Filters used for the printout

Curriculum period: 2024-2025. Studies included in the printout: Courses. Languages of the descriptions: English. Language of the printout template: English.

YTMDSS_EM Digital Social Science

YTMDSS_EM Digital Social Science

CURRICULUM PERIOD 2024-2025

Curriculum period 2024-2025 Validity period since 1 Aug 2024

Credits min 120 cr Languages English

Grading scale Grading scale for degrees (distinction)

Content approval required no

Locations Lappeenranta

University Lappeenranta-Lahti University of Technology LUT

Responsible organisation LENS, Social Sciences 100%

Responsible persons

Tarja Pettinen, Administrative person

Hanna-Mari Husu, Responsible teacher

Riina Saarenvesi, Administrative person

Degree programme type Master's Degree

Degree titles Master of Social Sciences

Study field Fields of education (Ministry of Education and Culture), Social sci-

ences

Education classification 733299 Master of Social Sciences, Other or Unknown Field

Content description

EN: Facts

- Degree Master of Social Sciences (M.Soc.Sc.), (Yhteiskuntatieteiden maisteri in Finnish)
- Higher university degree, gives eligibility to apply for scientific doctoral studies
- Extent 120 ECTS credits

The Master's degree (120 ECTS) consists of core studies, advanced specialisation studies and multidisciplinary studies in critical systems of the society. The Master's Thesis and Seminar is included in the advanced specialisation studies. Elective studies can be any courses offered by LUT if the required prerequisites are fulfilled. Studies in other universities/from abroad may be included upon application, too.

Learning outcomes

EN: The master's program in Digital Social Science specializes on human factors and societal impacts of traditional and emerging digital technologies. The program considers societal changes in the digital age and how digital technologies have integrated into our daily lives. Digital technologies are examined as a medium for people's and societies' social behavior and as the target of interaction. The program includes aspects of wellbeing and the social sustainability of digital transitions. Students who have completed their M.Soc.Sc. degree in Digital Social Science are able to:

- understand the impacts of digital technologies on people's behavior and wellbeing and the function of societies.
- examine digital technologies as unique environments for social behavior.
- examine interaction with technologies from the perspective of human and social factors.
- apply social scientific theories on traditional and emerging technologies and evaluate the current research on this field.

• apply innovative and problem-solving thinking and social scientific knowledge on designing, implementing, and managing digital technologies and environments in practice.

Additional information

EN: This master's programme will start in autumn 2024

DEGREE STRUCTURE

Part of the degree	Credits
DIGITAL SOCIAL SCIENCE	min 120 cr
DRAFT	. 24
YTMDSSCORE_EM CORE STUDIES	min 31 cr
YTS010000 Introduction to M.Sc. studies [DRAFT]	1 cr
YTS010200 Methodological Tools to Study Sustainability in Social Sciences [DRAFT]	5 cr
YTS010300 Methodological Tools to Study Technology-topics in Social Sciences [DRAFT]	5 cr
YTS010400 System Theory and System Interdependence [DRAFT]	5 cr
YTS010500 Transition Studies and Innovation Policy [DRAFT]	5 cr
YTS010600 Economy and Society [DRAFT]	5 cr
YTS010700 Public Policy Analysis [DRAFT]	5 cr
YTDKIELI_EM LANGUAGE AND COMMUNICATION STUDIES [DRAFT]	min 4 cr
KE00BZ81 Academic Writing [DRAFT]	3 cr
COMPLETE AT LEAST 1 ECTS IN ENGLISH (grouping module)	
YTMSYVOPDSS ADVANCED SPECIALISATION STUDIES [DRAFT]	min 60 cr
YTMDSSSPEC DIGITAL SOCIAL SCIENCE DRAFT	min 60 cr
YTS010100 Master's Thesis and Seminar DRAFT	30 cr
LUTKYPSYT Maturity test in Master's degree [DRAFT]	0 cr
YTS010800 Digital Welfare States [DRAFT]	5 cr
YTS010900 Work in the Digital Age DRAFT	5 cr
YTS011000 Political Economy of Digital Transformation [DRAFT]	5 cr
YTS011100 Smart Cities and Urban Transitions DRAFT	5 cr
YTS011200 Digital Media and Social Technologies in Society [DRAFT]	5 cr
YTS011300 Robots & AI in Society DRAFT	5 cr

YTMMOKRJ MULTIDISCIPLINARY STUDIES, CRITICAL SYSTEMS OF THE SOCIETY DRAFT	min 25 cr
COMPULSORY STUDIES (grouping module)	
A350A0501 Sustainable Strategy DRAFT	6 cr
YTS011900 Programming for Social Scientists [DRAFT]	5 cr
YTS012000 Solving Societal Challenges with Data [DRAFT]	5 cr
ALTERNATIVE STUDIES (grouping module)	
BH10A3000 Energy and Society [DRAFT]	4 cr
BH60A4402 Sustainability in Socio-Technological context [DRAFT]	6 cr
BJ03A1011 Introduction to Water Treatment Technologies [DRAFT]	5 cr
BH60A7200 Circular.now [DRAFT]	3 cr
BH60A7400 Climate.Now	2 cr
VTS010800 Role of Software in Societies [DRAFT]	5 cr
CS30A1365 Sustainability-oriented innovation [DRAFT]	3 cr
CS39A0090 Networks and ecosystems [DRAFT]	6 cr
A380A0300 Introduction to Digital Marketing [DRAFT]	3 cr
A130A0551 Organizational Behaviour	6 cr
CS39A0070 Managing digital transformation [DRAFT]	6 cr
A350A0601 Contemporary Issues in Strategic Management and Innovation	6 cr
VAPVALYTM ELECTIVE STUDIES	min 0 cr
DRAFT	
ADDITIONAL MINOR STUDIES (grouping module)	

FILTERED COURSES

YTS010000 Introduction to M.Sc. studies

YTS010000 Introduction to M.Sc. studies

Curriculum period 2024-2025 Validity period since 1 Aug 2024

Credits 1 cr Languages English

Grading scale General scale, 0-5

University Lappeenranta-Lahti University of Technology LUT

Responsible organisation LENS, Social Sciences 100%

Responsible persons Tarja Pettinen, Administrative person

Hanna-Mari Husu, Responsible teacher Jaana Laine, Responsible teacher Antti Puupponen, Responsible teacher

Study level Basic studies

Study field Fields of education (Ministry of Education and Culture), Social sci-

ences

Learning outcomes

EN: Upon completion of the course, the student:

- Has the basic knowledge of studying at LUT University and use of the Moodle learning environment.
- Has the basic knowledge of the research areas at Social Sciences and School of Engineering Science.
- Knows how to plan an individual study plan and to follow the progress of the studies in Sisu.
- Knows the practices and regulations regarding examinations and the Master's Thesis.
- Is familiar with the Academic Library's services, collections and databases.
- Understands how to use the information sources in accordance with good practices and respecting the copyrights, write course assignments with correct references.

Content

EN: Introduction course for students who have Bachelor's degree from other university than LUT University. The Orientation Days activities.

Practical study-related information. LUT library collections, databases, reference practices, copyrights, information security, career planning and cultural difference related issues.

Degree requirements and planning of Master's studies, preparation of the individual study plan. Study and exam culture in LUT.

Research areas of Social Sciences and School of Engineering Science.

Additional information

EN: Will be organised first time in academic year 24-25.

