AALBORG UNIVERSITET

STUDIEORDNING FOR KANDIDATUDDANNELSEN I TEKNOANTROPOLOGI, 2022, KØBENHAVN

CAND.SCIENT.
KØBENHAVN

MODULER SOM INDGÅR I STUDIEORDNINGEN

INDHOLDSFORTEGNELSE

TECHNOLOGICAL TRANSFORMATIONS IN PRIVATE, PUBLIC AND COMMUNITY ORGANIZATIONS

2023/2024

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

The purpose of this project is to apply Techno-Anthropological theories and methods to gain insight into digital transformation's key processes and to identify drivers and barriers for responsible innovation. In this project you should choose a technology that possesses these critical potentials, e.g. touching and shaping our physical and perceptual being in the world. The problem statement is prepared in collaboration with a company or a public organization. This module is anchored in the Research group of Techno-Anthropology & Participation, Department of Planning.

LEARNING OBJECTIVES

KNOWLEDGE

- explain theories and methods used in studies of digital transformations.
- explain historical and contemporary needs and uses of a specific technology.
- categorize technical datasets in transformational perspective.
- communicate existing knowledge on interdisciplinary project work in groups.

SKILLS

- portray and critical evaluate the theoretical and conceptual landscape of Techno-Anthropology and link it to digital transformations.
- identify drivers for responsible digital transformation, planning and implementation.
- Identify relevant digital platforms in specific digital transformations.
- critically reflect on own analysis and group dynamics.

COMPETENCES

- apply qualitative methods in studies of digital transformation and implementation.
- communicate complex technological knowledge and practice.
- make use of the diversities presented in the project group and reflect on the impact on the work processes in problem-based and project-oriented work.

TYPE OF INSTRUCTION

Project module. Please refer to § 17 of the curriculum about the structure and content of the programme.

EXAM

EXAMS

Name of exam	Technological Transformations in Private, Public and Community Organizations
Type of exam	Oral exam based on a project
ECTS	15
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 transformationer i private, offentlige og samfundsmæssige organisationer
Module code	TBTANK22101
Module type	Project
Duration	1 semester
Semester	Autumn
ECTS	15
Language of instruction	English
Empty-place Scheme	Yes
Location of the lecture	Campus Copenhagen, Campus Aalborg
Responsible for the module	Lars Botin, Teli

ORGANISATION

Study Board	Study Board of Techno-Anthropology and Sustainable Design
Department	Department of Sustainability and Planning
Faculty	The Technical Faculty of IT and Design

DIGITAL ANTHROPOLOGY

2023/2024

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

With the ongoing and accelerating development of digital technologies and their companion artefacts, and their ubiquitous presence and use in societies, ethnographic and anthropological theories, methods, and practices are changing. This module introduces students to state of the art anthropological concepts about and approaches to the social life of algorithms, data and digital technologies. Literature on the prevalent theoretical positions are studied and discussed, and ethnographic methods for studying human interaction on and with 'the digital' in all its forms are introduced and practiced. This module is anchored within the Department of Culture and Learning among teachers that research into techno-anthropological themes and methods.

LEARNING OBJECTIVES

KNOWLEDGE

- state of the art anthropological concepts about the social life of algorithms, data, and digital technologies.
- prevalent theoretical positions in the study of human-technology relations in the digital age.
- ethnographic methods for studying human interaction on and with digital platforms and devices.

SKILLS

- plan and carry out ethnographic work in online settings or with technology-heavy expert communities in the computational field.
- identify and analyze socio-technical problems around computing and digitalization.
- review and synthesize the latest literature in fields like digital, virtual and computational anthropology.

COMPETENCES

- critically assess the ethical dimensions of fieldwork on and with digital platforms and devices.
- discuss the wider societal implications of socio-technical problems around computing and digitalization.
- convey anthropological findings in a clear and engaging style.

TYPE OF INSTRUCTION

Course module. Please refer to §17 of the curriculum about the structure and content of the programme.

