

University of Lapland

YTK - Arctic Studies Programme – 2023 - 2024 (25 ECTS compulsory courses and three optional courses)

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Registration: Regarding registration issue
please contact: Internationalisation Services
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Programme Overview

Arctic Studies Programme (ASP) introduces the complexity of the Arctic as a ‘lived-in’ and experienced space and place. It offers a unique opportunity to deepen your knowledge of the Arctic while studying at the university located at the Arctic Circle and being taught by experts in Arctic studies.

The students will learn about specific natural features of the region, livelihoods, governance, international laws and regulations as applied in the Arctic context and ways the Arctic is changing. The participants will gain insight into the various cultural codes relevant to people who live here and their economic activities, into changes in the Arctic ecosystems, resource governance, and human rights and security.

Teachers of the ASP are researchers of the Arctic Centre and are experts in different fields of research. The Arctic scholars provide an advanced understanding of the Arctic region, sharing knowledge from their relevant professional fields and the latest findings from the research projects. While focusing on the specific regional characteristics, the course also gives an opportunity to view the Arctic in the context of local processes, national perspectives and global values.

After completion of the programme, the student will be able to:

- describe the environmental, political, cultural, social, juridical and economic features of the Arctic
- apply and use the knowledge of the Arctic provided by natural, social and political sciences, economics and law

- locate the Arctic and Arctic issues in the context of broader discussions on environmental, socio-economic, political, cultural and legal questions
- demonstrate improved knowledge in different approaches and multidisciplinary character in Arctic research
- judge the viability of information given, e.g. in media, and write an academic paper.

Please note: The Arctic Studies Programme does not award a degree. Successful module completion counts as a minor toward a degree.

Students and Studies

The ASP is an offer for Finnish and foreign degree students, exchange students, and special groups. The courses are taught in English. ASP studies in the autumn semester are basic level studies and take place during the autumn semester (periods 1–2), from the beginning of September to mid-December.

The programme consists of five main courses (ASPB 1101–1105) and three optional courses (ASPB 1107 - 1109). The students can participate in individual courses or the whole ASPB module. ASP offers three optional (5, 3, 5 ECTS) courses in the semester of 2023. Students are required to register for all individual courses in advance by using the university online registration system. Please note that the ASP is offered only once a year in the autumn-winter semester, and the themes might be changed next year.

Code	Name	Credits
YTKASP2021	YTK - Arctic Studies Programme - 2023-2024	25
ASPB1100-1001 Arctic Studies Programme		25
<i>ASPB1101</i>	<i>Introduction to the Arctic</i>	5
<i>ASPB1102</i>	<i>Arctic Ecosystems and Adaptation of Species to Arctic Environment</i>	5
<i>ASPB1103</i>	<i>Arctic Governance and Law</i>	5
<i>ASPB1104</i>	<i>People and Culture of the Arctic</i>	5
<i>ASPB1105</i>	<i>Human Rights and Security in the Arctic</i>	5
ASPB1106	Arctic Studies Programme, Optional Courses	1-5
ASPB1107	Indigenous (Sámi) spirituality and religious beliefs	5



ASPB1108	Arctic Waste Utilisation: Concepts and Practices of Circularity	4
ASPB1109	Human-nature relations in Arctic urban development	5

ASPB1100-1001 Arctic Studies Programme: 25 op

ASPB1101 Introduction to the Arctic: 5 op

Aim

The introductory course aims to establish a common ground for further Arctic studies. After completion of the course, the student will be able to:

- discuss the main features of Arctic nature and society
- distinguish different approaches and multidisciplinary character of the Arctic research
- discuss some geophysical phenomena, which occur only in northern areas or do have particular consequences there
- judge the viability of information given, e.g. in media regarding the Arctic areas.
- discuss living in a cold environment and the uses of cold

Content

The course contains the following themes:

- Introduction to the circumpolar Arctic and its complexities in the fields of natural sciences, law and politics, people, cultures and identities, as well as society and economy.
- Definition of the Arctic from different ecological viewpoints
- Definition of the Arctic/North as space and place from a representational viewpoint – concepts, images, discourses.
- Living in a cold environment and uses of cold
- Introduction to the nature and natural resources of Arctic and Boreal Regions
- Threats to the Arctic environment
- Land use issues in Sámiland
- Introduction to the Arctic governance
- Introduction to the Arctic and Antarctic information sources
- One day excursion in Rovaniemi area and visit of the exhibition at the Arktikum-house.

Methods

Active participation in the lectures, reading requested course material, successful completion of a written exam.

Lectures, exercises and exam (18 h), excursion (8 h), independent work (110h).

Requirements

Active participation in the lectures, reading requested course material, successful completion of a written exam.