Completion method and assessment items Recurrence

Credits

Method 1	Recurrence 1: 1. period	1 cr
Course Completion		1 cr

YTS010200 Methodological Tools to Study Sustainability in Social Sciences YTS010200 Methodological Tools to Study Sustainability in Social Sciences

Curriculum period 2024-2025 Validity period since 1 Aug 2024

Credits 5 cr Languages English

Grading scale General scale, 0-5

University Lappeenranta-Lahti University of Technology LUT

Responsible organisation LENS, Social Sciences 100%

Responsible persons Tarja Pettinen, Administrative person

Hanna-Mari Husu, Responsible teacher Antti Puupponen, Responsible teacher Jaana Laine, Responsible teacher Study level Basic studies

Study field Fields of education (Ministry of Education and Culture), Social sci-

ences

Prerequisites

EN: Bachelor's degree or alike in an appropriate field in the social sciences or communication sciences that gives eligibility to enroll into the master's program.

Learning outcomes

EN: After completing the course, students:

- Have diverse know-how to use various methodological tools: know how to search and apply method information to design and conduct social scientific research on sustainability.
- Can report and evaluate social scientific sustainability research that utilizes different methods.
- Know the data collection process of several qualitative (e.g., interviews, archival) and quantitative (e.g., survey experiments, longitudinal surveys) data types.
- Know how to apply several qualitative (e.g., discourse analysis, narrative analysis, frame analysis) and quantitative (e.g., variance analysis, longitudinal regression analysis, structural equation models) analysis methods to investigate sustainability in social sciences.
- Can utilize computer software for data analysis (e.g., Stata, NVivo).

Content

EN:

- Planning, conducting, reporting, and evaluating social scientific research on sustainability.
- Various qualitative and quantitative methodological tools for data collection and analysis.
- Choosing appropriate methods and research designs for research questions within sustainability theme.

Additional information

EN: Will be organised first time in academic year 24-25.

Study materials

EN: Course material and literature will be announced at the beginning of the course.

Completion method and assessment items Recurrence Method 1 Course Completion 5 cr 5 cr

YTS010300 Methodological Tools to Study Technology-topics in Social Sciences

YTS010300 Methodological Tools to Study Technology-topics in Social Sciences

Curriculum period 2024-2025 Validity period since 1 Aug 2024

Credits 5 cr Languages English

Grading scale General scale, 0-5

University Lappeenranta-Lahti University of Technology LUT

Responsible organisation LENS, Social Sciences 100%

Responsible persons Tarja Pettinen, Administrative person

Hanna-Mari Husu, Responsible teacher Jaana Laine, Responsible teacher Antti Puupponen, Responsible teacher

Study level Basic studies

Study field Fields of education (Ministry of Education and Culture), Social sci-

ences

Prerequisites

EN: Bachelor's degree or alike in an appropriate field in the social sciences or communication sciences that gives eligibility to enroll into the master's program.

Learning outcomes

EN: After completing the course, students:

- Have diverse know-how to use various methodological tools: know how to search and apply method information to design and conduct social scientific technology research.
- Can report and evaluate social scientific technology research that utilizes different methods.
- Know the data collection process of social media data.
- Know how to apply several qualitative (e.g., content analysis, thematic analysis, analysis of images) and quantitative (e.g., topic models, social network analysis, sentiment analysis) analysis methods to investigate technology-topics in social sciences.
- Can utilize computer software for data analysis (e.g., Stata, NVivo).

Content

EN:

- Planning, conducting, reporting, and evaluating social scientific research of technology topics.
- Various qualitative and quantitative methodological tools for data collection and analysis.
- Choosing appropriate methods and research designs for research questions within technology research topics.

Additional information

EN: Will be organised first time in academic year 24-25.

Study materials

EN: Course material and literature will be announced at the beginning of the course.

Completion method and assessment items Recurrence Method 1 Course Completion 5 cr 5 cr

YTS010400 System Theory and System Interdependence

YTS010400 System Theory and System Interdependence

Curriculum period 2024-2025 Validity period since 1 Aug 2024

Credits 5 cr Languages English

Grading scale General scale, 0-5

University Lappeenranta-Lahti University of Technology LUT

Responsible organisation LENS, Social Sciences 100%

Responsible persons Tarja Pettinen, Administrative person

Hanna-Mari Husu, Responsible teacher Jaana Laine, Responsible teacher Antti Puupponen, Responsible teacher

Study level Basic studies

Study field Fields of education (Ministry of Education and Culture), Social sci-

ences

Prerequisites

EN: Bachelor's degree or alike in an appropriate field in the social sciences or communication sciences that gives eligibility to enrol into the master's program.

Learning outcomes

EN: After completing this course, the students will:

- Understand the meaning of social systems and principles of system theory and its main concepts
- Know how to deploy system theory to analyse empirical phenomena
- Understand socio-technical system change and reproduction
- Know similarities and differences regarding other approaches and concepts.

Content

EN:

- Introduction to system theory; what are social systems; what are socio-technical systems?
- The key concepts of system theory
- Systems' relationship to environment and other systems; what are subsystems
- System change and reproduction
- The role of communication in systems
- Open and closed systems
- System stratification, integration and disintegration
- System theory's similarities and differences regarding other approaches such as field theory and the concept of social structure

Additional information

EN: Will be organised first time in academic year 24-25.

Study materials

EN: The literature will be announced at the beginning of the course.

Completion method and assessment items Recurrence

Credits

Method 1	5 cr
Course Completion	5 cr

YTS010500 Transition Studies and Innovation Policy

YTS010500 Transition Studies and Innovation Policy

Curriculum period 2024-2025 Validity period since 1 Aug 2024

Credits 5 cr

Languages English

Grading scale General scale, 0-5

University Lappeenranta-Lahti University of Technology LUT

Responsible organisation LENS, Social Sciences 100%

Responsible persons Tarja Pettinen, Administrative person

Hanna-Mari Husu, Responsible teacher Jaana Laine, Responsible teacher Antti Puupponen, Responsible teacher

Study level Basic studies

Study field Fields of education (Ministry of Education and Culture), Social sci-

ences

Prerequisites

EN: Bachelor's degree or alike in an appropriate field in the social sciences or communication sciences that gives eligibility to enrol into the master's program.

Learning outcomes

EN: After completing this course, the students will:

- Understand societal transitions, policy innovation, and their drivers
- Understand the role of innovation policy and socio-technical change in transitions
- Recognize the impact of transitions on various stakeholders
- Describe suitable strategies for stakeholder engagement in transitions
- Be able to explain the ethical, equity, and social justice implications of transitions and policy choices

Additional information

EN: Will be organised first time in academic year 24-25. Recurrence of teaching: Every other year.

Study materials

EN: The literature will be announced at the beginning of the course.

Completion method and assessment items Recurrence Method 1 Course Completion 5 cr 5 cr

YTS010600 Economy and Society

YTS010600 Economy and Society

Curriculum period 2024-2025 Validity period since 1 Aug 2024

Credits 5 cr Languages English

Grading scale General scale, 0-5

University Lappeenranta-Lahti University of Technology LUT

Responsible organisation LENS, Social Sciences 100%

Responsible persons Tarja Pettinen, Administrative person

Hanna-Mari Husu, Responsible teacher Jaana Laine, Responsible teacher Antti Puupponen, Responsible teacher Study level Basic studies

Study field Fields of education (Ministry of Education and Culture), Social sci-

ences

Prerequisites

EN: Bachelor's degree or alike in an appropriate field in the social sciences that gives eligibility to enroll into the master's program.

Learning outcomes

EN: After completing this course, the students will:

- Understand the social content of economic reality
- Understand economy as evolving different cultural and institutional settings, political conflicts, disputes around values and ideas, and social behaviors
- Know the key topics and concepts in economic sociology and political economy from a critical perspective
- Know the main economic controversies of modernity and the core theories on the relationship between capitalism and democracy
- Understand the relationship between technology, innovation and the economy

Content

EN:

- The social character of the economy: core topics in economic sociology, political economy and heterodox economics
- The origin and peculiarities of the capitalist economic system
- The importance of innovation and technology
- Capitalism and democracy: the role of politics in a liberal economic order
- Welfare states and markets: the limits of state regulation and social control of the capitalist economy
- The relationship between the capitalist market economy and modern culture: behaviors, values, ideas and institutions

Additional information

EN: Will be organised first time in academic year 24-25.

