

Semmelweis University
Faculty of Pharmaceutical Sciences

The new curriculum of the credit-based training from the 2025/2026 academic year for students enrolled for 4th-year

1. semester								
Neptun Subject ID	Subject	Lecture (hour/week)	Practice (hour/week)	Credit	Examination		Prerequisite(s)	Prerequisite(s) code
GYKGYK320E1A	General and Inorganic Chemistry I.	3,0	4,0	7	semi-final	obligatory	-	-
GYKDEI107G1A	Informatics	0,0	2,0	2	practical mark	obligatory	-	-
GYKFIZ267E1A	Physical basics of Biophysics	1,0	0,0	1	semi-final	obligatory	-	-
GYKFIZ268E1A	Biophysics I.	1,5	2,5	4	semi-final	obligatory	-	-
GYKGEN269E1A	Biology I.	2,0	2,0	4	semi-final	obligatory	-	-
GYKOXI270G1A	First Aid	0,3	0,7	1	practical mark	obligatory	-	-
GYKNYE111G1A	The Latin basics of pharmaceutical terminology	0,0	2,0	2	practical mark	obligatory	-	-
GYKGYH271G1A	Mathematics for Pharmacists	2,0	2,0	4	practical mark	obligatory	-	-
GYKEGY113E1A	Introduction to Pharmaceutical Studies (methodology, law)	1,0	0,0	1	semi-final	obligatory	-	-
GYKFMG153E1A	History of Pharmaceutics and Propedeutics	2,0	0,0	2	semi-final	obligatory	-	-
GYKANG071E1A	Principles of Professional Ethics I.	0,0	0,0	0	signature	criterion	-	-
GYKTSI116G1A	Physical Education I.	0,0	1,0	0	signature	criterion	-	-
GYKNYE306G1A	Hungarian Pharmaceutical Terminology I.	0,0	2,0	0	signature	obligatory	-	-
Total:		12,8	18,2	28				
GYSGYK322G1A	Basics of General Chemistry	0	2	2	practical mark	elective	-	-

2. semester								
Neptun Subject ID	Subject	Lecture (hour/week)	Practice (hour/week)	Credit	Examination		Prerequisite(s)	Prerequisite(s) code
GYKGYK320E2A	General and Inorganic Chemistry II.	3,0	0,0	3	semi-final	obligatory	General and Inorganic Chemistry I.	GYKGYK320E1A
GYKGYK321G1A	Analytical Chemistry I.	2,0	4,0	6	practical mark	obligatory	General and Inorganic Chemistry I. Introd. to Pharmaceutical Studies Mathematics for Pharmacists	GYKGYK320E1A GYKEGY113E1A GYKGYH271G1A
GYKANT272E1A	Anatomy	2,0	2,0	2	semi-final	obligatory	Biology I. The Latin basics of pharmaceutical terminology	GYKGEN269E1A GYKNYE111G1A
GYKFIZ268E2A	Biophysics II.	1,5	2,5	4	final*	obligatory	Biophysics I. Physical basis of Biophysics	GYKFIZ268E1A GYKFIZ267E1A
GYKGEN269E2A	Biology II.	2,0	2,0	4	final*	obligatory	Biology I.	GYKGEN269E1A
GYKNYE119G1A	Pharmaceutical and medical terminology	0,0	2,0	1	practical mark	obligatory	The Latin basics of pharmaceutical terminology	GYKNYE111G1A
GYKMAG120G1A	Communication and Information Networks	1,0	1,0	2	practical mark	obligatory	Introd. to Pharmaceutical Studies	GYKEGY113E1A
GYKEGY247E1A	Basics of Economics	1,0	0,0	1	semi-final	obligatory	Introd. to pharmaceutical studies, Mathematics for pharmacists	GYKEGY113E1A GYKGYH271G1A
GYKGYI122G1A	Physical Chemistry for Pharmacists	2,0	2,0	4	practical mark	obligatory	General and Inorganic Chemistry I. Mathematics for Pharmacists	GYKGYK320E1A GYKGYH271G1A
GYKNYE306G2A	Hungarian Pharmaceutical Terminology II.	0,0	2,0	0	signature	obligatory	Hungarian Pharmaceutical Term. I.	GYKNYE306G1A
GYKTSI116G2A	Physical Education II.	0,0	1,0	0	signature	criterion	-	-
Total:		14,5	18,5	27				
GYSGYK323E1A	Calculation problems in general and inorganic chemistry	2	0	2	semi-final	elective	-	-

