Semmelweis University
Faculty of Pharmaceutical Sciences
The new curriculum of the credit-based training from the 2026/2027 academic year forstudents enrolled for first year

1. semester								
Neptun Subject ID	**Subject**	**Lecture (hour/week)**	**Pracitce (hour/week)**	**Credit**	**Examination**		**Prerequisite(s)**	**Prerequisite(s) code**
GYKGYK329E1A	General Chemistry	2	4	6	end-term examination*	obligatory	-	-
GYKDEI107G1A	Informatics and artificial intelligence	0	2	2	practical mark	obligatory	-	-
GYKGYI330E1A	Physics for Pharmacist	1,5	2	4	end-term examination*	obligatory	-	-
GYKGEN331E1A	Cell Biology	2	2	3	end-term examination	obligatory	-	-
GYKOXI270G1A	First Aid	0,3	0,7	1	practical mark	obligatory	-	-
GYKNYE111G1A	The Latin basics of pharmaceutical terminology	0	2	2	practical mark	obligatory	-	-
GYKGYH271G1A	Mathemathics for Pharmacists	2	2	4	practical mark	obligatory	-	-
GYKEGY332E1A	Pharmaceutical Propedeutics	1,5	0,5	2	end-term examination	obligatory	-	-
GYKEGY333E1A	History of Pharmacy and Semmelweis University	1	1	2	end-term examination	obligatory	-	-
GYKMAG334G1A	Basic Communication	1	1	2	practical mark	obligatory		
GYKANG071E1A	Principles of Professional Ethics I.	0	0	0	signature	criterion	-	-
GYKTSI335G1A	Physical Education I.	0	1	1	practical mark	obligatory	-	-
GYKNYE306G1A	Hungarian Pharmaceutical Terminology I.	0	2	0	signature	obligatory	-	-
Total:		**11,3**	**20,2**	**29**				
GYSGYK322G1A	Basics of General Chemistry	0	2	2	practical mark	elective	-	-

2. semester								
Neptun Subject ID	**Subject**	**Lecture (hour/week)**	**Pracitce (hour/week)**	**Credit**	**Examination**		**Prerequisite(s)**	**Prerequisite(s) code**
GYKGYK336E1A	Inorganic Chemistry	2	2	3	end-term examination*	obligatory	General Chemistry	GYKGYK329E1A
GYKSZK337E1A	Organic Chemistry I.	4	4	7	end-term examination	obligatory	General Chemistry	GYKGYK329E1A
GYKANT272E1A	Anatomy	2	2	2	end-term examination	obligatory	Cell Biology The Latin basics of pharmaceutical terminology	GYKGEN331E1A GYKNYE111G1A
GYKFIZ338E1A	Pharmaceutical Biophysics	1,5	2,5	4	end-term examination*	obligatory	Physics for Pharmacist	GYKGYI330E1A
GYKGEN339E1A	Genetics	2	2	4	end-term examination	obligatory	Cell Biology	GYKGEN331E1A
GYKNYE119G1A	Pharmaceutical and medical terminology	0	2	1	practical mark	obligatory	The Latin basics of pharmaceutical terminology	GYKNYE111G1A
GYKEMK121E1A	Basics of Economics	1	0	1	end-term examination	obligatory	Mathematics for pharmacists	GYKGYH271G1A
GYKGYI340G1A	Physical Chemistry for Pharmacists	2	3	5	practical mark	obligatory	General Chemistry Physics for Pharmacist	GYKGYK329E1A GYKGYI330E1A
GYKNYE306G2A	Hungarian Pharmaceutical Terminology II.	0	2	0	signature	obligatory	Hungarian Pharmaceutical Term. I.	GYKNYE306G1A
GYKTSI335G2A	Physical Education II.	0	1	1	practical mark	obligatory	-	-
Total:		**14,5**	**20,5**	**28**				
GYSGYK341G1A	Calculation problems in general and inorganic chemistry	0	2	2	practical mark	elective	-	-

3. semester								
Neptun Subject ID	**Subject**	**Lecture (hour/week)**	**Pracitce (hour/week)**	**Credit**	**Examination**		**Prerequisite(s)**	**Prerequisite(s) code**
GYKGYK342E1A	Analytical Chemistry I.	4	4	6	end-term examination	obligatory	Inorganic Chemistry Mathemathics for Pharmacists	GYKGYK336E1A GYKGYH271G1A
GYKBMT343G1A	Biochemistry I.	3	1	4	practical mark	obligatory	Organic Chemistry I. Genetika	GYKSZK337E1A GYKGEN339E1A
GYKTLM275E1A	Physiology I.	5	2	5	end-term examination	obligatory	Anatomy I. Genetics	GYKANT272E1A GYKGEN339E1A
GYKGYI072G1A	Colloid Chemistry	2	2	4	practical mark	obligatory	Physical Chemistry for Pharmacists	GYKGYI340G1A
GYKSZK337E2A	Organic Chemistry II.	4	4	8	final*	obligatory	Organic Chemistry I.	GYKSZK337E1A
GYKTSI335G3A	Physical Education III.	0	1	1	practical mark	obligatory	-	-
GYKNYE306G3A	Hungarian Pharmaceutical Terminology III.	0	2	1	practical mark	obligatory	Hungarian Pharmaceutical Term. II.	GYKNYE306G2A
Total:		**18,0**	**16,0**	**29**				
	Work within the Union of Research Students	0	1	1	practical mark	elective	-	-

