

2023/2024. ACADEMIC YEAR

PROGRAM OF STUDY (FOR STUDENTS OF 4TH YEAR)

Full (Hun) name of the subject: FARMAKOÖKONÓMIA							
Program: Undivided program (pharmaceutical)							
Schedule: full time							
Short name of the subject:							
English name of the subject: Pharmacoeconomics (practice)							
German name of the subject: Pharmakoökonomie							
Type of registration: <u>obligatory</u>/obligatory elective/elective/criteria requirement							
Neptun code of the subject: GYKETE131G1A							
Responsible Department: Center for Health Technology Assessment							
Responsible tutor: Assoc. Prof. András Inotai				Title, academic degree: Assoc Prof.; Ph.D., DrHabil			
Contact information: - phone: 06/70 430-46-45 - email: inotai.andras@semmelweis.hu							
Name of the persons responsible for the teaching of the subject: Prof. Zoltán Kaló Assoc. Prof. Balázs Nagy Zsuzsanna Petykó				Title, academic degree: PhD, DrHabil PhD, DrHabil PhD candidate			
Class per week: 1x45 min (2x45 mins bi-weekly, 1x45 lecture followed by 1x45 practice)				Credit point(s): 1			
<p>Professional content, intent of acquirement and it's function in order to implement the goals of the program: Health technology assessment (HTA) is the evaluation of health technologies (including pharmaceuticals) from different perspectives (incl. clinical, economic, organizational, ethical etc.) to support health policy decision making at institutional-, and macro (i.e national) level. Practice-oriented teaching of basic health- and pharmacoeconomic knowledge for students enables them interpreting and determining the cost-effectiveness of health technologies (including pharmaceuticals), and understanding the principles of pharmaceutical pricing and reimbursement.</p> <p>Competencies acquired through the completion of the course: Command of key health economic terms, including: health technology assessment (HTA), steps of economic evaluations, measurement of health outcomes incl. health related quality of life, measurement of costs, pricing and reimbursement of pharmaceuticals, pharmaceutical policy</p>							
<p>Short description of the subject: Practice-oriented teaching of basic health- and pharmacoeconomic knowledge for students to enable them interpreting and determining the cost-effectiveness of pharmaceuticals, and understanding the principles of pharmaceutical pricing and reimbursement.</p>							
Course data							
Recommended term	Contact hours (lecture)	Contact hours (practice)	Contact hours (seminar)	Individual lectures	Total number of contact hours/semester	Normal course offer	Consultations
From 7th semester	7	7	0	0	14	Autumn semester* Spring semester Both semesters (* Please underline)	7 (bi-weekly 1x45 min lecture followed by 1x45 min practice: total 90 mins)

Program of semester**		
Topics of theoretical classes (pro biweek):		
Class	Topic	Lecturer
Week 1 45 min	Health care market and market failures Elements of health care system Financing health care	Zoltán Kaló
Week 3 45 min	Pharmacoeconomics, Health Technology Assessment, Classification of economic evaluations	Zoltán Kaló
Week 5 45 min	Steps of health economic evaluation I - Evidence synthesis, health outcome measurement (quality of life, utility, quality adjusted life years)	Zsuzsanna Petykó András Inotai
Week 7 45 min	Steps of health economic evaluation II – Measuring costs, decision rule (threshold, multicriteria decision analysis)	Balázs Nagy
Week 9 45 min	Health economic modelling (classification, applicability)	Balázs Nagy
Week 11 45 min	Pricing of original and generic medicines	András Inotai
Week 13 45 min	Pharmaceutical reimbursement system, cost control techniques	András Inotai
Evaluation Week 14	Test type exam	

Topics of practical classes (pro biweek):		
Class	Topic	Lecturer
Week 1 45 min	Health care market and market failures Elements of health care system Financing health care	Zoltán Kaló
Week 3 45 min	Pharmacoeconomics, Health Technology Assessment, Classification of economic evaluations	Zoltán Kaló
Week 5 45 min	Steps of health economic evaluation I - Evidence synthesis, health outcome measurement (quality of life, utility, quality adjusted life years)	Zsuzsanna Petykó, András Inotai
Week 7 45 min	Steps of health economic evaluation II – Measuring costs, decision rule (threshold, multicriteria decision analysis)	Balázs Nagy
Week 9 45 min	Health economic modelling (classification, applicability)	Balázs Nagy
Week 11 45 min	Pricing of original and generic medicines	András Inotai
Week 13 45 min	Pharmaceutical reimbursement system, cost control techniques	András Inotai
Evaluation Week 14	Test type exam	

Schedule of consultations: 90 mins bi-weekly (contact hours, 1x45 min lecture followed by 1x45 min practice)

Course requirements

Prerequisites:

Pharmacology and Toxicology I.
Statistics for Pharmacists
Basics of Economics

Conditions of attending the classes, amount of acceptable absents, way of presentation of leave, opportunity for makeup: Regular attendance is strongly recommended; however, it is not mandatory for semester acceptance. No attendance sheet will be used. Audio recordings of the classes will be available throughout the semester and will be shared on Moodle for students to make up for absences. No need to justify absence.

<p>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):</p>		
<p>Number, topics and dates of tests during the semester, opportunities of makeup and improvement of results***: NA</p>		
<p>Requirements of signature(as provided for in STUDY AND EXAMINATION REGULATIONS § 29): No further requirement is applicable for the signature</p>		
<p>Number and type of projects students have to perform independently during the semester and their deadlines: NA</p>		
<p>Type of the semester-end examination: <u>signature*/practical grade*/semi-final*/final*</u> (<i>Please underline</i>)</p> <p>Examination requirements: as published by the education-research department on the MOODLE interface by the start of the academic term. Test-type written (Moodle based) classroom exam of the entire semester curricula at week 14 (according to semester schedule), opportunity for correction: week 1 of exam period. Exam schedule to be disclosed during the first contact class. Duration 45 mins/40 test type questions incl. true/false, simple choice, multiple correct answer quiz question. Min. 40% is required to pass. Detailed technical information and test tutorial will be shared on Moodle.</p>		
<p>Form of the semester-end examination: <u>written*/oral*/combined examination/practical examination/the assessment of completing project work (according to STUDY AND EXAMINATION REGULATIONS 30.§)*</u> (<i>Please underline</i>)</p> <p>Test-type written (Moodle based) classroom exam of the entire semester curricula at week 14 (according to semester schedule), opportunity for correction: week 1 of exam period. Exam schedule to be disclosed during the first contact class. Duration 45 mins/40 test type questions incl. true/false, simple choice, multiple correct answer quiz question. Min. 40% is required to pass. Detailed technical information and test tutorial will be shared on Moodle.</p>		
<p><i>Test result (%)</i></p>	<p><i>Pharmacy students (compulsory)</i></p>	<p><i>Medical students (elective)</i></p>
85-100	5 (excellent)	Distinction
70-84.99	4 (good)	Distinction
55-69.99	3 (average)	Merit
40-54.99	2 (satisfactory)	Merit
0-39.99	1 (unsatisfactory)	Fail
<p>The possibility and conditions for offering grades: NA</p>		
<p>List of teaching materials: slide decks and audio recordings of the classes (available throughout the semester), compulsory and recommended reading materials, test tutorial for the entire semester curricula. All materials are uploaded to Moodle and assigned to be-weekly classes.</p>		
<p>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: slide decks and audio recordings of the classes (available throughout the semester), compulsory and recommended reading materials, test tutorial for the entire semester curricula. All materials are uploaded to Moodle and assigned to be-weekly classes.</p>		

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: András Inotai

**** 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.**