EXAM

EXAMS

Name of exam	Digital Anthropology
Type of exam	Written or oral exam Determined in the semester description.
ECTS	5
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	Digital antropologi
Module code	TBTANK23102
Module type	Course
Duration	1 semester
Semester	Autumn
ECTS	5
Language of instruction	English
Empty-place Scheme	Yes
Location of the lecture	Campus Copenhagen, Campus Aalborg
Responsible for the module	Lars Botin, Teli

ORGANISATION

Study Board	Study Board of Learning, IT and Organizational Studies (LIO)
Department	Department of Culture and Learning
Faculty	Faculty of Social Sciences and Humanities

INTRODUCTION TO SCRIPTING, DATA MINING AND MACHINE LEARNING

2023/2024

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

The analysis of larger datasets is a productive way to obtain new empirical insights into real-world phenomena. With a critical attitude to the creation and interpretation of data, this course provides a basic step-by-step hands-on introduction of the processes of data gathering, data cleaning, explorative data analysis and visualization. As an example of an object-oriented language useful for this purpose, we use Python with its large array of functional modules (libraries) and integrations for our exercises. The process of selection, cleaning and analysis of data lead us to discuss reliability, predictability, categorization and information security. This module is anchored in the Research group of Communication, Media and Information technologies, Department of Electronic Systems.

LEARNING OBJECTIVES

KNOWLEDGE

- explain gathering of / obtaining larger datasets and assessing the quality of the data, i.e. its discursive power.
- describe assessment of the reliability, predictive power and generalizability of the processed data and visualizations of it.
- account for advanced data gathering and data processing techniques.

SKILLS

- cleaning and preparing larger datasets for analysis.
- writing simple code snippets in a scripting language, e.g. Python.
- handling data in a scripting tool.
- structured debugging and problem-solving during the scripting process.
- visualizing data via relevant types of data diagrams.

COMPETENCES

- analyzing datasets both with inductive / explorative approaches and driven by a hypothesis.
- assessing the quality of both data, findings and data visualizations.
- presenting transparent descriptions of applied data mining processes.
- assessing the coherence of the data processing in relation to the result presented.
- ability to reflect about the relation between data, findings and discourses.

TYPE OF INSTRUCTION

Course module. Please refer to §17 of the curriculum about the structure and content of the programme.

EXAM

EXAMS

Name of exam	Introduction to Scripting, Data Mining and Machine Learning
Type of exam	Written or oral exam Determined in the semester description.
ECTS	5
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	Introduktion til scripting, dataminering og maskinlæring
Module code	ESNANKK1K1
Module type	Course
Duration	1 semester
Semester	Autumn
ECTS	5
Language of instruction	English
Empty-place Scheme	Yes
Location of the lecture	Campus Copenhagen, Campus Aalborg
Responsible for the module	Madsen

ORGANISATION

Study Board	Study Board of Electronics and IT
Department	Department of Electronic Systems
Faculty	The Technical Faculty of IT and Design

FRAMING TECHNO-ANTHROPOLOGICAL TRANSFORMATION

2023/2024

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

Techno-Anthropology has a framework for handling emergent technological challenges and problems. In this module the major pillars and structures in this framework are presented. The focus is on conceptualizations of technological transformation, because it is needed for robust and socially responsible technology to happen. Cases from emergent technological environments will illuminate the theoretical and philosophical framework. This module is anchored in the Research group of Techno-Anthropology and Participation, Department of Planning.

LEARNING OBJECTIVES

KNOWLEDGE

- present and explain different Techno-Anthropological theories regarding technological transformation, including digital ones.
- explain how Techno-Anthropological cases illustrate the conceptual landscape of robust and socially responsible technological transformation, innovation, implementation and planning.
- describe technological transformation, planning, implementation and innovation processes.

SKILLS

- analyze and evaluate cases dealing with robust and socially responsible technological transformation, planning, implementation and innovation.
- compare different Techno-Anthropological theories and cases regarding technological transformation.

COMPETENCES

suggest socially responsible technological solutions.

TYPE OF INSTRUCTION

Course module. Please refer to §17 of the curriculum about the structure and content of the programme.

EXAM

EXAMS

Name of exam	Framing Techno-Anthropological Transformation
Type of exam	Written or oral exam
ECTS	5
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	Rammesætning af teknoantropologisk transformation

Module code	TBTANK22104
Module type	Course
Duration	1 semester
Semester	Autumn
ECTS	5
Language of instruction	English
Empty-place Scheme	Yes
Location of the lecture	Campus Copenhagen, Campus Aalborg
Responsible for the module	Lars Botin, Teli

ORGANISATION

Study Board	Study Board of Techno-Anthropology and Sustainable Design
Department	Department of Sustainability and Planning
Faculty	The Technical Faculty of IT and Design

FACILITATING TECHNOLOGICAL TRANSFORMATIONS IN PRIVATE, PUBLIC AND COMMUNITY ORGANIZATIONS

2023/2024

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

The project module focuses on facilitating digital transformations in industry or public organizations, considering existing problems on science and/or technology. This module is anchored in the Research group of Techno-Anthropology and Participation, Department of Planning.

