



# **CURRICULUM**

for pharmacy students

**academic year of 2023/2024**

**Szeged  
2023**

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## ***Dear Students,***

Before the academic year 2023/24, usual information is compiled, in which information and data about the current training at the Faculty of Pharmacy of the University of Szeged can be read. Here, information on the management of the Faculty, the staff of the Dean's Office and the faculty institutes, the lecturers of the institutes of the Albert Szent-Györgyi Medical School and the Faculty of Science and Informatics, the academic calendar of the 2023/24 academic year (with important deadlines); suggested study plan for pharmacy students, subjects to be admitted and their preconditions, as well as further useful information on the credit system, internships, dissertation and board exam can be found. The brochure also contains the recommended pharmacy training curriculum, allowing the students to complete the board exam in 10 semesters with a proportional study load and graduate as a PharmD if the suggested study plan is followed.

After graduating, the Faculty of Pharmacy offers additional opportunities to broaden students' professional knowledge: a degree in specialist pharmacist within the framework of postgraduate training and a scientific degree (PhD title) as a Doctoral School of Pharmaceutical Sciences student can be obtained. Students interested in scientific research are encouraged to participate in the Student Science Study Groups of the institutes, where they will be involved in research during their university studies.

We recommend the websites of the University of Szeged and the Faculty of Pharmacy (<https://u-szeged.hu/english> and <http://www.pharm.u-szeged.hu/english>), on which, in addition to current reports on university and faculty events, other helpful information can also be found.

The faculty members are confident that students' proficiency will develop with valuable knowledge in the 2023/24 academic year. We wish everyone many new experiences and a very successful academic year!

September 26, 2023

***Dr. Gerda Szakonyi***  
vice-dean for English education  
and the staff of the Registrar's Office

UNNIVERSITY OF SZEGED  
FACULTY OF PHARMACY

## ACADEMIC CALENDAR

### 1st (Fall) semester

Enrollment period: August 4 to September 9, 2023  
Education period: September 11 to December 16, 2023  
Examination Period: December 18 to 23, 2023  
January 2 to February 3, 2024  
Repeat Examination Period: January 5 to February 10, 2024  
Pharmacy Internship 1. July 10 to September 10, 2023

9th semester before the Board Exam:

September 11 to December 2, 2023 (12 weeks)

Exam period in 9th semester before the Board Exam:

December 4 to 23, 20221

January 2 to 20, 2024

Repeat examination period in 9th semester before the Board Exam :

January 22 to 27, 2024

### 2nd (Spring) semester

Education period: February 12 to May 18, 2024  
Spring break: March 28 to April 2, 2024  
*No spring break for students completing their Professional Internship*

Examination Period: May 21 to June 29, 2024

Repeat examination week: July 1 – July 6, 2024

Pharmacy Internship 2:

February 1 to May 31, 2024

Board Exam: June 4 to 18, 2024 (Expected)

#### *Additional important deadlines:*

Deadline for thesis submission: September 15, 2023 and March 11, 2024

Guide: <https://www.pharm.u-szeged.hu/english/for-students/thesis>

Graduation ceremony: June 29, 2024 (Friday) 10:00 – TIK

Expected deadlines of fellowship applications (call for applications:  
<https://www.pharm.u-szeged.hu/english/for-students>)

<b>Excellence in Pharmacy</b>	<b>Last day of the repeated examination period in the first semester July 31, 2024, in the second semester</b>
<b>National Higher Education Scholarship</b>	<b>July 1, 2024 (expectedly)</b>

***The dates may change depending on the decisions of the Faculty Council.***

# FACULTY OF PHARMACY

## DEAN'S OFFICE

(6720 Szeged, Zrínyi u. 9., Phone: 62/54-5022,  
website: <http://www.u-szeged.hu/pharm>, E-mail: [czobor.anita@szte.hu](mailto:czobor.anita@szte.hu))

- Dean: **István Zupkó PhD, DSc**  
Email: [zupko.istvan@szte.hu](mailto:zupko.istvan@szte.hu)  
Reception hours: by prior appointment
- Vice-deans: **Zsolt Szakonyi PhD, DSc**  
vice-dean for Scientific and Financial Affairs  
Email: [szakonyi.zsolt@szte.hu](mailto:szakonyi.zsolt@szte.hu)  
Reception hours: by prior appointment
- Tamás Sovány PhD**  
vice-dean for education  
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Reception hours: by prior appointment
- Gerda Szakonyi PhD**  
vice-dean for English language education  
Email: [szakonyi.gerda@szte.hu](mailto:szakonyi.gerda@szte.hu)  
Reception hours: by prior appointment
- Dóra Rédei PhD**  
responsible for enrolment and public relations  
Email: [redai.dora.judit@szte.hu](mailto:redai.dora.judit@szte.hu)  
Reception hours: by prior appointment
- Head of the Dean's Office:  
**Anita Czobor (54-5022)**  
lawyer - legal expert in EU law  
Email: [czobor.anita@szte.hu](mailto:czobor.anita@szte.hu)
- HR Consultant: **Dóra Márvány (34-3072)**  
Email: [hr.pharm@szte.hu](mailto:hr.pharm@szte.hu)
- Academic Officers (Hungarian pharmacy program):  
**Gábor Szatmári (34-3070)** (years 1 to 3)  
Email: [szatmari.gabor@szte.hu](mailto:szatmari.gabor@szte.hu)
- Katalin Varga (34-3071)** (years 1 to 3)  
Email: [varga.katalin.ilona@szte.hu](mailto:varga.katalin.ilona@szte.hu)
- Éva Tanács (54-4561)** (years 4 to 5)  
Email: [tanacs.eva@szte.hu](mailto:tanacs.eva@szte.hu)

Academic Officers (English pharmacy program):

**Katalin Tumoró (34-2341)**

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**Ákos Varga (34-2340)**

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Academic Officer (PhD students):

**László Karácsonyi (54-6126)**

Email: [karacsonyi.laszlo@szte.hu](mailto:karacsonyi.laszlo@szte.hu)

Reception hours:

Monday, Tuesday, Thursday, Friday: 9:30-12:00

Financial Administrator:

**Margit Márkiné Sitkei (54-6125)**

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Reception hours: Monday to Friday: 9:00-12:00

Management Consultants:

**Renáta Kasza** (phone number to be specified later)

Email: [kasza.renata.katalin@szte.hu](mailto:kasza.renata.katalin@szte.hu)

**Nóra Király (54-5749)**

Email: [kiraly.nora@szte.hu](mailto:kiraly.nora@szte.hu)

Property Manager: **Zoltán Zámbo (54-4560)**

Email: [zambo.zoltan@szte.hu](mailto:zambo.zoltan@szte.hu)

System Administrator:

**Norbert Huszta (54-6358)**

Email: [huszta.norbert@gmf.u-szeged.hu](mailto:huszta.norbert@gmf.u-szeged.hu)

Office Assistant: **Erika Heidt**

# THE INSTITUTES OF THE FACULTY

## INSTITUTE OF PHARMACOGNOSY

(6720 Szeged, Eötvös u. 6., 2nd floor, Phone: 54-5558, fax: 54-5704)

Head:	<b>ATTILA HUNYADI PhD, DSc</b> Full Professor
Emeritus Professors:	<b>Mária Báthori PhD, DSc</b> <b>Imre Máthé PhD, DSc</b> <b>Kálmán Szendrei</b> candidate of chemical sciences
Full Professors:	<b>Judit Hohmann PhD, DSc</b> corresponding member of the HAS <b>Dezső Csupor PhD, DSc</b>
Associate Professors:	<b>Zsuzsanna Hajdu PhD</b> <b>Andrea Vasas PhD</b> ( <i>Research Consultant</i> ) Email: <a href="mailto:vasas.andrea@szte.hu">vasas.andrea@szte.hu</a>
Assistant Professors:	<b>Crul-Tóth Noémi PhD</b> <b>Dóra Rédei (54-6451)</b> ( <i>Educational Advisor</i> ) Email: <a href="mailto:redei.dora.judit@szte.hu">redei.dora.judit@szte.hu</a> <b>Tivadar Kiss PhD</b> <b>Katalin Veres PhD (54-6451)</b> ( <i>Educational Advisor</i> ) Email: <a href="mailto:veres.katalin@szte.hu">veres.katalin@szte.hu</a>
Research Associates:	<b>Annamária Kincses PhD</b> <b>Norbert Kúsz PhD</b> <b>Kornél Szőri PhD</b> <b>Máté Vágvölgyi PhD</b>
Research Assistants:	<b>Gábor Girst</b> <b>Tímea Halasi-Gonda</b> (Maternity leave) <b>Márton Benedek Háznagy</b> <b>Agbadua Orinamhe Godwin</b>
Biologist:	<b>Mónika Horzse</b>
Technicians:	<b>Konrád Kurunczi-Papp</b> <b>Kornél Szemerédi</b> <b>Erzsébet Csiszárné Makra</b>
PhD students:	<b>Alburqan Marah</b> <b>Anita Barta</b> <b>Orsolya Fanni Judák</b> <b>Gábor Laczkó</b>



**Péter Püski**  
**Dyke Gita Wirasisya**  
**George Anis Al-Qassab**  
**Hiba Zeini**  
**Madah Manar**  
**Mohamed Abakar Maaz**  
**Tasneem Sultan Abu Ghazal**  
**Zsanett Janka Tóth**

Demonstrators:

**András Juhász** (4th year)  
**András Kele** (4th year)  
**Benedek Szűcs** (5th year)

External Instructors:

**Ibolya Fülöpné Csákó**  
police lieutenant colonel, pharmacist, lawyer

**Tamás Csesztregi**  
forensic chemist

**Tamás Horányi**  
Honorary Associate Professor

**Ana Sofia Fernandes Martins**  
Honorary Associate Professor

**István Ujváry**  
Honorary Associate Professor

Management consultant: **Beáta Tóth**

Office Assistant: **Ildikó Nagy**

**INSTITUTE OF PHARMACEUTICAL ANALYSIS**  
(6720 Szeged, Somogyi u. 4. Phone: 54-5925)

Head: **ISTVÁN ILISZ PhD, DSc**  
Full Professor

Emeritus Professors: **György Dombi PhD**  
candidate of chemical sciences  
**Antal Péter PhD, DSc**

Associate Professors: **Róbert Berkecz PhD**  
**Gerda Szakonyi PhD (54-5806)**  
*(Educational Advisor and Research Consultant)*  
Email: [szakonyi.gerda@szte.hu](mailto:szakonyi.gerda@szte.hu)

Research Associate: **Dániel Tanács PhD**

Researcher: **Tímea Körmöczi PhD**

Engineer: **Melinda Guba**  
**Gabriella Vasas**

PhD students: **Ali Sahraa**  
**Emese Zsuzsanna Galgóczi**  
**Gábor Némethi**

Management Consultant: **Ildikó Aignerné Kisagócsi**

## INSTITUTE OF PHARMACODYNAMICS AND BIOPHARMACY

(6720 Szeged, Eötvös u. 6. Phone/fax: 54-5567)