Study materials

EN: The literature will be announced at the beginning of the course.

Completion method and assessment items Recurrence

Credits

Method 1	5 cr
Course Completion	5 cr

YTS010700 Public Policy Analysis

YTS010700 Public Policy Analysis

Curriculum period 2024-2025

Validity period since 1 Aug 2024

Credits 5 cr Languages English

Grading scale General scale, 0-5

University Lappeenranta-Lahti University of Technology LUT

Responsible organisation LENS, Social Sciences 100%

Responsible persons Tarja Pettinen, Administrative person

Hanna-Mari Husu, Responsible teacher Jaana Laine, Responsible teacher Antti Puupponen, Responsible teacher Ilona Bontenbal, Responsible teacher

Study level Basic studies

Study field Fields of education (Ministry of Education and Culture), Social sci-

ences

Prerequisites

EN: Bachelor's degree or alike in an appropriate field in the social sciences or communication sciences that gives eligibility to enroll into the master's program.

Learning outcomes

EN: After taking this course, students will:

- be able to explain what a policy analysis is,
- be familiar with the scientific terminology of policy analysis,
- understand the approaches and results of extant policy analyses,
- have gained more experience in discussing policy analyses, and
- be able to conduct a policy analysis.

Content

EN: From environment to pensions, policies are a central instrument for steering societies. To better understand these policies, a range of analyses instruments can be utilized. This course explains what policy analyses are and discusses when and why such analyses are conducted. Moreover, it explains what methods can be used for analyzing policies. Finally, it highlights what findings policy analyses can render.

Additional information

EN: Will be organised first time in academic year 24-25.

Study materials

EN: Fischer, F., Miller, G.J., & Sidney, M. S. (eds.) (2019). Handbook of public policy analysis: Theory, politics, and methods. New York: Routledge.

Knoepfel, P., Larrue, C., Varrone, F., & Hill, M. (2007). Public policy analysis. Bristol: Policy Press.

Completion method and assessment items Recurrence

Credits

Method 1	5 cr
Course Completion	5 cr

KE00BZ81 Academic Writing

KE00BZ81 Academic Writing

Abbreviation: KE00BZ81

Curriculum period 2024-2025

Validity period since 1 Aug 2024

Credits 3 cr
Languages English
Grading scale Pass-Fail

University Lappeenranta-Lahti University of Technology LUT

Responsible organisation LAB, language 100%

Responsible person Anneli Rinnevalli, Responsible teacher

Study level Basic studies

Study field Fields of education (Ministry of Education and Culture), Business,

administration and law

Fields of education (Ministry of Education and Culture), Information

and Communication Technologies (ICTs)

Fields of education (Ministry of Education and Culture), Engineer-

ing, manufacturing and construction

Fields of education (Ministry of Education and Culture), Social sci-

ences

Prerequisites

EN: Details available in Completion methods under the header Teaching

Learning outcomes

EN: Proficiency level: B2-C1 Students are able •to identify the characteristics of academic writing •to demonstrate their proficiency in applying academic writing conventions, both generic and discipline-specific, to their writing •to demonstrate their ability to critical thinking and analysis •to demonstrate ability in collaborative situations •to produce a 6-page academic paper in pairs or in groups of three

Study materials

EN: Details available in Completion methods under the header Teaching

Completion method and assessment items Recurrence

Credits

Method 1	3 cr
¤LAB/LUT: Course Completion	3 cr

YTS010100 Master's Thesis and Seminar

YTS010100 Master's Thesis and Seminar

Curriculum period 2024-2025 Validity period since 1 Aug 2024

Credits 30 cr Languages English

Grading scale General scale, 0-5

University Lappeenranta-Lahti University of Technology LUT

Responsible organisation LENS, Social Sciences 100%

Responsible persons

Tarja Pettinen, Administrative person

Hanna-Mari Husu, Responsible teacher Jaana Laine, Responsible teacher Antti Puupponen, Responsible teacher

Study level Advanced studies

Study field Fields of education (Ministry of Education and Culture), Social sci-

ences

Prerequisites

EN: Bachelor's degree or alike in an appropriate field in the social sciences or communication sciences that gives eligibility to enroll into the master's program.

Learning outcomes

EN: After completion of the course, students will be able to:

- define their research topic and write a research plan,
- acquire research data and select research methods,
- write a Master's thesis,
- understand research ethical questions involved in research and the correct use of references, and
- critically discuss, give and receive feedback on research.

After completion of the thesis, students will have:

- experience in conducting scientific research,
- in-depth knowledge of their thesis topic, and
- experience in leading a research project.

Content

EN: Writing a Master's thesis is a very exciting task, but it can also be challenging. The Master's Thesis Seminar helps you with this task. It discusses how to pick a thesis topic, how to plan a thesis, and how to write it. Exercises help you in planning your thesis. Moreover, you can get feedback on any text you might already have. Afterwards, you are in a good position to finish writing your thesis.

Additional information

EN: Will be organised first time in academic year 24-25. There will be separate groups for the Master programmes in digital social sciences and in sociotechnical systems and sustainability transition. Will be organised first time in academic year 24-25.

Study materials

EN: The course literature will be announced in the beginning of the course.

Completion method and assessment items Recurrence

Credits

Method 1	Recurrence 1: 1. period-4. period	30 cr
Course Completion		30 cr

LUTKYPSYT Maturity test in Master's degree

LUTKYPSYT Kypsyysnäyte maisterin tutkinnossa

Curriculum period 2024-2025 Validity period since 1 Aug 2024

Credits 0 cr

Languages English, Finnish, Swedish

Grading scale Pass-Fail

University Lappeenranta-Lahti University of Technology LUT

Responsible organisation Lappeenranta-Lahti University of Technology LUT 100%

Responsible persons Tiina Kronqvist, Responsible teacher

Mervi Lensu, Responsible teacher Taina Pekari, Responsible teacher

Study level Other studies

Study field Fields of education (Ministry of Education and Culture), Business,

administration and law

Fields of education (Ministry of Education and Culture), Information

and Communication Technologies (ICTs)

Fields of education (Ministry of Education and Culture), Engineer-

ing, manufacturing and construction

Equivalences to other studies

K1 Maturity test in Master's degree (content)

Completion method and assessment items Recurrence

Credits

Method 1	0 cr
Finnish language	0 cr
Content	 0 cr

YTS010800 Digital Welfare States

YTS010800 Digital Welfare States

Curriculum period 2024-2025

Validity period since 1 Aug 2024

Credits 5 cr Languages English

Grading scale General scale, 0-5

University Lappeenranta-Lahti University of Technology LUT

Responsible organisation LENS, Social Sciences 100%

Responsible persons Tarja Pettinen, Administrative person

Hanna-Mari Husu, Responsible teacher Jaana Laine, Responsible teacher Antti Puupponen, Responsible teacher

Study level Advanced studies

Study field Fields of education (Ministry of Education and Culture), Social sci-

ences

Prerequisites

EN: Bachelor's degree or alike in an appropriate field in the social sciences or communication sciences that gives eligibility to enrol into the master's program.

Learning outcomes

EN: After completing this course, the students will:

- understand how digital technologies change societies,
- be able to explain who the winners and loser of societal digitalization are,
- be aware of challenges and opportunities that digitalization presents to welfare states, and
- have experience in planning welfare reforms that utilize the potentials of digital technologies.

