

Opasraportti

Open University - Health and welfare (2018 - 2019)

Tutkintorakenteisiin kuulumattomat opintokokonaisuudet ja -jaksot

ayA551101: Preliminary Studies of Health Sciences (OPEN UNI), 25 op

Compulsory

ay351203P: Introduction to Health Sciences (OPEN UNI), 5 op

ay351204P: Foundations of Philosophy and Research Methods in Health Sciences (OPEN UNI), 5 op

ay351207P: Foundations of Health Care Legislation (OPEN UNI), 5 op

ay351206P: Health Care Systems in Finland and Inter-professional Networking (OPEN UNI), 5 op

ay351205P: Foundations of Health Care Education (OPEN UNI), 5 op

ayA551102: Subject Studies in Health Sciences (OPEN UNI), 35 op

Compulsory

ay352114A: Bachelor Thesis, 6 op

ay352253A: Research Methods in Health Science, 5 op

ay353234A: Health Management Science and Training in Expertise Development, 10 op

ay353235A: Nursing Science and Training in Expertise Development, 10 op

ay040024Y: Knowledge and research II, Literature retrieval (OPEN UNI), 4 op

Opintojaksosten kuvaukset

Tutkintorakenteisiin kuulumattomien opintokokonaisuuksien ja -jaksosten kuvaukset

ayA551101: Preliminary Studies of Health Sciences (OPEN UNI), 25 op

Voimassaolo: 01.08.2014 -

Opiskelumuoto: Basic Studies

Laji: Study module

Vastuuyksikkö: University of Oulu, Open University

Arvostelu: 1 - 5, pass, fail

Opetus suunnattu: University of Oulu, Open University

Opintokohteen kielet: Finnish

Leikkaavuudet:

A551101 Preliminary Studies of Health Sciences 25.0 op

Ei opintojaksokuvauksia.

*Compulsory***ay351203P: Introduction to Health Sciences (OPEN UNI), 5 op****Voimassaolo:** 01.08.2015 -**Opiskelumuoto:** Basic Studies**Laji:** Course**Vastuuyksikkö:** University of Oulu, Open University**Arvostelu:** 1 - 5, pass, fail**Opetus suunnattu:** University of Oulu, Open University**Opintokohteen kielet:** Finnish**Leikkaavuudet:**

351203P Introduction to Health Sciences 5.0 op

ECTS Credits:

5 ECTS cr

Language of instruction:

Finnish

Timing:

Autumn term

Learning outcomes:

The student is able to use the online learning environment and study independently. The student is able to define concept of science and field of sciences. The student is able to define and explain the position of health sciences in the field of sciences. The student is capable of identifying current national and international issues of health sciences from perspective of health management science, nursing science and teacher education in health science.

Contents:

E-learning environment Optima. Field of sciences and the position of health sciences in it. Current issues of health sciences.

Mode of delivery:

Tutored studying in the e-learning environment Optima

Learning activities and teaching methods:

Independent studying, learning to manage the e-learning environment Optima 8 h, reading literature, and current national and international scientific articles 62 h, evaluation of information and preparation of written assignments 60 h, and peer evaluation of a written assignment 5 h.

Target group:

Undergraduate students in health science

Prerequisites and co-requisites:

None

Recommended optional programme components:

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Recommended or required reading:

Literature and other material provided for in E-learning environment Optima, current scientific articles and literature relevant to the topic.