Head:	<b>ISTVÁN ZUPKÓ PhD, DSC</b> Full Professor
Associate Professor:	<b>Eszter Ducza PhD (34-1971)</b> ( <i>Educational Advisor</i> ) Email: <a href="mailto:ducza.eszter@szte.hu">ducza.eszter@szte.hu</a>
Assistant Professors:	<b>Noémi Bózsity-Faragó PhD</b> <b>Renáta Kanizsainé Minorics PhD</b> <b>Zsuzsanna Schelz PhD</b> <b>Adrienn Seres-Bokor PhD</b> (Maternity leave) <b>Anita Sztojtkov-Ivanov PhD</b>
Assistant Lecturers:	<b>Kata Kira Kemény</b> <b>Adriána Judit Kovács</b> <b>Péter Szatmári</b>
Research assistant:	<b>Tahaei Ashkan</b>
PhD students:	<b>Aljazmaty Haya</b> <b>Kata Kira Kemény</b> <b>Péter Szatmári</b> <b>Ejlal Abdallah Abdallah</b> <b>Hiba Faroug Muddather Abdallah</b> <b>Isaac Kinyua Njangiru</b>
Demonstrators:	<b>Krisztina Réka Paveszka</b> (5th year) <b>Dorottya Varga</b> (5th year)
Guest Lecturers:	<b>Anna Borsodi PhD, DSc</b> Private Professor <b>Gábor Zacher MD</b> Toxicologist
Management Consultant:	<b>Veronika Verseghy</b>
Laboratory Technicians:	<b>Erzsébet Goda</b> <b>Károly Nagy</b>
Assistant Technician:	<b>Helga Horváth</b>
Animal Handler:	<b>Dániel Székesi</b>

**INSTITUTE OF PHARMACEUTICAL CHEMISTRY**  
(6720 Szeged, Eötvös u. 6. Phone: 54-5562, fax: 54-5563)

Head: **ISTVÁN SZATMÁRI PHD, DSc**  
Full Professor

Full Professors: **Enikő Forró PhD, DSc**  
**Zsolt Szakonyi PhD, DSc**

Associate Professors: **László Lázár PhD** (Research Consultant)  
**Márta Palkó PhD (54-5564)** (Educational Advisor)  
E-mail: [palko.marta@szte.hu](mailto:palko.marta@szte.hu)

Assistant Professors: **Zita Lázárné Zalán PhD** (*Deputy Educational Advisor*)  
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**Bálint Lőrinczi PhD**  
**Attila Márió Remete PhD**

Assistant Lecturers: **Orsy György**  
**Rebeka Ildikó Szabados-Mészáros**

HAS Stereochemical Research Group:

Research fellow: **Le Minh Tam PhD**

Research assistant: **Sayeh Shahmohammadi**

Scientific advisor: **György Szöllősi PhD, DSc**

Group leader: **István Szatmári PhD, DSc**

Administrator: **Mónika Varga**

Engineers: **Judit Árva**  
**Nóra Korom-Tóth**  
**Szilvia Nagy**  
**Imre Ugrai**

Chemical Technicians: **József Arnold**  
**Tímea Ácsné Széll**  
**Anikó Farkas**  
**Sándorné Miklós-Nagy**  
**Gergő Papp**  
**Balázs Sovány**  
**Mihály Vajda**

PhD students: **Alsoliman Hiba**  
**Dorottya Bai**  
**Dima Depp**  
**Dóra Hegedűs**

**Tünde Faragó**  
**Ghassan Hussain Elagib**  
**Lili Kóczán**  
**Meruyert Ashimbayeva**  
**Momen Fareed**  
**Musab Mohamed Ibrahim Ali**  
**Vencel László Petrovicz**  
**Reem Moustafa**  
**Julián Robin Sárík**  
**Sawssen Bouali**  
**Péter Simon**  
**Levente Törteli**  
**Zein Alabdeen Khdar**

Demonstrators:

**Dorka Gubó** (4th year)  
**Csaba Mester** (4th year)

Guest Lecturer:

**Pál Szabó PhD**  
Honorary Associate Professor  
Chemical Research Center of HAS

Secretary:

**Mónika Varga**

Assistant Technicians:

**Ágnes Kucsora**  
**Éva Temesváriné Szöri**

## INSTITUTE OF PHARMACEUTICAL TECHNOLOGY AND REGULATORY AFFAIRS

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Full Professor
- Emeritus Professors: **Piroska Szabóné Révész PhD, DSc**  
**Klára Pintyéné Hódi PhD, DSc**  
**Mihály Kata PhD, DSc**
- Associate Professors: **Rita Ambrus PhD** (*PhD Advisor*)  
**Szilvia Berkó PhD (54-5573)**  
(*Educational Advisor for Pharmacist Specialists*)  
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**Mária Budai-Szűcs PhD**  
**Anita Kovács PhD**  
**Jr. Géza Regdon PhD**  
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- Assistant Professors: **Csilla Balla-Bartos PhD**  
**Dorina Dobó PhD**  
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Email: [jojartne.laczkovich.orsolya@szte.hu](mailto:jojartne.laczkovich.orsolya@szte.hu)  
**Gábor Katona PhD**  
(*Educational Advisor for English Students*)  
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**Katalin Kristó PhD**
- Assistant Lecturers: **Krisztina Ludasi PhD**  
**Krisztián Pamlényi PhD**  
**Bence Sipos PhD**  
**Luca Éva Uhljar PhD**
- PhD Students: **Alaa Gamiel**  
**Alharith Abdulraheem Abdulmajeed Hassan**  
(**AlharithHassan**)  
**Flórián Benkő**  
**Martin Cseh**  
**Fanni Falusi**  
**Boglárka Szalai**  
**Patricia Orsolya Varga**

**Fatima Adnan Rajab**  
**Hala Rayya**  
**Hanan Adnan Mohammad**  
**Hasanpour Feria**  
**Heba Fayez Banat**  
**Tamás Horváth**  
**Ifeoma Cynthia Ekenna**  
**Lomass Ali Soliman**  
**Mahmoud Azza Asim Khalid**  
**Petra Party**  
**Rabia Ashfaq**  
**Ranim Saker**  
**Rasha Almasri**  
**S P Yamini Kanti**  
**Sandra Aulia Mardikasari**  
**Shammout Hadi Mohamad Marwan**  
**Yusra Bakri Farah**

Demonstrators:

**Márk Benei** (5th year)  
**Noémi Szabó** (5th year)

External Instructors:

**Erzsébet Csányi PhD**  
Honorary Professor

**István Barcsay**  
Honorary Associate Professor  
Phoenix Pharma, Budapest

**Margit Anna Gombos**  
Honorary Associate Professor  
candidate of agricultural sciences  
Phoenix Pharma, Budapest

**Magdolna Hasznosné Nezdei**  
Honorary Associate Professor  
candidate of chemical science, Veszprém

**Katharina Matzkó-Hollenbach**  
Honorary Associate Professor, scientific advisor

**Endre Mikulásik**  
Honorary Associate Professor  
product assessor, lead auditor (CE Certiso Kft.)

**Mária Miseta**  
Honorary Associate Professor  
candidate of pharmaceutical sciences, Szeged

**Gabriella Ujhelyi**  
Honorary Associate Professor

**Magdolna Vágó**  
Honorary Associate Professor  
Pernix Pharma Gyógyszergyártó Kft., Zalaegerszeg

Management Consultants: **Evelyn Weszelovszkyné Dér**

**Ágnes Balázs**

Specialised support personnels:

**Erika Feczkóné Boda**  
**Gabriella Molnár**  
**Krisztina Tóth**  
**Andrea Szalai**  
**Íldikó Vígh**

Research Assistant: **Anett Németh**

Research Coordinator: **Mahwash Mukhtar**

Chemical Technician: **Klára Kovács**

Engineer: **Balázs Béniám**

Assistant Technicians: **Lászlóné Molnár**

**Éva Oláh**

**Valéria Varga**



**INSTITUTE OF CLINICAL PHARMACY**  
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Head: **DEZSŐ CSUPOR PHD, DSc**  
Full Professor

Emeritus Professor: **Gyöngyvér Soós PhD**

Associate Professors: **Péter Doró PhD**  
**Ria Benkő PhD**  
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Associate Professor: **Barbara Éva Tóth PhD**

Assistant Lecturer: **Zsófia Bajtelné Engi**

Research Coordinator: **Réka Tóthné Viola**

Pharmacist: **Márta Csatordai**

PhD Students: **Zsófia Bajtelné Engi**  
**Helga Hambalek**  
**Roxána Ruzsa**  
**András Érszegi**  
**Ikhwan Yuda Kusuma**  
**Róbert Nacsa**  
**Ni Made Amelia Ratnata Dewi**  
**Omer Ahmed Altayeb Ali**  
**Erika Papfalvi**

Secretary: **Nóra Molnár**  
**Fruzsina Karai (long-term break)**

**OFFICE OF VOCATIONAL EDUCATION AND FURTHER EDUCATION**

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Head of the Office **ERZSÉBET HÁZNAGYNÉ RADNAI PHD (54-6454)**  
specialist pharmacist, research associate

Secretary: **Róbertné Gyémánt**

# CO-FACULTY INSTITUTES AND DEPARTMENTS INVOLVED IN EDUCATION

## Albert Szent-Györgyi Medical School

### DEPARTMENT OF ANATOMY

(Szeged, Kossuth L. sgt. 38. Phone: 54-5665, fax: 54-5707)

Head: **ANTAL NÓGRÁDI PHD, DSc**  
Full Professor

Course Supervisor **Zoltán Süle PhD**  
Assistant Professor

Educational Advisor **Zoltán Süle PhD (54-5734)**  
Email: [sule.zoltan@med.u-szeged.hu](mailto:sule.zoltan@med.u-szeged.hu)

### DEPARTMENT OF BIOCHEMISTRY

(Szeged, Dóm tér 9. Phone: 54-5096, fax: 54-5097)

Head: **TAMÁS CSONT PHD**  
Associate Professor

Course Supervisor **Tamás Csont PhD**

Educational Advisor: **Csaba Csonka PhD (54-5755)**  
Associate Professor  
Email: [csonka.csaba@med.u-szeged.hu](mailto:csonka.csaba@med.u-szeged.hu)

### DEPARTMENT OF PHYSIOLOGY

(Szeged, Dóm tér 10. Phone: 54-5101, fax: 54-5842)

Head: **GYULA SÁRI PHD DSc**  
Full Professor

Course Supervisor: **Gabriella Kékesi PhD**  
Associate Professor

Educational Advisor: **Gabriella Kékesi PhD (54-4971)**  
Email: [kekesi.gabriella@med.u-szeged.hu](mailto:kekesi.gabriella@med.u-szeged.hu)

## DEPARTMENT OF PATHOPHYSIOLOGY

(Szeged, Szőkefalvi-Nagy Béla u. 6. (Health Sciences Training Block),  
Phone/fax: 54-5994)

Head: **ZOLTÁN RAKONCZAY PHD, DSc**  
Full Professor

Course Supervisor: **Zoltán Rakonczay PhD, DSc**

Educational Advisor: **Katalin Eszter Ibos (54-5111)**  
Assistant Lecturer  
E-mail: [ibos.katalin.eszter@med.u-szeged.hu](mailto:ibos.katalin.eszter@med.u-szeged.hu)

## DEPARTMENT OF PUBLIC HEALTH

(Szeged, Dóm tér 10. Phone: 54-5119, fax: 54-5120)

Head: **EDIT PAULIK PHD**  
**professor**

Course Supervisor: **Edit Paulik PhD**

Educational Advisor: **Dr. Zsuzsanna Máté PhD (34-2866)**  
Assistant Professor  
E-mail: [mate.zsuzsanna@med.u-szeged.hu](mailto:mate.zsuzsanna@med.u-szeged.hu)