3. semester								
Neptun Subject ID	Subject	Lecture (hour/week)	Practice (hour/week)	Credit	Examination		Prerequisite(s)	Prerequisite(s) code
GYKGYK321E2A	Analytical Chemistry II.	4,0	4,0	8	final*	obligatory	Analytical chemistry I. General and Inorganic Chemistry II.	GYKGYK321G1A GYKGYK320E2A
GYKBMT276G1A	Biochemistry I.	2,5	0,5	2	practical mark	obligatory	General and Inorganic Chemistry II. Biology II.	GYKGYK320E2A GYKGEN269E2A
GYKGEN070E1A	Basic Immunology	2,0	0,0	2	semi-final	obligatory	Biology II.	GYKGEN269E2A
GYKTLM275E1A	Physiology I.	5,0	2,0	5	semi-final	obligatory	Anatomy I. Biology II.	GYKANT272E1A GYKGEN269E2A
GYKGYI072G1A	Colloid Chemistry	2,0	2,0	4	practical mark	obligatory	Physical Chemistry for Pharmacists Biophysics II.	GYKGYI122G1A GYKFIZ268E2A
GYKSZK274E1A	Organic Chemistry I.	4,0	4,0	8	semi-final	obligatory	General and Inorganic Chemistry II.	GYKGYK320E2A
GYKTSI116G3A	Physical Education III.	0,0	1,0	0	signature	criterion	-	-
GYKNYE306G3A	Hungarian Pharmaceutical Terminology III.	0,0	2,0	1	practical mark	obligatory	Hungarian Pharmaceutical Term. II.	GYKNYE306G2A
Total:		19,5	15,5	30				
	Work within the Union of Research Students	0	1	1	practical mark	elective	-	-

4. semester								
Neptun Subject ID	Subject	Lecture (hour/week)	Practicice (hour/week)	Credit	Examination		Prerequisite(s)	Prerequisite(s) code
GYKBMT276E2A	Biochemistry II.	2	1	3	final*	obligatory	Biochemistry I.	GYKBMT276G1A
GYKSZK274E2A	Organic Chemistry II.	4	4	8	final*	obligatory	Organic Chemistry I.	GYKSZK274E1A
GYKGYI248G1A	Physiological Pharmaceutics and Pharmaceutical dosage forms	2	2	4	practical mark	obligatory	Physical Chemistry for Pharmacists History of Pharmaceutics and Propedeutics	GYKGYI122G1A GYKFMG153E1A GYKTLM275E1A
GYKTLM275E2A	Physiology II.	5	2	7	final*	obligatory	Physiology I. Biochemistry I.	GYKTLM275E1A GYKBMT276G1A
GYKGYI078G1A	Nanotechnology	2	2	4	practical mark	obligatory	Colloid Chemistry	GYKGYI072G1A
GYKANG238G1A	Pharmacy Practice I.	0	20 hour/semester	0	signature	obligatory	Physical Chemistry for Pharmacist Pharmaceutical and medical terminology	GYKGYI122G1A GYKNYE119G1A
GYKNYE306G4A	Hungarian Pharmaceutical Terminology IV.	0	2	3	final*	obligatory	Hungarian Pharmaceutical Term. III.	GYKNYE306G3A
GYKTSI116G4A	Physical Education IV.	0	1	0	signature	criterion	-	-
Total:		15	14 20 hour/semester	29				
GYSSZG234G4A	Summer Practice I.	0	4 week (40 hour/week)	4	practical mark	elective	Colloid Chemistry Physiology I.	GYKGYI072G1A GYKTLM275E1A
GYSGYK326E1A	Bioinorganic Chemistry (theory)	3	0	2	semi-final	elective	Analytical Chemistry II.	GYKASK273E2A
GYSSZK207E1A	Name Reaction in Organic Chemistry (theory)	2	0	2	semi-final	elective	Organic Chemistry I.	GYKSZK274E1A
	Work within the Union of Research Students	0	1	1	practical mark	elective	-	-

