of different research designs, including their data requirements and the implications for data processing and ethics.

LEARNING OBJECTIVES

KNOWLEDGE

In this module students will acquire knowledge of:

- Data formats
- Methods for collecting and processing data
- Legal and ethical principles related to (online) data harvesting and usage.

SKILLS

In this module students will acquire skills in:

- Asking data-driven questions about research problems
- Identifying, comparing, and selecting relevant techniques for collecting data about user behavior, interaction, and/or opinions
- Constructing relevant data sets
- Explaining the data set's construction, limitations and potential use cases.

COMPETENCES

In this module students will acquire competences in:

- Relating theories and methods to real-world cases
- Evaluating the practical and ethical dimensions of a data-driven project in relation to specific research designs
- Taking an analytical, reflective and critical approach to the identification, harvesting, preparation, and understanding of relevant research data.

EXAM

EXAMS

Name of exam	Data Preparation and Understanding
Type of exam	Written exam Duration of examination: 4 hours. The exam is evaluated by an internal examiner. A second internal examiner will be included in case of an assignment is given a failed assessment.
ECTS	5
Permitted aids	All written and all electronic aids
Assessment	Passed/Not Passed
Type of grading	Internal examination
Criteria of assessment	The examination must demonstrate that the student can fulfil the objectives outlined above regarding knowledge and understanding, skills and competencies.

FACTS ABOUT THE MODULE

Danish title	Dataforberedelse og forståelse
Module code	KAINFOS179
Module type	Course
Duration	1 semester
Semester	Autumn
ECTS	5
Language of instruction	English
Location of the lecture	Campus Aalborg
Responsible for the module	Ole Ertløv Hansen

ORGANISATION

Study Board	Study Board of Communication and Digital Media
Department	Department of Communication and Psychology
Faculty	The Faculty of Humanities

DATA ANALYTICS AND VISUALIZATION

2018/2019

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

The course provides an understanding of different analytical strategies and their implications for data modelling, including descriptive and predictive approaches. It also provides hands-on experience with different data visualization techniques and their analytical contributions.

LEARNING OBJECTIVES

KNOWLEDGE

In this module students will acquire knowledge of:

- Descriptive analytics, such as social network analysis and dimensionality reduction
- Predictive analytics, such as regression and machine learning
- Techniques for data visualization.

SKILLS

In this module students will acquire skills in:

- Conducting data-driven analysis
- Conducting participatory data design with users
- Identifying, comparing, and selecting relevant techniques for describing and analyzing data about user behavior, interaction, and/or opinions
- Selecting the optimal data visualization techniques for describing and analyzing digital trace data.

COMPETENCES

In this module students will acquire competences in:

- Applying analytical tools to real-world cases
- Taking an analytical, reflective and critical approach to the analysis, visualization, and interpretation of collected research data.

EXAM

EXAMS

Name of exam	Data Analytics & Visualization
Type of exam	Oral exam Students must submit a blog post with relevant data visualization and narration. Textual narration should be adapted to the format of a blog post and not exceed 1000 words. Students may submit the blog post in groups. Duration of examination: 15 minutes per student and 5 minutes per group for assessment and announcement of result. 20 minutes in total for individual examinations.

ECTS	5
Assessment	7-point grading scale
Type of grading	Internal examination
Criteria of assessment	The examination must demonstrate that the student can fulfil the objectives outlined above regarding knowledge and understanding, skills and competencie

FACTS ABOUT THE MODULE

Danish title	Data analyse og visutalilet
Module code	KAINFOS1710
Module type	Course
Duration	1 semester
Semester	Autumn
ECTS	5
Language of instruction	English
Location of the lecture	Campus Aalborg
Responsible for the module	Ole Ertløv Hansen

ORGANISATION

Study Board	Study Board of Communication and Digital Media
Department	Department of Communication and Psychology
Faculty	The Faculty of Humanities

SOCIAL ANALYTICS IN CONTEXT

2018/2019

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

The module social analytics in context comprises preparation of a project concerning digital collaboration and contains data preparation and data analytics. The project must be carried out in collaboration with an organization or community.

LEARNING OBJECTIVES

KNOWLEDGE

In this module students will acquire knowledge of:

- Dataset construction and data harvest, including its technical, ethical and legal implications
- Data relevant problems in organizations, including their relation to organizational culture and the wider ecology of methods available in the organization
- Data driven research designs and their implications for data needs and analysis.

SKILLS

In this module students will acquire skills in:

- Formulating data-driven questions that make sense in context, taking available data, existing knowledge practices and the strategic situation of the organization into account.
- Carrying out relevant data analysis
- Producing relevant data visualizations
- Narrating methods and findings in ways that make sense to the organization.

COMPETENCES

In this module students will acquire competences in:

- The management of a data project, including its different stages, components and participants
- The translation of data projects into real world cases and contexts.