## DEPARTMENT OF NUCLEAR MEDICINE

(Szeged, Korányi fasor 6. Phone: 54-5390, 54-5772, Fax: 54-4564)

Head: **LÁSZLÓ PÁVICS PHD DSc**  
Full Professor

Educational Advisor: **Tünde Krisztina Polanek (54-5375)**  
Physicist  
E-mail: [polanek.tunde.krisztina@med.u-szeged.hu](mailto:polanek.tunde.krisztina@med.u-szeged.hu)

## DEPARTMENT OF MEDICAL PHYSICS AND INFORMATICS

(Szeged, Korányi fasor 9. Phone/fax: 54-5077)

Head: **FERENC PETÁK PHD, DSc**  
Full Professor

Course Supervisors: **Ferenc Rárosi PhD**  
Assistant Professor  
**József Tolnai PhD**  
Assistant Professor

Educational Advisor: **József Tolnai PhD (54-5080)**  
E-mail: [jozsef@med.u-szeged.hu](mailto:jozsef@med.u-szeged.hu)

**DEPARTMENT OF MEDICAL GENETICS**  
(Szeged, Somogyi u. 4. Phone: 54-5134, 54-5133)

Head: **MÁRTA SZÉLL PHD, DSc**  
Full Professor

Course Supervisor: **Márta Széll PhD, DSc**

Educational Advisor: **Zsuzsanna László PhD** (*Educational Advisor*)  
Associate Professor  
E-mail: [laszlo.zsuzsanna@med.u-szeged.hu](mailto:laszlo.zsuzsanna@med.u-szeged.hu)

**DEPARTMENT OF MICROBIOLOGY EDUCATION AND RESEARCH CENTER**  
(Szeged, Dóm tér 10. Phone: 54-5115, fax: 54-5113)

Head and: **KATALIN BURIÁN PHD, DSc**  
Full Professor

Course Supervisor: **Katalin Burián PhD, DSc**

Educational Advisor: **Anita Varga-Bogdanov PhD (54-6112)**  
Assistant Professor  
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**Albert Szent-Györgyi Medical School**  
**Faculty of Science and Informatics**

**DEPARTMENT OF IMMUNOLOGY**  
(Szeged, Szőkefalvi-Nagy Béla u. 6. 6., 2nd floor, Phone: 34-2826)

Head: **KRISZTINA KÖRMÖNDINÉ BUZÁS PHD**  
Associate Professor

Educational Advisor: **Ágnes Czibula PhD** (Hungarian pharmacy program)  
Assistant Professor  
Email: [czibula.agnes@brc.hu](mailto:czibula.agnes@brc.hu)

**Roberta Fajka-Boja PhD** (English pharmacy program)  
Assistant Professor  
Email: [fajka\\_boja.roberta@brc.hu](mailto:fajka_boja.roberta@brc.hu)

# Faculty of Science and Informatics

## BOLYAI INSTITUTE, DEPARTMENT OF ANALYSIS

(Szeged, Aradi vértanúk tere 1., Phone: 54-4698, fax: 54-4548)

Head: **LAJOS MOLNÁR PHD DSC**  
Full Professor

Course Supervisor: **Vanda Fülöp PhD (54-4083)**  
Associate Professor  
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Educational Advisor **Gábor Szűcs PhD (54-4080)**  
Assistant Professor  
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## DEPARTMENT OF PHYSICAL CHEMISTRY AND MATERIALS SCIENCE

(Szeged, Rerrich B. tér 1., Phone: 54-4209, fax: 54-4042)

Head: **ÁGOTA TÓTH PHD DSc**  
Full Professor

Course Supervisors: **Dezső Horváth PhD DSc**  
Full Professor

**Edit Juhászné Csapó PhD**  
Assistant Professor

**Tamás Szabó PhD**  
Assistant Professor

Educational Advisor: **Katalin Siposné Musza PhD (54-4115)**  
Research Associate  
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## DEPARTMENT OF EXPERIMENTAL PHYSICS

(Szeged, Dóm tér 9., Phone: 54-4052)

Head: **PÉTER SZÉKELY PHD**  
Associate Professor

Course Supervisor: **Gábor Laczkó PhD**  
Honorary Associate Professor

Educational Advisor: **Ditta Novák (54-4052)**  
Education Coordinator  
Email: [novak.ditta@physx.u-szeged.hu](mailto:novak.ditta@physx.u-szeged.hu)

**DEPARTMENT OF INORGANIC AND ANALYTICAL CHEMISTRY**  
(Szeged, Dóm tér 7., Phone/fax: 54-4340, E-mail: szakt@chem.u-szeged.hu)

Head: **ÉVA ANNA ENYEDY PHD, DSc**  
Associate Professor

Course Supervisor: **Éva Anna Enyedy PhD, DSc**

Educational Advisor: **Béla Gyurcsik PhD (54-4335)**  
Associate Professor  
E-mail: [gyurcsik@chem.u-szeged.hu](mailto:gyurcsik@chem.u-szeged.hu)

**HUNGARIAN NATIONAL AMBULANCE SERVICE**  
**REGIONAL ORGANISATION OF SOUTH GREAT PLAIN**  
(Szeged, Kossuth L. sgt. 29. Phone: 55-1611)

Head: **ATTILA ZENTAY MD**  
regional manager  
HNAS GSP Organization

Educational Advisor: **Tibor Batka (55-1611)**  
regional education coordinator  
E-mail: [batka.tibor@mentok.hu](mailto:batka.tibor@mentok.hu)

Study administrator: **Beáta Maróti (55-1611)**  
administrator  
Email: [maroti.beata@mentok.hu](mailto:maroti.beata@mentok.hu)

**FOREIGN LANGUAGE CENTER**  
(Szeged, Honvéd tér 6. Phone, fax: 54-4539)

Head: **JUDIT LÉVAI (54-4141)**  
E-mail: [levai@lingo.u-szeged.hu](mailto:levai@lingo.u-szeged.hu)

Educational Deputy Head:  
**Ágnes Tünde Tanács (54-4638)**  
[tanacs.agnes@lingo.u-szeged.hu](mailto:tanacs.agnes@lingo.u-szeged.hu)

General Deputy Manager: **Péter Simon (34-3439)**  
E-mail: [simonp@lingo.u-szeged.hu](mailto:simonp@lingo.u-szeged.hu)

# MENTORS

Students can request the help of the following instructors in academic matters:

- I. year: Tivadar Kiss PhD**  
Institute of Pharmacognosy  
Email: [kiss.tivadar@szte.hu](mailto:kiss.tivadar@szte.hu)
  
- II. year: Bálint Lőrinczi PhD**  
Institute of Pharmaceutical Chemistry  
Email: [lorinczi.balint@szte.hu](mailto:lorinczi.balint@szte.hu)
  
- III. year: Krisztina Ludasi PhD**  
Institute of Pharmaceutical Technology and Regulatory Affairs  
Email: [ludasi.krisztina@szte.hu](mailto:ludasi.krisztina@szte.hu)
  
- IV. year: Mária Matuz PhD**  
Institute of Clinical Pharmacy  
Email: [matuz.maria@szte.hu](mailto:matuz.maria@szte.hu)
  
- V. year: Zsuzsanna Schelz PhD**  
Institute of Pharmacodynamics and Biopharmacy  
Email: [schelz.zsuzsanna@szte.hu](mailto:schelz.zsuzsanna@szte.hu)

# INFORMATION OF STUDENT UNION OF FACULTY OF PHARMACY (HÖK)

## ***Members of the Board:***

Head: **PANNA ILDIKÓ PRIBELSZKI**

Email: [pribelszkipanna16@gmail.com](mailto:pribelszkipanna16@gmail.com)

General Deputy Head: **CSONGOR GYULA SZILÁGYI**

Email: [csonesz00@gmail.com](mailto:csonesz00@gmail.com)

Deputy Head of Economy: **FLÓRA SENDULA**

Email: [sendulaflora@gmail.com](mailto:sendulaflora@gmail.com)

Head of the Office **ANDOR GÁBOR HORPÁCSI**

Email: [andor19980706@gmail.com](mailto:andor19980706@gmail.com)

Culture referent: **ANDRÁS JUHÁSZ**

Email: [gepandras@gmail.com](mailto:gepandras@gmail.com)

## ***The tasks of the Board:***

The most important task of the Student Union is to represent the student's interests, participate in decisions about important matters that also affect students, and evaluate applications. In addition, the main tasks of the Student Union include solving the problems that arise, communicating with the management of the Faculty, and providing adequate information about student benefits and faculty events.

Furthermore, in cooperation with the event organising committee of the Faculties of General Medicine and Dentistry, the organisation of sports and cultural programs, such as Freshmen's Start Day, Freshmen's Ball, Freshmen's Kettle, "Icy" evenings or Anna spa evenings. The HÖK also organises programs at the Faculty, such as the Pharmacy Dance Party, popular among the lecturers, and the National Meeting of Pharmacists.

## ***Where can you find us?***

In our office at Semmelweis street 4, in the basement of the College, from Monday to Wednesday from 10 a.m. to 3 p.m. and on Thursday from 1 p.m. to 2 p.m. Additionally, on our Facebook and Instagram pages as SZTE GYTK HÖK and sztegytkhok.

Feel free to contact us if you have any questions!



# GENERAL INFORMATION REGARDING THE CREDIT SYSTEM

## GENERAL TERMS

**Credit:** a unit for measuring a student's academic work of a course or curriculum unit which expresses in respect to the estimated time necessary for acquiring the defined learning outcomes and meeting the requirements; one credit represents thirty academic hours on average, and the value of credit does not depend on the assessment of the learning outcome acquired by the student, provided that the student's performance was accepted.

**Criterion requirement:** a condition enclosed to the commencement of a period of study, the registration for a subject, the taking of a final examination, or the awarding of a diploma, which is of significance or prevents excessive delays in studies. (Completion of, e.g., two semesters of physical education is required to obtain the diploma.)

**Criterion subject:** a criterion-required subject or another study requirement to which no credit is assigned. Such subjects can be professional practice and are considered as subjects.

**Subject programme:** a description of the knowledge to be acquired in a subject and the general conditions for its achievement, including at least:

- the name of the subject,
- the name of the department responsible for teaching the subject,
- the number of credits to be gained by completing the subject,
- obligatory and required units of the subject,
- the form of teaching of the subject (units),
- the number of teaching hours per week (semester),
- credits for the subject,
- the conditions for obtaining the credit and the form(s) of the examination(s) (colloquium, term mark, report, basic level examination, comprehensive examination),
- type of assessment (five-degree, three-degree, two-degree),
- the prerequisites for taking up or completing the subject,
- the task and purpose of teaching the subject,
- thematic description of the curriculum,
- the definition of learning outcomes in terms of knowledge, skills, attitudes and autonomy- responsibilities,
- indication of the written curriculum.

**Recommended curriculum:** the curriculum offered to the student to enable him/her to obtain the qualification within the prescribed period of study.

**Nftv. Section 49 (4)**The institution of higher education shall issue a recommended curriculum for the compilation of the student study programme. The institution of higher education shall ensure that all students have the opportunity to give an account of their knowledge and to repeat an examination, whether successful or unsuccessful, in such a way that the impartial conduct and assessment of the repeated examination is guaranteed.

**Course registration:** registration for the announced lecture and/or classroom and/or laboratory classes (courses) of a subject or for its exam. The condition is to fulfil the prerequisites of the subject.

**Subject preconditions:** the range of subjects or other obligations whose completion is the precondition of taking another subject or fulfilling another educational obligation.