4. semester								
Neptun Subject ID	**Subject**	**Lecture (hour/week)**	**Pracitce (hour/week)**	**Credit**	**Examination**		**Prerequisite(s)**	**Prerequisite(s) code**
GYKBMT343E2A	Biochemistry II.	2	1	3	final*	obligatory	Biochemistry I.	GYKBMT343E2A
GYKGYK342E2A	Analytical Chemistry II.	2	4	6	final*	obligatory	Analytical Chemistry I.	GYKGYK342E1A
GYKGYI345E1A	Physiological Pharmaceutics and Pharmaceutical dosage forms	2	2	4	end-term examination*	obligatory	Physical Chemistry for Pharmacists Pharmaceutical Propedeutics	GYKGYI340G1A GYKEGY332E1A
GYKTLM275E2A	Physiology II.	5	2	7	final*	obligatory	Physiology I. Biochemistry I.	GYKTLM275E1A GYKBMT343E2A
GYKGEN070E1A	Basic Immunology (theory)	2	0	2	end-term examination	obligatory	Genetics	GYKGEN339E1A
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	GYKGYI340G1A GYKNYE119G1A
GYKNYE306G4A	Hungarian Pharmaceutical Terminology IV.	0	2	3	final*	obligatory	Hungarian Pharmaceutical Term. III.	GYKNYE306G3A
GYKTSI335G4A	Physical Education IV.	0	1	1	practical mark	obligatory	-	-
Total:		**15**	**14 20 hour/semester**	**30**				
GYSSZG234G4A	Summer Practice I.	0	4 week (40 hour/week)	4	practical mark	elective	Colloid Chemistry Physiology I.	GYKGYI072G1A GYKTLM275E1A
GYSSZK207E1A	Name Reaction in Organic Chemistry (theory)	2	0	2	end-term examination	elective	Organic Chemistry I.	GYKSZK337E1A
	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	end-term examination	obligatory	Biochemistry I.	GYKBMT343E2A
GYKGYI168E1A	Dietetics	1	0	1	end-term examination	obligatory	Physiology II.	GYKTLM275E2A
GYKGYI074E1A	Biotechnology	1	0	1	end-term examination	obligatory	Biochemistry I.	GYKBMT343E2A
GYKGYI346G1A	Pharmaceutical Technology I.	2	4	5	practical mark	obligatory	Nanotechnology Physiological Pharmaceutics and Pharmaceutical dosage forms Pharmaceutical and medical terminology	GYKGYI078G1A GYKGYI345E1A GYKNYE119G1A
GYKGYI347G1A	Introduction to Industrial Pharmaceutics	1,5	0,5	2	practical mark	obligatory	Physiological Pharmaceutics and Pharmaceutical dosage forms History of Pharmacy and Semmelweis University	GYKGYI345E1A GYKEGY333E1A
GYKGYK348E1A	Pharmaceutical Chemistry and Analysis I.	4	4	7	end-term examination	obligatory	Analytical Chemistry II., Organic Chemistry II. Pharmaceutical Biophysics	GYKGYK342E2A GYKSZK337E2A GYKFIZ338E1A
GYKMIK280E1A	Pharmaceutical Microbiology	3	2	4	end-term examination*	obligatory	Basic Immunology	GYKGEN070E1A
GYKGYH128G1A	Basic Medical Pathophysiology I.	2	1	2	practical mark	obligatory	Physiology II. Biochemistry II. First Aid	GYKTLM275E2A GYKBMT343E2A GYKOXI270G1A
GYKLMI082E1A	Clinical Chemistry and Laboratory Diagnostics	2	0	2	end-term examination	obligatory	Physiology II. Biochemistry II.	GYKTLM275E2A GYKBMT343E2A
GYKGYI085E1A	Products of Veterinary Medicine	1	0	1	end-term examination	obligatory	Physiological Pharmaceutics and Pharmaceutical dosage forms	GYKGYI345E1A
GYKTSI116G5A	Physical Education V.	0	1	0	signature	criterion	-	-
Total:		**19,5**	**14,5**	**28**				
	Work within the Union of Research Students	0	1	1	practical mark	elective	-	-