5. semester								
Neptun Subject ID	Subject	Lecture (hour/week)	Pracitce (hour/week)	Credit	Examination		Prerequisite(s)	Prerequisite(s) code
GYKFMG278E1A	Pharmaceutical Botany	2	2	3	semi-final	obligatory	Biochemistry I.	GYKBMT276G1A
GYKGYI168E1A	Dietetics	1	0	1	semi-final	obligatory	Physiology II. Biochemistry II.	GYKTLM275E2A GYKBMT276E2A
GYKGYI074E1A	Biotechnology	1	0	1	semi-final	obligatory	Biochemistry I.	GYKBMT276G1A
GYKGYI281G1A	Pharmaceutical Technology I.	2	3	5	practical mark	obligatory	Nanotechnology Physiological Pharmaceutics and Pharmaceutical dosage forms Pharmaceutical and medical terminology	GYKGYI078G1A GYKGYI248G1A GYKNYE119G1A
GYKGYK279E1A	Pharmaceutical Chemistry and Analysis I.	4	4	8	semi-final	obligatory	Analytical Chemistry II., Organic Chemistry II.	GYKGYK321E2A GYKSZK274E2A
GYKMIK280E1A	Pharmaceutical Microbiology	3	2	4	semi-final	obligatory	Basic Immunology	GYKGEN070E1A
GYKGYH128G1A	Basic Medical Pathophysiology I.	2	1	2	practical mark	obligatory	Physiology II. Biochemistry II. First Aid	GYKTLM275E2A GYKBMT276E2A GYKOXI270G1A
GYKLMI082E1A	Clinical Chemistry and Laboratory Diagnostics	2	0	2	semi-final	obligatory	Physiology II. Biochemistry II.	GYKTLM275E2A GYKBMT276E2A
GYKGYI085E1A	Products of Veterinary Medicine	1	0	1	semi-final	obligatory	Physiological Pharmaceutics and Pharmaceutical dosage forms	GYKGYI248G1A
GYKTSI116G5A	Physical Education V.	0	1	0	signature	criterion	-	-
Total:		18	13	27				
	Work within the Union of Research Students	0	1	1	practical mark	elective	-	-

6. semester								
Neptun Subject ID	Subject	Lecture (hour/week)	Practice (hour/week)	Credit	Examination		Prerequisite(s)	Prerequisite(s) code
GYKGYH128E2A	Basic Medical Pathophysiology II.	2	1	3	final*	obligatory	Basic Medical Pathophysiology I. Pharmaceutical Microbiology Dietetics	GYKGYH128G1A GYKMIK280E1A GYKGYI168E1A
GYKFMG284G1A	Pharmacognosy I.	2	4	5	practical mark	obligatory	Pharmaceutical Botany	GYKFMG278E1A
GYKGYK279E2A	Pharmaceutical Chemistry and Analysis II.	4	4	7	final*	obligatory	Pharmaceutical Chemistry and Analysis I.	GYKGYK279E1A
GYKGYH283E1A	Pharmacology and Toxicology I.	2	2	4	semi-final	obligatory	Basic Medical Pathophysiology I., Physiological Pharmaceutics and Pharmaceutical dosage forms	GYKGYH128G1A GYKGYI248G1A
GYKGYI281E2A	Pharmaceutical Technology II.	2	6	6	semi-final	obligatory	Pharmaceutical Technology I., Pharmaceutical Chem. and Anal. I.	GYKGYI281G1A GYKGYK279E1A
GYKGYH282G1A	Statistics for Pharmacists	2	2	3	practical mark	obligatory	Mathematics for Pharmacists, Physiological Pharmaceutics and Pharmaceutical dosage forms Informatics	GYKGYH271G1A GYKGYI248G1A GYKDEI107G1A
GYKANG238G2A	Pharmacy Practice II.	0	20 hour/semester	0	signature	obligatory	Pharmaceutical Technology I., Pharmaceutical Chem. and Anal. I.	GYKGYI281G1A GYKGYK279E1A
GYKTSI116G6A	Physical Education VI.	0	1	0	signature	criterion	-	-
Total:		14	20 20 hour/semester	28				
GYSSZG239G4A	Summer Practice II.	0	4 week (40 hour/week)	4	practical mark	elective	Pharmaceutical Technology I.	GYKGYI281G1A
GYSFMG294E1A	Analytical applications of liquid chromatography	2	0	2	semi-final	elective	Analytical Chemistry II. Organic Chemistry II.	GYKGYK321E2A GYKSZK274E2A
	Work within the Union of Research Students	0	1	1	practical mark	elective	-	-

