

**Semmelweis University**  
**Faculty of Pharmaceutical Sciences**

The curriculum of the credit-based system in the 2024/2025 academic year for students enrolled for fourth year

	Lecture (hour/week)	Practice (hour/week)	Credit
1. semester	11,5	18,5	27
2. semester	14,5	16,6	26
<b>Total:</b>			<b>53</b>

3. semester							
Neptun Subject ID	Subject	Lecture (hour/week)	Practice (hour/week)	Credit	Examination		Prerequisite(s)
GYKASK117E2A	Analytical Chemistry (theory) II.	4	0	4	semi-final	obligatory	Analytical chemistry I. Gen. and Inorganic Chemistry II.
GYKASK117G2A	Analytical Chemistry (practice) II.	0	4	4	practical mark	obligatory	Analytical chemistry I. Gen. and Inorganic Chemistry II.
GYKBMT069G1A	Biochemistry (theory+practice) I.	1,5	1,5	2	practical mark	obligatory	Gen. and Inorganic Chemistry II., Biology II.
GYKGEN070E1A	Basic Immunology (theory)	2	0	2	semi-final	obligatory	Biology II.
GYKTLM124E1A	Physiology (theory) I.	5	0	4	semi-final	obligatory	Anatomy Biology II.
GYKTLM124G1A	Physiology (practice) I.	0	2	1	practical mark	obligatory	Anatomy Biology II.
GYKGYI072G1A	Colloid Chemistry (theory+practice)	2	2	4	practical mark	obligatory	Physical Chem. for Pharmacists Biophysics II.
GYKSZK123E1A	Organic Chemistry (theory) I.	4	0	4	semi-final	obligatory	General and Inorganic Chemistry II.
GYKSZK123G1A	Organic Chemistry (practice) I.	0	4	4	practical mark	obligatory	General and Inorganic Chemistry II.
GYKTSI116G3A	Physical Education III.	0	1	0	signature	criterion	-
GYKNYE306G3A	Hungarian Pharmaceutical Terminology III.	0	2	1	practical mark	obligatory	Hungarian Pharmaceutical Terminology II.
<b>Total:</b>		<b>18,5</b>	<b>16,5</b>	<b>30</b>			
	Work within the Union of Research Students	0	1	1	practical mark	elective	-

4. semester							
Neptun Subject ID	Subject	Lecture (hour/week)	Practicce (hour/week)	Credit	Examination		Prerequisite(s)
GYKBMT069E2A	Biochemistry (theory+practice) II.	3	0	3	final*	obligatory	Biochemistry I., Organic Chemistry I.
GYKSZK123E2A	Organic Chemistry (theory) II.	4	0	4	semi-final	obligatory	Organic Chemistry I.
GYKSZK123G2A	Organic Chemistry (practice) II.	0	4	4	practical mark	obligatory	Organic Chemistry I.
GYKGYI248G1A	Physiological Pharmaceutics and Pharmaceutical dosage forms	2	2	4	practical mark	obligatory	Physiology (theory) I. Physical Chemistry for Pharmacists History of Pharmaceutics and Prop.
GYKTLM124E2A	Physiology (theory) II.	5	0	6	final*	obligatory	Physiology I., Biochemistry I.
GYKTLM124G2A	Physiology (practice) II.	0	2	1	practical mark	obligatory	Physiology I., Biochemistry I.
GYKGYI078G1A	Nanotechnology (theory+practice)	2	2	4	practical mark	obligatory	Colloid Chemistry
GYKANG238G1A	Pharmacy Practice I.	0	20 hour/semester	0	signature	obligatory	Physical Chemistry for Pharmacist Pharmaceutical Terminology
GYKNYE306G4A	Hungarian Pharmaceutical Terminology IV.	0	2	3	final*	obligatory	Hungarian Pharmaceutical Terminology III.
GYKTSI116G4A	Physical Education IV.	0	1	0	signature	criterion	-
<b>Total:</b>		<b>16</b>	<b>13</b> <b>20 hour/sem.</b>	<b>29</b>			
GYSSZG234G4A	Summer Practice I.	0	4 week (40 hour/week)	4	practical mark	elective	Colloid Chemistry Physiology I.
GYSASK291E1A	Bioinorganic Chemistry	3	0	2	semi-final	elective	Analytical Chemistry II.
GYSSZK207E1A	Name Reaction in Organic Chemistry (theory)	2	0	2	semi-final	elective	Organic Chemistry I.
	Work within the Union of Research Students	0	1	1	practical mark	elective	-