Content

EN: Digital technologies change welfare states. They create new groups of winners and losers in society, which changes who needs support from the state. For example, social protection for workers needs to be updates to cover the growing number of platforms workers, who may be working part-time in several countries at the same time. Another example, health care policies may now need include more preventative measures that can be administered via digital technologies. At the same time, digital technologies give

governments new possibilities to support their citizens and to communicate with them, which can lead to stronger citizens' engagement in policymaking. As a result, policymaking in welfare states may include more citizens' initiatives in the future. This course examines how welfare states change when societies digitalize. It discusses new needs and opportunities for support through the welfare state.

Additional information

EN: Will be organised first time in academic year 24-25.

Study materials

EN: Literature will be announced in the beginning of the course.

Completion method and assessment items Recurrence Method 1 Course Completion 5 cr 5 cr

YTS010900 Work in the Digital Age

YTS010900 Work in the Digital Age

Curriculum period 2024-2025 Validity period since 1 Aug 2024

Credits 5 cr Languages English

Grading scale General scale, 0-5

University Lappeenranta-Lahti University of Technology LUT

Responsible organisation LENS, Social Sciences 100%

Responsible persons Tarja Pettinen, Administrative person

Hanna-Mari Husu, Responsible teacher Jaana Laine, Responsible teacher Antti Puupponen, Responsible teacher

Study level Advanced studies

Study field Fields of education (Ministry of Education and Culture), Social sci-

ences

Prerequisites

EN: Bachelor's degree or alike in an appropriate field in the social sciences or communication sciences that gives eligibility to enrol into the master's program.

Learning outcomes

EN: After completing this course, the students will:

- be capable of explaining how digital technologies change working lives,
- understand how digital technologies affect retirement ages and transitions,
- be aware of new forms of work that come about through digital technologies, and
- have experience in planning workplace improvements that utilize the potentials of digital technologies.

Content

EN: Chatbots replace humans? Telecommuting makes it easier to strike a work-life balance? Health care apps can help older workers to retire later? These and similar questions have been publicly discussed since computer use at work increased. However, the answers are not always that simple, and they keep on changing as digital technologies continue to evolve. This course explores how digital technologies alter our working lives and our retirement transitions, looking into differences across technologies and countries.

EN: Will be organised first time in academic year 24-25.

Study materials

EN: Literature will be announced in the beginning of the course.

Completion method and assessment items Recurrence

Credits

Method 1	5 cr
Course Completion	5 cr

YTS011000 Political Economy of Digital Transformation

YTS011000 Political Economy of Digital Transformation

Curriculum period 2024-2025 Validity period since 1 Aug 2024

Credits 5 cr Languages English

Grading scale General scale, 0-5

University Lappeenranta-Lahti University of Technology LUT

Responsible organisation LENS, Social Sciences 100%

Responsible persons

Tarja Pettinen, Administrative person

Hanna-Mari Husu, Responsible teacher Jaana Laine, Responsible teacher Antti Puupponen, Responsible teacher

Study level Advanced studies

Study field Fields of education (Ministry of Education and Culture), Social sci-

ences

Prerequisites

EN: Bachelor's degree or alike in an appropriate field in the social sciences that gives eligibility to enroll into the master's program.

Learning outcomes

EN: After completing this course, the students will:

- Understand the core macro socio-economic processes in the context of digitalization
- Know the key concepts of political economy and critical social science analysis of digitalization
- Understand the key processes on emergent social dynamics of digital economy
- Understand the dimension of power and inequality in digital transformation
- Understand how digital transformation reconfigures economic activities and changes the social and economic relationships between different groups and classes

Content

EN:

- The intertwined relations between macro-social and macro-economic processes in digital economy: digitalization, datafication, platformzation, and financialization
- Data and digital platforms: the role of Big Tech companies
- Labor, automation and Al
- Digitalization of money and finance
- States and the geopolitics of digital economy

- Disputes around the definition and regulation of the new digital economic activities and sectors
- Refiguration of social classes and economic production
- Vigilance, social control and old/new asymmetries and inequalities of power in digital society

EN: Will be organised first time in academic year 24-25.

Study materials

EN: The literature will be announced at the beginning of the course.

Completion method and assessment items Recurrence

Credits

Method 1	5 cr
Course Completion	5 cr

YTS011100 Smart Cities and Urban Transitions

YTS011100 Smart Cities and Urban Transitions

Curriculum period 2024-2025 Validity period since 1 Aug 2024

Credits 5 cr Languages English

Grading scale General scale, 0-5

University Lappeenranta-Lahti University of Technology LUT

Responsible organisation LENS, Social Sciences 100%

Responsible persons Tarja Pettinen, Administrative person

Hanna-Mari Husu, Responsible teacher Jaana Laine, Responsible teacher Antti Puupponen, Responsible teacher

Study level Advanced studies

Study field Fields of education (Ministry of Education and Culture), Social sci-

ences

Prerequisites

EN: Bachelor's degree or alike in an appropriate field in the social sciences or communication sciences that gives eligibility to enrol into the master's program.

Learning outcomes

EN: After completing the course, students will

- Have a broad understanding of technological transitions in cities from the perspectives of citizens' wellbeing, and energy and resource efficiency.
- Have tools to review the latest research literature on technological urban transitions.
- Understand the social scientific approach to urban planning from the perspectives of sustainability and social factors.
- Understand the significance of social scientific theories in explaining issues on urban smart technologies.
- Students can examine smart technologies from several social scientific perspective: e.g., How do citizens adapt or reject urban technologies, how smart city transitions impact urban planning.

Content

EN:

- Empirical research and social scientific theories on smart technologies in urban environments of today and in the future.
- Perspectives of different smart technologies in the context of urban transitions (e.g., internet of things and smart grids).
- Ethical consideration of indoor and outdoor smart technologies.
- The impact of smart technologies on citizens' behaviour and wellbeing (e.g., stress, social contacts, and physical activity).
- The impact of smart technologies on urban planning (e.g., urban food, optimization of local energy and mobility systems, ensuring liveable and regenerative circular economies in cities).
- Review of social factors around smart cities and how to examine them from the perspectives of social sciences and sustainability.

EN: Will be organised first time in academic year 24-25.

Study materials

EN: Will be informed later.

Completion method and assessment items Recurrence

Credits

Method 1	5 cr
Course Completion	5 cr

YTS011200 Digital Media and Social Technologies in Society

YTS011200 Digital Media and Social Technologies in Society

Curriculum period 2024-2025 Validity period since 1 Aug 2024

Credits 5 cr Languages English

Grading scale General scale, 0-5

University Lappeenranta-Lahti University of Technology LUT

Responsible organisation LENS, Social Sciences 100%

Responsible persons Tarja Pettinen, Administrative person

Hanna-Mari Husu, Responsible teacher Jaana Laine, Responsible teacher Antti Puupponen, Responsible teacher

Study level Advanced studies

Study field Fields of education (Ministry of Education and Culture), Social sci-

ences

Prerequisites

EN: Bachelor's degree or alike in an appropriate field in the social sciences or communication sciences that gives eligibility to enrol into the master's program.

Learning outcomes

EN: After completing the course, students will

- Have a broad understanding of the social factors in latest communication technologies and digital media platforms from the perspectives of consumers, and content production.
- Have tools to review the latest research literature on technology–mediated social interaction and digital media in society.

- Understand the social and communication scientific approaches to social media, digital environment, and communication technology studies and can scrutinize digital technologies from the perspectives of social sustainability and social factors.
- Understand the significance of social scientific theories in explaining digital media and communication technology issues.
- Can examine social and media technologies from several social and communication scientific perspective: e.g., How do people consume digital media and interact through advanced communication technologies and how do these technologies change people's behaviour; what kind of social and cultural impact these technologies may have; analyse unintended consequences of technology.