6. semester								
Neptun Subject ID	**Subject**	**Lecture (hour/week)**	**Pracitce (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
GYKGYK348E2A	Pharmaceutical Chemistry and Analysis II.	4	4	7	final*	obligatory	Pharmaceutical Chemistry and Analysis I.	GYKGYK348E1A
GYKGYH349E1A	Pharmacology and Toxicology I.	2	3	5	end-term examination	obligatory	Basic Medical Pathophysiology I., Physiological Pharmaceutics and Pharmaceutical dosage forms	GYKGYH128G1A GYKGYI345E1A
GYKGYI346E2A	Pharmaceutical Technology II.	2	6	5	end-term examination	obligatory	Pharmaceutical Technology I., Pharmaceutical Chem. and Anal. I.	GYKGYI346G1A GYKGYK348E1A
GYKGYH282G1A	Statistics for Pharmacists	2	2	3	practical mark	obligatory	Mathematics for Pharmacists, Physiological Pharmaceutics and Pharmaceutical dosage forms Informatics	GYKGYH271G1A GYKGYI345E1A GYKDEI107G1A
GYKANG238G2A	Pharmacy Practice II.	0	20 hour/semester	0	signature	obligatory	Pharmaceutical Technology I	GYKGYI346G1A
GYKTSI116G6A	Physical Education VI.	0	1	0	signature	criterion	-	-
Total:		**14**	**21 20 hour/semester**	**28**				
GYSSZG239G4A	Summer Practice II.	0	4 week (40 hour/week)	4	practical mark	elective	Pharmaceutical Technology I.	GYKGYI346G1A
GYSGYK326E1A	Bioinorganic Chemistry (theory)	3	0	2	end-term examination	elective	Analytical Chemistry II.	GYKGYK342E2A
GYSFMG294E1A	Analytical applications of liquid chromatography	2	0	2	end-term examination	elective	Analytical Chemistry II.	GYKGYK342E2A
GYSGYI350G1A	Industrial pharmaceutical Technology	1	1	2	practical mark	elective	Pharmaceutical Technology I.	GYKGYI346G1A
	Work within the Union of Research Students	0	1	1	practical mark	elective	-	-

7. semester								
Neptun Subject ID	**Subject**	**Lecture (hour/week)**	**Pracitce (hour/week)**	**Credit**	**Examination**		**Prerequisite(s)**	**Prerequisite(s) code**
GYKFMG284E2A	Pharmacognosy II.	2	4	5	final*	obligatory	Pharmacognosy I.	GYKFMG284G1A
GYKGYK351E1A	Quality Control and Analysis of Drugs	2	4	6	end-term examination*	obligatory	Pharmaceutical Technology II., Pharmaceutical Chem. and Anal. II. Introduction to Industrial Pharmaceutics	GYKGYI346E2A GYKGYK348E2A GYKGYI347G1A
GYKGYH349E2A	Pharmacology and Toxicology II.	3	2	5	end-term examination	obligatory	Pharmacology and Toxicology I. Basic Medical Pathophysiology II.	GYKGYH349E1A GYKGYH128E2A
GYKGYI346E3A	Pharmaceutical Technology III.	2	7	7	end-term examination	obligatory	Pharmaceutical Technology II.	GYKGYI346E2A
GYKGYI088E1A	Biological Drugs	2	0	2	end-term examination	obligatory	Pharmaceutical Chemistry and Analysis II. Pharmacology and Toxicology I. Biotechnology	GYKGYK348E2A GYKGYH349E1A GYKGYI074E1A
GYKEGY286E1A	Pharmacy Administration I.	2	0	2	end-term examination	obligatory	Pharmaceutical Propedeutics Pharmaceutical Technology II.	GYKEGY332E1A GYKGYI346E2A
GYKETE131G1A	Pharmacoeconomics	0,5	0,5	1	practical mark	obligatory	Pharmacology and Toxicology I. Basics of Economy Statistics for Pharmacists	GYKGYH349E1A GYKEGY247E1A GYKGYH282G1A
GYKTSI116G7A	Physical Education VII.	0	1	0	signature	criterion	-	-
GYKFRM288E1A	Semmelweis Symposium	24/sem	0	0	signature	criterion	-	-
Total:		**13,5 24/sem**	**18,5**	**28**				
	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**
GYKGYH349E3A	Pharmacology and Toxicology III.	3	2	6	final*	obligatory	Pharmacology and Toxicology II.	GYKGYH349E2A
GYKGYI346E4A	Pharmaceutical Technology IV.	2	8	10	final*	obligatory	Pharmaceutical Technology III.	GYKGYI346E3A
GYKEGY286E2A	Pharmacy Administration II.	2	2	4	final*	obligatory	Pharmaceutical Technology III., Pharmacy Administration I.	GYKGYI346E3A GYKEGY286E1M
GYKNEI352E1A	Public Health	2	2	3	end-term examination	obligatory	Basic Medical Pathophysiology II., Dietetics	GYKGYH128E2A GYKDIE080E1A
GYKMAG098G1A	Pharmaceutical Communication and Integrated Consulting	1	2	2	practical mark	obligatory	Pharmacy Administration I.	GYKEGY286E1A
GYKFMG092E1A	Phytotherapy	2	0	2	end-term examination*	obligatory	Pharmacognosy II.	GYKFMG284E2A
GYKSZD132G1A	Diploma Work I.	0	2	0	signature	criterion	Pharmacology and Toxicology I. Pharmaceutical Technology II. Pharmacognosy II.	GYKGYH349E1A GYKGYI346E2A GYKFMG284E2A
GYKTSI116G8A	Physical Education VIII.	0	1	0	signature	criterion	-	-
Total:		**12**	**19**	**27**				
GYSGYH324G1A	Preclinical and clinical neuropsychopharmacology and psychopharmacogenetics	0	1	1	practical mark	elective	Pharmacology and Toxicology I.	GYKGYH349E1A
	Work within the Union of Research Students	0	1	1	practical mark	elective	-	-