5. semester							
Neptun Subject ID	Subject	Lecture (hour/week)	Practicce (hour/week)	Credit	Examination		Prerequisite(s)
GYKFMG125E1A	Pharmaceutical Botany (theory)	2	0	2	semi-final	obligatory	Biochemistry I.
GYKFMG125G1A	Pharmaceutical Botany (practice)	0	2	1	practical mark	obligatory	Biochemistry I.
GYKGYI074E1A	Biotechnology (theory)	1	0	1	semi-final	obligatory	Biochemistry I.
GYKGYI168E1A	Dietetics (theory)	1	0	1	semi-final	obligatory	Physiology II., Biochemistry II.
GYKGYI249G1A	Pharmaceutical Technology (theory+practice) I.	2	3	5	practical mark	obligatory	Nanotechnology Physiological Pharmaceutics and Pharmaceutical dosage forms
GYKGYK127E1A	Pharmaceutical Chemistry and Analysis ( theory) I.	4	0	4	semi-final	obligatory	Analytical Chemistry II., Organic Chemistry II.
GYKGYK127G1A	Pharmaceutical Chemistry and Analysis (practice) I.	0	4	4	practical mark	obligatory	Analytical Chemistry II., Organic Chemistry II.
GYKMIK081G1A	Pharmaceutical Microbiology (practice)	0	2	0	signature	obligatory	Basic Immunology
GYKMIK081E1A	Pharmaceutical Microbiology (theory)	3	0	4	semi-final	obligatory	Basic Immunology
GYKGYH128G1A	Basic Medical Pathophysiology (theory+practice) I.	2	1	2	practical mark	obligatory	Physiology II., Biochemistry II., First Aid
GYKLMi082E1A	Clinical Chemistry and Laboratory Diagnostics (theory)	2	0	2	semi-final	obligatory	Physiology II., Biochemistry II.
GYKGYI085E1A	Products of Veterinary Medicine (theory)	1	0	1	semi-final	obligatory	Physiological Pharmaceutics and Pharmaceutical dosage forms
GYKTSI116G5A	Physical Education V.	0	1	0	signature	criterion	-
<b>Total:</b>		<b>18 24/sem.</b>	<b>13</b>	<b>27</b>			
	Work within the Union of Research Students	0	1	1	practical mark	elective	-

