HAW Hamburg
Fakultät LS
Life Sciences

Faculty of Life Sciences

Module Handbook

Master of Public Health

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Joachim Westenhoefer

(Director of the Department)

Module Handbook

Postgraduate Master

Public Health

Faculty Life Sciences

Department Nutrition

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Department Health Sciences/ Faculty Life Sciences
University of Applied Sciences Hamburg
Lohbruegger Kirchstraße 65, 21033 Hamburg
Tel.: +49.40.428 75-0, Fax: +49.40.428 75-6499
www.haw-hamburg.de

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20. Area of individual interest (1 Module) **

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Objectives

The aim of the postgraduate Master of Public Health (MPH) programme is to provide participants scientific and practical skills in order to conduct research, to bring policy change and positively affect the health of populations. Its key concept is to preserve and enhance the health, well being and life expectancy of human populations by integrating scientific knowledge, practical skills and data research experience to advance public health. To emphasize its international character, the programme is held in English with a broad interdisciplinary focus.

The MPH programme starts with an introduction course in public health in Germany, Europe and Worldwide, health policy, epidemiology and health promotion/ prevention in order to give an overview and basic knowledge of the field. Additional courses are focusing on providing knowledge in conceptualizing, planning, implementing and evaluating public health interventions, study designs and research methods. The MPH students will gain a comprehensive understanding in the field of health promotion, environment and health, politics, management, economics and health service administration.

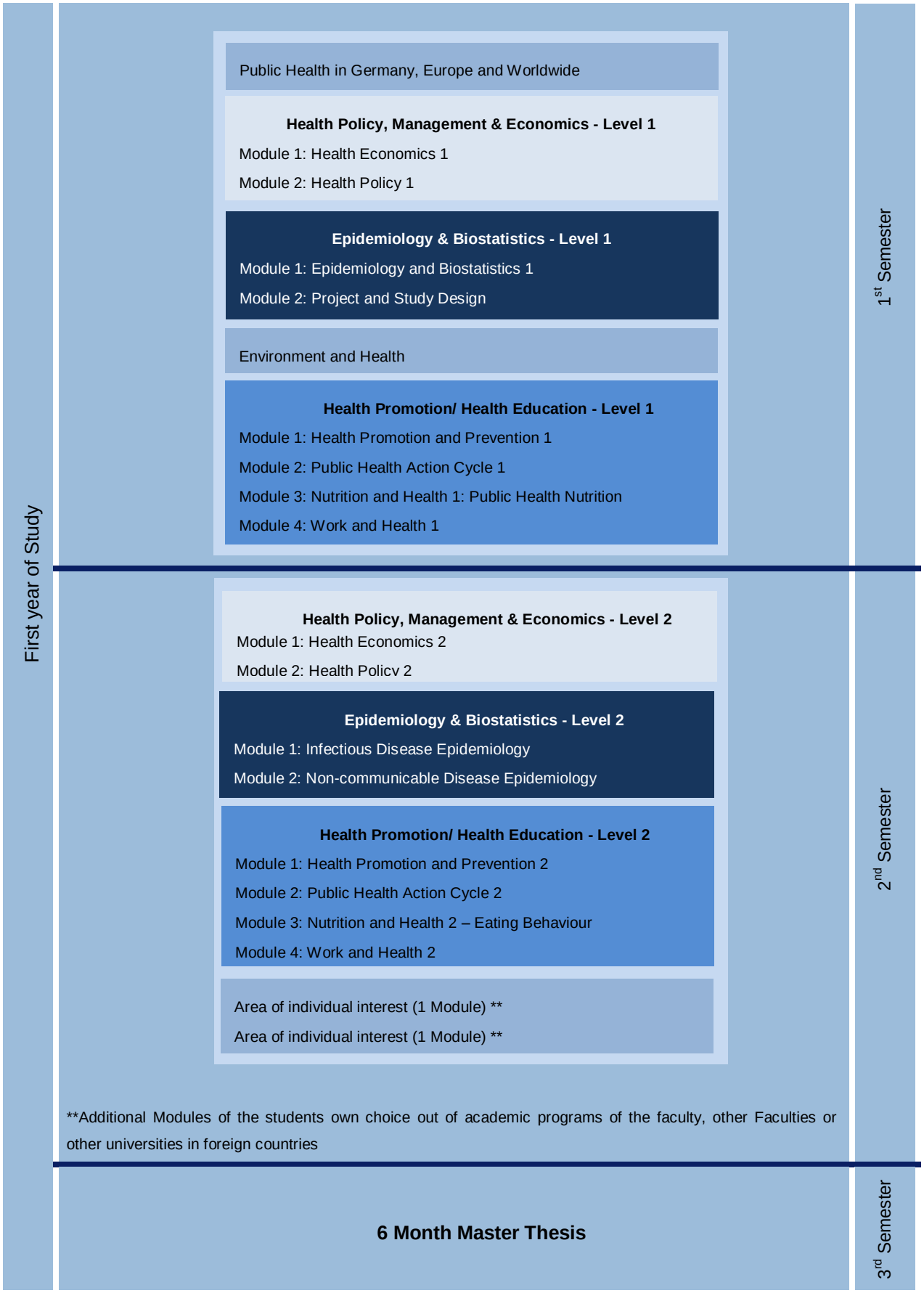
Master Thesis

The third semester of the MPH programme culminates in the writing of the final paper (Master Thesis). The aim is to formulate and analyse a problem, using a suitable study design and study methods and make recommendations for a solution. Concepts and methods learned during the programme will be applied.

Specifics of the MPH programme at the University of Applied Sciences, Hamburg

- The international orientation and English as the course language are special features of this programme.
- Some of the courses are web-based which means that classroom-based core learning sessions will alternate with weeks of assigned internet-based learning at home.
- The Programme can either be studied **full time over three semesters** or **part time over five semesters**. To receive the MPH degree at the University of Applied Sciences Hamburg, students are required to successfully complete twenty modules (three CP each) and a master thesis.