7. semester								
Neptun Subject ID	Subject	Lecture (hour/week)	Practice (hour/week)	Credit	Examination		Prerequisite(s)	Prerequisite(s) code
GYKFMG284E2A	Pharmacognosy II.	2,0	4,0	5	final*	obligatory	Pharmacognosy I.	GYKFMG284G1A
GYKGYK285E1A	Instrumental Pharmaceutical Analysis	2,0	5,0	6	semi-final	obligatory	Pharmaceutical Technology II., Pharmaceutical Chem. and Anal. II.	GYKGYI281E2A GYKGYK279E2A
GYKGYH283E2A	Pharmacology and Toxicology II.	3,0	2,0	5	semi-final	obligatory	Pharmacology and Toxicology I. Basic Medical Pathophysiology II.	GYKGYH283E1A GYKGYH128E2A
GYKGYI281E3A	Pharmaceutical Technology III.	2,0	8,0	7	semi-final	obligatory	Pharmaceutical Technology II.	GYKGYI281E2A
GYKGYI088E1A	Biological Drugs	2,0	0,0	2	semi-final	obligatory	Pharmaceutical Chem. and Anal. II. Pharmacology and Toxicology I. Biotechnology	GYKGYK279E2A GYKGYH283E1A GYKGYI074E1A
GYKEGY286E1A	Pharmacy Administration I.	2,0	0,0	2	semi-final	obligatory	History of Pharmaceutics and Propedeutics Pharmaceutical Technology II.	GYKFMG153E1A GYKGYI281E2A
GYKETE131G1A	Pharmacoeconomics	0,5	0,5	1	practical mark	obligatory	Pharmacology and Toxicology I. Basics of Economy Statistics for Pharmacists	GYKGYH283E1A GYKEGY247E1A GYKGYH282G1A
GYKTSI116G7A	Physical Education VII.	0,0	1,0	0	signature	criterion	-	-
GYKFRM288E1A	Semmelweis Symposium	24/sem	0	0	signature	criterion	-	-
Total:		13,5 24/sem	20,5	28				
GYSGYI300E1A	Industrial pharmaceutical Technology I.	2	0	2	practical mark	elective	Pharmaceutical Technology II. Pharmaceutical Chem. and Analysis II.	GYKGYI281E2A GYKGYK279E2A
	Work within the Union of Research Students	0	1	1	practical mark	elective	-	-

8. semester								
Neptun Subject ID	Subject	Lecture (hour/week)	Pracitce (hour/week)	Credit	Examination		Prerequisite(s)	Prerequisite(s) code
GYKGYH283E3A	Pharmacology and Toxicology III.	3	2	6	final*	obligatory	Pharmacology and Toxicology II.	GYKGYH283E2A
GYKGYI281E4A	Pharmaceutical Technology IV.	2	8	10	final*	obligatory	Pharmaceutical Technology III.	GYKGYI281E3A
GYKEGY286E2A	Pharmacy Administration II.	2	2	4	final*	obligatory	Pharmaceutical Technology III., Pharmacy Administration I.	GYKGYI281E3A GYKEGY286E1A
GYKNEI287E1A	Public Health	2	2	4	semi-final	obligatory	Basic Medical Pathophysiology II., Dietetics	GYKGYH128E2A GYKGYI168E1A
GYKFMG092E1A	Phytotherapy	2	0	2	semi-final	obligatory	Pharmacognosy II.	GYKFMG284E2A
GYKSZD132G1A	Diploma Work I.	0	2	0	signature	criterion	Pharmacology and Toxicology I. Pharmaceutical Technology II. Pharmacognosy II.	GYKGYH283E1A GYKGYI281E2A GYKFMG284E2A
GYKTSI116G8A	Physical Education VIII.	0	1	0	signature	criterion	-	-
Total:		11	17	26				
GYSGYI300E2A	Industrial pharmaceutical Technology II.	2	0	2	semi-final	elective	Pharmaceutical Technology III. Industrial pharmaceutical Technology I.	GYKGYI281E3A GYSGYI300E1A
GYSGYH302E1A	Preclinical and clinical neuropsychopharmacology and psychopharmacogenetics	1	0	1	semi-final	elective	Pharmacology and Toxicology I.	GYKGYH283E1A
	Work within the Union of Research Students	0	1	1	practical mark	elective	-	-