Literature (compulsory)

CAFF (2013): Arctic biodiversity assessment: Status and trends in arctic biodiversity 2013
<https://www.caff.is/assessment-series/233-arctic-biodiversity-assessment-2013>

Read the following chapters: Introduction; indigenous peoples and biodiversity; and chapters: 1, 2, 3, 4, 6, 18 and 19.

Larsen, S.N. & Fondahl, G. (Eds.) (2014). Arctic Human Development Report: Regional Processes and Global Linkages. Nordic Council of Ministers, TemaNOord 2014: 567.
[FULLTEXT03.pdf \(diva-portal.org\)](#). Chapters to read: Summary of major findings; 1.Introduction; 2. Arctic Populations and Migration; 3.Cultures and Identities; 7. Resource Governance; 10. Globalization; 11. Community Viability and Adaptability; and 12. Major Findings and Emerging Trends in Arctic Human Development

Stammler-Gossmann, Anna (2009). Who Is Indigenous? Construction of 'Indigenesness' in Russian Legislation. *International Community Law Review* 11 (1): 69–102.

Literature (suggested)

Armstrong, T., Rogers, G., Rowley, G. 1978. *The circumpolar North. A political and economic geography of the Arctic and sub-Arctic*. London: Methuen&Co.

Crawford, R. M.M. 2012: *Tundra-Taiga Biology: Human, plant, and animal survival in the Arctic*. Oxford University Press.

Hamelin, L. E. 1979. *Canadian Nordicity: It's your North, too*. Montreal: Harvest House.

Larsen, J. N. et al. (Eds.). 2015. *Arctic Social Indicators ASI II: Implementation*. Nordic Council of Ministers, TemaNord 2014: 568.
[FULLTEXT02.pdf \(diva-portal.org\)](#)

Stammler-Gossmann 2022. "To be or not to be"? Tourism development plans and the voice of the river. *Nordicum-Mediterraneum. Icelandic E-Journal of Nordicum and Mediterranean Studies* 17 (3)

<https://nome.unak.is/wordpress/volume-17-no-3-2022/long-abstract-editor-review/to-be-or-not-to-be-tourism-development-plans-and-the-voice-of-the-river/>

Thomas, D.N. et al. 2008. *The Biology of Polar regions*. Oxford Scholarship online.

Evaluation

Grades 1–5/fail

Timing

Autumn / 1st period

Principle tutor

Senior Researcher, Nuccio Mazzullo, PD

Lecturers

University Researcher Anna Stammler-Gossmann, PhD; University Researcher Jukka Jokimäki, PhD; Researcher Marja-Liisa Kaisanlahti-Jokimäki; Senior Researcher, PhD Nuccio Mazzullo; Research Prof. Stefan Kirchner; Research Prof. Florian Stammler; Senior Researcher Mari Kuoppamaa, PhD; Vuontisjärvi Kati, library specialist

Requirements

This course is compulsory for students of the Arctic Studies Programme and optional for other students (according to the availability of places).

ASPB1102 Arctic Ecosystems and Adaptation of Species to Arctic Environment: 5 op

Aim

The course aims to give an overview of the main characteristics of the Arctic ecosystems and their global relevance. After completion of the course, the student will be able to:

- identify the main features and functions of circumpolar tundra, boreal forest and marine ecosystems
- recognize interactions and relationships between the Arctic ecosystems and other parts of the globe
- examine the evolution and adaptation mechanisms of plants and animals in the Arctic environment
- describe changing properties of snow in the Arctic due to changing climate

Content

The course contains the following themes:

- The evolution and distribution of tundra and boreal forest ecosystems, emphasizing

vegetation, plant-animal interactions and natural and anthropogenic disturbance patterns and processes.

- Processes and global interactions that affect marine productivity and biodiversity, interactions between marine and terrestrial ecosystems and threats to Arctic marine life.
- Morphological, physiological and behavioural adaptations of plants and/or animals to the northern environment with basic information on evolution, natural selection and challenges of climate change.
- Characteristics and evolution of seasonal snow cover

Prerequisites

Course ASPB1101 Introduction to the Arctic (5 ECTS) has to be passed before attending this course.

Methods

Lectures (30 h), independent work (100 h).

Requirements

Active participation in the lectures, successful completion of a written essay or an exam.