LEARNING OBJECTIVES

KNOWLEDGE

- present approaches to the interplay between processes for digital transformations, and organizational practices and goals.
- present societal, cultural, or institutional problems on digital transformations.
- present participatory research methods to facilitate digital transformations.

SKILLS

- draft a plan for how to facilitate a participatory process of digital transformations.
- independently develop and carry out a study design that can contribute to digital transformations.
- map controversies around cutting edge science and technology and use it to identify relevant actors and issues.
- share individual methodological skills with peer group members.

COMPETENCES

- apply a variety of approaches to facilitate interdisciplinary collaboration in digital transformations.
- propose solutions to problems and ethical dilemmas that may arise in digital transformations.
- communicate the rationale and results of the proposed digital transformations.

TYPE OF INSTRUCTION

Project module. Please refer to §17 of the curriculum about the structure and content of the programme.

EXAM

PREREQUISITE FOR ENROLLMENT FOR THE EXAM

- An approved PBL competency profile is a prerequisite for participation in the project exam

EXAMS

Name of exam	Facilitating Technological Transformations in Private, Public and Community Organizations
Type of exam	Oral exam based on a project
ECTS	15
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

FACTS ABOUT THE MODULE

Danish title	Facilitering af teknologiske transformationer i private, offentlige og samfundsmæssige organisationer
Module code	TBTANK22201
Module type	Project
Duration	1 semester
Semester	Spring
ECTS	15
Language of instruction	English
Empty-place Scheme	Yes
Location of the lecture	Campus Copenhagen, Campus Aalborg
Responsible for the module	Lars Botin, Teli

ORGANISATION

Study Board	Study Board of Techno-Anthropology and Sustainable Design
Department	Department of Sustainability and Planning
Faculty	The Technical Faculty of IT and Design

DIGITAL CONTROVERSY MAPPING

2023/2024

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

The course combines digital methods and the anthropology of technology to map sociotechnical controversies as they unfold online or in other digital records such as the scientific literature. This module is anchored within the Department of Culture and Learning among teachers that research into techno-anthropological themes and methods.

LEARNING OBJECTIVES

KNOWLEDGE

- describe key problems and techniques in digital methods.
- account for theoretical approaches to contested knowledge and expertise in debates over new science and technology.

SKILLS

- harvest digital traces from online sources.
- identify actors and issues using computational techniques like visual network analysis or natural language processing.
- investigate how digital technologies affect the way controversies unfold on different media platforms.
- produce relevant data visualizations of positions and developments in a debate.

COMPETENCES

- work exploratively with computational techniques and big social data as input for in-depth, qualitative analyses.
- design and communicate a digital methods protocol.
- assess the limits and potentials of available tools and scripts for data harvest, analysis and visualization.
- tell stories and communicate findings through data visualization and narration.

TYPE OF INSTRUCTION

Course module. Please refer to §17 of the curriculum about the structure and content of the programme.

EXAM

EXAMS

Name of exam	Digital Controversy Mapping
Type of exam	Written or oral exam
ECTS	5
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	Digital kortlægning af kontroverser

Module code	TBTANK23202
Module type	Course
Duration	1 semester
Semester	Spring
ECTS	5
Language of instruction	English
Empty-place Scheme	Yes
Location of the lecture	Campus Copenhagen, Campus Aalborg
Responsible for the module	Lars Botin, Teli

ORGANISATION

Study Board	Study Board of Learning, IT and Organizational Studies (LIO)
Department	Department of Culture and Learning
Faculty	Faculty of Social Sciences and Humanities

EMERGING SCIENCE AND TECHNOLOGY

2023/2024

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

The course is concerned with emerging science and technology developments with an emphasis on digital technologies. Digital technologies are pervasive and are increasingly used in a large variety of aspect of human life, and the purpose of the course is to provide an insight into important developments and applications of digital technologies in professional as well as private life. The course provides an understanding of the systemic character of digital technologies and the industries, organizations, communities and institutions in which digital technologies are developed. Emphasis in the course is on innovation processes in the digital area. This module is anchored in the Research group of Communication, Media and Information technologies, Department of Electronic Systems.

LEARNING OBJECTIVES

KNOWLEDGE

- account for knowledge required for analyzing the conditions for and implications of implementing new technologies in professional contexts as well as broader societal contexts.
- describe emerging science and technology developments at a sufficiently deep level to enable concrete analyses of concrete technology implementation and use.
- identify the systemic character of digital technologies and the industries, organizations and institutions in which digital technologies are developed.
- account for the pervasiveness of digital technologies and how they are used in professional as well as private life.
- explain how digital technologies are innovated and how digital technologies can be used to increase innovativeness in other areas.