9. semester								
Neptun Subject ID	Subject	Lecture (hour/week)	Practice (hour/week)	Credit	Examination		Prerequisite(s)	Prerequisite(s) code
GYKANG133G1A	Compulsory Practice Before the Board Exam I.	0	40	8	practical mark	obligatory	Pharmacology and Toxicology III., Pharmaceutical Technology IV., Pharmacy Administration II.	GYKGYH283E3A GYKGYI281E4A GYKEGY286E2A
GYKGYH250E1A	Drug Therapy	2	3	4	semi-final	obligatory	Pharmacology and Toxicology III., Pharmaceutical Technology IV., Phytotherapy	GYKGYH283E3A GYKGYI281E4A GYKFMG092E1A
GYKEGY096E1A	Pharmaceutical Care	2	3	4	semi-final	obligatory	Pharmacology and Toxicology III., Pharmaceutical Technology IV.	GYKGYH283E3A GYKGYI281E4A
GYKGYI251G1A	Clinical Pharmacokinetics and Biopharmacy	2	3	3	semi-final	obligatory	Pharmacology and Toxicology III., Pharmaceutical Technology IV.	GYKGYH283E3A GYKGYI281E4A
GYKMAG098G1A	Pharmaceutical Communication and Integrated Consulting	1	2	2	practical mark	obligatory	Pharmacology and Toxicology III., Pharmacy Administration I.	GYKGYH283E3A GYKEGY286E1A
GYKDEI099G1A	Pharmaceutical informatics	1	1	1	practical mark	obligatory	Pharmaceutical Technology IV., Pharmacy Administration I.	GYKGYI281E4A GYKEGY286E1A
GYKEGY093E1A	Pharmaceutical management	1	1	2	semi-final	obligatory	Pharmacoeconomics	GYKETE131G1A
GYKEGY100E1A	Clinical Pharmaceutics	1.2	1.2	1	semi-final	obligatory	Pharmacology and Toxicology III., Pharmaceutical Technology IV	GYKGYH283E3A GYKGYI281E4A
GYKMAG101E1A	Pharmaceutical Ethics and Sociology	1	1	1	semi-final	obligatory	Pharmacology and Toxicology III., History of Pharmaceutics and Prop.	GYKGYH283E3A GYKFMG153E1A
GYKSZD132G2A	Diploma Work II.	0	5	0	signature	criterion	Diploma Work I.	GYKSZD132G1A
GYKTSI116G9A	Physical Education IX.	0	1	0	signature	criterion	-	-
GYKGYI102G1A	Drug Licensing	12/sem.	12/sem.	1	practical mark	obligatory	Pharmaceutical Technology IV., Pharmacy Administration I.	GYKGYI281E4A GYKEGY286E1A
GYKGYI103G1A	Pharmacovigilance and pharmacoepidemiology	4/sem.	4/sem.	1	practical mark	obligatory	Pharmacology and Toxicology III.	GYKGYH283E3A
GYKGYI104G1A	Quality Assurance	4/sem.	4/sem.	1	practical mark	obligatory	Pharmaceutical Technology IV., Pharmacy Administration I.	GYKGYI281E4A GYKEGY286E1A
GYKGYI105G1A	Druginnovation and clinical examinations	8/sem.	8/sem.	1	practical mark	obligatory	Pharmacology and Toxicology III., Pharmaceutical Technology IV	GYKGYH283E3A GYKGYI281E4A
Total:		11.2 28/semester	40/week 21.2 28/semester	30				
	Work within the Union of Research Students	0	1	1	practical mark	elective	-	-

10. semester								
Neptun Subject ID	Subject	Lecture (hour/week)	Pracitce (hour/week)	Credit	Examination		Prerequisite(s)	Prerequisite(s) code
GYKANG133G2A	Compulsory Practice Before the Board Exam (4 months) II.	0	40	16	practical mark	obligatory	Compulsory Practice I.	GYKANG133G1A
GYKSZD134E1A	Diploma Defence	1	0	10	final*	obligatory	Diploma Work II.	GYKSZD132G2A
GYKANG071E2A	Principles of professional ethics II.	0	0	0	signature	criterion	-	-
Total:		1/semester	40	26				
GYSGYI305E1A	Pharmaceutical Compounding	2	0	2	semi-final	elective	Pharmaceutical Technology IV.	GYKGYI281E4A

*Counts to the qualification of the diploma