9. semester								
Neptun Subject ID	**Subject**	**Lecture (hour/week)**	**Pracitce (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.	GYKGYH349E3A GYKGYI346E4A GYKEGY286E2A
GYKGYH250E1A	Drug Therapy	2	3	4	end-term examination*	obligatory	Pharmacology and Toxicology III., Pharmaceutical Technology IV., Phytotherapy	GYKGYH349E3A GYKGYI346E4A GYKFMG092E1A
GYKEGY096E1A	Pharmaceutical Care	2	3	4	end-term examination*	obligatory	Pharmacology and Toxicology III., Pharmaceutical Technology IV.	GYKGYH349E3A GYKGYI346E4A
GYKGYI251G1A	Clinical Pharmacokinetics and Biopharmacy	2	3	3	end-term examination*	obligatory	Pharmacology and Toxicology III., Pharmaceutical Technology IV.	GYKGYH349E3A GYKGYI346E4A
GYKDEI099G1A	Pharmaceutical informatics	1	1	1	practical mark	obligatory	Pharmaceutical Technology IV., Pharmacy Administration I.	GYKGYI346E4A GYKEGY286E1A
GYKEGY093E1A	Pharmaceutical management	1	1	2	end-term examination	obligatory	Pharmacoeconomics	GYKETE131G1A
GYKEGY100E1A	Clinical Pharmaceutics	1.2	1.2	1	end-term examination*	obligatory	Pharmacology and Toxicology III., Pharmaceutical Technology IV.	GYKGYH349E3A GYKGYI346E4A
GYKMAG101E1A	Pharmaceutical Ethics and Sociology	1	1	1	end-term examination	obligatory	Pharmacology and Toxicology III., Pharmaceutical Propedeutics	GYKGYH349E3A GYKEGY332E1A
GYKGYI353G1A	Collaborative pharmacotherapy and interprofessional therapy management	1	0,5	1	practical mark	obligatory	Pharmacology and Toxicology III., Pharmaceutical Technology IV., Pharmacy Administration II.	GYKGYH349E3A GYKGYI346E4A GYKEGY286E2A
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	Introduction to Industrial Pharmaceutics Compulsory Practice Before the Board Exam I.	GYKGYI347G1A GYKANG133G1A
GYKGYI103G1A	Pharmacovigilance and pharmacoepidemiology	4/sem.	4/sem.	1	practical mark	obligatory	Introduction to Industrial Pharmaceutics Compulsory Practice Before the Board Exam I.	GYKGYI347G1A GYKANG133G1A
GYKGYI104G1A	Quality Assurance	4/sem.	4/sem.	1	practical mark	obligatory	Introduction to Industrial Pharmaceutics Compulsory Practice Before the Board Exam I.	GYKGYI347G1A GYKANG133G1A
GYKGYI105G1A	Druginnovation and clinical examinations	8/sem.	8/sem.	1	practical mark	obligatory	Introduction to Industrial Pharmaceutics Compulsory Practice Before the Board Exam I.	GYKGYI347G1A GYKANG133G1A
Total:		**11.2 28/semester**	**40/week 19,7 28/semester**	**29**				
	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	end-term examination	elective	Pharmaceutical Technology IV.	GYKGYI346E4A

*Counts to the qualification of the diploma