SKILLS

- identify digital technologies used and to be used for various social settings including sustainability and business purposes.
- deduce how social requirements can be used to improve technical requirement specifications in innovation processes.
- explain the role and potential implications of implementing and using digital technologies – specifically with respect to organizational and leadership aspects and the disruptiveness of selected technologies and the broader social aspects concerning surveillance, nudging and identity management.

COMPETENCES

- use the socio-technical theories of the education for analyzing the development and application of digital technologies.
- contribute to innovation processes in the digital technology area as well as areas where digital technologies are crucial for innovating social including business processes.
- assess social implications of implementing and using selected digital technologies.

TYPE OF INSTRUCTION

Course module. Please refer to §17 of the curriculum about the structure and content of the programme.

EXAM

EXAMS

Name of exam	Emerging Science and Technology
Type of exam	Written or oral exam

ECTS	5
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	Banebrydende videnskab og teknologi
Module code	ESNANKK2K1
Module type	Course
Duration	1 semester
Semester	Spring
ECTS	5
Language of instruction	English
Empty-place Scheme	Yes
Location of the lecture	Campus Copenhagen, Campus Aalborg
Responsible for the module	Madsen

ORGANISATION

Study Board	Study Board of Electronics and IT
Department	Department of Electronic Systems
Faculty	The Technical Faculty of IT and Design

FACILITATING TECHNO-ANTHROPOLOGICAL TRANSFORMATIONS

2023/2024

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

The course expands the techno-anthropological repertoire and makes it more applicable through the teaching of a series of practical tools and methodological concepts that will enable the students to facilitate and contribute to participatory processes of techno-anthropological change. This module is anchored in the Research group of Techno-Anthropology and Participation, Department of Planning.

LEARNING OBJECTIVES

KNOWLEDGE

- explain different techno-anthropological transformations concepts, -methods, and tools.
- explain how people participation can affect the design of technology or of products.
- Explain models for assessment of tecno-anthropological transformations.
- explain concepts for understanding the user-designer relations.

SKILLS

- draft a participatory design strategy.
- plan and conduct participatory design research activities.
- identify appropriate tools, materials and techniques for facilitating and documenting participatory design processes.
- produce a mock-up, prototype, scenario, sketch or other kind of material intermediary outcome of a design process.

COMPETENCES

- plan, facilitate and organize participatory design processes.
- communicate the results of the design process.

TYPE OF INSTRUCTION

Course module. Please refer to §17 of the curriculum about the structure and content of the programme.

EXAM

EXAMS

Name of exam	Facilitating Techno-Anthropological Transformations
Type of exam	Written or oral exam Determined in the semester description.
ECTS	5
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	Rammesætning af teknoantropologisk transformation
Module code	TBTANK22204
Module type	Course
Duration	1 semester
Semester	Spring
ECTS	5
Language of instruction	English
Empty-place Scheme	Yes
Location of the lecture	Campus Copenhagen, Campus Aalborg
Responsible for the module	Lars Botin, Teli

ORGANISATION

Study Board	Study Board of Techno-Anthropology and Sustainable Design
Department	Department of Sustainability and Planning
Faculty	The Technical Faculty of IT and Design

REFLEXIVE PROJECT DESIGN AND COMPETENCE DEVELOPMENT

2023/2024

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

The course in reflexive project design has a dual purpose: first, the course presents some tools that are useful during an internship and similar projects: how to gather, document and interpret data while in the field, working on a specific task. Secondly, discuss how to reflect upon one's own role, when doing research in a field, that oneself is an active part of. That includes action research, observation, portfolio methods, use of diary, workshops, etc. This module is anchored in the Research group of Techno-Anthropology and Participation, Department of Planning.

LEARNING OBJECTIVES

KNOWLEDGE

- explorative, participatory and solution-oriented project types.
- the reflective practitioner and labour market relevant competences.
- different organizations, professional conduct and responsibility at work in different contexts.

SKILLS

- draft a study or project proposal with a reflexive component that is relevant to the project's organizational and institutional context.
- identify appropriate concepts, methods and actions for developing labour market-relevant competences.

COMPETENCES

- reflect critically upon own role in professional organizations.
- choose a project design that considers the student's desires for future employment.