**Active semester:** the semester for which the student is validly registered in accordance with the Academic Rules and Regulations of the University of Szeged.

**Vhr. 51. § 45. §** With the exception of the provisions of Section 45 (2) of the Nftv, students may withdraw their registration pursuant to Point (5) of Section 42 of the Nftv within one month of the beginning of the semester, but no later than 14<sup>th</sup> of October or 14<sup>th</sup> of March, or may request a suspension of their studies until the same dates after enrolment. If, after enrolment or registration, the student does not request the suspension of his/her studies or does not terminate his/her legal status by these specified dates, the semester in question shall be considered an active semester and shall give rise to obligations arising from the acceptance of the conditions of the training supported by the Hungarian State scholarship (full or part) or the obligations contained in the training contract, regardless of the fulfilment of his/her study obligations. If the student suspends his/her studies or does not enrol and this does not result in the termination of the student's status, the semester in question shall be registered as a passive semester.

**Passive semester:** a semester in which the student status is interrupted.

**Vhr. 51. §** With the exception of the provisions of Section 45 (2) of the Nftv, students may withdraw their registration pursuant to Point (5) of Section 42 of the Nftv within one month of the beginning of the semester, but no later than 14<sup>th</sup> of October or 14<sup>th</sup> of March, or may request a suspension of their studies until the same dates. If, after enrolment or registration, the student does not request the suspension of his/her studies or does not terminate his/her legal status by these specified dates, the semester in question shall be considered an active semester and shall give rise to obligations arising from the acceptance of the conditions of the training supported by the Hungarian State scholarship (full or part) or the obligations contained in the training contract, regardless of the fulfilment of his/her study obligations. If the student suspends his/her studies or does not enrol and this does not result in the termination of the student's status, the semester in question shall be registered as a passive semester.

**Cross-education:** the student acquires the knowledge and skills required in the curriculum by completing a course taught to students by another Faculty or institution of the University.

**Parallel programme:** the student is parallelly participating in an educational programme at the university and in another programme at a university or other higher education institution.

## **CONDITIONS FOR OBTAINING THE DIPLOMA OF DOCTOR OF PHARMACY**

- collecting 300 credit points and fulfilling the criterion conditions as prescribed in the curriculum,
- preparing and successfully defending a thesis,
- successful completion of the Board Exam.

## THE MOST CRITICAL ASPECTS OF CREDIT COLLECTION

**To obtain the diploma, the student must collect 300 credit points and fulfil the criterion requirements assigned to the training.**

It is highly suggested to follow the recommended curriculum, as it ensures an average pace of progress and means the possibility of obtaining the diploma in 10 semesters. The recommended curriculum follows the schedule of traditional, non-credit-based training, in which the completion of one semester in the curriculum is equivalent to an average of 30 credits ( $\pm 3$ , 27–33 credits). The credit-based training allows deviating from what is recommended in the curriculum by keeping the courses built on each other.

Within the total number of credits to be acquired (300), the subjects are different:

### COMPULSORY SUBJECTS

The student must complete all compulsory subjects during his/her studies—**the total credit point value** of the compulsory subjects is **274**.

### COMPULSORY ELECTIVE SUBJECTS

They will be chosen from the subjects the Faculty announces with a given credit point value. The credit point value of compulsory elective subjects within the total number of credits is a minimum of **10**.

It is recommended to take compulsory electives in the 9th semester. The subjects included here require specific prior studies and fundamental knowledge, so students in the lower years cannot usually enrol for them. Suppose lower-year students can still enrol for a compulsory elective subject. In that case, fifth-year students have an advantage when enrolling for the subject.

### ELECTIVE SUBJECTS

Among the subjects announced by the Faculty of Pharmacy, a maximum of 5% of the 300 credits required to obtain the diploma can be freely chosen, i.e. **15 credits** (due to the value of elective subjects usually having an even number of credits, this in practice means collecting **16 credits**).

Elective, professionally non-related subjects (subject X) can be taken up to 2% (**6 credits**). Students can also choose subjects announced as "compulsory elective" subjects as "elective" subjects.

Students can also take optional subjects at other faculties and departments of the institution, and the Faculty Credit Transfer Committee decides on their acceptance and the assessment of their credit point value.

In addition to the credit points required to obtain the diploma, the student can collect +30 credit points without the obligation to reimburse costs.

## LANGUAGE TRAINING

Students, to comply with these requirements, can participate in two types of language training:

The "**English language**" courses are recommended for students. The subject provides medical/pharmaceutical language skills in English for two semesters.

The "**Latin language**" is a compulsory course for pharmacy students at the Faculty of Pharmacy, and enrollment is recommended in the 1st semester. At the end of the weekly 2-hour course, the student's performance is evaluated by practical grade. The credit point value of the subject is 2.

A **Stipendium Hungaricum Scholarship holder** in full-time foreign language bachelor's and master's courses (including also one-tier master's degree) is required to attend the **Hungarian as a foreign language and culture course** (hereinafter referred to as the Hungarian abbreviation: MID) provided by the host institution in the first year of their studies in the SH Programme.

## PHYSICAL EDUCATION

Physical education is a criterion requirement for awarding the diploma. The students must **participate** in the 2-hour physical education courses for two semesters.

The Institute of Physical Education and Sports Science can grant an exemption for certified sports activities. No credit points are assigned to physical education; it concludes with a signature. The Study Committee of the University of Szeged, or according to the decision of its Senate in August 2023, the physical education subjects will be reclassified to an optional subject recognised with 2 credits in the case of the previously completed subject. The credits were assigned by subsequent crediting. Since the IT implementation of reclassifying physical education courses into a credit subject is time-consuming, it is still possible to register for non-credit physical education courses this semester. The credits will be recognised with subsequent crediting.

# EXTERNAL INTERNSHIPS OF PHARMACY STUDENTS

Pharmacy students participate in a summer internship after their 2nd, and 3rd year and in professional internships in the final year as follows:

## **PROFESSIONAL INTERNSHIPS:**

Course Supervisor: **Mária Budai-Szűcs PhD (54-5573)**  
Email: [budai-szucs.maria@szte.hu](mailto:budai-szucs.maria@szte.hu)

**Professional internship 1 (GYTK22A-901):** For 2nd-year students

The practice period is 4 weeks (40 hours/week).

Precondition: History of Pharmacy and Pharmaceutical Propedeutics (GYTK22A-401).

**Professional internship 2 (GYTKKAM512):** For 3rd-year students (The course registration is at the 1st semester of the 4th academic year)

The practice period is 4 weeks (40 hours/week).

Precondition: Pharmaceutical Technology 1 lecture (GYTKKAM221).

The student can spend the summer internships at a training place accredited by the SZTE Faculty of Pharmacy or accredited according to the conditions set by the Regulation of Vocational Education.

Summer internships can be completed in a public pharmacy, hospital/clinical pharmacy or pharmaceutical industry.

The purpose of the **public pharmacy internship** is to apply the knowledge the students have acquired during their university education in practice and gain insight into a pharmacy's professional work.

The **hospital/clinical pharmacy internship** aims to provide knowledge of the medication system of inpatient care and gain insight into pharmacists' professional work in hospitals/clinics.

The **pharmaceutical industry internship** aims to help develop the industrial pharmacist's approach and gain specific knowledge about the pharmaceutical factory's organizational structure and the production and control of pharmaceuticals.

## **PHARMACY INTERNSHIPS**

Course Supervisor: **Szilvia Berkó PhD**  
Email: [berko.szilvia@szte.hu](mailto:berko.szilvia@szte.hu)

**Pharmacy Internship 1 (GYTKKAM521K):** For 4th-year students (The course registration is at the 1st semester of the 5th academic year.)

The practice period is 9 weeks (40 hours/week) after the repeat examination period.

The "Professional Internship 1" course is part of the 9th semester of the curriculum, and the precondition is completing all compulsory subjects by the end of the 8th semester. Professional Internship 1 must be completed in a public pharmacy.

**Pharmacy Internship 2. (GYTKKAM522):** For 5th year students.

The period of the practice: 4 calendar months (40 hours/week), February 1 to May 31

Precondition: completion of all compulsory subjects included in the curriculum by the end of the 9th semester.

The "Professional Internship 2" course is part of the 10th semester of the curriculum. The precondition is the completion of all compulsory subjects included by the end of the 9th semester of the curriculum, as well as the collection of required credit points for compulsory elective and elective subjects by the end of the 9th semester.

Out of the 4 months, the student must spend 3 months in a public pharmacy and 1 month in a hospital or clinical pharmacy.

The student can spend the professional internships at a training place accredited by the SZTE Faculty of Pharmacy or accredited according to the conditions set by the Regulation of Vocational Education. In order to gain as much experience as possible, a professional internship in several public pharmacies is recommended. Hospital/clinical pharmacy internships can be completed at a single training location.

The professional internships aim to apply and develop the theoretical knowledge acquired at the university, with particular attention to pharmacodynamics, pharmaceutical technology, and pharmacy administration and management issues and to expand knowledge in the field of professionally correct application related to phytotherapeutic preparations sold in pharmacies. The candidate should gain experience with patients or in the correct communication to be established with the pharmacy's employees. Another goal of the internship is to deepen knowledge in the field of prescription pharmacy.

The hospital/clinical pharmacy internship aims to get an idea of the responsibilities of institutional pharmacies, to learn about the professional and management tasks of hospital/clinical pharmacies, the specific tasks of preparing medicines in the pharmacy, the pharmacy's information work and therapy support activities, as well as the quality assurance system of the pharmacy.

CURRENT CURRICULUM OF THE PHARMACY TRAINING IN THE ACADEMIC YEAR 2023/2024

**A new curriculum (OSZKGYO\_N\_EN\_2022) has been introduced starting from the academic year 2022/2023. The current recommended curriculum for students starting their studies in or after September 2022 is shown in the table below:**

Subject code	Subject name	Hours/week		Credit	Form of evaluation	Institute responsible for teaching the subject	Precondition
		Lect	Pract				
<b>Year I, Semester I</b>							
GYTK22A-001	Latin language (pract)		2	2	term mark		-
GYTK22A-101	Anatomy 1 (lect)	2		2	exam	Albert Szent-Györgyi Medical School, Department of Anatomy	-
GYTK22A-102	Physiology 1 (lect)	4		4	exam	Albert Szent-Györgyi Medical School, Department of Physiology	Physiology 1 (pract) (ER)
GYTK22A-103	Physiology 1 (pract)		2	2	term mark	Albert Szent-Györgyi Medical School, Department of Physiology	-
GYTK22A-104	Pharmaceutical Cell Biology and Genetics (lect)	3		3	exam	Albert Szent-Györgyi Medical School, Department of Medical Genetics	-
GYTK22A-105	Informatics (pract)		2	2	term mark	Albert Szent-Györgyi Medical School, Faculty of Science and Informatics, Department of Medical Physics and Informatics	-
GYTK22A-201	General Chemistry (lect)	2		3	exam	Faculty of Science and Informatics, Department of Physical Chemistry and Materials Science	General Chemistry (pract.) (ER)
GYTK22A-202	General Chemistry (pract)		4	3	term mark	Faculty of Science and Informatics, Department of Physical Chemistry and Materials Science	-
GYTK22A-203	Mathematics (lect)	2		3	exam	Faculty of Science and Informatics, Bolyai Institute	Mathematics (pract.) (ER)
GYTK22A-204	Mathematics (pract)		2	2	term mark	Faculty of Science and Informatics, Bolyai Institute	-
	Elective subject 1	2		2			-
	Foreign language	2		0			-
	Physical Education	1		0			-
<b>IN TOTAL</b>		<b>28</b>		<b>26</b>			