Assessment methods and criteria:

Independent studying, reading of literature, and current national and international scientific articles, evaluation of information and completion of written assignments. Continuous assessment including self-evaluation and teacher's evaluation is applied. Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

Pass / fail

Person responsible:

Doctoral candidate (health management science)

Other information:

This course is part of the Basic Studies in Health Sciences, which can be credited based on prior degree in health care completed at the University of Applied Sciences or applicable study modules in health sciences completed at the universities. Students who don't have prior degree in health care from university of applied sciences or applicable study modules in health sciences completed at the universities will complete Basic Studies in accordance with individually prepared electronic Personal Study Plan (e-PSP).

ay351204P: Foundations of Philosophy and Research Methods in Health Sciences (OPEN UNI), 5 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: University of Oulu, Open University

Arvostelu: 1 - 5, pass, fail

Opetus suunnattu: University of Oulu, Open University

Opintokohteen kielet: Finnish

Leikkaavuudet:

351204P Foundations of Philosophy and Research Methods in Health Sciences 5.0 op

ECTS Credits:

5 ECTS cr

Language of instruction:

Finnish

Timing:

Autumn term

Learning outcomes:

The student is able to

- define the philosophy, ethics and values of health care services.
- identify and define the norms and ethical principles, which are related to status of the client and are guiding the operations in health care
- recognize the most central ethical problems in health care, compare the ethical norms and regulations revealed in health care and patient care and related to different professional and work cultures.
- define Evidence Based Practice
- identify different stages of a research process
- define special characteristics of qualitative and quantitative research.
- recognize the main ethical principles of research in health sciences
- choose references relevant to one's research
- apply basics of scientific writing in one's own work.

Contents:

Ethical principles and professional ethics in health care, discussion of ethical questions from different perspectives and the effect of culture in health care. Evidence-based practice. Special characteristics of qualitative and quantitative research. Stages of a research process. Basics of scientific writing and referencing.

Mode of delivery:

Supervised studying in e-learning environment Optima

Learning activities and teaching methods:

Independent studying and reading literature 80 h, evaluating the received information and writing of the assignment 40 h. Preparation for and completion of an on-line exam 15 h.

Target group:

Undergraduate students in health science

Prerequisites and co-requisites:

None required

Recommended optional programme components:

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Recommended or required reading:

Materials and reports from webpages of the National Advisory Board on Social Welfare and Health Care "ETENE", relevant national and international scientific literature.

Assessment methods and criteria:

Active and independent studying is required. Familiarizing with literature and completion of a written assignment. This course unit will be assessed based on written assignment and on-line exam. A including self-evaluation and teacher's evaluation. This course unit utilizes continuous assessment including self-evaluation and teacher's evaluation. Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

Pass / fail

Person responsible:

University teacher (nursing science)

Working life cooperation:

The student evaluates health care services and identifies ethical principles in order to guide the operation in health care. The student critically recognizes and compares ethical norms and regulations revealed in health care and patient care and related to different professional and work cultures.

Other information:

This course is part of the Basic Studies in Health Sciences, which can be credited based on prior degree in health care completed at the University of Applied Sciences or applicable study modules in health sciences completed at the universities. Students who don't have prior degree in health care from university of applied sciences or applicable study modules in health sciences completed at the universities will complete Basic Studies in accordance with individually prepared electronic Personal Study Plan (e-PSP).

ay351207P: Foundations of Health Care Legislation (OPEN UNI), 5 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: University of Oulu, Open University

Arvostelu: 1 - 5, pass, fail

Opetus suunnattu: University of Oulu, Open University

Opintokohteen kielet: Finnish

Leikkaavuudet:

351207P Foundations of Health Care Legislation 5.0 op

ECTS Credits:

5 ECTS cr

Language of instruction:

Finnish

Timing:

Autumn term

Learning outcomes:

The student is able to define principals of Finnish health care legislation. The student is able to describe and evaluate critically foundations of health care management.

Contents:

Legislation in health care (promotion of health, social and health services, staff of social and health care services, equality). Legislation in health care administration, basics of health care management.

Mode of delivery:

Tutored studying in the e-learning environment "Optima"

Learning activities and teaching methods:

Independent studying, reading of literature 77 h, evaluation of received information and completion of written assignments 58 h.