TYPE OF INSTRUCTION

Course module. Please refer to §17 of the curriculum about the structure and content of the programme.

EXAM

EXAMS

Name of exam	Reflexive Project Design and Competence Development
Type of exam	Written or oral exam
ECTS	5
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	Reflekteret projektdesign og kompetenceudvikling

Module code	TBTANK22304
Module type	Course
Duration	1 semester
Semester	Autumn
ECTS	5
Language of instruction	English
Location of the lecture	Campus Copenhagen, Campus Aalborg
Responsible for the module	Lars Botin, Teli

ORGANISATION

Study Board	Study Board of Techno-Anthropology and Sustainable Design
Department	Department of Sustainability and Planning
Faculty	The Technical Faculty of IT and Design

MASTER'S THESIS

2023/2024

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

During the Master's Thesis the student will carry out a Techno-Anthropological research project following good academic and professional practice that directly or in-directly contributes to the development of robust and socially responsible technological solutions to societal challenges. This module is anchored in the Research group of Techno-Anthropology and Participation, Department of Planning.

LEARNING OBJECTIVES

KNOWLEDGE

- explain and justify the design of the project.
- explain the socio-technical theories that constitutes the projects' theoretical resources.
- explain and justify the project's empirical methods, e.g., qualitative, interactional, interventional, ethnographic or literature review methods.
- explain central technical processes and artifacts within the chosen theme or field.
- explain central elements from the technical literature relevant to the addressed theme or field.

SKILLS

- conduct a project that demonstrates competent application of interactive, interventional, experimental, analytical, ethnographic and/or literature review methods.
- conduct a project that contributes to the development of robust and socially responsible technological solutions to societal challenges.
- identify and present the project's premises, analytical strategy, results and possible implications.

COMPETENCES

- evaluate and account for the interdisciplinary aspects of analyses that have been conducted and solutions that were proposed.
- make general conclusions on the basis of the work produced and in response to thematic and theoretical literature.
- reflect on the consequences of technological change and development, in for instance digital advancements.
- assess the relevance of the project's results for future employment.

TYPE OF INSTRUCTION

Project module. Please refer to §17 of the curriculum about the structure and content of the programme.

EXAM

EXAMS

Name of exam	Master's Thesis
Type of exam	Master's thesis/final project Oral exam based on a project.
ECTS	30
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

FACTS ABOUT THE MODULE

Danish title	Kandidatspeciale
Module code	TBTANK22401
Module type	Project
Duration	1 semester
Semester	Spring
ECTS	30
Language of instruction	English
Empty-place Scheme	Yes
Location of the lecture	Campus Copenhagen, Campus Aalborg
Responsible for the module	Lars Botin, Teli

ORGANISATION

Study Board	Study Board of Techno-Anthropology and Sustainable Design
Department	Department of Sustainability and Planning
Faculty	The Technical Faculty of IT and Design

PROJECT-ORIENTED STUDY IN AN EXTERNAL ORGANISATION

2023/2024

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

The student conducts a project work within an external organisation to acquire practical experience in solving advanced techno-anthropological challenges in a professional context. This module is anchored in the Research group of Techno-Anthropology and Participation, Department of Planning.

LEARNING OBJECTIVES

KNOWLEDGE

- describe Techno-anthropological method(s) applied in the project.
- explain Techno-Anthropological theory that is used in the report's analysis of work tasks in the external organization.
- account for the external organization: its organization, different actors and interest groups, implicit assumptions, shared norms and values and/or internal and external contradictions.

SKILLS

- Demonstrate how techno-anthropological theories and methods can be applied / used when attending concrete tasks in the external organization, and how they can contribute to describing, solving, reflecting on, analyzing and potentially evaluating work tasks.
- assess how the student was able to attend the work tasks and contribute to the external organization's mission.
- discuss how tasks could have been solved or managed differently than what was done during the project in the external organizations.

COMPETENCES

- speak the professional language of the external organization.
- reflecting on 1) how the project work in the external organization benefitted the student's academic, professional and social skills, and competences, 2) to what extent the external organization benefitted from the project work, and 3) how can learning from the internship be used for future employability.
- communicate results in a project report and considering how the results can be communicated to different actors in and around the organization.

TYPE OF INSTRUCTION

Project module. Please refer to §17 of the curriculum about the structure and content of the programme.