Study Overview



Module description

1st Semester
10 Modules with each 3 CP

Degree programme Master of Public Health 1st Semester Introduction	
Name of module	**Introduction to Public Health in Germany, Europe and worldwide**
Module responsible	**Prof. Christiane Deneke**
Lecturer	**Prof. Christiane Deneke**
Semester	Summer Semester (March - August)
Status	Obligatory
Frequency/ Period of time	Yearly/ Within one semester
Credit Points (CPs)	3 CP
Workload for Students (h)	Workload 90h: presence 30h, private study 60h
Entry Requirements	-none-
Max. Participants	25
Language	English

Objectives

The aim of the lecture is to enable the students to understand, analyze and evaluate Health and Public health in different contexts (social, regional, cultural, systemic).

Development of competencies *(Professional, Technical, Methodological)*

The student can develop the following competencies

- Ability to describe and compare different concepts of health and public health;
- Putting public health in relation to other disciplines (i.e. medicine);
- Capability to describe and analyze the development of Public health in their own and other regions;
- Competence to evaluate the relevance of Public Health for their region/ field of work.

Personal and social skills:

The students are able to:

- Participate actively in the process and collaborate equally with students from other professions, regions and cultures;
- Acknowledge the differences in the participants in respect to culture, gender, and region and respect those in communication;
- Research autonomously and in teams and use different media;
- Present the results in different formats.

Content of Module

- Definition and concepts of Public Health
- Historic development of Public Health
- Health and Public Health
- Concepts of Health (including lay concepts)
- Health problems (regional, worldwide) with criteria of differentiation
- Public Health Policies
- Public Health Practice (incl. Public Health workforce)
- Health (Care) Systems (with reference to students regional background)

Related module

See **Content**

Teaching and Learning Strategies/ Methodology/ Media	Lectures, group work, discussions; presentations of (group work) results
Assessment(s)	Presentation or written assignment of the Health System of origin or parts of it.
Literature/ Working material	World Health Report (several years) Robert Koch Institute (ed.): Health in Germany, Berlin, 2008. The European Observatory on Health Systems and Policies: www.euro.who.int/observatory. Razum et al. (ed): Globalisierung - Gerechtigkeit - Gesundheit: Einführung in International Public Health, 2006.

Degree programme Master of Public Health 1st Semester Health Policy, Management & Economics – Level 1– Module 1	
Name of module	**Health Economics 1**
Module responsible	**Prof. Dr. York Zoellner**
Lecturer	**Prof. Dr. York Zoellner**
Semester	Summer Semester (March - August)
Status	Obligatory
Frequency/ Period of time	Yearly/ Within one semester
Credit Points (CPs)	3 CP
Workload for Students (h)	Workload 90h: presence 30h, private study 60h
Entry Requirements	-none-
Max. Participants	25
Language	English

Objectives

The aim of this module is to introduce students to the discipline of health economics and familiarise them with its key applications in the healthcare market place.

Development of competencies *(Professional, Technical, Methodological)*

Upon successful completion of the module, students will be able to:

- Apply economic theory to the special context of a healthcare system,
- Assess the pros and cons of market and governmental solutions in healthcare,
- Scrutinize and predict the effect of different incentives in provider, consumer and payer behaviours.

Personal and social skills:

Upon successful completion of the module, students will be able to:

- Discuss health economic concepts and applications in reasonable depth,
- Critically appraise media broadcasts, press releases and the contemporary political debate,
- Take in further knowledge into a structured thought framework, and develop own assessments on outside-class issues,

- Develop, obtain feedback to, and present own thoughts and arguments in a peer group.

Content of Module

- Review of fundamental and relevant principles of microeconomics
- Application to the context of the healthcare system, in particular:
    - production, cost and technology of healthcare
    - demand for health capital
    - demand for and supply of health insurance
    - consumer choice and demand
    - nonprofit firms
    - hospitals and long-term care
    - physician's practice
    - Corporate manufacturers.

Related module Health Economics 2

Teaching and Learning Strategies/ Methodology/ Media	Lecture/ seminar, group work, break-out sessions, independent research, peer presentations
Assessment(s)	Exam and/ or assignment (case study)
Literature/ Working material	• Folland, Goodman, Stano. The Economics of Health and Health Care (5th Ed.). New Jersey: Pearson/Prentice Hall, 2007. • Morris, Devlin, Parkin. Economic Analysis in Health Care. Chichester: Wiley, 2007. • Drummond M, McGuire A. Economic evaluation in health care. Oxford: OUP, 2001. • Dix Smith M (Ed.). Health care cost, quality, and outcomes. ISPOR Book of Terms. Lawrenceville: ISPOR, 2003. • Briggs A, Claxton K, Sculpher M. Decision Modelling for Health Economic Evaluation.

Degree programme Master Public Health Health Policy, Management & Economics – Level 1 – Module 2	
Name of module	**Health Policy 1**
Module responsible	**Prof. Dr. Dr. Karl-Heinz Wehkamp**
Lecturer	**Prof. Dr. Dr. Karl-Heinz Wehkamp**
Semester	Summer Semester (March - August)
Status	Obligatory
Frequency/ Period of time	Yearly/ Within one semester
Credit Points (CP)	3 CP
Workload for Students (h)	Workload 90h: presence 30h, private study 60h
Entry Requirements	-none-
Max. Participants	25
Language	English

Objectives

The aim of the lecture is to provide the students with basic knowledge in public health policies, health systems, health care and health organizations. Philosophical concepts/ problems of ethics in health care.

Development of competencies *(Professional, Technical, Methodological)*

The student can obtain following competencies:

- Apply basic knowledge in public health policies,
- Apply the studied concepts to practice,
- Develop his/ her own research ideas,
- Work in groups and discuss results.

Personal and social skills

The student is able to:

- To work in a multi-cultural environment and team
- To discuss and to reflect the results in the context of global health.