Literature (suggested)

ACIA 2005. *Arctic Climate Impact Assessment. Scientific report*. <http://www.acia.uaf.edu/pages/scientific.html>. Chapters 7 & 14; *Arctic Marine Biodiversity Monitoring Plan*, pp. 108–125. Available at www.caff.is Barboza, P. S., Parker, K. L. & Hume, I.D. 2010. *Integrative Wildlife Nutrition*. Springer Verlag, 342 pp.; Bardgett, R. 2005. *The Biology of Soil. A community and ecosystem approach*. Oxford: University Press, Chapter 5. Above-ground trophic interactions and soil biological communities: 119–139; Bigras F. J., Colombo S. J. 2001. *Conifer Cold Hardiness*. Dordrecht Boston London: Kluwer Academic Publishers. 596 pp.; Blix, A. S. 2005. *Arctic Animals and Their Adaptations to Life on the Edge*. Tapir Academic Press; Blix, A. S. 2016. *Adaptations to polar life in mammals and birds*. *J. Exp. Biol.* 219:1093–1105. doi: 10.1242/jeb.120477; CAFF (*Conservation of Arctic Flora and Fauna*) 2001: Arctic Flora and Fauna: Status and Conservation. Edita. 272 pp.; CAFF *Assessment Series* No. 10. *Conservation of Arctic Flora and Fauna*, Iceland. Available at: <http://www.caff.is/sea-ice-associated-biodiversity/sea-ice-publications> Cockburn, A. 1991. *An Introduction to Evolutionary Ecology*. Oxford: Blackwell; Crawford R. M. M. 1989. *Studies in Plant Survival*. Oxford: Blackwell Scientific Publications. 296p.; Crawford R. M. M. 2008. *Plants at the Margin. Ecological Limits and Climate Change*. Cambridge: University Press.; Crawford, R. M. M. 2014. *Tundra-taiga*

biology. Human, Plant and Animal Survival in the Arctic. Oxford: University Press, 270 pp.

Davenport, J. 1992. *Animal life at low temperature*. London: Chapman & Hall.

Eamer, J., et al. 2013. *Life linked to Ice. A guide to sea-ice associated biodiversity in this time of rapid change; Glossary of terms for thermal physiology*, 2001. Third edition. The Japanese Journal of Physiology. 51: 2. Available at <http://www.or.org/pdf/ThermalPhysiologyGlossary.pdf>;

IPCC 2014. *Polar Regions. Observed changes, Terrestrial ecosystems*, Chapter 28. Arctic 28.2.3.1 (pp. 1577–1581), Projected Impacts, Terrestrial ecosystems, Arctic 28.3.3.1 (pp. 1589–1590); Marchand P.J. 1991. *Life in the Cold. An Introduction to Winter Ecology*. Hanover and London: University Press of New England. 239 pp.;

Pond, C. 1998. *Fats of life*. Cambridge: University Press. 337 pp.;

Sakai A., Larcher W. 1987. *Frost Survival of Plants. Responses and Adaptation to freezing stress*. Ecological Studies 62. Springer-Verlag. 321 pp.;

Skelton, P. (ed.) 1992. *Evolution: a biological and palaeontological approach* (Book 1). The Open University.

Evaluation

Grades 1–5/fail

Timing

Autumn / 1st period

Principle tutor

University Researcher Sari Stark, PhD, Arctic Centre

Lecturers

University Researcher Osmo Rätti, PhD; University Researcher Päivi Soppela, PhD; University Researcher Minna Turunen, PhD; University Researcher Sari Stark, PhD; Senior Researcher Mari Kuoppamaa, PhD; Senior Researcher Leena Leppänen, PhD; Sirpa Rasmus, University Researcher, PhD.

Requirements

This course is compulsory for the students of the Arctic Studies Programme and optional for other students.

ASPB1103 Arctic Governance and Law. 5 op

Aim:

The aim of the course is to introduce Arctic governance and international environmental law with specific reference to the Arctic, in its historical perspective, development and law-making process.

After completion of the course, students are able to:

- apply the knowledge learnt in the course to other regions and circumstances, and to past, current and future events and developments.
- address issues related to the international climate law, creation of a legal regime to address climate change and its impact.
- discuss about impacts of climate change on the Arctic and the application of international climate change law within the Arctic.
- identify the multiple layers of Arctic governance and politics; capabilities and limitations of different institutions and forums involved into Arctic cooperation.

Content

- Significance of Environmental Law in the Arctic
- International regulations and cases applicable to the Arctic
- Evolution of United Nations Climate Regime (including UN Framework Convention on Climate Change, Kyoto Protocol and Paris Agreement) and the obligations of Arctic states towards them.
- The history of the international law of the sea and the contemporary legal regime governing maritime areas in the Arctic (the 1982 United Nations Convention on the Law of the Sea (LOSC); maritime boundary delimitation, navigational rights and freedoms, protection and preservation of marine environment and IMO Conventions.
- The multilevel governance of the extraction of Arctic living and non-living resources
- The institutions of Arctic cooperation and their modes of functioning.
- Arctic Council cooperation – a new course in uncertain time

Suggested literature

Bodansky, D., Brunnee, J. & Rajamani, L (2017). *International Climate Change Law*. Oxford: OUP. Chapters 2, 5 and 7.