Subject code	Subject name	Hours/week		Credit	Form of evaluation	Institute responsible for teaching the subject	Precondition
		Lect	Pract				
<b>Year I, Semester II</b>							
GYTK22A-106	Anatomy 2 (lect)	2		2	exam	Albert Szent-Györgyi Medical School, Department of Anatomy	Anatomy 1 (ER)
GYTK22A-107	Physiology 2 (lect)	4		4	comprehensive exam	Albert Szent-Györgyi Medical School, Department of Physiology	Anatomy (lect) 1 (ER) Physiology 1 (lect) (ER) Physiology 2 (pract) (ER)
GYTK22A-108	Physiology 2 (pract)		2	2	term mark	Albert Szent-Györgyi Medical School, Department of Physiology	Physiology 1 (pract)
GYTK22A-205	Biostatistics (lect)	1		3	exam	Albert Szent-Györgyi Medical School, Faculty of Science and Informatics, Department of Medical Physics and Informatics	Mathematics (lect)
GYTK22A-206	Biostatistics (prac)		1	0	signature	Albert Szent-Györgyi Medical School, Faculty of Science and Informatics, Department of Medical Physics and Informatics	Mathematics (lect)
GYTK22A-207	Physics, Biophysics (lect)	4		5	exam	Faculty of Science and Informatics, Department of Experimental Physics	-
GYTK22A-208	Physics, Biophysics (pract)		2	2	term mark	Faculty of Science and Informatics, Department of Experimental Physics	-
GYTK22A-209	Quantitative Chemical Analysis (lect)	2		3	exam	Faculty of Science and Informatics, Department of Inorganic and Analytical Chemistry	General Chemistry (lect)
GYTK22A-301	Qualitative Chemical Analysis (lect)	2		3	exam	Faculty of Pharmacy, Institute of Pharmaceutical Chemistry	General Chemistry (lect) Qualitative Chemical Analysis (pract) (ER)
GYTK22A-302	Qualitative Chemical Analysis (pract)		4	4	term mark	Faculty of Pharmacy, Institute of Pharmaceutical Chemistry	General Chemistry (lect)
	Elective subject 2	2		2			
	Foreign language	2		0			
	Physical Education	1		0			
<b>IN TOTAL</b>		<b>29</b>		<b>30</b>			



Subject code	Subject name	Hours/week		Credit	Form of evaluation	Institute responsible for teaching the subject	Precondition
		Lect	Pract				
<b>Year II, Semester I</b>							
GYTK22A-109	Biochemistry (lect)	4		4	exam	Albert Szent-Györgyi Medical School, Department of Biochemistry	-
GYTK22A-110	Pathophysiology 1 (lect)	2		4	exam	Albert Szent-Györgyi Medical School, Department of Pathophysiology	Physiology 2 (lect)
GYTK22A-111	Pathophysiology 1 (pract)		2	0	signature	Albert Szent-Györgyi Medical School, Department of Pathophysiology	Physiology 2 (lect)
GYTK22A-112	Microbiology (lect)	3		3	exam	Albert Szent-Györgyi Medical School, Department of Medical Microbiology	Pharmaceutical Cell Biology and Genetics (lect) Physiology 2 (lect)
GYTK22A-113	Microbiology (pract)		2	2	term mark	Albert Szent-Györgyi Medical School, Department of Medical Microbiology	Pharmaceutical Cell Biology and Genetics (lect) Physiology 2 (lect)
GYTK22A-114	Immunology (lect)	1		1	exam	Albert Szent-Györgyi Medical School, Department of Immunology	Pharmaceutical Cell Biology and Genetics (lect) Physiology 2 (lect)
GYTK22A-210	Physical and Colloid Chemistry (lect)	2		3	exam	Faculty of Science and Informatics, Department of Physical Chemistry and Materials Science	Mathematics (lect) General Chemistry (lect)
GYTK22A-211	Quantitative Chemical Analysis (pract)		3	3	term mark	Faculty of Science and Informatics, Department of Inorganic and Analytical Chemistry	Quantitative Chemical Analysis (lect)
GYTK22A-303	Organic Chemistry 1 (lect)	4		5	exam	Faculty of Pharmacy, Institute of Pharmaceutical Chemistry	General Chemistry (lect) Organic Chemistry (pract) (ER)
GYTK22A-304	Organic Chemistry (pract)		6	5	term mark	Faculty of Pharmacy, Institute of Pharmaceutical Chemistry	General Chemistry (lect) Qualitative Chemical Analysis (lect)
	Foreign language	2		0			
<b>IN TOTAL</b>		<b>31</b>		<b>30</b>			

Subject code	Subject name	Hours/week		Credit	Form of evaluation	Institute responsible for teaching the subject	Precondition
		Lect	Pract				
<b>Year II, Semester II</b>							
GYTK22A-115	Pathophysiology 2 (lect)	2		4	exam	Albert Szent-Györgyi Medical School, Department of Pathophysiology	Pathophysiology 1 (lect) (ER)
GYTK22A-116	Pathophysiology 2 (pract)		2	0	signature	Albert Szent-Györgyi Medical School, Department of Pathophysiology	Pathophysiology 1 (pract)
GYTK22A-117	Public Health and Preventive Medicine (lect)	2		2	exam	Albert Szent-Györgyi Medical School, Department of Public Health	Pathophysiology 1 (lect) Microbiology (lect)
GYTK22A-212	Physical and Colloid Chemistry (pract)		4	3	term mark	Faculty of Science and Informatics, Department of Physical Chemistry and Materials Science	Physical and Colloid Chemistry (lect)
GYTK22A-305	Organic Chemistry 2 (lect)	3		5	comprehensive exam	Faculty of Pharmacy, Institute of Pharmaceutical Chemistry	Organic Chemistry 1 (lect)
GYTK22A-401	History of Pharmacy and Pharmaceutical Propedeutics (lect)	3		3	exam	Faculty of Pharmacy, Institute of Pharmaceutical Technology and Regulatory Affairs	-
GYTK22A-501	Pharmaceutical Botany (lect)	3		3	exam	Faculty of Pharmacy, Institute of Pharmacognosy	-
GYTK22A-502	Pharmaceutical Botany (pract)		2	2	term mark	Faculty of Pharmacy, Institute of Pharmacognosy	-
GYTK22A-601	Inorganic Chemistry (lect)	3		4	exam	Faculty of Pharmacy, Institute of Pharmaceutical Analysis	General Chemistry (lect)
GYTK22A-901	Summer internship 1		40	0	signature		History of Pharmacy and Pharmaceutical Propedeutics
	Elective subject 3	2		2			
	Elective subject 4	2		2			
	Foreign language	2		0			
<b>IN TOTAL</b>		<b>30</b>		<b>30</b>			

Subject code	Subject name	Hours/week		Credit	Form of evaluation	Institute responsible for teaching the subject	Precondition
		Lect	Pract				
<b>Year III, Semester I</b>							
GYTK22A-306	Pharmaceutical Chemistry 1 (lect)	4		4	exam	Faculty of Pharmacy, Institute of Pharmaceutical Chemistry	Quantitative Chemical Analysis (lect) Organic Chemistry 2 (lect) Pharmaceutical Chemistry 1 (pract) (ER)
GYTK22A-307	Pharmaceutical Chemistry 1 (pract)		6	5	term mark	Faculty of Pharmacy, Institute of Pharmaceutical Chemistry	Qualitative Chemical Analysis (lect) Quantitative Chemical Analysis (pract) Organic Chemistry 2 (lect)
GYTK22A-402	Ethics in Pharmacy (lect)	1		2	exam	Faculty of Pharmacy, Institute of Pharmaceutical Technology and Regulatory Affairs	History of Pharmacy and Pharmaceuti- cal Propedeutics
GYTK22A-403	Ethics in Pharmacy (pract)		1	0	signature	Faculty of Pharmacy, Institute of Pharmaceutical Technology and Regulatory Affairs	History of Pharmacy and Pharmaceuti- cal Propedeutics Ethics in Pharmacy
GYTK22A-404	Pharmaceutical Technology 1 (lect)	2		2	exam	Faculty of Pharmacy, Institute of Pharmaceutical Technology and Regulatory Affairs	Physical and Colloid Chemistry (lect) (ER) History of Pharmacy and Pharmaceuti- cal Propedeutics
GYTK22A-405	Pharmaceutical Communication (pract)		2	2	term mark	Faculty of Pharmacy, Institute of Pharmaceutical Technology and Regulatory Affairs	History of Pharmacy and Pharmaceuti- cal Propedeutics
GYTK22A-503	Pharmacognosy 1 (lect)	2		2	exam	Faculty of Pharmacy, Institute of Pharmacognosy	Organic Chemistry 2 (lect) Pharmaceutical Botany (lect) Pharmaceutical Botany (pract)
GYTK22A-504	Pharmacognosy 1 (pract)		4	3	term mark	Faculty of Pharmacy, Institute of Pharmacognosy	Organic Chemistry 2 (lect) Pharmaceutical Botany (lect) Pharmaceutical Botany (pract)
GYTK22A-701	Natural Treatments and Comple- mentary Medicine (lect)	2		2	exam	Faculty of Pharmacy, Institute of Pharmacodynamics and Bi- opharmacy	Pathophysiology 1 (lect)
GYTK22A-801	Dietetics (lect)	2		3	exam	Faculty of Pharmacy, Institute of Clinical Pharmacy	Physiology 2 (lect)
	Elective subject 5	2		2			
	Elective subject 6	2		2			
<b>IN TOTAL</b>		<b>30</b>		<b>29</b>			

Subject code	Subject name	Hours/week		Credit	Form of evaluation	Institute responsible for teaching the subject	Precondition
		Lect	Pract				
<b>Year III, Semester II</b>							
GYTK22A-308	Pharmaceutical Chemistry 2 (lect)	4		5	comprehensive exam	Faculty of Pharmacy, Institute of Pharmaceutical Chemistry	Pharmaceutical Chemistry 1 (lect) Pharmaceutical Chemistry 2 (pract) (ER)
GYTK22A-309	Pharmaceutical Chemistry 2 (pract)		6	5	term mark	Faculty of Pharmacy, Institute of Pharmaceutical Chemistry	Pharmaceutical Chemistry 1 (lect)
GYTK22A-406	Pharmaceutical Technology 2 (lect)	2		2	exam	Faculty of Pharmacy, Institute of Pharmaceutical Technology and Regulatory Affairs	Pharmaceutical Technology 1 (lect) (ER)
GYTK22A-407	Pharmaceutical Technology - Prescription Pharmacy 1 (pract)		3	3	term mark	Faculty of Pharmacy, Institute of Pharmaceutical Technology and Regulatory Affairs	History of Pharmacy and Pharmaceutical Propedeutics Pharmaceutical Technology 1 (P)
GYTK22A-408	Pharmaceutical Technology - Galenic preparations (pract)		3	3	term mark	Faculty of Pharmacy, Institute of Pharmaceutical Technology and Regulatory Affairs	History of Pharmacy and Pharmaceutical Propedeutics Pharmaceutical Technology 1 (P)
GYTK22A-409	Pharmaceutical Technology - Aseptic preparations (pract)		3	3	term mark	Faculty of Pharmacy, Institute of Pharmaceutical Technology and Regulatory Affairs	History of Pharmacy and Pharmaceutical Propedeutics Pharmaceutical Technology 1 (P)
GYTK22A-505	Pharmacognosy 2 (lect)	2		3	comprehensive exam	Faculty of Pharmacy, Institute of Pharmacognosy	Pharmacognosy 1 (lect)
GYTK22A-506	Pharmacognosy 2 (pract)		4	3	term mark	Faculty of Pharmacy, Institute of Pharmacognosy	Pharmacognosy 1 (pract)
GYTK22A-702	Biopharmacy (lect)	2		2	exam	Faculty of Pharmacy, Institute of Pharmacodynamics and Biopharmacy	Physiology 2 (lect) Biochemistry Biopharmacy (pract) (ER)
GYTK22A-703	Biopharmacy (pract)		3	2	term mark	Faculty of Pharmacy, Institute of Pharmacodynamics and Biopharmacy	Mathematics (pract) Physiology 2 (lect) Biochemistry (lect)
<b>IN TOTAL</b>		<b>32</b>		<b>31</b>			