Content of module

- Global context of public health
- Philosophical concepts/ Problems of ethics in health care
- Health policies and Health Systems in different countries
- Main health challenges, current political strategies, strengths and problems

Related module

-none-

Teaching and Learning Strategies/ Methodology/ Media	Seminar Discussions Presentations
Assessment(s)	Written assignment or presentation
Literature/ Working material	Beaglehole R, Bonita R. Global Public Health. A new era. Oxford. 2009. Lee K, Buse K, Fustukian S. Health Policy in a Globalising World. Cambridge 2002. Kawachi I, Wamala S. Globalization and health. Oxford 2007. Merson MH, Black RE, Mills A. International Public Health. Diseases, Programs, Systems, Policies. Sudbury/ Mass 2006. Bayer R, Gostin LO, Jennings B. Public Health Ethic: Theory,Policy, and Practice. Oxford Univ Pr; 2006.

Degree programme Master of Public Health 1st Semester Epidemiology & Biostatistics – Level 1– Module 1	
Name of module	**Epidemiology and Biostatistics 1**
Module responsible	**Prof. Dr. Ralf Reintjes**
Lecturer	**Prof. Dr. Ralf Reintjes**
Semester	Summer Semester (March - August)
Status	Obligatory
Frequency/ Period of time	Yearly/ Within one semester
Credit Points (CP)	3 CP
Workload for Students (h)	Workload 90h: presence 30h, private study 60h
Entry Requirements	-none-
Max. Participants	25
Language	English

Objectives

The aim of the course is to provide the context for scientific research and the skills needed to undertake epidemiological studies. Students will be able to design appropriate questions, apply epidemiological study designs, analyse studies and present their findings as a report.

Development of competencies *(Professional, Technical, Methodological)*

The student can obtain following competencies:

- Categorizing study designs, advantages and disadvantages,
- Evaluating alternative study designs, and their advantages and disadvantages,
- Planning and organising epidemiologische studies,
- Self-completion and interpretation of descriptive und analytical (also multivariate) Analysis.

Personal and social skills

The student is able to:

- Unterstand and critically appraise epidemiological article,
- Apply epidemiological methods,
- Summarise and present epidemiological results in written form,
- Organising working groups and working out a topic.

Content of module

- Measures of Impact
- Confounding & Effect Modification
- Study designs
- Analysis of Studies (incl. Stratification und logistical Regression)

Related module

Infectious Disease Epidemiology, Non-communicable Disease Epidemiology

Teaching and Learning Strategies/ Methodology/ Media	Seminar character, case scenarios, computer practice und students contributions (reports, group work), combination out of problem oriented project work, case scenarios, seminars and lecturer
Assessment(s)	Written Exam
Literature/ Working material	Gordis L Epidemiology. 4. ed. Philadelphia. Elsevier, Saunders, 2008. Rothman, K. Epidemiology: An Introduction, Oxford University Press, 2002. Hennekens, C. H., Buring, J. E.: Epidemiology in Medicine, Boston (Little Brown & Company), 1987. Rothman, K., Greenland, S., Lash T. L. Modern Epidemiology. Philadelphia: Lippincott-Williams & Wilkins, 2008.

Degree programme Master of Public Health 1st Semester Epidemiology & Biostatistics – Level 1– Module 2	
Name of module	**Project and Study Design**
Module responsible	**Prof. Dr. Christine Faerber**
Lecturer	**Prof. Dr. Christine Faerber**
Semester	Summer Semester (March - August)
Status	Obligatory
Frequency/ Period of time	Yearly/ Within one semester
Credit Points (CPs)	3 CP
Workload for Students (h)	Workload 90h: presence 12h, E-learning 23h, private study 55h
Entry Requirements	-none-
Max. Participants	25
Language	English

Objectives

The aim of the lecture is to give the students an overview of the most important study designs in epidemiology and health sciences, including their strengths and weaknesses, applied to practical examples.

Development of competencies *(Professional, Technical, Methodological)*

The student can learn the following competencies:

- Ability to understand all epidemiologically relevant study designs, their explanatory power and can apply them themselves, namely co-relational studies, cross-sectional studies, case-control-studies, cohort-studies, randomized controlled trials and intervention studies,
- Acquirement to understand and apply qualitative designs.

Personal and social skills

The student is able to:

- Apply in-depth knowledge across disciplinary boundaries,
- Apply the studied designs in practice,
- Work in groups and discuss results.

Content of module

- Introduction to empirical methods in public health research
- Cohort studies with practical applications
- Cross-sectional studies with practical applications
- Case-controll-studies with practical applications
- Cohort studies with practical applications
- Randomized controlled trial with practical applications
- Intervention studies with practical applications
- Qualitative designs with practical applications

Related module

-none-

Teaching and Learning Strategies/ Methodology/ Media	• Seminar • E-learning platform and module • Student presentations Teachers set goals and standards. They initiate the work process and guide the students to work autonomously.
Assessment(s)	Written assignment
Literature/ Working material	E-learning module Recent studies on the E-learning platform as applied examples

Degree programme Master of Public Health 1st Semester	
Name of module	**Environment and Health**
Module responsible	**Dr. Michael Schuemann**
Lecturers	**Dr. Michael Schuemann** **Prof. Dr. Dr. Andreas D. Kappos**
Semester	Summer Semester (March - August)
Status	Obligatory
Frequency/ Period of time	Yearly/ Within one semester
Credit Points (CPs)	3 CP
Workload for Students (h)	Workload 90h: presence 30h, private study 60h
Entry Requirements	Basic knowledge in statistics (beginners level), interest and motivation to read and discuss scientific literature, to learn a structured approach for exposure scenario analysis, assessing exposure (including mathematical modeling), to get familiar with epidemiological study types and risk measures
Max. Participants	25
Language	English

Objectives

The aim of the lecture is to encourage an understanding of the interaction of human activities, human health, and the environment, to give an understanding of how environmental risks are assessed and how they may be managed.

At the end of the course, participants should be able to:

- Understand and anticipate public perceptions and concerns of environmental risks,
- Apply the basic rules for a fair, transparent, rational and effective risk communication,
- Understand the basic principles of the hazard identification, the risk and effect assessment in the context of environmental risk management,
- Employ the rules for scientific exposure analysis (application of default values) and describe the results and corresponding uncertainties in risk assessment,
- Understand the influence of an ecosystem and human activities as risk factors for human health, be aware of “global concerns” incl. Global warming and ozone depletion,

their causes and consequences,
- Distinguish the key study types and methods for environmental epidemiological risk assessment and apply the methods of environmental epidemiology correctly,
- Be familiar with the relationship between major health outcomes/diseases and major environmental risk factors (the environment to health chain),
- Evaluate the quality of epidemiological literature (journal articles, reports) with respect to principles, good epidemiological practise and prevention strategies.