Durfee, M. and R. L. Johnstone (2019). *Arctic Governance in a Changing World*. Rowman and Littlefield. Chapters 3 (Arctic Players) and 5 (Arctic Economies and Resources).

Gavrilov, Viatcheslav V. (2015). Legal Status of the Northern Sea Route and Legislation of the Russian Federation: A Note. *Ocean Development and International Law* 46 (3): 256–263.

Loukacheva, N. Ed. 2010. *Polar Law Textbook*. TemaNord. Available at: <http://norden.diva-portal.org/smash/get/diva2:701555/FULLTEXT01.pdf>

Loukacheva, N. Ed. 2013. *Polar Law Textbook II*. TemaNord. Available at: <http://norden.diva-portal.org/smash/get/diva2:701016/FULLTEXT01.pdf>

Maguire, R. 2013. Foundations of International Climate Law. In Hollo, E J, Mehling, M, & Kulovesi, K. (Eds.) *Climate Change and the Law*. Springer.

Mayer B. 2018. *The International Law on Climate Change*, Cambridge University Press. Chapters 3, 4, 5 and 7.

Poelzer G., and G. N. Wilson. 2014. Governance in the Arctic: Political Systems and Geopolitics. In: Larsen, J.N; Fondahl, G. (Eds.), *Arctic Human Development Report: Regional Process and Global Linkages*. TemaNord 2014:567, Nordic Council of Ministers, pp. 183-220 URL: <http://norden.diva-portal.org/smash/get/diva2:788965/fulltext03.pdf> ;

Roach, J. A. 2009. International Law and the Arctic: A Guide to Understanding the Issues. *Southwestern Journal of International Law* 15 (2): 301-326;

Sands, P. et al. 2018. *Principles of International Environmental Law*. Cambridge University Press.

Steinberg, P. E. 2014 Steering between Scylla and Charybdis: The Northwest Passage as Territorial Sea. *Ocean Development and International Law* 45 (1): 84-106.

Tanaka, Y. 2019. *International Law of the Sea*. Cambridge University Press

Methods

Lectures and possible group work (24 hours, contact teaching), independent work

Requirements

Active participation in the lectures, successful completion of a seminar presentation and written presentation summary (2 pages)

Evaluation

Grades 1–5/fail

Timing

Autumn / 1st period

Principal tutor

Punam Noor, PhD candidate, Arctic Centre

Lecturers

PhD candidate Noor Punam; **Senior Researcher Marlene Payva Almonte**, PhD candidate Marco Volpe

ASPB1104 – People and Cultures of the Arctic 5 op***Aim***

This course aims to give students comprehensive knowledge and understanding of the lives and cultures of the people living in the Arctic regions from a multidisciplinary perspective. After completion of the course, the students will be able to:

- distinguish the varieties of cultural approaches existing among the Arctic inhabitants
- compare their different ways of interacting with their environment and the ways of expressing it
- analyse the dynamics of how local communities as a whole and their constitutive social and ethnic groups interact among themselves and engage in politics of recognition at the national/international levels
- name the basic research methods and specifics of conducting research in small Northern communities
- describe existing theoretical approaches in understanding the concepts of ‘tradition’, ‘indigeneity’, ‘traditional ecological knowledge’ and ‘adaptation’
- discuss the different traditions of northern cultural history.

Content

The focus of the course is to outline the history, culture and social life of people in the Arctic by bringing in approaches developed in social anthropology, sociology, art, history and education. The study module also deals with how people of the Arctic are adapting to contemporary issues such as globalisation, industrial development and environmental changes. The course covers a broad range of aspects of northern societies and cultures in the Arctic region, including:

- Discourses of construction of indigeneity.
- Discursive understanding of the concept of “tradition” and issues of traditional ecological knowledge.
- Relations between development projects and community’s social viability (forestry, oil and gas, tourism) and resource governing.
- Local adaptations to environmental climate changes and urbanization.

- Various ethnographic accounts of local communities' cultural and ethnic identities.

Methods

Lectures (22 h), seminars (3 h), documentaries or visual material (included in the lectures), independent work (100 h).

Requirements

Attendance and active participation in the lectures and in the seminar. Reading the course literature and writing four (4) short reviews (500 words each) of the articles from the reading list or as agreed with the lecturers. This course is compulsory for the students of the Arctic Studies Programme and optional for other students

Literature (suggested)

Anderson, David G. (2004). Nationality and 'Aboriginal Rights' in Post-Soviet Siberia. In Takashi Irimoto and Takado Yamada (eds), *Circumpolar Ethnicity and Identity*. *Senri Ethnological Studies* 66: 247–267.