EXAM

EXAMS

Name of exam	Social Analytics in Context
Type of exam	Oral exam based on a project The examination is a conversation between the student(s) and the examiner based on a project report produced individually or in a group. The project report/written work will be considered the shared responsibility of the group. Students will be examined and assessed on the basis of the entire project report, and one combined grade will be awarded each student for the project report and the oral performance. Literature foundation: 1000 standard pages supervisor approved, self-selected literature related to the project. The project report: the total number of pages must be no less than 10 pages and no more than 15 pages per student in a project group, and 20 pages if written individually.

	Duration of examination: 15 minutes per student and 5 minutes per group for assessment and announcement of result. 20 minutes in total for individual examinations. Evaluation: Grading according to the 7-point scale. At oral group examinations, the examination must be conducted in such a way that individual assessment of each individual student's performance is ensured.
ECTS	10
Assessment	7-point grading scale
Type of grading	Internal examination

FACTS ABOUT THE MODULE

Danish title	Social analyse i kontekst
Module code	KAINFOS1711
Module type	Course
Duration	1 semester
Semester	Autumn
ECTS	10
Language of instruction	English
Location of the lecture	Campus Aalborg
Responsible for the module	Ole Ertløv Hansen

ORGANISATION

Study Board	Study Board of Communication and Digital Media
Department	Department of Communication and Psychology
Faculty	The Faculty of Humanities

DIGITAL GAMES IN EVERYDAY, PHYSICAL SPACE

2018/2019

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

The course content includes investigating how games and game mechanics are integrated in the context of everyday life (physical) contexts. Based on theory on game strategies for retention, motivation and meaning making gamification is analyzed and discussed. Digital games in everyday physical contexts includes location-based games, crowdsourcing games, games in art, games in learning, games and health, games in design processes and as part of a self-monitoring trend. The main goal is that the student is able to identify and analyze gamification across contexts in a communication perspective in order to use this perspective as an analytical strategy in developing designs which aim at different types of organizations, enterprises and institutions.

LEARNING OBJECTIVES

KNOWLEDGE

Upon successful completion of this course, students should be able to:

Knowledge

- Students understand the relationship between games and motivation, and the framing of games and play in relation to the everyday context, such as ambiguity as a design category
- Students have the ability for understanding game mechanisms as part of a system, and analytical approaches to design a behavior
- Students understand the relationship between body, place, space and digital technologies in the context of gamification and self-monitoring

SKILLS

Upon successful completion of this course, students should be able to:

Skills

- Students learn to use of game mechanics in the production and use of diverse games for communication and learning
- Students learn to use of ICT in analysis and reflection processes of games in everyday spaces
- Students are able to to identify, analyze and evaluate issues related to the use of game mechanics in different environments.

COMPETENCES

Competences

- Students are able to independently initiate, implement, manage and develop tasks in ICT and communications, including creating the experience of techniques and methods in the specific theme.
- Students are able to actively participate in collaborative processes around the theme.

EXAM

EXAMS

Name of exam	Gamification: Digitale spil i hverdagens fysiske rum
Type of exam	Written exam The examination is a three day take-home assignment on a set topic.
ECTS	5

Permitted aids	All written and all electronic aids
Assessment	Passed/Not Passed
Type of grading	Internal examination
Criteria of assessment	The assignment paper must demonstrate that the student fulfils the objectives for the module stated above. Alternatively, the examination may be completed by satisfactory and active participation in the module, ie. completion of all set course tasks.

FACTS ABOUT THE MODULE

Danish title	Gamification: Digitale spil i hverdagens fysiske rum
Module code	KAVALG201730
Module type	Course
Duration	1 semester
Semester	Autumn and Spring
ECTS	5
Language of instruction	English
Location of the lecture	Campus Aalborg
Responsible for the module	Edina Mustedanagic

ORGANISATION

Study Board	Study Board of Communication and Digital Media
Department	Department of Communication and Psychology
Faculty	The Faculty of Humanities

MEDIEPRODUCEREN

2018/2019

MODULETS INDHOLD, FORLØB OG PÆDAGOGIK

I modulet arbejdes med en professionel medieproducers funktioner, herunder styring af en audiovisuel medieproduktion.

I tilknytning til modulet afholdes undervisning inden for følgende områder:

- økonomistyring
- koncepttænkning og design
- struktur og organisation af medievirksomheder.

LÆRINGSMÅL

VIDEN

Den studerende skal gennem modulet opnå viden om:

- kreativitet og koncepttænkning
- opbygning af medievirksomheder, og
- overblik over medieproducerens professionelle funktioner.

FÆRDIGHEDER

Den studerende skal gennem modulet opnå færdigheder i:

- medieproduktets produktionsfaser, økonomistyring og budgettering.
- målgruppeanalysens metodik.

KOMPETENCER

Den studerende skal gennem modulet opnå kompetencer til:

- at styre tilrettelæggelsen af en audiovisuel produktion.