Subject code	Subject name	Hours/week		Credit	Form of evaluation	Institute responsible for teaching the subject	Precondition
		Lect	Pract				
<b>Year IV, Semester I</b>							
GYTK22A-410	Pharmaceutical Technology 3	2		2	exam	Faculty of Pharmacy, Institute of Pharmaceutical Technology and Regulatory Affairs	Pharmaceutical Technology 2 (lect) (ER)
GYTK22A-411	Pharmaceutical Technology - Prescription Pharmacy 2 (pract)		3	3	term mark	Faculty of Pharmacy, Institute of Pharmaceutical Technology and Regulatory Affairs	Pharmaceutical Technology - Prescription Pharmacy 1 (pract)
GYTK22A-412	Pharmaceutical Technology - Solid Dosage Forms (pract)		4	3	term mark	Faculty of Pharmacy, Institute of Pharmaceutical Technology and Regulatory Affairs	Pharmaceutical Technology - Galenic preparations (pract)
GYTK22A-413	Drug Regulatory Affairs 1 (lect)	3		3	exam	Faculty of Pharmacy, Institute of Pharmaceutical Technology and Regulatory Affairs	Pharmaceutical Technology 2 (lect)
GYTK22A-602	Pharmaceutical Analysis (lect)	3		3	exam	Faculty of Pharmacy, Institute of Pharmaceutical Analysis	Pharmaceutical Chemistry 2 (lect) Pharmaceutical Analysis (pract) (ER)
GYTK22A-603	Pharmaceutical Analysis (pract)		5	4	term mark	Faculty of Pharmacy, Institute of Pharmaceutical Analysis	Pharmaceutical Chemistry 2 (lect)
GYTK22A-704	Pharmacodynamics 1 (lect)	3		3	exam	Faculty of Pharmacy, Institute of Pharmacodynamics and Biopharmacy	Pathophysiology 2 (lect) Biopharmacy (lect) Pharmacodynamics 1 (pract) (ER)
GYTK22A-705	Pharmacodynamics 1 (pract) (ER)		3	2	term mark	Faculty of Pharmacy, Institute of Pharmacodynamics and Biopharmacy	Pathophysiology 2 (lect) Biopharmacy (lect)
GYTK22A-802	Medical Aids and Equipment (lect)	2		2	exam	Faculty of Pharmacy, Institute of Clinical Pharmacy	Drug Regulatory Affairs 1 (lect) (P)
GYTK22A-902	Professional Internship 2		40		signature		Pharmaceutical Technology 1 (lect)
GYTK22A-1001	Preparation of Diploma Work 1		2	3	term mark		Pharmaceutical Technology 2 (lect) Pharmaceutical Chemistry 2 (lect) Biopharmacy (lect)
	Elective subject 7	2		2			
<b>IN TOTAL</b>		<b>32</b>		<b>30</b>			

Subject code	Subject name	Hours/week		Credit	Form of evaluation	Institute responsible for teaching the subject	Precondition
		Lect	Pract				
<b>Year IV, Semester II</b>							
GYTK22A-414	Pharmaceutical Technology 4 (lect)	2		4	comprehensive exam	Faculty of Pharmacy, Institute of Pharmaceutical Technology and Regulatory Affairs	Pharmaceutical Technology 3 (ER)
GYTK22A-415	Pharmaceutical Technology - Prescription Pharmacy 3 (pract)		3	3	term mark	Faculty of Pharmacy, Institute of Pharmaceutical Technology and Regulatory Affairs	Pharmaceutical Technology - Prescription Pharmacy 2 (pract)
GYTK22A-416	Pharmaceutical Technology - Investigation of Dosage Forms (pract)		4	3	term mark	Faculty of Pharmacy, Institute of Pharmaceutical Technology and Regulatory Affairs	Pharmaceutical Technology - Galenic preparations (pract) Pharmaceutical Technology - Aseptic preparations (pract) Pharmaceutical Technology - Solid Dosage Forms (pract)
GYTK22A-417	Drug Regulatory Affairs 2 (lect)	3		4	comprehensive exam	Faculty of Pharmacy, Institute of Pharmaceutical Technology and Regulatory Affairs	Drug Regulatory Affairs 1 (lect) (ER)
GYTK22A-418	Pharmaceutical Informatics (pract)		2	3	term mark	Faculty of Pharmacy, Institute of Pharmaceutical Technology and Regulatory Affairs	Pharmaceutical Technology 4 (P)
GYTK22A-507	Phytotherapy (lect)	2		2	exam	Faculty of Pharmacy, Institute of Pharmacognosy	Pharmacognosy 2 (lect) (P) Pharmacodynamics 2 (lect) (P)
GYTK22A-604	Pharmaceutical Biotechnology (lect)	2		2	exam	Faculty of Pharmacy, Institute of Pharmaceutical Analysis	Biochemistry (lect) Immunology (lect)
GYTK22A-706	Pharmacodynamics 2 (lect)	3		3	exam	Faculty of Pharmacy, Institute of Pharmacodynamics and Biopharmacy	Pharmacodynamics 1 (lect) Pharmacodynamics 2 (pract) (ER)
GYTK22A-707	Pharmacodynamics 2 (pract)		3	2	term mark	Faculty of Pharmacy, Institute of Pharmacodynamics and Biopharmacy	Pharmacodynamics 1 (pract)
GYTK22A-708	Clinical Laboratory Investigation (lect)	2		2	exam	Faculty of Pharmacy, Institute of Pharmacodynamics and Biopharmacy	Pathophysiology 2 (lect)
GYTK22A-803	First Aid és Nursing (lect)	2		2	exam	Faculty of Pharmacy, Institute of Clinical Pharmacy	Pharmacodynamics 1 (lect)
GYTK22A-804	Clinical Pharmacy and Pharmaceutical Care 1 (pract)		2	2	term mark	Faculty of Pharmacy, Institute of Clinical Pharmacy	Pharmacodynamics 1 (lect) Public Health and Preventive Medicine (lect)
GYTK22A-1002	Preparation of Diploma Work 2		2	3	term mark		Preparation of Diploma Work 1
<b>IN TOTAL</b>		<b>32</b>		<b>35</b>			

Subject code	Subject name	Hours/week		Credit	Form of evaluation	Institute responsible for teaching the subject	Precondition
		Lect	Pract				
<b>Year V, semester I</b>							
GYTK22A-709	Veterinary Pharmacy (lect)	2		2	exam	Faculty of Pharmacy, Institute of Pharmacodynamics and Biopharmacy	Pharmacodynamics 2 (lect)
GYTK22M-710	Pharmacodynamics 3 (lect)	3		4	comprehensive exam	Faculty of Pharmacy, Institute of Pharmacodynamics and Biopharmacy	Pharmacodynamics 2 (lect) Pharmacodynamics 3 (pract) (ER)
GYTK22A-711	Pharmacodynamics 3 (pract)		3	2	term mark	Faculty of Pharmacy, Institute of Pharmacodynamics and Biopharmacy	Pharmacodynamics 2 (pract)
GYTK22A-805	First Aid és Nursing (lect)		2	2	term mark	Faculty of Pharmacy, Institute of Clinical Pharmacy	Pharmacodynamics 2 (lect) First Aid és Nursing (lect)
GYTK22A-806	Clinical Pharmacy and Pharmaceutical Care 1 (pract)	2		2	exam	Faculty of Pharmacy, Institute of Clinical Pharmacy	Clinical Pharmacy and Pharmaceutical Care 1 (pract) Pharmacodynamics 2 (lect)
GYTK22A-807	Clinical Pharmacy and Pharmaceutical Care 2 (pract)		3	2	term mark	Faculty of Pharmacy, Institute of Clinical Pharmacy	Clinical Pharmacy and Pharmaceutical Care 1 (pract) Pharmacodynamics 2 (lect)
GYTK22A-808	Clinical Disciplines and Clinical Drug Therapy (lect)	3		3	exam	Faculty of Pharmacy, Institute of Clinical Pharmacy	Pharmacodynamics 2 (lect)
GYTK22A-903	Pharmacy Internship 1		40	8	term mark		
GYTK22A-1003	Preparation of Diploma Work 3		2	4	term mark		Preparation of Diploma Work 2
	Compulsory Elective Subjects	10		10			
	Elective subject 8	2		2			
<b>IN TOTAL</b>		<b>32</b>		<b>41</b>			

Subject code	Subject name	Hours/week		Credit	Form of evaluation	Institute responsible for teaching the subject	Precondition
		Lect	Pract				
<b>Year V, semester II</b>							
GYTK22A-904	Pharmacy Internship 2		40	16	term mark		

\*The number of hours varies depending on the chosen courses.

Subject code	Subject name	Hours/week		Credit	Form of evaluation	Institute responsible for teaching the subject	Precondition
		Lect	Pract				
<b>Compulsory Elective Subjects</b>							
GYTK22A-132KV	Evidence-Based Prevention and Health Promotion (lect)	2	2	2	exam	Albert Szent-Györgyi Medical School, Department of Public Health	Public Health and Preventive Medicine (lect)
GYTK22A-433KV	Quality Assurance (lect)	3	3	3	exam	Faculty of Pharmacy, Institute of Pharmaceutical Technology and Regulatory Affairs	Pharmaceutical Technology 4 (lect)
GYTK22A-631KV	Biopharmaceuticals (lect)	2	2	2	exam	Faculty of Pharmacy, Institute of Pharmaceutical Analysis	Pharmaceutical Cell Biology and Genetics (lect) Biochemistry (lect)
GYTK22A-731KV	Clinical Laboratory Investigations (pract)	1	1	2	term mark	Faculty of Pharmacy, Institute of Pharmacodynamics and Biopharmacy	Clinical Laboratory Investigations (lect)
GYTK22A-831KV	Clinical Pharmacy and Pharmaceutical Care 2 (lect)	2	2	2	exam	Faculty of Pharmacy, Institute of Clinical Pharmacy	Public Health and Preventive Medicine (lect) Biopharmacy (lect) Pharmacodynamics 2 (lect)