Development of competencies *(Professional, Technical, Methodological)*

The student can obtain following competencies:

- Analysis of exposure scenarios,
- Identification of the most influential variables,
- Knowledge in critical exposure events and health outcomes,
- Basic knowledge about risk communication processes
- Becoming skilled at basic level of exposure assessment, understand the mayor sources of exposure variability between persons and groups with respect to environmental influences on health,
- Gaining knowledge about the basic approaches and methods of environmental epidemiology and apply epidemiological methods and interpretations on examples,
- Reading and evaluating epidemiological literature (case studies) is the starting point for presentation of results in working groups and panel discussions,
- Identification inherent uncertainties in exposure and risk assessment.

Personal and social skills

The student is able to:

- Communicate about health and environment issues,
- Develop a basic understanding for different information needs of different audiences (management, public, media, science,..),
- Distinguish clearly between scientific knowledge, assumptions and uncertainties.

Content of module

- Introduction, Risk analysis and risk communication
- Exposure and risk assessment: the structure of environmental impact
- Environmental and Health development (age and time): influence factors, confounders, health indicators, morbidity and mortality
- Environmental toxicology and epidemiology: Immission, airborne diseases and allergies
- Descriptive and analytical methods in environmental epidemiology

(Nominator/denominator, stratification needs, geographical methods, development over time)

- Evidence in environmental epidemiology (again: types of studies, good epidemiological practice, reading literature critical, evaluation, effective prevention strategies)

Related module

-none-

Teaching and Learning Strategies/ Methodology/ Media	Each thematic introduction/ reading is followed by an active part directly related to the current content. The participants get specific tasks to find a proposal for solution. The work is done in groups (not more than 4-5 persons). Each group gets the opportunity to present (oral presentation with media: poster, electronic presentation tools, handout) and to discuss the result with the colleagues.
Assessment(s)	Each block of content is followed by a group task; the quality of each group presentation (and by this each participant's contribution) is evaluated as the average of the best four out of possible five presentations.
Literature/ Working material	The participants get the course material in electronical and paper version in advance (normally 1-4 day before). Each block of content has a literature list, with relevant books, articels (paper form) and internet material (reports, e-journal articels). Kenneth J. Rothman: Epidemiology. An Introduction. Oxford University Press 2002. WHO/IPCS (2009): Guidance on Characterizing and Communicating Uncertainty in Exposure Assessment; WHO/IPCS, Genf 2008: (Link Part 2) http://www.who.int/ipcs/publications/methods/harmonization/exposure_assessment.pdf. ECHA (2008/2009): Guidance on information requirements and chemical safety assessment. Part D: Exposure scenario building and Part R15: Consumer exposure estimation. European Chemical Agency, Helsinki 2008-2009: http://guidance.echa.europa.eu/docs/guidance_document/fact

	_sheets/inforeq_d_en.pdf. S. K. Cummins, and J. Lipscomb (2008): Training manual: Environmental health for pediatrics. Children's Environmental Health Network. Washington D.C/USA: http://www.cehn.org/cehn/trainingmanual/manual-contents.html. L. Beale, J.Abellan, S.Hodgson and L.Jarup (2008): Methodological Issues and Approaches to Spatial Epidemiology. Environmental Health Perspectives doi:10.1289/ehp.10816 (http://dx.doi.org/).

Degree programme Master of Public Health (MPH) 1st Semester Health Promotion & Prevention - Level 1 – Module 1	
Name of module	**Health Promotion 1**
Coordinator	**Prof. Dr. Annette C. Seibt**
Lecturers	**Prof. Dr. Annette C. Seibt and changing guests lectures (2007–10: Dr. Kerstin Walther, Sydney, Australia)**
Semester	Summer Semester (March - August)
Status	Obligatory
Frequency/ Period of time	Yearly/ Within one semester
Credit Points (CPs)	3 CP
Workload for Students (h)	Workload 90h: presence 30h, private study 60h
Entry Requirements	Admittance to the MPH program
Max. number of students	25
Language	English

Objectives

Students will be able to:

- Describe the elements of the Ottawa Charta and list societal and political milestones for the development of health promotion, incl. the classical community studies,
- Describe – and distinguish health promotion from – other related concepts,
- Analyze a health-related topic in light of the Ottawa Charta and conceptualize an intervention using the action areas and strategies of the Ottawa Charta,
- Use and apply (a selection of) health promoting concepts to an intervention,
- Monitor and evaluate a self-conducted Self-Change-Project for a self-selected health-related behaviour, and analyze it in light of health-promotion theories.

Development of competencies *(Professional, Technical, Methodological)*

The student can learn the following competencies:

- Operationalizing constructs of selected health promotion theories/ models and apply them to an intervention project,
- Interconnecting theoretical knowledge and practical health-related problems,
- Monitoring and evaluating a self-conducted Self-Change-Project for a self-selected health-related behaviour, and analyze it in light of health-promotion theories.

Personal and social skills

The student is able to:

- Conduct and reflect a self-change project,
- Participate actively in the process and collaborate with students from other professions, regions and cultures,
- Acknowledge and respect the differences in the participants in respect to gender, culture, and region,
- Work and research autonomously and in teams and use different media for result presentations.