Target group:

Undergraduate health science students

Prerequisites and co-requisites:

None

Recommended optional programme components:

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Recommended or required reading:

Websites and publications of the Parliament of Finland, the Ministry of Social Affairs and Health, Finland, the Central Statistical Office of Finland and the Ministry of Justice, Finland. Finnish legislation. Other relevant national and international scientific literature.

Assessment methods and criteria:

Active and independent studying. Familiarizing with literature and completion of written assignments. The course is assessed based on the written assignments. Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

Pass / fail

Person responsible:

Doctoral candidate (health management science)

Other information:

This course is part of the Basic Studies in Health Sciences, which can be credited based on prior degree in health care completed at the University of Applied Sciences or applicable study modules in health sciences completed at the universities. Students who don't have prior degree in health care from university of applied sciences or applicable study modules in health sciences completed at the universities will complete Basic Studies in accordance with individually prepared electronic Personal Study Plan (e-PSP).

ay351206P: Health Care Systems in Finland and Inter-professional Networking (OPEN UNI), 5 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: University of Oulu, Open University

Arvostelu: 1 - 5, pass, fail

Opetus suunnattu: University of Oulu, Open University

Opintokohteen kielet: Finnish

Leikkaavuudet:

351206P Health Care Systems in Finland and Inter-professional Networking 5.0 op

ECTS Credits:

5 ECTS cr

Language of instruction:

Finnish

Timing:

Autumn term

Learning outcomes:

The student is able to define principles of the Finnish health care system and public health programs and compare them to programs of the World Health Organization. The student is able to identify main functions and forms of inter-professional networking in health care. The student is able to deepen one's knowledge and apply it in learning assignments. The student is able to plan and structure a new health promotion program and justify it ethically, scientifically and from a client's health perspective.

Contents:

Ministry of Social Affairs and Health, its goals and duties/responsibilities, strategies and programmes. National Institute for Health and Welfare, Finnish health care policy. Finnish social and health care services, organizations

and social security. World Health Organization. Planning of an inter-professional health promotion programme. Inter-professional co-operation and support for the client.

Mode of delivery:

Tutored studying in the e-learning environment "Optima".

Learning activities and teaching methods:

Independent studying in Optima. During the first part of the course: reading of literature 40 h and preparation of written assignments 30 h. During the second part of the course: reading of literature 35 h, writing an essay and designing a health promotion leaflet 30 h.

Target group:

Undergraduate health science students

Prerequisites and co-requisites:

None

Recommended optional programme components:

-

Recommended or required reading:

Materials, publications on the websites of the Ministry of Social Affairs and Health, the National Institute for Health and Welfare, the World Health Organization. Finnish legislation of social and health care, relevant scientific literature.

Assessment methods and criteria:

Independent studying. During the first part: reading of literature and written assignments. During the second part: creating a health promotion leaflet and preparation of a written assignment. In the written assignment, the student justifies approach chosen in the leaflet and describes the progress of the work. Continuous assessment based on self-assessment and teacher's assessment is applied. Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

Pass / fail

Person responsible:

Doctoral candidate (health management science)

Other information:

This course is part of the Basic Studies in Health Sciences, which can be credited based on prior degree in health care completed at the University of Applied Sciences or applicable study modules in health sciences completed at the universities. Students who don't have prior degree in health care from university of applied sciences or applicable study modules in health sciences completed at the universities will complete Basic Studies in accordance with individually prepared electronic Personal Study Plan (e-PSP).

ay351205P: Foundations of Health Care Education (OPEN UNI), 5 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: University of Oulu, Open University

Arvostelu: 1 - 5, pass, fail

Opetus suunnattu: University of Oulu, Open University

Opintokohteen kielet: Finnish

Leikkaavuudet:

351205P Foundations of Health Care Education 5.0 op

ECTS Credits:

5 ECTS cr

Language of instruction:

Finnish

Timing:

Autumn term

Learning outcomes:

The student is able to describe general principles of Finnish social and healthcare education system (ISCED-classification) and main features of the programmes of the Finnish National Board of Education. The student is able to define main goals and strategies, to identify international collaboration and partners of the Finnish Ministry of Education and Culture. The student is able to structure gained knowledge in learning diary and in assessment of one's learning.

