

2023/2024. ACADEMIC YEAR							
PROGRAM OF STUDY (FOR STUDENTS OF 1ST YEAR)							
<b>Full (Hungarian) name of the subject:</b> Gyógyszerésztörténet és propedeutika							
<b>Program:</b> Undivided program (pharmaceutical)							
<b>Schedule:</b> full-time							
<b>Short name of the subject:</b> History and Propaedeutics							
<b>English name of the subject:</b> History of Pharmaceutics and Propaedeutics							
<b>German name of the subject:</b> Pharmaziegeschichte und Propädeutik							
<b>Type of registration:</b> <u>obligatory</u> /obligatory elective/elective/criteria requirement							
<b>Neptun code of the subject:</b> GYKFMG153E1A							
<b>Responsible Department:</b> Department of Pharmacognosy							
<b>Responsible tutor</b> Dr. Eszter Riethmüller <b>Contact information:</b> - <b>email:</b> riethmuller.eszter@pharma.semmelweis-univ.hu				<b>Title, academic degree:</b> assistant professor, Ph.D.			
<b>Name of the persons responsible for the teaching of the subject:</b> Dr. Eszter Riethmüller				<b>Title, academic degree:</b> assistant professor, Ph.D.			
<b>Class per week:</b> 2 lectures				<b>Credit point(s):</b> 2			
<b>Professional content, intent of acquirement and its function in order to implement the goals of the program:</b> The main aim of the subject is to highlight the importance of life-long learning in pharmaceutical profession by giving students and understanding of the way in which the notion of pharmaceutical science changes by time. The subject also imparts general knowledge of drugs, pharmacies, pharmaceutical literature, and international organizations of healthcare.							
<b>Short description of the subject:</b> The course aims to show how the history of pharmaceutics is bond up with the development of many different sciences. It gives and understanding of the way in which the notion of pharmaceutical science changes as its methods evolve and scientific knowledge progresses. Therefore, the subject can give students a new relation to the scientific knowledge they possess and that they will gain in the following years of their studies. The purpose of Propaedeutics is to impart general knowledge of drugs including classification, naming, doses, utilization, pharmacopoeias, preparation of drugs, organization of drug supply. It also puts special emphasis on current global health issues and the role of the pharmacist and the international organizations in overcoming them.							
Course data							
Recommend ed term	Contact hours (lecture)	Contact hours (practice)	Contact hours (seminar)	Individu al lectures	Total number of contact hours/sem ester	Normal course offer	Consult ations
1st semester	28	-	-	-	28	<u>Autumn semester*</u> Spring semester Both semesters (* Please underline)	--

**Program of semester\*\***

**Topics of theoretical classes (pro week):**

1. week: Introduction. The place of the subject in the curriculum. The multidisciplinary nature of pharmacy.
2. week: The role and importance of history of science in understanding the notion and development of science. The structure of scientific revolutions. Distinction between science and pseudoscience.
3. week: The endless evolution of medical science and medical technology: from prehistoric times to present day and beyond I.
4. week: The endless evolution of medical science and medical technology: from prehistoric times to present day and beyond II.
5. week: The impact of the development of natural sciences on drug therapy: what has changed over time and what has not.
6. week: How new medicines are born: evolution of drug discovery, drug discovery today.
7. week: Drugs on the market today: classification based on the origin, pharmaceutical action, way of application, and formulation.
8. week: Drugs and doses. Introduction to pharmacokinetics.
9. week: Introduction to pharmaceutical quality assurance. The impact of technological development on the quality and safety of medicines.
10. week: Pharmacies in Hungary: premises, personnel, ordering of drug preparations, pharmaceutical literature.
11. week: Pharmacy practice around the world.
12. week: Global health issues I.: The role of international organizations of healthcare: historical and current issues, future challenges.
13. week: Global health issues II.: Prevention of drug abuse. Narcotic controls.
14. week: Consultation

**Topics of practical classes (pro week): -**

**Schedule of consultations:** On last week's lecture

**Course requirements**

**Prerequisites:** -

**Conditions of attending the classes, amount of acceptable absents, way of presentation of leave, opportunity for makeup:** Based on the current Study and Exam requirements

**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):**

**Number, topics, and dates of tests during the semester, opportunities of makeup and improvement of results\*\*\*:** -

**Requirements of signature(as provided for in STUDY AND EXAMINATION REGULATIONS § 29):**  
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**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\*/semi-final\*/final\* (*Please underline*)

**Examination requirements:** 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*)

**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:**

The knowledge required to complete both the written and the oral examinations can be acquired from students' own notes taken during the lectures and from the slides of these lectures available in the moodle. The titles of the lectures corresponding to each oral examination topic are listed below:

1. The evolution of medical science: Prehistoric and Ancient medicine - The endless evolution of medical science and medical technology: from prehistoric times to present day and beyond I.
2. The evolution of medical science: Medieval, Modern and Contemporary medicine - The endless evolution of medical science and medical technology: from prehistoric times to present day and beyond II.
3. The evolution of drug therapy - The impact of the development of natural sciences on drug therapy: what has changed over time and what has not.
4. Classification of drugs based on the origin, way of application, and formulation - Drugs on the market today: classification based on the origin, pharmaceutical action, way of application, and formulation.
5. Drugs and doses. Pharmacokinetics - Drugs and doses. Introduction to pharmacokinetics
6. Drug discovery - How new medicines are born: evolution of drug discovery, drug discovery today
7. Pharmaceutical quality assurance - Introduction to pharmaceutical quality assurance. The impact of technological development on the quality and safety of medicines.
8. Pharmacies: premises, personnel, ordering of drug preparations - Pharmacies in Hungary: premises, personnel, ordering of drug preparations, pharmaceutical literature
9. The international organizations of healthcare - Global health issues I.: The role of international organizations of healthcare: historical and current issues, future challenges
10. Prevention of drug abuse. Narcotic controls - Global health issues II.: Prevention of drug abuse. Narcotic controls

**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 assessment basis\* (*Please underline*)

**The course description was prepared by:** Dr. Eszter Riethmüller