

| 2024/2025. ACADEMIC YEAR   |  |
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| PROGRAM OF STUDY (FOR STUDENTS OF 4TH YEAR)  |  |
| <b>Full (Hun) name of the subject: Népegészségtan (elmélet) ), Népegészségtan (gyakorlat)</b>  |  |
| <b>Program: Undivided program (pharmaceutical)</b>   |  |
| <b>Schedule: full-time</b>   |  |
| <b>Short name of the subject:</b>  |  |
| <b>English name of the subject: Public Health (theory), Public Health (practice)</b>   |  |
| <b>German name of the subject: Gesundheitslehre (Vorlesung), Gesundheitslehre (Praktikum)</b>  |  |
| <b>Type of registration: obligatory/obligatory elective/elective/criteria requirement</b>  |  |
| <b>Neptun code of the subject: GYKNEI091E1A, GYKNEI091G1A</b>  |  |
| <b>Responsible Department: Semmelweis University, Institute of Preventive Medicine and Public Health</b>   |  |
| <b>Responsible tutor</b><br>Ferenc Horváth MD<br><br><b>Contact information:</b><br>1089 Budapest, Nagyvárad tér 4. 13. em<br>- <b>phone:</b> +36-20-825-0596<br>- <b>email:</b> horvath.ferenc@semmelweis.hu  | <b>Title, academic degree:</b><br>assistant lecturer   |
| <b>Name of the persons responsible for the teaching of the subject:</b><br>András Terebessy<br>Ferenc Horváth<br>Vince Pongor<br>Dorottya Árva<br>Norbert Dósa<br>Dávid Major<br>Kata Pártos<br>Noémi Mózes  | <b>Title, academic degree:</b><br>senior lecturer, PhD<br>assistant lecturer<br>senior lecturer, PhD<br>resident, MD<br>resident, MD<br>resident, MD<br>resident, MD<br>senior lecturer, PhD |
| <b>Class per week:</b> 2 hours lectures<br>2 hours practices   | <b>Credit point(s):</b> 2 credits lectures<br>2 credits practices  |
| <b>Professional content, intent of acquirement and it's function in order to implement the goals of the program:</b><br>Acquire skills in qualitative assessment of different epidemiological studies, comprehensive and comprehensible reading of the scientific evidence-based literature. Acquire basic statistical skills. Design and conduct research, choosing the most appropriate epidemiological methods. Conducting individual health promotion based on key lifestyle factors and learning the basics of community health promotion. Apply practical knowledge of epidemiology and infection control.   |  |
| <b>Short description of the subject:</b><br>Public health deals with issues affecting human health at the population level. As an applied science, its basic aim is to preserve and improve health and prevent disease. To achieve these objectives, public health integrates several disciplines. Epidemiology introduces students to the prevention of communicable diseases, with a particular focus on infection control. Classical public health describes the role of environmental factors in the development of disease, the clinical aspects of which are nowadays dealt with in environmental medicine. The main aim of occupational medicine is to protect the health of employees by preventing occupational diseases. Our professional background is strengthened by the fact that our Institute merged with the Department of Occupational and Environmental Medicine of the University in 2010. In addition to disease prevention, the idea of health promotion was pioneered in the second half of the 20th century with the formulation of the "new public health". Our aim is to enable future pharmacists to carry out individual health promotion and to be familiar with the concept of community health promotion. For all these activities, the acquisition and use of epidemiology as a methodology of public health is essential. Our aim is to familiarise students with the application of health promotion and prevention at the population and individual level, preparing them for practice. |  |