Contents:

Social and health care education system. Objectives, goals and different education and training policies of Finnish education/education system. Legislation of Finnish higher education. Internationalization of Finnish higher education institutions.

Mode of delivery:

Tutored studying in the e-learning environment Optima

Learning activities and teaching methods:

Independent studying, reading of literature 60 h, peer evaluation of learning diaries and collaboration with other students 17 h, evaluation of retrieved information and preparation of written assignments 58 h.

Target group:

Undergraduate health science students

Prerequisites and co-requisites:

None

Recommended optional programme components:

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Recommended or required reading:

Materials, publications on website of the Ministry of Education and Culture, legislation related to higher education, publications of Central Statistical Office of Finland/ISCED.

Assessment methods and criteria:

Independent studying, familiarizing with literature and completion of written assignments. Continuous assessment is applied. Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

Pass / fail

Person responsible:

University teacher (nursing science)

Working life cooperation:

Working life cases are integrated into the course assignments

Other information:

This course is part of the Basic Studies in Health Sciences, which can be credited based on prior degree in health care completed at the University of Applied Sciences or applicable study modules in health sciences completed at the universities. Students who don't have prior degree in health care from university of applied sciences or applicable study modules in health sciences completed at the universities will complete Basic Studies in accordance with individually prepared electronic Personal Study Plan (e-PSP).

ayA551102: Subject Studies in Health Sciences (OPEN UNI), 35 op

Voimassaolo: 01.08.2014 -

Opiskelumuoto: Intermediate Studies

Laji: Study module

Vastuuyksikkö: University of Oulu, Open University

Arvostelu: 1 - 5, pass, fail

Opetus suunnattu: University of Oulu, Open University

Opintokohteen kielet: Finnish

Leikkaavuudet:

A551102 Subject Studies in Health Sciences 35.0 op

Ei opintojaksokuvauksia.

Compulsory

ay352114A: Bachelor Thesis, 6 op

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: University of Oulu, Open University

Arvostelu: 1 - 5, pass, fail

Opetus suunnattu: University of Oulu, Open University

Opintokohteen kielet: Finnish

Leikkaavuudet:

352114A Bachelor thesis 6.0 op

ECTS Credits:

6 ECTS cr

Language of instruction:

Finnish

Timing:

Bachelor studies 1st spring term 3rd and 4th period

Learning outcomes:

Upon completion of the course the student

is able to produce a Bachelor thesis based on scientific literature and/or empirical data following principles of scientific writing and research and demonstrating one's skills in scientific communication.

knows how to use the most important reference databases and basic principles of information retrieval in health sciences, and has learned to evaluate retrieved results and sources.

knows how to use reference management program

is able to explain and discuss one's Bachelor thesis and to produce a scientific presentation or/and poster on the basis of it. The student can choose a topic for her/his Bachelor thesis which enables practical collaboration with external organization, company (e.g. the thesis can be customized to suit client's needs). However, the topic has to be in line with the research projects of the research unit.

Contents:

Planning, implementation, evaluation and presentation of a research process. Writing of a Bachelor thesis based on scientific literature and/or empirical data in accordance with scientific principles. The student prepares the Bachelor thesis with a topic corresponding to her/his major subject. Written maturity test. See 352514A Maturity test.

Mode of delivery:

Group tutoring and seminars

Learning activities and teaching methods:

Tutoring in small groups 6 h, peer evaluation 4 h, reading and retrieving of literature and writing of Bachelor thesis 132 h, preparation for and completion of the maturity test 12 h. Participation and presentation of the thesis in seminar day 8 h.