Content

EN:

- Current empirical research and theories on social interaction via latest communication technologies, media consumption and its digital footprints, and the societal impacts of different platforms.
- Perspectives of different social media and advanced social technologies (e.g., latest social media platforms, metaverse, extended reality technologies [AR/VR/MR] and virtual avatars).
- Perspectives of datafication and its implications to public media use: how data influences, for example, media's relationship with their audiences and individual taste. How newer forms of media always contain traces of older forms of media, and how they draw influence from each other. Participation to media environments, public discussions, and content creation.
- Ethical consideration of social technologies and wellbeing, and social media and data.
- Review of social factors around latest communication technologies and digital media and how to examine them from the perspectives of social and communication sciences and social sustainability.

Additional information

EN: Will be organised first time in academic year 24-25.

Study materials

EN: Will be informed later.

Completion method and assessment items Recurrence Method 1 Course Completion 5 cr 5 cr

YTS011300 Robots & Al in Society

YTS011300 Robots & Al in Society

Curriculum period 2024-2025 Validity period since 1 Aug 2024

Credits 5 cr Languages English

Grading scale General scale, 0-5

University Lappeenranta-Lahti University of Technology LUT

Responsible organisation LENS, Social Sciences 100%

Responsible persons Tarja Pettinen, Administrative person

Hanna-Mari Husu, Responsible teacher Jaana Laine, Responsible teacher Antti Puupponen, Responsible teacher

Study level Advanced studies

Study field Fields of education (Ministry of Education and Culture), Social sci-

ences

Prerequisites

EN: Bachelor's degree or alike in an appropriate field in the social sciences or communication sciences that gives eligibility to enrol into the master's program.

Learning outcomes

EN: After completing the course, students will

- Have a broad understanding of the relationships between people and advanced robotic technologies.
- Can review the latest research literature on human-robot interaction.
- Understand the social scientific approach to technology studies and can scrutinize robotic technologies from the perspectives of social sustainability and social factors.
- Understand the significance of social scientific theories in explaining issues on technologies.
- Students can examine robotic technologies from several social scientific perspective: e.g., How do people react to or interact with advanced technologies and how do these technologies change people's behaviour.

Content

EN:

- Current empirical research and social scientific theories on the relationships between people and latest robotic technologies.
- Perspectives of different advanced technologies (e.g., robots, artificial intelligence, and virtual agents).
- The impact of latest smart technologies on people's behaviour, thinking and everyday life.
- Ethical consideration of robotic technologies and wellbeing.
- Review of social factors around robotic technologies and how to examine them from the perspectives of social sciences and social sustainability

Additional information

EN: Will be organised first time in academic year 24-25.

Study materials

EN: Will be informed later.

Completion method and assessment items Recurrence

Credits

Method 1	5 cr
Course Completion	5 cr

A350A0501 Sustainable Strategy

A350A0501 Sustainable Strategy

Curriculum period 2024-2025 Validity period since 1 Aug 2024

Credits 6 cr English Languages

Grading scale General scale, 0-5

University Lappeenranta-Lahti University of Technology LUT

Responsible organisation LBS, Business Administration 100% Responsible persons Anni Tuppura, Responsible teacher Suvi Tiainen, Administrative person

Paavo Ritala, Responsible teacher

Study level Basic studies Study field Fields of education (Ministry of Education and Culture), Business,

administration and law

Tweet text

EN: Location: Lappeenranta

Learning outcomes

EN: This course concentrates on the topical phenomena and concepts related to the creation and development of sustainable strategy in organisations. In particular, the focus is on the intersection of firm strategy and economic, social, and environmental dimensions of sustainability. These topics are investigated both from the viewpoints of academic research and practical relevance. Students will learn to discuss and synthesize the relevant academic evidence, examine the links of contemporary topics to previous research and assess the practical relevance of the issues through concrete examples. The learning outcomes of the course are the following:

- 1. To assess the topic of sustainable strategy in the firm level as well as within the broader institutional context from both academic and practitioner perspectives.
- 2. To discuss and debate on different and conflicting perspectives regarding sustainability in business.
- 3. To be able to analyze the practical relevance of sustainable business strategy.

Content

EN: The content of the course is based on topical issues related to sustainable strategy from different approaches, e.g., sustainable strategy and sustainable business models, and strategic opportunities and challenges of circular and regenerative economy. Thematic lectures in the beginning of the course introduce the central concepts. After that the students start to accumulate deeper understanding on a chosen topic by familiarizing to literature and conducting an essay. During the second half of the course the students will be working in groups of four to conduct research on sustainable strategy issue. Interactive workshop and seminars are organized to discuss the individual and group assignments.

Additional information

EN: Blended learning

The course is related to UN's Sustainable Development Goals (SDG): 8 decent work and economic growth, 9 industry, innovation and infrastructure, 12 responsible consumption and production

Study materials

EN: Mainly academic literature related to the subjects of the assignments. In addition lecture materials, practitioner-oriented articles, videos, and podcasts on sustainable business provided in Moodle.

Completion method and assessment items Recurrence

Credits

Method 1	Recurrence 1: 1. period	6 cr
Course Completion		6 cr

YTS011900 Programming for Social Scientists

YTS011900 Programming for Social Scientists

Curriculum period 2024-2025

Validity period since 1 Aug 2024

Credits 5 cr Languages English

Grading scale General scale, 0-5

University Lappeenranta-Lahti University of Technology LUT

Responsible organisation LENS, Social Sciences 100%

Responsible persons Tarja Pettinen, Administrative person

Hanna-Mari Husu, Responsible teacher Jaana Laine, Responsible teacher Antti Puupponen, Responsible teacher

Study level Intermediate studies

Study field Fields of education (Ministry of Education and Culture), Social sci-

ences

Prerequisites

EN: Bachelor's degree or alike in an appropriate field in the social sciences or communication sciences that gives eligibility to enrol into the master's program.

Learning outcomes

EN: After completing this course, the students will:

- be able to explain what programming is used for,
- understand the opportunities that programming brings for social scientists,
- be aware of the most popular programming languages,
- have experience in using one programming language.

Content

EN: Programming skills are in high demand, also outside the traditional jobs of software engineers. To participate in multidisciplinary innovation and problem solving, it is advantageous for social scientists to understand the logic and basics of programming. Understanding the basics of the field of software engineering facilitates multidisciplinary collaboration. Social scientists equipped with basic programming skills are in head start in the job markets and have more tools to use for social scientific research and solving societally relevant issues.

Additional information

EN: Will be organised first time in academic year 24-25.

Study materials

EN: Will be informed later.

Completion method and assessment items Recurrence Method 1 Course Completion 5 cr 5 cr

YTS012000 Solving Societal Challenges with Data

YTS012000 Solving Societal Challenges with Data

Curriculum period 2024-2025 Validity period since 1 Aug 2024

Credits 5 cr Languages English

Grading scale General scale, 0-5

University Lappeenranta-Lahti University of Technology LUT

Responsible organisation LENS, Social Sciences 100%

Responsible persons Tarja Pettinen, Administrative person

Hanna-Mari Husu, Responsible teacher Jaana Laine, Responsible teacher Antti Puupponen, Responsible teacher

Study level Intermediate studies

Study field Fields of education (Ministry of Education and Culture), Social sci-

ences

Prerequisites

EN: Bachelor's degree or alike in an appropriate field in the social sciences or communication sciences that gives eligibility to enrol into the master's program.

Learning outcomes

EN: After completing this course, the students will:

- know where and how they can obtain open data,
- be able to assess the quality and restrictions of data sources,
- be aware of the opportunities of multidisciplinary collaboration,
- have experience in planning projects solving societal challenges.