Donahoe, Brian, Joachim Otto Habeck, Agnieszka Halemba, and István Sántha. 2008. Size and Place in the Construction of Indigeneity in the Russian Federation. *Current Anthropology* 49 (6): 993–1020.

Dudeck, Stephan (2012). From the reindeer path to the highway and back: understanding the movements of Khanty reindeer herders in Western Siberia. *Journal of ethnology and folkloristics* 6 (1): 89-105;

Helander-Renvall, Elina (2010). Globalization and Traditional Livelihoods. In L. Heininen & C. Southcott (eds). *Globalization and the Circumpolar North*. Fairbanks: University of Alaska Press: 179–219.

Joy, Francis (2014). What influence do the old Sámi noaidi drums from Lapland play in the construction of new Shaman drums by Sámi persons today? In Kõiva, Mare & Kuperjanov, Andres (eds.). *The Estonian Journal of Folklore* 56: 117–158. <http://www.folklore.ee/folklore/vol56/joy.pdf>

Joy, Francis (2011). The History of Lapland and the case of the Sami Noaidi drum figures reversed. In: Kõiva, Mare & Kuperjanov, Andres (eds.). *The Estonian Journal of Folklore* 47:113–144. <http://www.folklore.ee/folklore/vol47>

Mazzullo Nuccio (2005). Environmental Conservation and Local Interests in Finnish Lapland. In: *Conservation and Society* 3(2): 388-406.

Mazzullo, Nuccio (2010). More than meat on the hoof? Social significance of reindeer among Finnish Saami in a rationalized pastoralist economy. In: Florian Stammler and Hiroki Takakura (eds). *Good to Eat, Good to Live with: Nomads and Animals in Northern Eurasia and Africa*, Northeast Asian Study Series 11, Center for Northeast Asia Studies (CNEAS), Tohoku University, Sendai, Japan: 101–119.

Mazzullo, Nuccio and Ingold, Tim (2008). Being Along: Place, Time and Movement among Sámi People. In: Jørgen Ole Bærenholdt and Brynhild Granås (eds). *Mobility and Place: Enacting European Peripheries*, Aldershot: Ashgate Publishing Ltd

Stammler-Gossmann, Anna (2009). Who Is Indigenous? Construction of 'Indigenoussness' in Russian Legislation. *International Community Law Review* 11 (1): 69–102.

Stammler, Florian (2010). Animal diversity and its social significance among Arctic pastoralists. In: Florian Stammler and Hiroki Takakura (eds). *Good to Eat, Good to Live with: Nomads and Animals in Northern Eurasia and Africa*, Northeast Asian Study Series 11, Center for Northeast Asia Studies (CNEAS), Tohoku University, Sendai, Japan.

Stammler, Florian & Gertrude Eilmsteiner Saxinger (2009). Introduction: The Northern Industrial City as a Place of Life and of Research. In: Stammler & Eilmsteiner-Saxinger (eds). *Biography, Shift-labour and Socialisation in a Northern Industrial City*. Tyumen State University; Arctic Centre: 9–16, online volume.

Stammler, Florian (2005). *Reindeer nomads meet the market: culture, property and globalisation at the end of the land*. Muenster: Litverlag.

Evaluation

Grades 1–5/fail

Timing

Autumn / 2nd period

Principle tutor

Senior Researcher Nuccio Mazzullo, PhD, Arctic Centre

Lecturers

Senior Researcher Nuccio Mazzullo, PhD; Research Professor Florian Stammer, PhD; Senior Researcher, Stephan Dudeck, PhD (remote lecturing); Researcher Francis Joy, PhD; Researcher Panu Itkonen, PhD; Researcher Ayonghe Nebasifu, PhD.

ASPB1105 Human Rights and Security in the Arctic 5 op

Aim

The course aims to provide Arctic-related knowledge of international human rights and different dimensions of human security. After completion of the course, students will be able:

- to describe the key characteristics of human rights obligations, international law and governance in the Arctic context
- to identify global and local threats to human security
- to understand the relationship between food security and climate change
- to analyze the expression of food sovereignty in different spatial contexts and what food sovereignty entails in the Arctic context
- to describe the basics of international cultural heritage law and analyze the concept in the context of rights to the heritage of Arctic communities in Russia

Content

The content of the course will comprise:

- Introduction to Human Rights and Human Security in the Arctic
- Food Resilience and Sovereignty in the Arctic
- Introduction to Cultural Heritage Law and Heritage rights and Russian Arctic communities
- Human security: questions concerning economic growth and industrial development

Prerequisites

No prerequisites; participating in the course *Arctic Ecosystems and Adaptation of Species to Arctic Environment* will be advantageous.

Methods

Lectures (24 hours), group work, independent work.

Requirements

Active participation in the lectures and completing a written assignment. Attendance: 80 %. This course is compulsory for the students of the Arctic Studies Programme and optional for others.