Content of module

- History and development of public health, prevention and health promotion
- Definitions and comparison of health promotion in respect to similar concepts such as health education, prevention, social hygiene, etc.
- Definitions, action areas and strategies of the Ottawa Charta
- Concepts, such as Salutogenesis, Social Determinants, Empowerment, Self-Determination, Gender and Equity, Social Capital, Participation, Social Connectedness, as guiding principles in health promotion practice
- Theories and planning models of Health Promotion such as Precede–Proceed, Health Belief Model, Transtheoretical (Stage) Model, Social Learning Theory, Attribution Theory, etc.
- Health Promotion structures, institutions and financing, also in comparison to other countries
- Current political topics and discussions in the area of health & health promotion

Related Module Public Health Action Cycle

Teaching and Learning Strategies/ Methodology/ Media	Lectures, group work, discussions • conduct of self-change project • presentations of individual and/ or group work results
Assessment(s)	Student presentations • active participation • undertaking and presentation of a self-change project in light of and intertwined with health promotion theories and models
Literature/ Working material	Seibt AC. Guiding materials for the Self-Change Project • Glanz K, Rimer BK, Viswanath K, eds. Health Behavior and Health Education. Theory, Research, and Practice. 4th ed. San Francisco: Jossey-Bass, 2008 • Work sheets

Degree programme Master of Public Health 1st Semester Health Promotion/ Health Education - Level 1 – Module 2	
Name of module	**Public Health Action Cycle 1 - PHAC 1**
Module responsible	**Prof. Christiane Deneke**
Lecturers	**Prof. Christiane Deneke**
Semester	Summer Semester (March - August)
Status	Obligatory
Frequency/ Period of time	Yearly/ within one semester
Credit Points (CPs)	3 CP
Workload for Students (h)	Workload 90h: presence 30h, private study 60h
Entry Requirements	-none-
Max. Participants	25
Language	English

Objectives

The aim of the lecture is to enable the students to understand and use the Public Health Action Cycle (PHAC).

Development of competencies *(Professional, Technical, Methodological)*

The student can obtain following competencies:

- Qualification to describe the 4 phases of the PHAC;
- Concretize the applications of the PHAC in their field of work;
- Applying selected methods for the individual phases to given public health problems;
- Presenting and discussing planned projects, prepared individually or in a team.

Personal and social skills:

The students are able to:

- Participate actively in the process and collaborate equally with students from other professions, regions and cultures;
- Acknowledge the differences in the participants in respect to culture, gender, and region and respect those in communication;
- Research autonomously and in teams and use different media;
- To present the results in different formats.

Content of Module

- Health policy background of the PHAC
- The PHAC phases (Assessment; Policy formulation; Assurance/implementation; Evaluation) and their links to other MPH modules (Health promotion, epidemiology, Health policy and economics; study design)
- Examples of applying the PHAC

Related module

See **Content**

Teaching and Learning Strategies/ Methodology/ Media	• Lectures • Group work • Discussions • Presentations of (group work) results
Assessment(s)	Written assignment or Poster on Public Health Action Cycle examples
Literature/ Working material	Pencheon D. (ed.): Oxford handbook of public health practice. Oxford: Oxford Univ. Press, 2006. Naidoo J.Wills J: Health Promotion. Foundations for Practice; London 1994. J.Ovretveit: Evaluating Health Interventions, Oxford 2005 IUHPE: The Evidence of Health Promotion Effectiveness, Brussels, Luxembourg 1999 (part II). Recent project examples, from Europe and regions students come from.

Degree programme Master of Public Health 1st Semester Health Promotion/ Health Education - Level 1 – Module 3	
Name of module	**Nutrition and Health 1: Introduction to Public Health Nutrition**
Module responsible	**Prof. Dr. Joachim Westenhoefer**
Lecturer	**Prof. Dr. Joachim Westenhoefer**
Semester	Summer Semester (March - August)
Status	Obligatory
Frequency/ Period of time	Yearly/ Within one semester
Credit Points (CPs)	3 CP
Workload for Students (h)	Workload 90h: presence 30h, private study 60h
Entry Requirements	-none--
Max. Participants	25
Language	English

Objectives

The aim of the lecture is to give an Introduction to the field of Public Health Nutrition**.**

Development of competencies *(Professional, Technical, Methodological)*

The student can learn the following competencies:

- Ability to describe the relationships between nutrition/diet, physical activity, nutritional status and health and basic concepts of prevention in this field,
- Qualification to search, understand and present relevant literature and data in this field,
- Acquirement to describe basic concepts and methods of nutritional epidemiology.

Personal and social skills

The student is able to:

- Participate actively in group work and co-operate with students from different professional, geographic/regional and cultural background,
- Search for information, literature and data in the field using different media,
- Present work results in oral and written form,
- Work in groups independently on a clearly defined topic and present the results of the work.

Content of module

- Overview of Public Health Nutrition
- Diet-related diseases: Influence of diet and physical activity on the development of chronic disease, epidemiology, approaches to treatment and prevention
- Assessment of diet and nutritional status (as an exposition and/ or outcome)
- Under nutrition

Related module -none-	
Teaching and Learning Strategies/ Methodology/ Media	Lecture, group work with presentation of results
Assessment(s)	Written assignment
Literature/ Working material	Gibney, Margetts Kearney & Arab: Public Health Nutrition. Oxford: Blackwell Science, 2004. World Health Organisation. Diet, nutrition and the prevention of chronic diseases. Report of a joint WHO/FAO expert consultation: World Health Organisation; 2003.

Degree programme Master of Public Health 1st Semester Health Promotion/ Health Education - Level 1 – Module 4	
Name of module	**Work and Health 1**
Module responsible	**Prof. Dr. Detlef Krueger**
Lecturer	**Prof. Dr. Detlef Krueger**
Semester	Summer Semester (March - August)
Status	Obligatory
Frequency/ Period of time	Yearly/ Within one semester
Credit Points (CP)	3 CP
Workload for Students (h)	Workload 90h: presence 12h, E-learning and private study 78 h
Entry Requirements	Basic knowledge Health Promotion and Medicine
Max. Participants	25
Language	English

Objectives

The aim of the lecture is to understand principles of prevention of illness and health promotion at work sites.

Development of competencies *(Professional, Technical, Methodological)*

- The student can obtain following competencies
- Planning,
- Implementation and evaluation of worksite health promotion programs
- As well as project management skills.

Personal and social skills

The student is able to:

- Communicate health and health promotion issues with management, experts and employees at company level.