Content

EN: Massive amount of data is generated every day by public and private organizations around the world. Digital footprints are collected as part of people's everyday lives and their everyday activities, for example when shopping online, browsing the internet, or using social media. Big data collected has attracted increasing attention over the recent years, and increasing amount of survey, register, and other traditional type of data are openly available. Much of this data remains unutilized, even though powerful analyses for solving societal challenges become possible. This course explores the opportunities and challenges of open data and the benefits of multidisciplinary approach to problem solving.

Additional information

EN: Will be organised first time in academic year 25-26.

Study materials

EN: Chen, S.H. (ed.) (2018). Big data in computational social science and humanities. Cham: Springer. Additional literature will be announced in the beginning of the course.

Completion method and assessment items Recurrence Method 1 Course Completion 5 cr 5 cr

BH10A3000 Energy and Society

BH10A3000 Energy and Society

Curriculum period 2024-2025 Validity period since 1 Aug 2024

Credits 4 cr Languages English

Grading scale General scale, 0-5

University Lappeenranta-Lahti University of Technology LUT

Responsible organisation LES, Energy Technology 100%

Responsible persons Minna Loikkanen, Administrative person

Eeva-Lotta Apajalahti, Responsible teacher Alicja Dankowska, Responsible teacher

Study level Basic studies

Study field Fields of education (Ministry of Education and Culture), Engineer-

ing, manufacturing and construction

Tweet text

EN: The place of teaching: Lappeenranta; blended teaching

Learning outcomes

EN: Upon completion of the course the student will be able to:

- 1. perceive energy systems as sociotechnical systems
- 2. understand societal, political, historical and cultural aspects of energy system change
- 3. analyse how media mediates ongoing energy transition and what is the role of different actor groups such as corporate representatives, civic society, entrepreneurs, industry associations and politicians influence ongoing energy transition
- 4. argue and write own perspectives as experts and engage with wider societal discussions on some aspects of energy.

Content

EN: The course focuses on societal, political, historical and cultural perspectives on energy systems development and ongoing energy transition. The course's approach to the energy systems is sociotechnical, which means that social processes and human agency shape technology and energy system as much as technology and energy system shape social processes and everyday modern way of living. The six approaches of the course are 1) energy systems as sociotechnical systems, 2) historical approach to energy system change, 3) cultural framing of energy technology, 4) energy policy and actor groups, 5) energy citizenship, 6) power and interplay of energy market actors in energy field.

Additional information

EN: The course is held face-to-face at Lappeenranta campus. "Lectures" are based on pre-assignments, pair/group discussions and workshop type of tasks during the lecture meetings. The course is primarily for students of Energy Technology, but it is open for other LES students as well as students from other LUT schools.

**

The course is related to UN's Sustainable Development Goals (SDG): 7 affordable and clean energy, 9 industry, innovation and infrastructure, 11 sustainable cities and communities, 16 peace, justice and strong institutions.

Study materials

EN: Materials are provided during the course

Completion method and assessment items Recurrence

Credits

Method 1	Recurrence 1: 3. period-4. period	4 cr
Course Completion		4 cr
Method 2	Recurrence 1: 3. period-4. period	4 cr
Course Completion		4 cr

BH60A4402 Sustainability in Socio-Technological context

BH60A4402 Sustainability in Socio-Technological context

Validity period since 1 Aug 2024

Credits 6 cr Languages English

Grading scale General scale, 0-5

University Lappeenranta-Lahti University of Technology LUT

Responsible organisation LES, Environmental Technology 100%
Responsible persons Annukka Ilves, Administrative person
Jarkko Levänen, Responsible teacher

Miika Marttila, Responsible teacher Lassi Linnanen, Responsible teacher

Study level Basic studies

Study field Fields of education (Ministry of Education and Culture), Engineer-

ing, manufacturing and construction

Tweet text

EN: Location: Lappeenranta
Equivalences (free text field)

EN: BH60A4400 Introduction to Sustainability

Learning outcomes

EN: After successfully completing the course, students are able to:

- 1) Outline the different dimensions of sustainability; ecological, social, economic and cultural,
- 2) Explain the interaction between the environment, society and business and the relationships, of various actors in these fields and their impacts on the society and the environment,
- 3) Explain the core idea and thinking behind sustainability and its importance in order to limit or decelerate environmental damages and improve our quality of life while pursuing a more sustainable lifestyle and business within the planetary boundaries,
- 4) Apply practically the learned principles and concepts of sustainability in relation to current production and consumption habits,
- 5) Analyze environmental impacts of a product within a selected system,
- 6) Know and be able to apply different value-adding activities and tools that promote sustainability; and
- 7) Reflect on sustainability principles and desirably in thinking and lifestyles.

Content

EN: The general objective of the course is to provide a comprehensive overview on the concepts of sustainability, sustainable business, and sustainable transition. The course introduces global sustainability challenges that the planet and societies are facing due to human activities and natural causes. Sustainability challenges and their interconnections are learnt and understood in order to realize the need for the sustainability transition.

Additional information

EN: The course is based on independent digitalized studying supported by two lectures during the period 1.

Study materials

EN: Will be announced in Moodle.

Completion method and assessment items Recurrence

Credits

Method 1	Recurrence 1: 1. period	6 cr
Course Completion		6 cr

BJ03A1011 Introduction to Water Treatment Technologies

BJ03A1011 Introduction to Water Treatment Technologies

Curriculum period 2024-2025 Validity period since 1 Aug 2024

Credits 5 cr Languages English

Grading scale General scale, 0-5

University Lappeenranta-Lahti University of Technology LUT

Responsible organisation LENS, Chemical Engineering 100%
Responsible persons Armi Rissanen, Administrative person

Susana Rodriguez Couto, Responsible teacher

Study level Advanced studies

Study field Fields of education (Ministry of Education and Culture), Engineer-

ing, manufacturing and construction

Tweet text

EN: Location: Blending teaching; Mikkeli (contact teaching)

Prerequisites

EN: As an introductory course (with the 1st lecture on conventional water treatment technologies), Laboratory safety course (BJ02A0060) should be completed before participating in the laboratory sessions of the course.

Recommended prerequisites

BJ02A0060 Laboratory Safety Course

Equivalences (free text field)

EN: Replaces the course BJ03A1010 Introduction to Advanced Water Treatment, 5 ECTS

Learning outcomes

EN: By the end of the course, the student is expected to be able to: describe conventional and advanced biological, chemical and physical treatment of contaminated water and wastewater; and to suggest suitable treatment method(s) based on the composition of the water/ wastewater and the efficiency of the studied technology(ies).

Content

EN: Learning the principles of water treatment techniques such as biological methods, coagulation/flocculation, adsorption/ion exchange, advanced oxidation processes (AOPs), membrane technology, and electrochemical methods. Comparison of different water treatment techniques will be considered in the course from economic, environmental and technical perspectives. Problem-based learning (PBL) using real case scenarios will be conducted as a group work. Weekly homework assignments related to the topic of each week will be proposed (to be prepared individually or in groups).

Additional information

EN: Suitable for doctoral studies.

The course is related to UN's Sustainable Development Goals (SDG): 6 clean water and sanitation.

Study materials

EN: Lecture notes. Moodle. Literature from published scientific articles and from the teacher's own books.