6. semester							
Neptun Subject ID	Subject	Lecture (hour/week)	Practicce (hour/week)	Credit	Examination		Prerequisite(s)
GYKGYH128E2A	Basic Medical Pathophysiology (theory+practice) II.	2	1	3	final*	obligatory	Basic Medical Pathophysiology I., Pharmaceutical microbiology, Dietetics
GYKFMG130G1A	Pharmacognosy (theory+practice) I.	2	4	5	practical mark	obligatory	Pharmaceutical Botany
GYKGYK127E2A	Pharmaceutical Chemistry and Analysis (theory) II.	4	0	4	final*	obligatory	Pharmaceutical Chem. and Anal. I.
GYKGYK127G2A	Pharmaceutical Chemistry and Analysis (practice) II.	0	4	3	practical mark	obligatory	Pharmaceutical Chem. and Anal. I.
GYKGYI249E2A	Pharmaceutical Technology (theory) II.	2	0	3	semi-final	obligatory	Pharmaceutical Technology I., Pharmaceutical Chem. and Anal. I.
GYKGYI249G2A	Pharmaceutical Technology (practice) II.	0	6	3	practical mark	obligatory	Pharmaceutical Technology I., Pharmaceutical Chem. and Anal. I.
GYKGYH282G1A	Statistics for Pharmacists	2	2	3	practical mark	obligatory	Mathematics for Pharmacists, Physiological Pharmaceutics and Pharmaceutical dosage forms Informatics
GYKGYH086E1A	Pharmacology and Toxicology (theory) I.	2	0	2	semi-final	obligatory	Basic Medical Pathophysiology I., Physiological Pharmaceutics and Pharmaceutical dosage forms
GYKGYH086G1A	Pharmacology and Toxicology (practice) I.	0	2	2	practical mark	obligatory	Basic Medical Pathophysiology I., Physiological Pharmaceutics and Pharmaceutical dosage forms
GYKANG238G2A	Pharmacy Practice II.	0	20 hour/semester	0	signature	obligatory	Pharmaceutical Technology I., Pharmaceutical Chem. and Anal. I.
GYKTSI116G6A	Physical Education VI.	0	1	0	signature	criterion	-
<b>Total:</b>		<b>14</b>	<b>20</b> <b>20 hour/sem.</b>	<b>28</b>			
GYSSZG239G4A	Summer Practice II.	0	4 week (40 hour/week)	4	practical mark	elective	Pharmaceutical Technology I.
GYSFMG294E1A	Analytical applications of liquid chromatography	2	0	2	semi-final	elective	Analytical Chemistry II. Organic Chemistry II.
	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)
GYKFMG130G2A	Pharmacognosy (practice) II.	0	4,0	2	practical mark	obligatory	Pharmacognosy I.
GYKFMG130E2A	Pharmacognosy (theory) II.	2	0,0	3	final*	obligatory	Pharmacognosy I.
GYKGYK087G1A	Instrumental Pharmaceutical Analysis (practice)	0	5,0	4	practical mark	obligatory	Pharmaceutical Technology II. Pharmac. Chem. and Analytics II.
GYKGYK087E1A	Instrumental Pharmaceutical Analysis (theory)	2	0,0	2	semi-final	obligatory	Pharmaceutical Technology II. Pharmac. Chem. and Analytics II.
GYKGYH086G2A	Pharmacology and Toxicology (practice) II.	0	2,0	2	practical mark	obligatory	Pharmacology and Toxicology I. Basic Medical Pathophysiology II.
GYKGYH086E2A	Pharmacology and Toxicology (theory) II.	3	0,0	3	semi-final	obligatory	Pharmacology and Toxicology I. Basic Medical Pathophysiology II.
GYKGYI249G3A	Pharmaceutical Technology (practice) III.	0	8,0	5	practical mark	obligatory	Pharmaceutical Technology II.
GYKGYI249E3A	Pharmaceutical Technology (theory) III.	2	0,0	2	semi-final	obligatory	Pharmaceutical Technology II.
GYKGYI088E1A	Biological Drugs (theory)	2	0,0	2	semi-final	obligatory	Pharmac. Chem. and Analytics II. Pharmacology and Toxicology I. Biotechnology
GYKEGY090E1A	Pharmacy Administration (theory) I.	2	0,0	2	semi-final	obligatory	History of Pharmaceutics and Propedeutics Pharmaceutical Technology II.
GYKETE131G1A	Pharmacoeconomics (practice)	0.5	0,5	1	practical mark	obligatory	Pharmacology and Toxicology I. Basics of Economy Statistics for Pharmacists
GYKTSI116G7A	Physical Education VII.	0	1,0	0	signature	criterion	-
GYKFRM288E1A	Semmelweis Symposium	24/sem	0,0	0	signature	criterion	-
<b>Total:</b>		<b>13,5 24/sem</b>	<b>20,5</b>	<b>28</b>			
GYSGYI300E1A	Industrial pharmaceutical Technology I.	2	0	2	practical mark	elective	Pharmaceutical Technology II. Pharmaceutical Chem. and Analysis II.