Content of module

- Gender, work and health
- Stress and strain at work

• Worksite Health Promotion • Ageing, work environment and health • Human Resource Management • Evaluation Models	
Related module Health Promotion	
Teaching and Learning Strategies/ Methodology/ Media	E-Learning/ Blended Learning
Assessment(s)	Written assignment
Literature/ Working material	Chenoweth, D.H. (2 006). Worksite Health Promotion. Champaign: Human Kinetics. Ilmarinen, J. (2005). Towards a longer worklife. Helsinki: FIOH. Wilson, J.R., Corlett, E.N. (Ed.) (2005). Evaluation of Human Work. New York: Routledge, Chapman & Hall.

2nd Semester
10 Modules with each 3 CP

Degree programme Master of Public Health 2nd Semester Health Policy, Management & Economics – Level 2– Module 1	
Name of module	**Health Economics 2**
Module responsible	**Prof. Dr. York Zoellner**
Lecturer	**Prof. Dr. York Zoellner**
Semester	Winter Semester (September - February)
Status	Obligatory
Frequency/ Period of time	Yearly/ Within one semester
Credit Points (CPs)	3 CP
Workload for Students (h)	Workload 90h: presence 30h, private study 60h
Entry Requirements	-none-
Max. Participants	25
Language	English

Objectives

The aim of the lecture is to enhance and further build on knowledge acquired in the first module, Health Economics 1, covering some aspects in more depth and introducing new concepts and applications as described below.

Development of competencies *(Professional, Technical, Methodological)*

Upon successful completion of the module, students will be able to:

- Apply advanced economic concepts to the special context of a healthcare system,
- Assess the challenges in health care financing and develop solution proposals from own thinking,
- Trade off efficiency, equity and need considerations in the healthcare sector,
- Assess the risks and effects of market failure as well as potential government inefficiencies,
- Interpret the intentions and predict the effects of recent healthcare reforms,
- Gauge the significance and impact of “bads”,
- Critically appraise economic evaluation studies in healthcare.

Personal and social skills

Upon successful completion of the module, students will be able to:

- Discuss health advanced health economic concepts and applications at appropriate level of depth,
- Critically appraise media broadcasts, press releases, political statements, as well as the peer-reviewed scientific literature,
- Take in further knowledge into a structured thought framework, and develop own assessments on outside-class issues,
- Develop, obtain feedback to, and present own thoughts and arguments in a peer group,
- Give podium presentations and answer questions in a competent and confident way.

Content of Module

- Financing healthcare
- Equity, efficiency and need
- Government intervention in healthcare markets
- Healthcare systems and system reform
- The economics of "bads" (addiction, substance abuse)
- Economics and epidemiology
- Cost of illness/ burden of disease studies
- Economic evaluation

Related module Health Economics 1

Teaching and Learning Strategies/ Methodology/ Media	Lecture/ seminar, group work, break-out sessions, independent research, peer presentations
Assessment(s)	Exam and/ or assignment (case study)
Literature/ Working material	Folland, Goodman, Stano. The Economics of Health and Health Care (5th Ed.). New Jersey: Pearson/Prentice Hall, 2007. Morris, Devlin, Parkin. Economic Analysis in Health Care. Chichester: Wiley, 2007. Drummond M, McGuire A. Economic evaluation in health care. Oxford: OUP, 2001. Dix Smith M (Ed.). Health care cost, quality, and outcomes. ISPOR Book of Terms. Lawrenceville: ISPOR, 2003. Briggs A, Claxton K, Sculpher M. Decision Modelling for Health Economic Evaluation.

Degree programme Master Public Health 2nd Semester Health Policy, Management & Economics – Level 2 – Module 2	
Name of module	**Health Policy 2**
Module responsible	**Prof. Dr. Dr. Karl-Heinz Wehkamp**
Lecturer	**Prof. Dr. Dr. Karl-Heinz Wehkamp**
Semester	Winter Semester (September - February)
Status	Obligatory
Frequency/ Period of time	Yearly/ Within one semester
Credit Points (CP)	3 CP
Workload for Students (h)	Workload 90h: presence 30h, private study 60h
Entry Requirements	-none-
Max. Participants	25
Language	English

Objectives

The aim of the lecture is to raise awareness of the global challenges like poverty, inequities, diseases, epidemics and the need to improve health throughout the world. Furthermore to reflect that global health is not just about health, the critical and integrated relationships among public health policies, health systems, healthcare, education, economic development, and business leadership and management require a simultaneous consideration of these issues.

Development of competencies *(Professional, Technical, Methodological)*

The student can obtain following competencies:

- Apply in-depth knowledge in public health policies,
- Apply the studied concepts to practice,
- Develop his/ her own research ideas,
- Work in groups and discuss results.

Personal and social skills

The student is able to:

- To work in a multi-cultural environment and team
- To discuss and to reflect the results in the context of global health.

Content of module

- Global context of public health, current global health status, health consequences of globalization, monitoring the impact of globalization on health
- Global health policies and Health Systems
- Public health in different regions
  (Western and Eastern Europe, North America, Latin America, Africa, Asia, Australia)
- Health reports from around the world,
- Main health challenges, current political strategies, strengths and problems
- The design of health systems
- Health situation, health system and health policies in some elected countries
  (e.g. Cameroon, Canada, Zimbabwe, Kenya, China, Barbados, Hungary)
- Globalization, conflict and humanitarian responses
- United Nations (UN) Organisations (its programmes, policies, conferences)
- Non Governmental Organisations (NGOs)
- European Union (EU) and its public health policies
- World Bank, Micro Credits, World Trade Organization (WTO)

Related module -none-

Teaching and Learning Strategies/ Methodology/ Media	Seminar, Discussions, Presentations
Assessment(s)	Written assignment and 15min.oral discussion, or 20min.presentation (2 students 30min.)
Literature/ Working material	Beaglehole R, Bonita R. Global Public Health. A new era. Oxford. 2009. Lee K, Buse K, Fustukian S. Health Policy in a Globalising World. Cambridge 2002. Kawachi I, Wamala S. Globalization and health. Oxford 2007. Merson MH, Black RE, Mills A. International Public Health. Diseases, Programs, Systems, Policies. Sudbury/ Mass 2006. Bayer R, Gostin LO, Jennings B. Public Health Ethic: Theory,Policy, and Practice. Oxford Univ Pr; 2006.