Literature (suggested)

Introduction to Human Rights and Security in the Arctic:

Durfee & Johnstone (2019). *Arctic governance in a changing world*. Rowman & Littlefield.

Food resilience and Sovereignty in the Arctic:

Hossain, K., Raheem, D. and Cormier, S. 2018. *Food security Governance in the Arctic-Barents region*. Springer Nature.

<http://www.springer.com/us/book/9783319757551#aboutBook>

Cormier, S and Raheem, D. 2018. Food security in the Barents region. Book chapter published by Routledge. <https://www.routledge.com/Society-Environment-and-Human-Security-in-the-Arctic-Barents-Region/Hossain-Cambou/p/book/9780815399841> (e-book).

The 2016 State of Food and Agriculture: Climate change, agriculture and food security <http://www.fao.org/3/a-i6030e.pdf>

Hossain, K., Hermann, T. and Raheem, D. 2018. Food (in)Security across the Circumpolar Arctic. Book Chapter 38. In *Handbook on Arctic Security*. Routledge.

Raheem, D. 2018. Food and nutrition as a measure of resilience in the Barents region. *Urban Science* 2, 72. <https://doi.org/10.3390/urbansci2030072> Multidisciplinary Digital Publishing Institute (MDPI), Switzerland (open access).

Nilsson L.M., Evengård B. 2015. Food Security or Food Sovereignty: What Is the Main Issue in the Arctic? In: Evengård B., Nymand Larsen J., Paasche Ø. (eds) *The New Arctic*. Springer, Cham.

Introduction to Cultural Heritage Law and Heritage rights and Russian Arctic communities:

Blake, J. (2015). Cultural Heritage and Human Rights. In: J. Blake “*International Cultural Heritage Law*”. Oxford University Press: 271-311

Waterton, E. and L. Smith (2009). There is no such thing as heritage. In: Waterton, E. and L. Smith (eds) “*Taking Archaeology out of heritage*”. Cambridge Scholars Press.

Human security: questions concerning economic growth and industrial development

M. Salminen, G. Zojer & K. Hossain (eds.) 2020. Digitalisation and Human Security – A

Multi-Disciplinary Approach to Cybersecurity in the European high North. Palgrave Macmillan

Evaluation:

Grades 1-5/fail

Timing:

Autumn / 1st period

Methods

Lectures (24 hours), group work, independent work.

Principle tutor

Senior Researcher Bamidele Raheem, PhD, Arctic Centre

Lecturers

Research Professor Stefan Kirchner, PhD; Senior Researcher Bamidele Raheem, PhD; Senior Researcher Juha Saunavaara, PhD; and PhD Candidate Karolina Sikora.

ASPB 1106 Optional Courses

The optional courses provide an opportunity to extend and deepen the knowledge of different aspects of Arctic studies according to individual interests.

ASPB 1107 Indigenous (Sámi) spirituality and religious beliefs 5 op

Aim

The focus for the course is to provide participants with a broad and comprehensive understanding and series of insights into Sámi religion and spiritual traditions, both past and present. Moreover, the critical function religions and spirituality plays within Sámi society. After completion of the course, the student is able to understand, comprehend and discuss:

- how Sámi religion, sacrifice and drum use is characterized through the relationship with the landscape and natural world;
- in what ways the continuity of practices related to sacrifice is still evident in some areas in Finnish Lapland
- the roles and functions art plays as a mediator and bridge in Sámi culture, and between the human world and nature in general

- how the drum and its painted landscapes are a representation of Sámi identity
- why traditions matter and the importance of cultural heritage in Sámi society and impacts of cultural appropriation in relation to tourism

Content

The content of the course will cover the following subjects:

- The historical background: Important sources discussing drum use, sacrifice and Sámi pre-Christian religion
- The sacred Sámi drum as an instrument of divination, trance and ecstasy from the missionary sources
- Why Sámi drums their use and symbolism were seen as such a threat by the authorities
- Sámi religion and drum use going underground
- The outlawing of sacrificial practices – how and why
- The re-emergence of drums in contemporary Sámi society
- The types of evidence available for the practices of sacrifice and Sámi religion in contemporary culture
- Sámi cultural heritage and tourism in Finland

Prerequisites

There are no previous studies required. However, participating in the *Introduction to the Arctic and People* and *Cultures and Identities of the Arctic* courses will be advantageous.

Requirements

Active participation in the lectures, fieldwork, reading requested course materials, group work regarding seminar class presentations and successful completion of a written essay or lecture diary (800 words).