Subject code	Subject name	Hours/week		Credit	Form of evaluation	Institute responsible for teaching the subject	Precondition
		Lect	Pract				
<b>Elective subjects (1st and 2nd semesters)</b>							
GYTK22A-151SZV	Frontiers of Molecular Biology 1	2		2	Evaluation (five-grade)	Albert Szent-Györgyi Medical School, Department of Medical Biology	-
GYTK22A-152SZV	Frontiers of Molecular Biology 2	2		2	Evaluation (five-grade)	Albert Szent-Györgyi Medical School, Department of Medical Biology	-
GYTK22A-153SZV	Humangenetics	2		2	Exam	Albert Szent-Györgyi Medical School, Department of Medical Genetics	-
GYTK22A-551SZV	Chromatography	2		2	Evaluation (five-grade)	Institute of Pharmacognosy	-
GYTK22A-555SZV	Introduction to the Academic Research	2		2	Evaluation (five-grade)	Institute of Pharmacognosy	-
GYTK22A-651SZV	General Laws in Chemistry	2		2	Evaluation (five-grade)	Institute of Pharmaceutical Analysis	-
GYTK22A-652SZV	Bioinorganic Chemistry	2		2	Evaluation (five-grade)	Institute of Pharmaceutical Analysis	-
GYTK22A-654SZV	Radiochemistry	2		2	Evaluation (five-grade)	Institute of Pharmaceutical Analysis	-
GYTK22A-002	Hungarian Language and Culture 1	2		2	Evaluation (five-grade)		
GYTK22A-004	Hungarian Language and Culture 2	2		2	Evaluation (five-grade)		

**Elective subjects (3rd to 9th semesters)**

GYTK22A-352SZV	Computerised Literature Survey	1		2	Evaluation (five-grade)	Faculty of Pharmacy, Institute of Pharmaceutical Chemistry	
GYTK22A-006	Hungarian Language 1	2		2	Evaluation (five-grade)		
GYTK22A-007	Hungarian Language 2	2		2	Evaluation (five-grade)		

## CURRENT CURRICULUM OF THE PHARMACY TRAINING IN THE ACADEMIC YEAR 2023/2024

**The current curriculum for the 2023/2024 academic year for third- and fifth-year students (OSZKGYO\_N\_EN\_2017) who started their studies between 2017 and 2022 can be seen in the table below:**

Year III, Semester I								
Course Code	Course name	Hours/week			Credit	Form of examination	Institute responsible for teaching the subject	Precondition Parallel Completion (P) or Examination Requirement (ER)
		Lect	Pract	Lab Pract				
<b>Compulsory Subjects:</b>								
GYTKKAM181	Pharmacognosy 1	2			2	Exam	Institute of Pharmacognosy	GYTKKAM123 - Organic Chemistry 2 (lect) GYTKKAM142 - Pharmaceutical Botany (lect) GYTKKAM143 - Pharmaceutical Botany (pract)
GYTKKAM182	Pharmacognosy 1			4	3	Term Mark	Institute of Pharmacognosy	GYTKKAM123 - Organic Chemistry 2 (lect) GYTKKAM142 - Pharmaceutical Botany (lect) GYTKKAM143 - Pharmaceutical Botany (pract)
GYTKKAM191	Pathophysiology 1	2			4	Exam	Albert Szent-Györgyi Medical School, Department of Pathophysiology	GYTKKAM153 - Physiology 2 (lect) GYTKKAM154 - Physiology 2 (pract) GYTKKAM171 - Biochemistry (lect)
GYTKKAM192	Pathophysiology 1		2		0	Signature	Albert Szent-Györgyi Medical School, Department of Pathophysiology	GYTKKAM153 - Physiology 2 (lect) GYTKKAM154 - Physiology 2 (pract) GYTKKAM171 - Biochemistry (lect)
GYTKKAM201	Microbiology and Immunology	4			4	Exam	Albert Szent-Györgyi Medical School, Department of Microbiology	GYTKKAM071 - Pharmaceutical Biology (lect) GYTKKAM153 - Physiology 2 (lect) GYTKKAM171 - Biochemistry (lect)
GYTKKAM202	Microbiology and Immunology		2		2	Term Mark	Albert Szent-Györgyi Medical School, Department of Microbiology	GYTKKAM071 - Pharmaceutical Biology (lect) GYTKKAM153 - Physiology 2 (lect) GYTKKAM171 - Biochemistry (lect)
GYTKKAM221	Pharmaceutical Technology 1	2			2	Evaluation	Institute of Pharmaceutical Technology and Regulatory Affairs	GYTKKAM131 - Physical Chemistry (lect) GYTKKAM133 - Physical and Colloid Chemistry (pract) GYTKKAM161 - Colloid Chemistry (lect)
GYTKKAM231	Pharmaceutical Chemistry 1	4			4	Exam	Institute of Pharmaceutical Chemistry	GYTKKAM101 - Quantitative Chemical Analysis (lect) GYTKKAM123 - Organic Chemistry 2 (lect) <b>GYTKKAM232 - Pharmaceutical Chemistry 1 (pract) (ER)</b>
GYTKKAM232	Pharmaceutical Chemistry 1			6	5	Term Mark	Institute of Pharmaceutical Chemistry	GYTKKAM091 - Qualitative Chemical Analysis (lect) GYTKKAM104 - Quantitative Chemical Analysis (pract) GYTKKAM123 - Organic Chemistry 2 (lect)
GYTKKAM281	Ethics in Pharmacy	2			2	Exam	Institute of Pharmaceutical Technology and Regulatory Affairs	GYTKKAM511 - Professional Internship 1
<b>IN TOTAL</b>			30		<b>28</b>			
<b>Elective subjects:</b>								
	Elective subject 6	2			2	Evaluation		

Year III, semester II								
Course Code	Course name	Hours/week			Credit	Form of examination	Institute responsible for teaching the subject	Precondition Parallel Completion (P) or Examination Requirement (ER)
		Lect	Pract	Lab pract				
<b>Compulsory Subjects:</b>								
GYTKKAM183	Pharmacognosy 2	2			3	Comprehensive exam	Institute of Pharmacognosy	GYTKKAM181 - Pharmacognosy 1 (lect)
GYTKKAM184	Pharmacognosy 2			4	3	Term Mark	Institute of Pharmacognosy	GYTKKAM181 - Pharmacognosy 1 (lect) GYTKKAM182 - Pharmacognosy 1 (pract)
GYTKKAM193	Pathophysiology 2	2			4	Exam	Albert Szent-Györgyi Medical School, Department of Pathophysiology	GYTKKAM191 - Pathophysiology 1 (lect)
GYTKKAM194	Pathophysiology 2		2		0	Signature	Albert Szent-Györgyi Medical School, Department of Pathophysiology	GYTKKAM191 - Pathophysiology 1 (lect) GYTKKAM192 - Pathophysiology 1 (pract)
GYTKKAM222	Pharmaceutical Technology 2	2			2	Exam	Institute of Pharmaceutical Technology and Regulatory Affairs	GYTKKAM221 - Pharmaceutical Technology 1 (lect)
GYTKKAM223	Pharmaceutical Technology - Prescription Pharmacy 1			3	3	Term Mark	Institute of Pharmaceutical Technology and Regulatory Affairs	GYTKKAM221 - Pharmaceutical Technology 1 (lect)
GYTKKAM224	Pharmaceutical Technology - Galenic Preparations			3	3	Term Mark	Institute of Pharmaceutical Technology and Regulatory Affairs	GYTKKAM221 - Pharmaceutical Technology 1 (lect)
GYTKKAM233	Pharmaceutical Chemistry 2	4			5	Comprehensive exam	Institute of Pharmaceutical Chemistry	GYTKKAM231 - Pharmaceutical Chemistry 1 (lect) GYTKKAM234 - Pharmaceutical Chemistry 2 (pract) (ER)
GYTKKAM234	Pharmaceutical Chemistry 2			6	5	Term Mark	Institute of Pharmaceutical Chemistry	GYTKKAM231 - Pharmaceutical Chemistry 1 (lect) GYTKKAM232 - Pharmaceutical Chemistry 1 (pract)
GYTKKAM241	Biopharmacy	2			2	Exam	Institute of Pharmacodynamics and Bio- pharmacy	GYTKKAM153 - Physiology 2 (lect) GYTKKAM171 - Biochemistry (lect) GYTKKAM242 - Biopharmacy (pract) (ER)
GYTKKAM242	Biopharmacy		3		2	Term Mark	Institute of Pharmacodynamics and Bio- pharmacy	GYTKKAM021 - Mathematics (pract) GYTKKAM153 - Physiology 2 (lect) GYTKKAM171 - Biochemistry (lect)
<b>IN TOTAL</b>			33		<b>32</b>			

Year IV, semester I								
Course Code	Course name	Hours/week			Credit	Form of examination	Institute responsible for teaching the subject	Precondition Parallel Completion (P) or Examination Requirement (ER)
		Lect	Pract	Lab pract				
<b>Compulsory Subjects:</b>								
GYTKKAM225	Pharmaceutical Technology 3	2			2	Evaluation	Faculty of Pharmacy, Institute of Pharmaceutical Technology and Regulatory Affairs	GYTKKAM222 - Pharmaceutical Technology 2 (lect)
GYTKKAM226	Pharmaceutical Technology - Prescription Pharmacy 2		3		3	Term Mark	Faculty of Pharmacy, Institute of Pharmaceutical Technology and Regulatory Affairs	GYTKKAM222 - Pharmaceutical Technology 2 (lect) GYTKKAM223 - Pharmaceutical Technology - Prescription Pharmacy 1 (pract)
GYTKKAM227	Pharmaceutical Technology - Sterile and Aseptic Drug Formulations		3		3	Term Mark	Faculty of Pharmacy, Institute of Pharmaceutical Technology and Regulatory Affairs	GYTKKAM222 - Pharmaceutical Technology 2 (lect) GYTKKAM224 - Pharmaceutical Technology - Galenic Preparation (pract)
GYTKKAM251	Pharmacodynamics 1	3			3	Exam	Faculty of Pharmacy, Institute of Pharmacodynamics and Biopharmacy	GYTKKAM193 - Pathophysiology 2 (lect) GYTKKAM241 - Biopharmacy (lect) GYTKKAM252 - Pharmacodynamics 1 (pract) (ER)
GYTKKAM252	Pharmacodynamics 1		3		2	Term Mark	Faculty of Pharmacy, Institute of Pharmacodynamics and Biopharmacy	GYTKKAM153 - Physiology 2 (lect) GYTKKAM193 - Pathophysiology 2 (lect) GYTKKAM241 - Biopharmacy (lect)
GYTKKAM261	Pharmaceutical Analysis	3			3	Exam	Faculty of Pharmacy, Institute of Pharmaceutical Analysis	GYTKKAM233 - Pharmaceutical Chemistry 2 (lect) GYTKM262 - Pharmaceutical Analysis (pract) (ER)
GYTKKAM262	Pharmaceutical Analysis		5		4	Term Mark	Faculty of Pharmacy, Institute of Pharmaceutical Analysis	GYTKKAM233 - Pharmaceutical Chemistry 2 (lect)
GYTKKAM271	Public Health and Preventive Medicine	2			2	Exam	Albert Szent-Györgyi Medical School, Department of Public Health	GYTKKAM153 - Physiology 2 (lect) GYTKKAM193 - Pathophysiology 2 (lect) GYTKM201 - Microbiology and Immunology (lect)
GYTKKAM291	Drug Regulatory Affairs 1	3			3	Exam	Faculty of Pharmacy, Institute of Pharmaceutical Technology and Regulatory Affairs	GYTKKAM222 - Pharmaceutical Technology 2 (lect)
GYTKKAM411	Biotechnology	2			2	Exam	Faculty of Pharmacy, Institute of Pharmaceutical Analysis	GYTKKAM171 - Biochemistry (lect) GYTKKAM183 - Pharmacognosy 2 (lect) (P)
GYTKKAM512	Professional internship 2		40			Signature	Faculty of Pharmacy, Institute of Pharmaceutical Technology and Regulatory Affairs	GYTKKAM221 - Pharmaceutical Technology 1 (lect)
GYTKKAM1211	Preparation of Diploma Work 1		2		3	Term Mark	Institutes of the Faculty of Pharmacy	GYTKKAM222 - Pharmaceutical Technology 2 (lect) GYTKKAM233 - Pharmaceutical Chemistry 2 (lect) GYTKKAM241 - Biopharmacy (lect)
<b>IN TOTAL</b>			31		<b>30</b>			
<b>Elective subjects:</b>								
	Elective subject 7	2			2	Evaluation		