EXAM

EXAMS

Name of exam	Project-Oriented Study in an External Organisation
Type of exam	Oral exam based on a project
ECTS	25
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	Projektorienteret forløb i en virksomhed
Module code	TBTANK22301
Module type	Project
Duration	1 semester
Semester	Autumn
ECTS	25
Language of instruction	English
Empty-place Scheme	Yes
Location of the lecture	Campus Copenhagen, Campus Aalborg
Responsible for the module	Lars Botin, Teli

ORGANISATION

Study Board	Study Board of Techno-Anthropology and Sustainable Design
Department	Department of Sustainability and Planning
Faculty	The Technical Faculty of IT and Design

ACTION RESEARCH

2023/2024

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

During this module students will conduct research activities that support and qualify technological transformation by involving affected people. Students will gain experiences with different action research methodologies and get familiar with how they can be utilised in a professional context. Students are to plan and possibly execute an action research project and thereby promote, test and/or evaluate responsible socio-technical intervention. This module is anchored in the Research group of Techno-Anthropology and Participation, Department of Planning.

LEARNING OBJECTIVES

KNOWLEDGE

- describe the phases of action research, including those of problem identification, planning, action, observation, and reflection.
- explain classic and contemporary approaches in action research work, including different definitions, level of participation/ involvement and underpinning assumptions.

SKILLS

- plan, execute and/or evaluate action research methods in a professional setting.
- account for and analyze results from the applied action research methodology.
- reflect on how action research can contribute to responsible socio-technical intervention on a practical and theoretical level.

COMPETENCES

- describe and assess potentials and limitations of various action research approaches, including those related to the quality criteria for and the ethical dimensions of action research.
- facilitate participation in action research processes and in responsible socio-technical innovation.
- liaise the project work with the needs of the labor market.

TYPE OF INSTRUCTION

Project module. Please refer to §17 of the curriculum about the structure and content of the programme.

EXAM

EXAMS

Name of exam	Action Research
Type of exam	Oral exam based on a project
ECTS	25
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	Aktionsforskning
Module code	TBTANK22302
Module type	Project
Duration	1 semester
Semester	Autumn
ECTS	25
Language of instruction	English
Location of the lecture	Campus Copenhagen, Campus Aalborg
Responsible for the module	Lars Botin, Teli

ORGANISATION

Study Board	Study Board of Techno-Anthropology and Sustainable Design
Department	Department of Sustainability and Planning
Faculty	The Technical Faculty of IT and Design

DIGITAL WORLDS IN ANTHROPOLOGICAL ANALYSIS

2023/2024

CONTENT, PROGRESS AND PEDAGOGY OF THE MODULE

Use a combination of digital methods (data harvesting, computational analysis and visualization) and online ethnography to map e.g. debates, user cultures, public protest, etc. around new technologies. This module is anchored in the Research group of Techno-Anthropology and Participation, Department of Planning.

LEARNING OBJECTIVES

KNOWLEDGE

- describe recent developments in the use of ethnographic, digital and computational methods for anthropological analysis.
- outline positions within anthropology and philosophy of sciences with relevance to the combination of quantitative and qualitative methods in ethnography.
- explain possibilities and challenges in relation to integrating digital methods in the tradition of anthropological fieldwork.

SKILLS

- integrate ethnographic, digital and computer-mediated methods in a concrete anthropological project design.
- carry out fieldwork using online and offline methods to generate a body of data material for techno-anthropological analysis.
- explicate, demonstrate and discuss the assumptions and biases in the analogue and digital techniques used.
- identify ethical challenges in relation to working with digital and computational methods in an anthropological context.

COMPETENCES

- formulate a research question and design a protocol that specifies how a combination of digital, computational and qualitative methods can be used to answer it.
- code and analyze a complex body of empirical data.
- conduct a critical evaluation of the role that digital and computational methods can – and cannot – play in anthropological fieldwork.
- evaluate how techno-anthropological theories and different methods can help create new practices in technological research and development.

TYPE OF INSTRUCTION

Project module. Please refer to §17 of the curriculum about the structure and content of the programme.

EXAM

EXAMS

Name of exam	Digital Worlds in Anthropological Analysis
Type of exam	Oral exam based on a project
ECTS	25
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	Digitale verdener i antropologisk analyse
Module code	TBTANK22303
Module type	Project
Duration	1 semester
Semester	Autumn
ECTS	25
Language of instruction	English
Empty-place Scheme	Yes
Location of the lecture	Campus Copenhagen, Campus Aalborg
Responsible for the module	Lars Botin, Teli

ORGANISATION

Study Board	Study Board of Techno-Anthropology and Sustainable Design
Department	Department of Sustainability and Planning
Faculty	The Technical Faculty of IT and Design