Completion method and assessment items Recurrence

Credits

Method 1	Recurrence 1: 1. period	5 cr
Course Completion		5 cr
Method 2	Recurrence 1: 1. period	5 cr
Course Completion		5 cr

BH60A7200 Circular.now

BH60A7200 Circular.now

Curriculum period 2024-2025 Validity period since 1 Aug 2024

Credits 3 cr
Languages English
Grading scale Pass-Fail

University Lappeenranta-Lahti University of Technology LUT

Responsible organisation LES, Environmental Technology 100% Responsible persons Sanni Väisänen, Responsible teacher

Annukka Ilves, Administrative person

Study level Basic studies

Study field Fields of education (Ministry of Education and Culture), Engineer-

ing, manufacturing and construction

Tweet text

EN: Location: Lappeenranta, Lahti, kokonaan verkossa / full digi

Learning outcomes

EN: After successfully completing the course, students are able to:

- 1. explain the targets of circular economy and understand possibilities to implement circular economy in different sectors,
- 2. understands capability of the selected products, production systems and services to fulfil the requirements of circular economy

Content

EN: Introduction to circular economy: circular economy aspects related to food systems, forest systems, product design, transportation sector and sharing economy.

Additional information

EN: ***The course is related to UN's Sustainable Development Goals (SDG):

7 affortable and clean energy, 9 industry, innovation and infrastructure, 11 sustainable cities and communities, 12 responsible consumption and production, 13 climate action.

NOTE! BH60A7200 Circular.Now and BH60A5401 Introduction to Circular Economy are alternative, both cannot be included in the degree!

Completion method and assessment items. Recurrence		Credits
Method 1	Recurrence 1: 1. period-Summer	3 cr
Course completion		3 cr
Method 2	Recurrence 1: 1. period-Summer	3 cr
Course completion		3 cr

BH60A7400 Climate.Now

BH60A7400 Climate.Now

Curriculum period 2024-2025 Validity period since 1 Aug 2024

Credits 2 cr Languages English Grading scale Pass-Fail

University Lappeenranta-Lahti University of Technology LUT

Responsible organisation LES, Environmental Technology 100%
Responsible persons Sanni Väisänen, Responsible teacher
Michael Child, Responsible teacher

Annukka Ilves, Administrative person

Study level Basic studies

Study field Fields of education (Ministry of Education and Culture), Engineer-

ing, manufacturing and construction

Learning outcomes

EN: The content and learning outcomes of the Climate Change course are based on:

- classifying climate change as a scientific phenomenon,
- explaining how it can be prevented (mitigation),
- summarizing how adaptation to it is possible.

In addition to discussing the scientific basis, the objectives of the course also include discussing the theme of climate change by:

- analyzing it as a global human challenge
- interpreting it as an ethical challenge to our understanding of human life
- commenting on it as a challenge related to the students' fields of study
- appraising it as a challenge regarding the students' personal roles as influencers

Content

EN: Introduction to Climate change: climate system, future of the climate, impacts, mitigation and adaptation, big issues, applied perspectives and assignments.

Students complete a Massive Open Online Course called Climate.now as well as specified additional assignments.

Additional information

EN: NOTE! BH60A7400 Climate.Now and BH60A5900 Climate Changeare alternative, both cannot be included in the degree!

Full digi

The course is related to the UN's Sustainable Development Goals (SDG):

1 no poverty

2 zero hunger

- 3 good health and well-being
- 4 quality education
- 5 gender equality
- 6 clean water and sanitation
- 7 affordable and clean energy
- 8 decent work and economic growth
- 9 industry, innovation and infrastructure
- 10 reduced inequalities
- 11 sustainable cities and communities
- 12 responsible consumption and production
- 13 climate action

Study materials

EN: To be provided on course Moodle pages.

Literature

https://digicampus.fi/login/index.php

Completion method and assessment items Recurrence

Credits

Method 1	Recurrence 1: 3. period-4. period	2 cr
Course completion Method 2	Recurrence 1: 3. period-4. period	2 cr
Course completion		2 cr

VTS010800 Role of Software in Societies

VTS010800 Role of Software in Societies

Curriculum period 2024-2025 Validity period since 1 Aug 2024

Credits 5 cr Languages English

Grading scale General scale, 0-5

University Lappeenranta-Lahti University of Technology LUT

Responsible organisation LENS, Social Sciences 100%

Responsible persons

Tarja Pettinen, Administrative person

Anna Pantasila, Responsible teacher

Anna Rantasila, Responsible teacher Erno Vanhala, Responsible teacher

Study level Advanced studies

Study field Fields of education (Ministry of Education and Culture), Social sci-

ences

Prerequisites

EN: Bachelor's degree or alike in an appropriate field in the social sciences or communication sciences that gives eligibility to enrol into the master's program. Some skills of programming (e.g. Python, R, JavaScript)

Learning outcomes

EN: After completing this course you will:

- understand how software impacts different aspects of society
- can reflect on the role of software development in different aspects of contemporary life
- recognise how questions of society and communication are related to themes in software engineering
- understand also the dark side of software engineering

learn to handle data to provide additional information

Content

EN: This course provides broad overview on how software impacts contemporary societies, and what role it plays in the current situation and future developments of environment, industries, work, leisure, and civil society. The course has visiting lecturers from different areas of Software Engineering, who conduct lectures and workshops.

Study materials

EN: Literature will be announced in the beginning of the course.

Completion method and assessment items Recurrence

Credits

Method 1	5	cr
Course Completion	5	cr

CS30A1365 Sustainability-oriented innovation

CS30A1365 Sustainability-oriented innovation

Curriculum period 2024-2025 Validity period since 1 Aug 2024

Credits 3 cr Languages English

Grading scale General scale, 0-5

University Lappeenranta-Lahti University of Technology LUT Responsible organisation LENS, Industrial Engineering and Management 100%

Responsible persons Nina Tura, Responsible teacher

Armi Rissanen, Administrative person

Study level Intermediate studies

Study field Fields of education (Ministry of Education and Culture), Engineer-

ing, manufacturing and construction

Tweet text

EN: Location: kokonaan verkossa / full digi

Prerequisites

EN: It is preferred that student has accomplished: Innovaatio- ja teknologiajohtamisen peruskurssi (Basics in innovation and technology management) or equivalent.

Learning outcomes

EN: The course aims to familiarize students with the concept of sustainability-oriented innovation and its applications to innovation management.

Aims:

After completion of the course, students will be able to:

- 1) Understand and explain the key concepts and theoretical principles related to sustainability and innova-
- 2) To be able to examine the different types of sustainability-oriented innovations and companies executing such innovations.
- 3) Recognize and understand the characteristics of new emerging concepts, markets and business models (such as circular economy) having potential for sustainable value creation.
- 4) Critically examine sustainable value creation including possibilities for negative value creation (e.g. tensions and trade-offs)
- 5) To be able to critically analyze organizations' development and management requirements related to sustainability-oriented innovation.
- 6) To understand an apply practically learned principles and concepts in relation to innovation management practices and innovation processes.

Content

EN: The idea of the course is to learn and understand the links between innovation management and sustainability and familiarize students with the emerging concepts of sustainability-oriented innovation. The course aims to enhance the development of students' sustainability competences (e.g. critical and anticipatory thinking, collaboration, communication, strategic action and systems thinking) to be used in future decision-making.

Additional information

EN: Course utilizes Moodle-platform.

Opintojakso liittyy YK:n kestävän kehityksen tavoitteisiin (SDG): 8 ihmisarvoista työtä ja talouskasvua, 9 kestävää tuloksellisuutta ja innovaatioita ja infrastruktuureja, 11 kestävät kaupungit ja yhteisöt, 12 vastuullista kuluttamista, 13 ilmastotekoja, 17 yhteistyö ja kumppanuus

Study materials

EN: Recent academic literature and online lectures.