Degree programme Master in Public Health 2nd Semester Epidemiology & Biostatistics – Level 2 – Module 1	
Name of module	**Infectious Disease Epidemiology**
Module responsible	**Prof. Dr. Ralf Reintjes**
Lecturer	**Prof. Dr. Ralf Reintjes**
Semester	Winter Semester (September - February)
Status	Obligatory
Frequency/ Period of time	Yearly/ Within one semester
Credit Points (CP)	3 CP
Workload for Students (h)	Workload 90h: presence 30h, private study 60h
Entry Requirements	Basic knowledge in Epidemiology.
Max. Participants	25
Language	English

Objectives

The aim of the lecture is to conduct quality research into the epidemiology, control and management of infections and infectious diseases that are of public health importance in worldwide countries.

Development of competencies *(Professional, Technical, Methodological)*

The student can obtain following competencies:

- Identifying key factors for the spread of infectious diseases,
- Having an understanding of Surveillance Systems (Infectious Disease Information System, know different types of surveillance, capture-recapture analysis to assess the sensitivity of surveillance systems),
- Know how to conduct outbreak investigations,
- Understand the possible use of mathematical modeling,
- Writing a critical appraisal, to synthesize the actual state of knowledge regarding a specific field, to keep only the information that will actually be useful.

Personal and social skills

The student is able to:

- Apply the study designs in practice,
- Ability to work in a team and to discuss results,
- Flexibility and ability to work under pressure (as during an outbreak investigations).

Content of module

- Surveillance – Infectious Disease Information System
- Outbreak Investigations – systematic search for the source and transmission route
- Distribution of Epidemics by WHO Regions
- Key factors for the spread of infectious diseases
- Epidemiologic Studies – answering predefined questions
- Data handling and Analysis
- Mathematic modelling in infectious disease epidemiology
- Principles of Capture-recapture analysis: Assessing the sensitivity of surveillance systems

Related module Epidemiology I, II (BA), Non-communicable Disease Epidemiology

Teaching and Learning Strategies/ Methodology/ Media	Seminar character, case scenarios, computer practice und students contributions (reports, group work), combination out of problem oriented project work, case scenarios, seminars and lecturer
Assessment(s)	Presentation/ Writing an Abstract
Literature/ Working material	Giesecke J. Modern infectious disease epidemiology. 2. ed. London [u.a.]:Arnold, 2002. Reintjes R, Thelen M, Reiche R, Csoha R. Infectious Diseases Benchmarking national surveillance systems: a new tool for the comparison of communicable disease surveillance and control in Europe. European Journal of Public Health, 2007, 17(4):375–380. Krumkamp R, Ahmad A, Kassen A et al. Evaluation of national pandemic management policies.A hazard analysis of critical control points approach. Health Policy 2009. 92:21–26. Krumkamp R, Duerr HP, Reintjes R, Ahmad A, Kassen A, Eichner M. Impact of public health interventions in controlling the spread of SARS: Modelling of intervention scenarios. Int. J. Hyg. Environ. Health 2009, 212:67–75. Literature is provided on the E-learning platform and in a reader which will be handed out by the tutor in class for each day with exercises

Degree programme Master of Public Health 2nd Semester Epidemiology & Biostatistics – Level 2 – Module 2	
Name of module	**Non-communicable Disease Epidemiology**
Module responsible	**Prof. Dr. Joachim Westenhoefer**
Lecturer	**Prof. Dr. Joachim Westenhoefer**
Semester	Winter Semester (September - February)
Status	Obligatory
Frequency/ Period of time	Yearly/ Within one semester
Credit Points (CPs)	3 CP
Workload for Students (h)	Workload 90h: presence 30h, private study 60h
Entry Requirements	Basic knowledge in Epidemiology
Max. Participants	25
Language	English

Objectives

The aim of the lecture is to provide an overview and introduction to the methods and findings in the epidemiology of non-communicable diseases**.**

Development of competencies *(Professional, Technical, Methodological)*

The student can obtain the following competencies:

- Describe the major non-communicable diseases and major components of their etiology,
- Research and evaluate scientific literature in the field,
- Describe and evaluate approaches to screening and prevention of non-communicable diseases.

Personal and social skills

The student is able to:

- Research and evaluate scientific literature,
- Present work results in a scientific manner.

Content of module

- Overview of non-communicable diseases
- Epidemiology of cardio-vascular disease
- Epidemiology of diabetes
- Epidemiology of cancer
- Epidemiology of mental disorders
- Concept of risk factors and approaches to prevention

Related module -none-	
Teaching and Learning Strategies/ Methodology/ Media	Lecture, group work with presentations
Assessment(s)	Written assignment
Literature/ Working material	Rothman et al., Modern Epidemiology, Lippincott, 2008. Recent research articles from scientific journals (Material on E-learning platform)

Degree programme Master of Public Health 2nd Semester Health Promotion/ Health Education - Level 2 – Module 1	
Name of module	**Health Promotion 2**
Module responsible	**Prof. Christiane Deneke**
Lecturer	**Dr. Smita Shah**
Semester	Winter Semester (September - February)
Status	Obligatory
Frequency/ Period of time	Yearly/ Within one semester
Credit Points (CPs)	3 CP
Workload for Students (h)	Workload 90h: presence 30h, private study 60h
Entry Requirements	Basic knowledge in health promotion
Max. Participants	25
Language	English

Objectives

The aim of the lecture is to be able to write a research application.

Development of competencies *(Professional, Technical, Methodological)*

The student can obtain following competencies:

- Systematically planning of an intervention project

Personal and social skills

The student is able to:

- Participate actively in the process and collaborate equally with students from other professions, regions and cultures;
- Acknowledge the differences in the participants in respect to culture, gender, and region and respect those in communication;
- Research autonomously and in teams and use different media;
- Present the results in different formats.

Content of module

- Asthma as an important public health problem
- Presentation of peer education programs for asthma, diabetes, and obesity in children

Related module

-none-

Teaching and Learning Strategies/ Methodology/ Media	Group work, literature review
Assessment(s)	Mock application for a given health promotion topic
Literature/ Working material	Work sheets, Baum F. The New Public Health, 3rd ed. Oxford 2002.