Methods

Lectures (18 h) including documentaries, group work: field-work (6 h), fieldwork diary, individual work, group presentations

Course lecturer

Francis Joy, Researcher, PhD, Arctic Centre

Evaluation:

Grades 1-5/fail

Literature recommended

Lehtola, Veli-Pekka. (2003). From Heritage to Modern Art – Spiritual Heritage – the Starting Point of Today’s Art. In: Pennanen, Jukka & Näkkäljärvi, Klemetti (eds.); *SIIDDASTALLAN: From Lapp Communities to Modern Sámi Life*. Gummerus Kirjapaino Oy, Jyväskylä, 162-164.

Porsanger, Jelena. (2003). A Close Relationship to Nature – the Basis of Religion. In: Pennanen, Jukka & Näkkäljärvi, Klemetti (eds.); *SIIDDASTALLAN: From Lapp Communities to Modern Sámi Life*. Gummerus Kirjapaino Oy, Jyväskylä: 151-155.

Joy, Francis. (2020). Sámi Cultural Heritage and Tourism in Finland. In: Tennberg, Monica., Lempinen, Hanna. & Pirnes, Susanna. (eds.). *Resources, Social and Cultural Sustainabilities in the Arctic*. Oxon: Routledge. (Routledge Research in Polar Regions): 144-162.

Mathisen, Stein. R. 2010. Indigenous Spirituality in the Touristic Borderzone: Virtual Performances of Sámi Shamanism in Sápmi Park. *Temenos Vol. 46 No. 1* (2010), 53–72© The Finnish Society for the Study of Religion: <https://journal.fi/temenos/article/download/6941/6753>

Mattila, Tuomas. 2018. Needs of the Sámi people for intellectual property protection from the viewpoint of copyright and trademarks – especially with regard to duodji-handicrafts and the Sámi dresses *Publications of the Ministry of Education and Culture, Finland*: https://julkaisut.valtioneuvosto.fi/bitstream/handle/10024/161206/OKM_40_18_Needs_of_the_Sami_people-WEB111218.pdf

Joy, Francis. (2018). *Sámi Shamanism, Cosmology and Art as Systems of Embedded Knowledge*. Doctoral Dissertation. Acta Universitatis Lapponiensis 367. The University of Lapland. URL: <http://lauda.ulapland.fi/handle/10024/63178>

Joy, Francis. (2017). Noaidi Drums from Sápmi, Rock Paintings in Finland and Sámi Cultural Heritage: an Investigation. First View Article / Polar Record: A Journal of Arctic and Antarctic Research: 1-20. <http://dx.doi.org/10.1017/S0032247416000917>

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Äikäs, Tiina; Salmi, Anna-Kaisa (2013). The Sieidi is a Better Altar / the Noaidi Drum's a Purer Church Bell: Long Term Changes and Syncretism at Sámi Offering Sites. *World Archaeology* 45 (1): 64-82.

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Pulkkinen, Risto. Kulonen, Ulla-Maija, Seurujärvi-Kari, Irja (eds.). 2005. *The Saami. A Cultural Encyclopedia*. Helsinki: Finnish Literature Society-SKS. Vammalan kirjapaino Oy.

Whitaker, Ian 1957. The Holy Places of the Lapps (English summary). In Ernst Manker, *Lapparnas Heliga Ställen: Kultplaster och Offerkult i Belysning av Nordiska Museets och Landsantikvariernas fältundersökningar. Acta Lapponica; 13*. Stockholm: Geber.

ASPB 1108 Arctic Waste Utilisation: Concepts and Practices of Circularity (4 ECTS)

Aims:

The course provides an understanding of the main concepts applied in waste utilisation processes, the role of circularity in managing natural resources in extreme polar regions and its global implications. After completion of the course, the students will be able:

- to discuss the relationship that exists between waste and society
- to understand how does society shape waste and how does waste, in turn, shape society?
- to give an overview of the policy plans within the EU
- to understand how political strategies are implemented regionally and locally (Lapland/Rovaniemi)
- to identify different discourses on societal needs to move from a linear economy to a circular economy.

Content:

There are three sections of the course delivered by three lecturers. The content of the course

will comprise:

- Circular bioeconomy in extreme polar conditions: Impacts on the food system (6h)
- Circular Economy – concept, theory and local implementation & Waste in Society (4h)
- Circular Economy and Green Financial Instruments & Corporate Social Responsibility in the European Arctic in the context of Circular Economy (4h)

Prerequisites:

No prerequisites; participating in the course ‘*Arctic Ecosystems and Adaptation of Species to Arctic Environment*’ will be advantageous.

Methods:

Lectures (14 hours), group work, independent work, field work, diary.

Requirements:

Active participation in the lectures and completing a written assignment.

Literature (suggested):

Circular bioeconomy in extreme polar conditions: Impacts on the food system:

The 2022 State of Food and Agriculture: Climate change, agriculture and food security.