EKSAMEN

PRØVER

Prøvens navn	Medieproduceren
Prøveform	Skriftlig Prøven har form af en bunden 3-dages hjemmeopgave, hvor den studerende på baggrund af modulet besvarer det eller de udleverede spørgsmål og opgaver inden for modulets fagområde. Den skriftlige del af opgavebesvarelsen må højst være på 10 sider og udarbejdes individuelt. Afløsning: Prøven kan afløses ved tilfredsstillende aktiv deltagelse i modulet, hvilket indebærer indløsning af samtlige opgaver og øvelser, som stilles i løbet af kurset.

ECTS	5
Tilladte hjælpemidler	Alle skriftlige og alle elektroniske hjælpemidler
Bedømmelsesform	Bestået/ikke bestået
Censur	Intern prøve
Vurderingskriterier	Hjemmeopgaven skal demonstrere, at den studerende opfylder de faglige mål beskrevet ovenfor. Ved bedømmelsen af prøvepræstationen vil der med henblik på opnåelse af bedømmelsen bestået blive lagt vægt på, at den studerende indløser modulets mål på tilstrækkelig vis.

FAKTA OM MODULET

Engelsk titel	The Media Producer
Modulkode	KAVALG201733
Modultype	Kursus
Varighed	1 semester
Semester	Efterår og Forår Studerende der er optaget på kommunikation, informationsvidenskab, interaktive digitale medier, oplevelsesdesign, informationsarkitektur eller mediefag kan tilmelde sig undervisning i valgfaget.
ECTS	5
Undervisningssprog	Dansk
Undervisningssted	Campus Aalborg
Modulansvarlig	Edina Mustedanagic

ORGANISATION

Studienævn	Studienævnet for Kommunikation og Digitale Medier
Institut	Institut for Kommunikation og Psykologi
Fakultet	Det Humanistiske Fakultet

KOLLEKTIV VIDEN

2018/2019

MODULETS INDHOLD, FORLØB OG PÆDAGOGIK

Formålet med modulet er at præsentere og formidle konceptet kollektiv viden: Det at kombinere adfærd, præferencer eller en gruppes ideer til ny viden. Den studerende vil lære at fortolke og organisere den enorme mænge bruger-genererede viden på nettet med det formål at producere ny viden om oplevelser, markedsføring, personlig smag og menneskelig adfærd generelt. Der fokuseres specifikt på avancerede teknikker og algoritmer til automatiseret indsamling og generering af kollektiv viden.

I tilknytning til modulet afholdes undervisning inden for følgende områder:

- Kollektiv vidensgenerering
- Analyse af sociale netværk
- Automatiseret match af bruger og produkt
- Dataorganisering og visualisering

Undervisningen vil bestå af forelæsninger og workshops hvor teknikkerne anvendes på faktiske datasæt.

LÆRINGSMÅL

VIDEN

Den studerende skal gennem modulet opnå viden om:

- Kollektiv viden og succeskriterier for kollektiv viden.
- Teknikker og algoritmer til automatiseret indsamling af kollektiv viden

FÆRDIGHEDER

Den studerende skal gennem modulet opnå færdigheder i:

- web 2.0 paradigmets muligheder for anvendelse og generering af kollektiv viden
- at identificere og sammenligne de grundlæggende teknikker til indsamling af større brugergruppers kollektive viden
- at diskutere og anvende centrale hypoteser, teorier, koncepter, metoder og processer omkring tilgange til kollektiv viden.

KOMPETENCER

Den studerende skal gennem modulet opnå kompetencer til:

- at relatere teorier, koncepter og metoder omkring kollektiv intelligens til faktiske cases

EKSAMEN

PRØVER

Prøvens navn	Kollektiv viden
Prøveform	Skriftlig Prøven har form af en bunden 3-dages hjemmeopgave, hvor den studerende på baggrund af modulet besvarer det eller de udleverede spørgsmål og opgaver inden for modulets fagområde. Den skriftlige del af opgavebesvarelsen må højst være på 10 sider og

	udarbejdes individuelt. Afløsning: Prøven kan afløses ved tilfredsstillende aktiv deltagelse i modulet, hvilket indebærer indløsning af samtlige opgaver og øvelser, som stilles i løbet af kurset.
ECTS	5
Tilladte hjælpemidler	Alle skriftlige og alle elektroniske hjælpemidler
Bedømmelsesform	Bestået/ikke bestået
Censur	Intern prøve

FAKTA OM MODULET

Engelsk titel	Collective intelligence
Modulkode	KAVALG201742
Modultype	Kursus
Varighed	1 semester
Semester	Efterår og Forår Studerende der er optaget på kommunikation, informationsvidenskab, interaktive digitale medier, oplevelsesdesign, informationsarkitektur eller mediefag kan tilmelde sig undervisning i valgfaget.
ECTS	5
Undervisningssprog	Dansk
Undervisningssted	Campus Aalborg
Modulansvarlig	Edina Mustedanagic

ORGANISATION

Studienævn	Studienævnet for Kommunikation og Digitale Medier
Institut	Institut for Kommunikation og Psykologi
Fakultet	Det Humanistiske Fakultet