Degree programme Master of Public Health 2nd Semester Health Promotion/ Health Education - Level 2 – Module 2	
Name of module	**Public Health Action Cycle 2 - PHAC 2**
Module responsible	**Prof. Christiane Deneke**
Lecturer	**Prof. Christiane Deneke**
Semester	Winter Semester (September - February)
Status	Obligatory
Frequency/ Period of time	Yearly/ Within one semester
Credit Points (CPs)	3 CP
Workload for Students (h)	Workload 90h: presence 30h, private study 60h
Entry Requirements	Module PHAC 1 or Basic knowledge on the PHAC
Max. Participants	25
Language	English

Objectives

The aim of the lecture is to improve the student's methodological competencies to analyze, understand and reflect changes in health related interventions.

Development of competencies *(Professional, Technical, Methodological)*

The student can obtain following competencies:

- Critically analysing project cycles with respect to the usage of the PHAC
- Planning an intervention project with the help of the PHAC for a health problem in their region/ field of work;
- Ability to present and discuss planned projects, prepared individually or in a team.

Personal and social skills

The student is able to:

- Participate actively in the process and collaborate equally with students from other professions, regions and cultures;

- Acknowledge the differences in the participants in respect to culture, gender, and region and respect those in communication;
- Research autonomously and in teams and use different media;
- To present the results in different formats.

Content of module

- PHAC as a „tool kit“ for Interventions
- Application of the PHAC on problems identified in other MPH-Modules
- Examining of health goals and targets (SMART)
- According to needs: special Assessment- or Evaluation methods
- Methodological planning of own (public) health projects with the PHAC (e.g. thesis project)

Related module

PHAC 1, Health Promotion 2

Teaching and Learning Strategies/ Methodology/ Media	Lectures, group work, discussions; presentations of (group work) results with MS Power Point
Assessment(s)	Written assignment or Presentation of (own) projects using the PHAC
Literature/ Working material	Pencheon, David (ed.): Oxford handbook of public health practice. Oxford: Oxford Univ. Press, 2006. J.Ovretveit: Evaluating Health Interventions, Oxford 2005. IUHPE: The Evidence of Health Promotion Effectiveness, Brussels, Luxembourg 1999 (part II). Recent project examples, from Europe and regions students come from.

Degree programme Master of Public Health 2nd Semester Health Promotion/ Health Education - Level 2 – Module 3	
Name of module	**Nutrition and Health 2 – Eating Behaviour**
Module responsible	**Prof. Dr. Joachim Westenhoefer**
Lecturers	**Prof. Dr. Joachim Westenhoefer**
Semester	Winter Semester (September - February)
Status	Obligatory
Frequency/ Period of time	Yearly/ Within one semester
Credit Points (CPs)	3 CP
Workload for Students (h)	Workload 90h: presence 30h, private study 60h
Entry Requirements	-none-
Max. Participants	25
Language	English

Objectives

The aim of the lecture is to provide an advanced knowledge of Public Health Nutrition**.**

Development of competencies *(Professional, Technical, Methodological)*

The student can obtain following competencies:

- Ability to understand and describe human eating behaviour in its socio-cultural context,
- Qualification to understand and describe the limited potential of changing eating behaviour,
- Describing important concepts and applications of nutritional psychology,
- Ability to research, understand and present relevant literature for the field.

Personal and social skills

The student is able to:

- Search for information, literature and data in the field using different media,
- Present work results in written form.

Content of module

- Socio-cultural context of eating behaviour and psycho-social factors influencing eating behaviour
- Development of eating behaviour
- Restrained eating, ideal of slenderness and slimming diets
- Eating disorders (Anorexia nervosa, Bulimia nervosa, Binge Eating Disorder)
- Obesity

Related module -none-	
Teaching and Learning Strategies/ Methodology/ Media	E-Learning Module with presence introduction and closing session
Assessment(s)	Written assignment
Literature/ Working material	E-Learning Platform

Degree programme Master of Public Health 2nd Semester Health Promotion/ Health Education - Level 2 – Module 4	
Name of module	**Work and Health 2**
Module responsible	**Prof. Dr. Detlef Krueger**
Lecturer	**Prof. Dr. Detlef Krueger**
Semester	Winter Semester (September - February)
Status	Obligatory
Frequency/ Period of time	Yearly/ Within one semester
Credit Points (CP)	3 CP
Workload for Students (h)	Workload 90h: presence 12h, E-learning and private study 78 h
Entry Requirements	Basic knowledge Health Promotion and Medicine
Max. Participants	25
Language	English

Objectives

The aim of the lecture is to understand principles of ageing in the course of work life and having the knowledge to develop concepts for age management policies at company level.

Development of competencies *(Professional, Technical, Methodological)*

- The student can obtain following competencies
- Planning,
- Implementation and evaluation of worksite health promotion programs
- As well as project management skills.

Personal and social skills

The student is able to:

- Effectively communicate ageing workers needs and health policy measures at company level.

Content of module

- Demographic Changes in western societies
- Age policies
- Course of work life
- Ageing and health
- Age management programs
- Ageing, work life and quality of life

Related module

Work and Health 1

Teaching and Learning Strategies/ Methodology/ Media	E-Learning/ Blended Learning
Assessment(s)	Written assignment
Literature/ Working material	Ilmarinen, J. (2005). Towards a longer worklife. Helsinki:FIOH. Morschhäuser, M., Sochert, R. (2007). Healthy Work in an Ageing Europe. Strategies and Instruments for Prolonging Working Life. Düsseldorf: BKK. OECD (Ed.) (2004). Ageing and employment policies: Finland. Paris: OECD.

Lecturers

Professors

Prof. Christiane Deneke

Prof. Dr. Christine Faerber

Prof. Dr. Detlef Krueger

Prof. Dr. Ralf Reintjes

Prof. Dr. Annette C. Seibt

Prof. Dr. Dr. Karl-Heinz Wehkamp

Prof. Dr. Joachim Westenhoefer

Prof. Dr. York Zoellner

Scientifical Employees

-none-

External Lecturers

Dr. Michael Schuemann

Prof. Dr. Dr. Andreas D. Kappos

Dr. Smita Shah