| <b>Course data</b>  |                                |                                 |                                |                            |   |  |                       |
|---|--------------------------------|---------------------------------|--------------------------------|----------------------------|---|--|-----------------------|
| <b>Recommend ed term</b>  | <b>Contact hours (lecture)</b> | <b>Contact hours (practice)</b> | <b>Contact hours (seminar)</b> | <b>Individual lectures</b> | <b>Total number of contact hours/semester</b> | <b>Normal course offer</b>   | <b>Consult ations</b> |
| 8th semester  | 28                             | 28                              | -                              | -                          | 56  | Autumn semester*<br><u>Spring semester</u><br>Both semesters<br>(* Please underline) |                       |
| <b>Program of semester**</b>  |                                |                                 |                                |                            |   |  |                       |
| <p><b>Topics of theoretical classes (pro week):</b></p> <p>Week 1: History of Hungarian medicine/public health. Definition of health, levels of prevention. Theoretical foundations of health promotion. The concept and functioning of public health</p> <p>Week 2: Health determinants. Health status of the Hungarian population. Health determinants in Hungary. Principles of health policy</p> <p>Week 3: Epidemiology and prevention of smoking and smoking-related diseases</p> <p>Week 4: Epidemiology and prevention of cardiovascular diseases. Epidemiology and prevention of cancer</p> <p>Week 5: Epidemiology and prevention of respiratory diseases. Thyroid diseases. Vulnerable groups</p> <p>Week 6: Mental health. Ageing</p> <p>Week 7: Obesitas//Diabetes. Physical activity</p> <p>Week 8: Epidemiology of communicable diseases. Vaccinations</p> <p>Week 9: Infection control. Nosocomial infections</p> <p>Week 10: Nutritional status and dietary habits of the Hungarian population. Food safety</p> <p>Week 11: Environmental health: climate change, environmental health effects of air. Environmental health: soil, water</p> <p>Week 12: Chemical safety and toxicology. Ionising radiation, types, effects, limits</p> <p>Week 13: Occupational health. Maternal, infant, child and adolescent health, health inspector network and school health</p> <p>Week 14: Structure, financing and administration of health and public health in Hungary. Health policy. Quality assurance and quality improvement in health care</p> |                                |                                 |                                |                            |   |  |                       |
| <p><b>Topics of practical classes (pro week):</b></p> <p>Week 1: Introduction. Demography</p> <p>Week 2: Epidemiology. Morbidity measurement (incidence, prevalence). Risk and causality (risk indicators). Epidemiological study types (descriptive studies, analytical studies: cross-sectional, cohort, case-control)</p> <p>Week 3: Screening tests (population) for public health purposes. Evaluation of screening tests (sensitivity, specificity, predictive values, ROC curve)</p> <p>Week 4: Interventional studies (RCTs). Meta-analyses. Critical reading</p> <p>Week 5: Design, organisation and evaluation of health promotion programmes.</p> <p>Week 6: Smoking and minimal intervention</p> <p>Week 7: Alcohol SBI (screening and brief intervention)</p> <p>Week 8: Physical activity/movement recommendations.</p> <p>Week 9: Mental health, mental hygiene. Prevention of illicit drug use</p> <p>Week 10: Preparing an individual health plan</p> <p>Week 11: Epidemiological concepts. Epidemiology system. Epidemiological investigation</p> <p>Week 12: Practical knowledge of vaccination</p> <p>Week 13: Case studies in environmental and occupational health</p> <p>Week 14: Practical exam</p>   |                                |                                 |                                |                            |   |  |                       |
| <p><b>Other subjects (both compulsory and optional) relating to the transversal issues of the subject. Possible overlaps between subjects:</b></p>  |                                |                                 |                                |                            |   |  |                       |
| <p><b>Schedule of consultations:</b> if necessary, in agreement with the teacher</p>  |                                |                                 |                                |                            |   |  |                       |
| <b>Course requirements</b>  |                                |                                 |                                |                            |   |  |                       |

**Prerequisites:** Basic Medical Pathophysiology II., Dietetics

**Conditions of attending the classes, amount of acceptable absents, way of presentation of leave, opportunity for makeup:** In order to obtain a signature, the student must meet at least 75% of the attendance in the practical sessions and seminars. This means 11 completed practicals for 14 practicals (the 3 'allowed' absences do not need to be certified). Make-ups can be made on another practice in the same week

**The grading method; the conditions for getting the signature; the number, topic(s) and date(s) of the mid-term assessments, (reports, term tests), and the process in which they contribute to the final grade; and the possibility of their retake or their upgrading retake (as provided in §§ 25-28 of the STUDY AND EXAMINATION REGULATIONS):**

Week 14, a practical exam on the practical material. Failed practical examinations can be made up until the end of the first week of the examination period, in agreement with the trainer, up to a maximum of 2 times.

**Requirements of signature(as provided for in STUDY AND EXAMINATION REGULATIONS § 29):**

The condition for obtaining a signature is that the student meets the attendance and participation requirement of at least 75% in practical sessions and seminars.

**Number and type of projects students have to perform independently during the semester and their deadlines:**

**Type of the semester-end examination:** signature\*/practical grade\*/ comprehensive examination\*/final/end-term examination\*

\* Please underline

**Examination requirements:** (list of topics, test examination topics, mandatory parameters, diagrams, concepts, list of calculations, practical skills, and project tasks recognised as examinations, criteria for completion and assessment): as published by the education-research department on the MOODLE interface by the start of the academic term

**Form of the semester-end examination:** written\*/oral\*/combined examination/**practical examination/the assessment of completing project work (according to STUDY AND EXAMINATION REGULATIONS 30.§)**\* (*Please underline*)

Practice: practical grade - oral

Lecture: semi-final - written

**The possibility and conditions for offering grades:**

**A list of the basic notes, textbooks, resources and literature that can be used to acquire the knowledge necessary to master the curriculum and to complete the assessments, ~~\*\*\*\*~~with exact description about which of them is required to acquire which part of the syllabus (e.g. description based on topics)), as well as the main technical and other aids and study aids that can be used:**

Public health e-learning material (<https://itc.semmelweis.hu/moodle/>)

**In the case of a subject lasting more than one semester, the position of the teaching/research department on the possibility of parallel enrolment and the conditions for admission\*\*\*\*:**

yes\*/no\*/on and individual assesment basis\* (*Please underline*)

**The course description was prepared by:**

Ferenc Horváth MD

**\*\* A tantárgy tematikáját oly módon kell meghatározni, hogy az lehetővé tegye más intézményben a kreditismerési döntéshozatalt, tartalmazza a megszerzendő ismeretek, elsajátítandó alkalmazási (rész)kézségek, (rész)kompetenciák és attitűdök leírását, reflektálva a szak képzési és kimeneti követelményeire.**