Completion method and assessment items Recurrence		Credits
Method 1	Recurrence 1: 3. period	3 cr
Course Completion		3 cr
Method 2	Recurrence 1: 3. period	3 cr
Course Completion		3 cr

CS39A0090 Networks and ecosystems

CS39A0090 Networks and ecosystems

Curriculum period 2024-2025 Validity period since 1 Aug 2024

Credits 6 cr Languages English

Grading scale General scale, 0-5

University Lappeenranta-Lahti University of Technology LUT Responsible organisation LENS, Industrial Engineering and Management 100%

Responsible persons

Satu Rinkinen, Responsible teacher

Armi Rissanen, Administrative person

Study level Intermediate studies

Study field Fields of education (Ministry of Education and Culture), Engineer-

ing, manufacturing and construction

Tweet text

EN: Location: Lahti

Learning outcomes

EN: After completing the course the student understands the role of networks in innovation activity and innovation management. After the course the student is able to analyze and describe an organisation's role in business and innovation ecosystems, and to utilize the ecosystem-based view when planning and developing innovation activities.

Content

EN: The core content of the course includes:

- Network-based view on business and innovation
- Innovation networks
- Business and innovation ecosystem characteristics
- Ecosystems as affiliation and as a structure
- Ecosystem evolution

Study materials

EN: Materials will be informed and provided on the course's Moodle page.

Completion method and assessment items Recurrence

Credits

Method 1	Recurrence 1: 3. period-4. period	6 cr
Course Enrolment		0 cr
Course Assessment		6 cr

A380A0300 Introduction to Digital Marketing

A380A0300 Introduction to Digital Marketing

Curriculum period 2024-2025 Validity period since 1 Aug 2024

Credits 3 cr Languages English

Grading scale General scale, 0-5

University Lappeenranta-Lahti University of Technology LUT

Responsible organisation LBS, Business Administration 100%
Responsible persons Liisa-Maija Sainio, Responsible teacher
Suvi Tiainen, Administrative person

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Study level Intermediate studies

Study field Fields of education (Ministry of Education and Culture), Business,

administration and law

Tweet text

EN: Location: Lappeenranta

Learning outcomes

EN: After completing the course, the student should be able to:

- 1. Define the key concepts of digital marketing.
- 2. Evaluate suitable digital marketing communication tactics to attract, convert, retain and grow customers.

3. Analyze digital analytics data and make data-driven insights.

Content

EN: Web design, conversion optimization, content marketing search engine optimization, online advertising, social media marketing, web analytics.

Study materials

EN: Articles and online material informed/provided by the lecturer

Completion method and assessment itemsRecurrenceCreditsMethod 1Recurrence 1: 4. period3 crCourse Completion3 crMethod 2Recurrence 1: 4. period3 crCourse Completion3 cr

A130A0551 Organizational Behaviour

A130A0551 Organizational Behaviour

Curriculum period 2024-2025 Validity period since 1 Aug 2024

Credits 6 cr Languages English

Grading scale General scale, 0-5

University Lappeenranta-Lahti University of Technology LUT

Responsible organisation LBS, Business Administration 100%
Responsible persons Anna-Maija Nisula, Responsible teacher

Suvi Tiainen, Administrative person

Study level Intermediate studies

Study field Fields of education (Ministry of Education and Culture), Business,

administration and law

Tweet text

EN: Location: full digi

Learning outcomes

EN: The goal of the course is to familiarize students with the organizational behavior as a theoretical phenomenon. The course focuses on human behavior, factors affecting human behavior and consequences of human behavior in organizations.

After completing the course students should be able to:

- define the key concepts of organizational behavior and identify these concepts by definition
- understand and describe the key theoretical entities that are composed by the association of the basic concepts.

Content

EN: The course targets on human behavior in organizations as an individual, team and organizational level phenomenon, all of which are interconnected. At the *individual level*, the central themes are personality, psychological capital and values, perceptions and decision making, attitudes, motivations and moods and emotions. At the *group or team level*, the central themes concern management of teams or groups of people, role of group dynamics, power and politics as well as conflicts and negotiation for team behavior. At the *organizational level*, the central themes concern organizational structure, culture, and change. As groups and organizations constitute of individuals it is important to understand individual behaviors,

which have an influence to the behaviors of other individuals (groups and organizations) and vice a versa, group and organizational factors have an influence on individual's behavior.

Additional information

EN:

This course is on-line course and emphasizes students'; self-directed learning via Moodle assignments

Study materials

EN: 1. Robbins, S. P.; Judge, T. A. (2009). Organizational Behavior. 13th Edition, New Jersey: Pearson/Prentice Hall

2. Materials announced by the lecturer.

Completion method and assessment items Recurrence

Credits

Method 1	Recurrence 1: 3. period-4. period	6 cr
Course Completion		6 cr
Method 2	Recurrence 1: 3. period-4. period	6 cr
Course Completion		6 cr

CS39A0070 Managing digital transformation

CS39A0070 Managing digital transformation

Curriculum period 2024-2025

Validity period since 1 Aug 2024

Credits 6 cr Languages English

Grading scale General scale, 0-5

University Lappeenranta-Lahti University of Technology LUT Responsible organisation LENS, Industrial Engineering and Management 100%

Responsible persons Juhani Ukko, Responsible teacher

Armi Rissanen, Administrative person Minna Saunila, Responsible teacher Mira Holopainen, Responsible teacher

Study level Intermediate studies

Study field Fields of education (Ministry of Education and Culture), Engineer-

ing, manufacturing and construction

Tweet text

EN: Location: Lahti

Learning outcomes

EN: After completing the course the student will be able to:

- understand the relationship between strategy and digital transformation
- understand the impact of digital solutions on business processes and human operations
- define the realization, measurement, and management of digital transformation

Content

EN: Background and basics of digital transformation. Digitalization as part of a company's strategy. Adoption of digitalization in the organization. Measuring and evaluating the effects of digitalization.

EN: Will be provided first time in the academic year 2023-24. The course is related to UN's Sustainable Development Goals (SDG):

8 decent work and economic growth 9 industry, innovation and infrastucture 17 partnership for the goals

Study materials

EN: Materials will be announced later in Moodle.

Completion method and assessment items Recurrence

Credits

Method 1	Recurrence 1: 1. period-2. period	6 cr
	necarrence in in period 2. period	0 0.
Course Completion		6 cr

A350A0601 Contemporary Issues in Strategic Management and Innovation A350A0601 Contemporary Issues in Strategic Management and Innovation

Curriculum period 2024-2025

Validity period since 1 Aug 2024

Credits 6 cr Languages English

Grading scale General scale, 0-5

University Lappeenranta-Lahti University of Technology LUT

Responsible organisation LBS, Business Administration 100%
Responsible persons Paavo Ritala, Responsible teacher
Henri Hussinki, Responsible teacher

Suvi Tiainen, Administrative person

Study level Intermediate studies

Study field Fields of education (Ministry of Education and Culture), Business,

administration and law

Tweet text

EN: Location: Lappeenranta

Learning outcomes

EN: This course focuses on the topical phenomena and concepts related to strategic management and innovation, which will be investigated from different viewpoints of academic research and business practice. Students will learn to assess, debate and synthesize the recent literature and examine the links of contemporary topics to previous research.

The learning outcomes of the course are the following:

- 1. To assess and synthesize contemporary phenomena in strategic management and innovation
- 2. To constructively discuss and debate contemporary strategy and innovation phenomena

Content

EN: The content of the course is based on current topics of strategic management and innovation, including phenomena linked to broad mega trends such as digitalization and sustainable development. The course syllabus with detailed contents will be distributed in the beginning of the course. The course will utilize online methods and tools (blog posts and discussion threads) for student-driven content creation, discussion and reflection.

Study materials

EN: Independent content creation based on academic and practical sources and familiarization of other students' input.

Completion method and assessment items Recurrence		Credits
Method 1	Recurrence 1: 3. period	6 cr
Course Completion		6 cr