Target group:

Undergraduate health science students

Prerequisites and co-requisites:

352253A Research Methods in Health Sciences 5 ECTS cr

Recommended optional programme components:

040024Y Knowledge and Research II, Literature Retrieval 4 ECTS cr

Recommended or required reading:

Literature relevant to the Bachelor thesis. Stolt M, Axelin A & Suhonen R (2016) Kirjallisuuskatsaus hoitotieteessä. Hoitotieteen laitoksen julkaisuja, sarja A:73. Turun yliopisto.

Assessment methods and criteria:

Independent studying, tutoring and seminar in small groups, peer evaluation, writing, presenting and discussing the Bachelor thesis. Written maturity test. Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

Pass / fail

Person responsible:

Doctoral candidate / university lecturer / university teacher

Working life cooperation:

Research topic with working life relevance

Other information:

In accordance with the Government Decree on University Degrees (794/2004) issued by the Council of State, the student must demonstrate that he/she has attained the objectives set for the degree, studies and thesis, and the language proficiency. The student must write a maturity essay which demonstrates conversance with the topic of the thesis and skills in the use of Finnish or Swedish. See 352514A Maturity test.

ay352253A: Research Methods in Health Science, 5 op

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: University of Oulu, Open University

Arvostelu: 1 - 5, pass, fail

Opetus suunnattu: University of Oulu, Open University

Opintokohteen kielet: Finnish

Leikkaavuudet:

352253A Research Methods in Health Science 5.0 op

ECTS Credits:

5 ECTS cr

Language of instruction:

Finnish

Timing:

Bachelor studies, 1st autumn term 2nd period

Learning outcomes:

The student is able to name and describe the characteristics of scientific research. The student is able to recognize and evaluate the requirements for good scientific writing. The student is able to describe the steps of scientific research process. The student is able to formulate research aims, objectives and research questions. The student is able to describe valid methods for data collection and data analysis and for selection of research sample/informants. The student is able to describe and evaluate basic ethical issues related to research and researchers. The student is able to evaluate reliability and validity of qualitative and quantitative studies, and is able to apply information and communication technology in his/her research methodology studies.

Contents:

Qualitative and quantitative research: methods of collecting and analyzing data, assessment of reliability, ethical principles, writing of a research plan and a research report, scientific writing.

Mode of delivery:

Guided online-studies, Google classroom

Learning activities and teaching methods:

Independent familiarization of online materials 80 h, literature retrieval and reading 30 h, exercises/examination 25 h.

Target group:

Undergraduate health science students

Prerequisites and co-requisites:

None

Recommended optional programme components:

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Recommended or required reading:

Polit DF & Beck CT. 2011. Nursing Research. Generating and assessing evidence for nursing practice. Lippincott Williams & Wilkins, Philadelphia (parts of the publication).

Denzin, Norman K. & Lincoln, Yvonna S. (eds.) 2011. The sage Handbook of Qualitative Research. 4th ed. Thousand Oaks, CA:SAGE. (Parts of the publication including at least part III Strategies of Inquiry ja IV Methods of Collecting and Analyzing Empirical Materials).

Current national and international scientific articles.

Assessment methods and criteria:

Active and independent participation in online studies and online exercises/examination. Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

1-5 / fail

Person responsible:

University teachers in nursing and health management sciences

Working life cooperation:

Assignments with working life relevance

ay353234A: Health Management Science and Training in Expertise Development, 10 op

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: University of Oulu, Open University

Arvostelu: 1 - 5, pass, fail

Opetus suunnattu: University of Oulu, Open University

Opintokohteen kielet: Finnish

Leikkaavuudet:

353234A Health Management Science and Training in Expertise Development 10.0 op

ECTS Credits:

10 ECTS cr

Language of instruction:

Finnish

Timing:

Bachelor studies 1st autumn term 1st and 2nd period

Learning outcomes:

The student

knows history of health management science and is able to name focal research areas and theoretical basics in a manner enabling discussions about health care administration and management phenomena in connection with visits to companies/organizations.

is able to produce a portfolio with working life relevance, which supports development of expertise and long-life learning. In portfolio, the student applies and analyses central concepts, theories and models of health management science using her/his earlier knowledge and skills.

is able to present portfolio with working life relevance interactively using creatively information and communication technology

is able to report development of one's expertise from the perspective of one's earlier education and working life skills. In addition, the student is able to discuss in one's tutorial group requirements, challenges and possibilities of working life cooperation in the fields of health care, education and management.