<https://www.fao.org/publications/sofa/2022/en/>

Raheem D, Soltermann AT, Tamiozzo LV, Cogo A, Favén L, Punam NJ, Sarmiento CR, Rainosalto E, Picco F, Morla F, Nilson A, Stammler-Gossmann A. Partnership for International Development: Finland–Argentina Conference on Circular Economy and Bioeconomy with Emphasis on Food Sovereignty and Sustainability. *International Journal of Environmental Research and Public Health*. 2022; 19(3):1773.

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The Finnish Bioeconomy Strategy. 2014. Available online: https://biotalous.fi/wp-content/uploads/2014/08/The_Finnish_Bioeconomy_Strategy_110620141.pdf

Raheem, D. Digitalisation in a local food system: Emphasis on Finnish Lapland. *Open Agric.* 2020, 5, 496–508.

Circular Economy – concept, theory and local implementation & Waste in Society:

- Valkonen, J., & Loikkanen, T. (2020). Waste citizenship in circular economy: case study of waste governance in Finnish Lapland. In S. Serafimova (Ed.), Dimensions of intra- and intergenerational justice in the debates about sustainability (pp. 150-165). Avangard prima.
- Huilaja, H., Loikkanen, T., Kinnunen, V., & Valkonen, J. (2022). The key role of waste citizenship in achieving the objectives of the circular economy. In J. Brizga, & S. El Khadraoui (Eds.), The Circular Economy and Green Jobs in the EU and Beyond (pp. 25-44). London Publishing Partnership. <https://www.feps-europe.eu/attachments/publications/220224%20circular%20economy%20final%20book.pdf>
- Alakorva, S., & Loikkanen, T. (2022). Circularity in the Sámi nature- based livelihoods. What could EU's circular economy policy learn from the Indigenous and local perspectives.. 23-26. Paper presented at The France-Finland conference on the circular economy 2022, Helsinki, Finland. <https://hal.uca.fr/hal-03850866/document>
- Circular Economy and Green Financial Instruments & Corporate Social Responsibility in the European Arctic in the context of Circular Economy:*
- Circular Cities Declaration Report (2022). https://circularcitiesdeclaration.eu/fileadmin/user_upload/CCD-Report-2022.pdf
- Global Reporting Initiative (GRI) G4 guidelines (2023). Sustainability reporting guidelines on economic, environmental and social performance. Global Reporting Initiative, Amsterdam. <https://www.globalreporting.org/how-to-use-the-gri-standards/gri-standards-english-language/>
- Lehmann, C., Cruz-Jesus, F., Oliveira, T. & Damásio, B. (2022). Leveraging the circular economy: Investment and innovation as drivers. In Journal of Cleaner Production 360 (2022).
- Porter, M. E. & Kramer M. R. (2006). Strategy and Society: The Link Between Competitive Advantage and Corporate Social Responsibility. In Harvard Business Review December 2006.
- Principles for Responsible Investment (2020). Investing with SDG Outcomes: A Five-Part Framework. <https://www.unpri.org/sustainable-development-goals/investing-with-sdg->

[outcomes-a-five-part-framework/5895.article](#)

Language of instruction

English; some written materials in Finnish may also be provided.

Evaluation

Grades 1-5/fail

Principal tutor: Dele Raheem, Senior Researcher, PhD, Arctic Centre

Lecturers:

Dele Raheem, Senior Researcher, PhD, Arctic Centre; Teemu Loikkanen, PhD candidate, Faculty of Social Sciences; Adrian Braun, PhD (Arctic Centre)

ASPB 1109 Human-nature relations in Arctic urban development (5 ECTS)

Aim

At the end of the course, the participant:

- knows about main characteristics and problematics of urbanisation in the Arctic
- is able to analyse human-nature relations and conflicts in Arctic urban development
- may benefit from Practice theory-based approaches to analyse arctic urbanism and its different manifestations in everyday life

Content

The course content focuses on the following themes

- What is a city?
- A city and change – A walking tour in the Rovaniemi city centre
- What makes a city "arctic"?
- Urban nature in everyday life—a walking tour in the Arctic garden
- Conflicts in the city
- Urban metabolism

Prerequisites

Open to interested master's level students and doctoral candidates.

Methods

Reading circle (12 h) based on a selection of articles, group work, presentations and discussions. The reading circle meets 6 times, including a writing task before the start of the course and two walking tours in the Rovaniemi city centre. This course is an in situ course.

Requirements

Reading the articles, participating in group work and presenting results of group work, participating in the walking tours, actively participating in the discussion about the reading material, and a learning journal.

Evaluation

Grades 1-5/fail. The evaluation is based on active participation to the group work, presentations and discussion and a learning journal.

Principal tutor

Research professor Monica Tennberg (Arctic Centre)

Additional information

Group size minimum 8 participants, maximum 15