8. semester							
Neptun Subject ID	Subject	Lecture (hour/week)	Pracitce (hour/week)	Credit	Examination		Prerequisite(s)
GYKGYH086G3A	Pharmacology and Toxicology (practice) III.	0	2	2	practical mark	obligatory	Pharmacology and Toxicology II.
GYKGYH086E3A	Pharmacology and Toxicology (theory) III.	3	0	4	final*	obligatory	Pharmacology and Toxicology II.
GYKGYI249G4A	Pharmaceutical Technology (practice) IV.	0	8	4	practical mark	obligatory	Pharmaceutical Technology III.
GYKGYI249E4A	Pharmaceutical Technology (theory) IV.	2	0	6	final*	obligatory	Pharmaceutical Technology III.
GYKEGY090G2A	Pharmacy Administration (practice) II.	0	2	2	practical mark	obligatory	Pharmaceutical Technology III., Pharmacy Administration I.
GYKEGY090E2A	Pharmacy Administration (theory) II.	2	0	2	final*	obligatory	Pharmaceutical Technology III., Pharmacy Administration I.
GYKNEI091E1A	Public Health (theory)	2	0	2	practical mark	obligatory	Basic Medical Pathophysiology II., Dietetics
GYKNEI091G1A	Public Health (practice)	0	2	2	semi-final	obligatory	Basic Medical Pathophysiology II., Dietetics
GYKFMG092E1A	Phytotherapy (theory)	2	0	2	semi-final	obligatory	Pharmacognosy II.
GYKSZD132G1A	Diploma Work I.	0	2	0	signature	criterion	Pharmacology and Toxicology I. Pharmaceutical Technology II. Pharmacognosy II.
GYKTSI116G8A	Physical Education VIII.	0	1	0	signature	criterion	-
<b>Total:</b>		<b>11</b>	<b>17</b>	<b>26</b>			
GYSGYI300E2A	Industrial pharmaceutical Technology II.	2	0	2	semi-final	elective	Pharmaceutical Technology III. Industrial pharmaceutical Technology I.
GYSGYH302E1A	Preclinical and clinical neuropsychopharmacology and psychopharmacogenetics	1	0	1	semi-final	elective	Pharmacology and Toxicology I.
	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)
GYKANG133G1A	Compulsory Practice Before the Board Exam (2 months) I.	0	40	8	practical mark	obligatory	Pharmacology and Toxicology III., Pharmaceutical Technology IV., Pharmacy Administration II.
GYKGYH250E1A	Drug Therapy (theory+practice)	2	3	4	semi-final	obligatory	Pharmacology and Toxicology III., Pharmaceutical Technology IV., Phytotherapy
GYKEGY096E1A	Pharmaceutical Care (theory+practice)	2	3	4	semi-final	obligatory	Pharmacology and Toxicology III., Pharmaceutical Technology IV.
GYKGY1251G1A	Clinical Pharmacokinetics and Biopharmacy (theory+practice)	2	3	3	semi-final	obligatory	Pharmacology and Toxicology III., Pharmaceutical Technology IV.
GYKMAG098G1A	Pharmaceutical Communication and Integrated Consulting (theory+practice)	1	2	2	practical mark	obligatory	Pharmacology and Toxicology III, Pharmacy Administration I.
GYKDEI099G1A	Pharmaceutical informatics (theory+practice)	1	1	1	practical mark	obligatory	Pharmaceutical Technology IV., Pharmacy Administration I.
GYKEGY093E1A	Pharmaceutical management (theory+practice)	1	1	2	semi-final	obligatory	Pharmacoeconomics
GYKEGY100E1A	Clinical Pharmaceutics (theory+practice)	1.2	1.2	1	semi-final	obligatory	Pharmacology and Toxicology III., Pharmaceutical Technology IV
GYKMAG101E1A	Pharmaceutical Ethics and Sociology (theory+practice)	1	1	1	semi-final	obligatory	Pharmacology and Toxicology III., History of Pharmaceutics and Prop.
GYKSZD132G2A	Diploma Work II.	0	5	0	signature	criterion	Diploma Work I.
GYKTSI116G9A	Physical Education IX.	0	1	0	signature	criterion	-
GYKGY1102G1A	Drug Licensing (theory+practice)	12/sem.	12/sem.	1	practical mark	obligatory	Pharmaceutical Technology IV., Pharmacy Administration I.
GYKGY1103G1A	Pharmacovigilance and pharmacoepidemiology (theory+practice)	4/sem.	4/sem.	1	practical mark	obligatory	Pharmacology and Toxicology III.
GYKGY1104G1A	Quality Assurance (theory+practice)	4/sem.	4/sem.	1	practical mark	obligatory	Pharmaceutical Technology IV., Pharmacy Administration I.
GYKGY1105G1A	Druginnovation and clinical examinations (theory+practice)	8/sem.	8/sem.	1	practical mark	obligatory	Pharmacology and Toxicology III., Pharmaceutical Technology IV
<b>Total:</b>		<b>11.2 28/semester</b>	<b>40/week 21.2</b>	<b>30</b>			
	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)
GYKANG133G2A	Compulsory Practice Before the Board Exam (4 months) II.	0	40	16	practical mark	obligatory	Compulsory Practice I.
GYKSZD134E1A	Diploma Defence	1	0	10	final*	obligatory	Diploma Work II.
GYKANG071E2A	Principles of professional ethics II.	0	0	0	signature	criterion	-
<b>Total:</b>		<b>1/semester</b>	<b>40</b>	<b>26</b>			
GYSGY1305E1A	Pharmaceutical Compounding (theory)	2	0	2	semi-final	elective	Pharmaceutical Technology IV.

\*Counts to the qualification of the diploma