Contents:

Health management science as a research field and discipline, central concepts and theoretical approaches.
Phenomena of health care administration and management in working life.

Mode of delivery:

Blended teaching using information and communication technology

Learning activities and teaching methods:

Lectures 10 h, seminars 6 h, visits to companies/organizations 37 h, portfolio 90 h and independent studying 127 h.

Target group:

Undergraduate health science students

Prerequisites and co-requisites:

None

Recommended optional programme components:

Due to joint teaching activities and a joint learning assignment, the student has to complete this course simultaneously with the course 353235A Nursing science and training in expertise development.

Recommended or required reading:

Syväjärvi A & Pietiläinen V (toim.) 2016. Inhimillinen ja tehokas sosiaali- ja terveysjohtaminen. Tampere University press. Linkki e-materiaaliin:

https://tampub.uta.fi/bitstream/handle/10024/100410/Syvajarvi_%26_Pietilainen_OA.pdf?sequence=1

Hallinnon tutkimus journals. Other current scientific literature and research.

Assessment methods and criteria:

Producing a portfolio, visits to companies/organizations. Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

1-5 / fail

Person responsible:

Professor

Working life cooperation:

Visits to companies/organizations and reflection of one's competence in relation to requirements of working life.

ay353235A: Nursing Science and Training in Expertise Development, 10 op

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: University of Oulu, Open University

Arvostelu: 1 - 5, pass, fail

Opetus suunnattu: University of Oulu, Open University

Opintokohteen kielet: Finnish

Leikkaavuudet:

353235A Nursing Science and Training in Expertise Development 10.0 op

ECTS Credits:

10 ECTS cr

Language of instruction:

Finnish

Timing:

Bachelor studies 1st autumn term 1st and 2nd period

Learning outcomes:

The student is able to

describe development, research approaches, focuses and research subjects in nursing science. The student is able to apply evidence-based practice and discuss the importance of nursing science in connection with visits to companies/organizations.

produce a portfolio with working life relevance, which supports development of expertise and long-life learning. In portfolio, the student applies and analyses central concepts, theories and models of nursing science using her/his earlier knowledge and skills.

introduce interactively portfolio with working life relevance using creatively information and communication technology

report development of one's expertise from the perspective of one's earlier education and working life skills. In addition, the student is able to discuss in groups requirements, challenges and possibilities of working life cooperation from the nursing science's point of view.

Contents:

Development trends, focuses and research subjects in nursing science. The importance of nursing science in development of expertise and evidence-based practice of health care.

Mode of delivery:

Blended teaching using information and communication technology

Learning activities and teaching methods:

Lectures 10 h, seminars 6 h, visits to companies/organizations 37 h, portfolio 90 h and independent studying 127 h.

Target group:

Undergraduate health science students

Prerequisites and co-requisites:

None

Recommended optional programme components:

Due to joint teaching activities and a joint learning assignment, the student has to complete this course simultaneously with the course 353234A Health management science and training in expertise development.

Recommended or required reading:

Eriksson, K., Isola, A., Kyngäs, H., Leino-Kilpi, H., Lindström, U. Å., Paavilainen, E., Pietilä, A-M., Salanterä, S., Vehviläinen-Julkunen, K. & Åstedt-Kurki, P. 2012. *Hoitotiede*. 4. uudistettu painos. Sanoma Pro Oy. Helsinki.
 Holopainen, A, Junttila K, Jylhä, V, Korhonen, A, Seppänen S. 2013. *Johda näyttö käyttöön hoitotyössä*. Bookwell Oy, Porvoo (certain parts).

Nursing Science –journal. Other current national and international scientific literature.

Assessment methods and criteria:

Producing a portfolio, visits to companies/organizations. Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

1-5 / fail

Person responsible:

University lecturer

Working life cooperation:

Visits to companies/organizations and reflection of one's competence in relation to requirements of working life.

ay040024Y: Knowledge and research II, Literature retrieval (OPEN UNI), 4 op

Opiskelumuoto: General Studies

Laji: Course

Vastuuyksikkö: University of Oulu, Open University

Arvostelu: 1 - 5, pass, fail

Opetus suunnattu: University of Oulu, Open University

Opintokohteen kielet: Finnish

Leikkaavuudet:

040024Y Knowledge and research II, Literature retrieval 4.0 op

ECTS Credits:

4 ECTS cr

Timing:

1st year

Learning outcomes:

Upon completion of the course the student is familiar with the research process and with the characteristics of scientific information. The student acknowledges significance of scientific publications and is able to evaluate and use critically information sources. The student is able to use the key reference databases and basics of literature retrieval in medical, dental and health sciences and has learned to evaluate results of the retrieval and sources. The student is able to make good use of reference management software.

The student is familiar with basic principles of research ethics and good scientific practice. The student knows the phases and practices of publishing process.

The student is familiar with the main characteristics and analysis of research frames. The student is able to evaluate the role of different kind of illusions and coincidences in research results. The student has acquired preliminary knowledge of retrieval and statistical processing of data. The student is able to evaluate critically scientific publications in which statistical methods are applied. The student is familiar with principles of sound reporting of the research results.

Contents:

Scientific information:

General characteristics of scientific research, significance of scientific information, ethics in research, research methods from different points of view (clinical medicine, epidemiology, biomedicine and health sciences).

Reading of a scientific article:

Scientific journals and phases of publishing process, bibliometric, ethics of scientific communication, approaches and questions of different fields of medicine and health sciences, structure of a scientific article, research frames, possible illusions in research, statistical analysis of data and reporting the results, statistical and clinical significance, systematic reviews and meta-analyses.

Literature retrieval:

Library information services, medical and dental publications, scientific online journals, Medline, Medic, CINAHL, Scopus, Web of Science, Cochrane, electronic books, reference management software.

Special characteristics in medical research:

Ethical guidelines, regulations in clinical drug research, use of laboratory animals in scientific research, research groups.

Mode of delivery:

Blended teaching.

Learning activities and teaching methods:

040024Y (4 op) Knowledge Management and Research, Literature retrieval

Target group:1st year Bachelor students of the Degree Programme in Health Sciences2nd year Bachelor students of medical wellness technology**Prerequisites and co-requisites:**

None.

Recommended optional programme components:

Knowledge Management and Research I (Tools; Written assignment) and III (Lessons and written examination; Small group exercises; Practical project)

902006Y Reading for Academic Purposes

902007Y Scientific Communication

Recommended or required reading:

Handouts / information from lectures and supplementary material for lessons in small groups

Assessment methods and criteria:

Participation in contact teaching obligatory for all students, active participation in group exercises and completion of learning assignments.

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

1,2,3,4,5, fail

Recognition of prior learning: The student has completed earlier study unit in scientific communication (basics of scientific research) covering specific features of dental, medical or health sciences and study unit with introduction to information retrieval and use of reference databases.

Person responsible:

University lecturer Pentti Nieminen

Working life cooperation:

None.

Other information:

From 2015 Curriculum onward, 040024Y Knowledge and research, literature retrieval 4 ECTS cr substitutes part of the earlier 040012Y-04 Scientific communication, assignments.

From 2017 Curriculum onward, for Bachelor students of degree programme in health sciences the Knowledge and research II is integrated in A551110 Bachelor thesis studies 10 ECTS cr.