Year IV, Semester II								
Course Code	Course name	Hours/week			Credit	Form of examination	Institute responsible for teaching the subject	Precondition Parallel Completion (P) or Examination Requirement (ER)
		Lect	Pract	Lab pract				
<b>Compulsory Subjects:</b>								
GYTKKAM228	Pharmaceutical Technology 4	2			4	Comprehensive exam	Faculty of Pharmacy, Institute of Pharmaceutical Technology and Regulatory Affairs	GYTKKAM229 - Pharmaceutical Technology - Prescription Pharmacy 3 (pract) (ER) GYTKKAM595 - Pharmaceutical Technology - Tablet and Tablet Coating (pract) (ER) GYTKKAM596 - Pharmaceutical Technology - Investigation of Dosage Forms (pract) (ER)
GYTKKAM229	Pharmaceutical Technology - Prescription Pharmacy 3		3		3	Term Mark	Faculty of Pharmacy, Institute of Pharmaceutical Technology and Regulatory Affairs	GYTKKAM225 - Pharmaceutical Technology 3 (lect) GYTKKAM226 - Pharmaceutical Technology - Prescription Pharmacy 2 (pract)
GYTKKAM253	Pharmacodynamics 2	3			3	Exam	Faculty of Pharmacy, Institute of Pharmacodynamics and Biopharmacy	GYTKKAM251 - Pharmacodynamics 1 (lect) GYTKKAM254 - Pharmacodynamics 2 (pract) (ER)
GYTKKAM254	Pharmacodynamics 2		3		2	Term Mark	Faculty of Pharmacy, Institute of Pharmacodynamics and Biopharmacy	GYTKKAM251 - Pharmacodynamics 1 (lect)
GYTKKAM311	Drug Regulatory Affairs 2	3			4	Comprehensive exam	Faculty of Pharmacy, Institute of Pharmaceutical Technology and Regulatory Affairs	GYTKKAM291 - Drug Regulatory Affairs 1 (lect)
GYTKKAM351	Pharmaceutical Care 1		2		2	Term Mark	Faculty of Pharmacy, Institute of Clinical Pharmacy	GYTKKAM251 - Pharmacodynamics 1 (lect) GYTKKAM271 - Public Health and Preventive Medicine (lect)
GYTKKAM461	Phytotherapy	2			2	Exam	Faculty of Pharmacy, Institute of Pharmacognosy	GYTKKAM183 - Pharmacognosy 2 (lect)
GYTKKAM481	Clinical Laboratory Practice	2			2	Exam	Faculty of Pharmacy, Institute of Pharmacodynamics and Biopharmacy	GYTKKAM153 - Physiology 2 (lect) GYTKKAM193 - Pathophysiology 2 (lect)
GYTKKAM595	Pharmaceutical Technology - Tablet and Tablet Coating		4		3	Term Mark	Faculty of Pharmacy, Institute of Pharmaceutical Technology and Regulatory Affairs	GYTKKAM225 - Pharmaceutical Technology 3 (lect) GYTKKAM227 - Pharmaceutical Technology - Sterile and Aseptic Drug Formulations (pract)
GYTKKAM596	Pharmaceutical Technology - Investigation of Dosage Forms		4		3	Term Mark	Faculty of Pharmacy, Institute of Pharmaceutical Technology and Regulatory Affairs	GYTKKAM225 - Pharmaceutical Technology 3 (lect)
GYTKKAM991	Pharmacy Administration		1		1	Term Mark	Faculty of Pharmacy, Institute of Clinical Pharmacy	GYTKKAM291 - Drug Regulatory Affairs 1 (lect)
GYTKKAM1221	Preparation of Diploma Work 2		2		3	Term Mark	Institutes of the Faculty of Pharmacy	GYTKKAM1221 - Preparation of Diploma Work 1 (pract)
<b>IN TOTAL</b>			31		32			

Year V, semester I								
Course Code	Course name	Hours/week			Credit	Form of examination	Institute responsible for teaching the subject	Precondition Parallel Completion (P) or Examination Requirement (ER)
		Lect	Pract	Lab pract				
<b>Compulsory Subjects:</b>								
GYTKKAM255	Pharmacodynamics 3	3			4	Comprehensive exam	Faculty of Pharmacy, Institute of Pharmacodynamics and Biopharmacy	GYTKKAM253 - Pharmacodynamics 2 (lect) GYTKKAM256 - Pharmacodynamics 3 (pract) (ER)
GYTKKAM256	Pharmacodynamics 3		3		2	Term Mark	Faculty of Pharmacy, Institute of Pharmacodynamics and Biopharmacy	GYTKKAM253 - Pharmacodynamics 2 (lect)
GYTKKAM321	Veterinary Pharmacy	2			2	Exam	Faculty of Pharmacy, Institute of Pharmacodynamics and Biopharmacy	GYTKKAM253 - Pharmacodynamics 2 (lect)
GYTKKAM331	Basic Clinical Disciplines and Clinical Drug Therapy	3			3	Exam	Faculty of Pharmacy, Institute of Clinical Pharmacy	GYTKKAM153 - Physiology 2 (lect) GYTKKAM193 - Pathophysiology 2 (lect) GYTKKAM253 - Pharmacodynamics 2 (lect)
GYTKKAM341	Clinical Pharmacy 1	2			2	Exam	Faculty of Pharmacy, Institute of Clinical Pharmacy	GYTKKAM253 - Pharmacodynamics 2 (lect) GYTKKAM271 - Public Health and Preventive Medicine (lect)
GYTKKAM352	Pharmaceutical Care 2		3		2	Term Mark	Faculty of Pharmacy, Institute of Clinical Pharmacy	GYTKKAM351 - Pharmaceutical Care 1
GYTKKAM371	Natural Treatments and Complementary Medicine	2			2	Exam	Faculty of Pharmacy, Institute of Pharmacodynamics and Biopharmacy	GYTKKAM183 - Pharmacognosy 2 (lect) GYTKKAM253 - Pharmacodynamics 2 (lect)
GYTKKAM521	Pharmacy Internship 1		40		8	Term Mark	Faculty of Pharmacy, Institute of Pharmaceutical Technology and Regulatory Affairs	GYTKKAM031 - Informatics (pract) GYTKKAM044 - Physics-Biophysics (pract) GYTKKAM105 - Quantitative Chemical Analysis - Calculation (sem) GYTKKAM184 - Pharmacognosy 2 (pract) GYTKKAM194 - Pathophysiology 2 (pract) GYTKKAM202 - Microbiology and Immunology (pract) GYTKKAM228 - Pharmaceutical Technology 4 (lect) GYTKKAM253 - Pharmacodynamics 2 (lect) GYTKKAM261 - Pharmaceutical Analysis (lect) GYTKKAM281 - Ethics in Pharmacy (lect) GYTKKAM311 - Drug Regulatory Affairs 2 (lect) GYTKKAM351 - Pharmaceutical Care 1 (pract) GYTKKAM411 - Biotechnology (lect) GYTKKAM461 - Phytotherapy (lect)

								GYTKKAM481 - Clinical Laboratory Investigations (lect) GYTKKAM511 - Professional Internship 1 GYTKKAM512 - Professional Internship 2 GYTKKAM531 - First Aid and Resuscitation (lect) GYTKKAM531 - First Aid and Resuscitation (pract) GYTKKAM541 - Biostatistics (lect) GYTKKAM542 - Biostatistics (pract) GYTKKAM981 - Latin language (pract) GYTKKAM991 - Pharmacy Administration (pract) GYTKKAM1221 - Preparation of Diploma Work 2 (pract)
GYTKKAM1231	Preparation of Diploma Work 3		2		4	Term Mark	Institutes of the Faculty of Pharmacy	GYTKKAM1221 - Preparation of Diploma Work 2 (pract)
<b>IN TOTAL</b>			20		29			
<b>Compulsory Elective Subjects:</b>								
GYTKKAM421	Quality Assurance	3			3	Exam	Faculty of Pharmacy, Institute of Pharmaceutical Technology and Regulatory Affairs	GYTKKAM228 - Pharmaceutical Technology 4 (lect)
GYTKKAM471	Clinical Pharmacy 2 Ward pharmacy	2			2	Exam	Faculty of Pharmacy, Institute of Clinical Pharmacy	GYTKKAM241 - Biopharmacy GYTKKAM253 - Pharmacodynamics 2 (lect) GYTKKAM271 - Public Health and Preventive Medicine (lect)
GYTKKAM482	Clinical Laboratory Practice		1		2	Term Mark	Faculty of Pharmacy, Institute of Pharmacodynamics and Biopharmacy	GYTKKAM481 - Clinical Laboratory Investigations (lect)
GYTKKAM1331	Evidence-Based Prevention and Health Promotion	2			2	Exam	Albert Szent-Györgyi Medical School, Department of Public Health	GYTKKAM271 - Public Health and Preventive Medicine (lect)
GYTKKAM1341	Biopharmaceuticals	2			2	Exam	Faculty of Pharmacy, Institute of Pharmaceutical Analysis	GYTKKAM071 - Pharmaceutical Biology (lect) GYTKKAM171 - Biochemistry (lect)
GYTKKAM1351	Pharmaceutical Psychology and Communication	2			2	Exam	Faculty of Pharmacy, Institute of Pharmaceutical Technology and Regulatory Affairs	GYTKKAM253 - Pharmacodynamics 2 (lect) GYTKKAM512 - Professional Internship 2 (pract)
<b>IN TOTAL</b>					10			
<b>Elective subjects:</b>								
	Elective subject 8				2	Evaluation		

\* The number of hours varies depending on the chosen courses.



Year V, semester II								
Course Code	Course name	Hours/week			Credit	Form of examination	Institute responsible for teaching the subject	Precondition parallel completion (P) or examination requirement (ER)
		Lect	Pract	Laboratory pract.				
GYTKKAM522	Pharmacy Internship 2		40		16	Term Mark	Faculty of Pharmacy, Institute of Pharmaceutical Technology and Regulatory Affairs	GYTKKAM255 - Pharmacodynamics 3 (lect) GYTKKAM321 - Veterinary Pharmacy GYTKKAM331 - Basic Clinical Disciplines and Clinical Drug Therapy GYTKKAM341 - Clinical Pharmacy 1 (lect) GYTKKAM352 - Pharmaceutical Care 2 (pract) GYTKKAM371 - Natural Treatments and Complementary Medicine (lect) GYTKKAM511 - Professional Internship 1 GYTKKAM512 - Professional Internship 2 GYTKKAM521 - Pharmacy Internship 1 GYTKKAM1231 - Preparation of Diploma Work 3 (pract) as well as collecting required credit points for compulsory elective and elective subjects by the end of the 9th semester.
<b>IN TOTAL</b>					<b>16</b>			
Elective subjects (1st to 6th semesters):								
Course Code	Course name	Hours/week			Credit	Form of examination	Institute responsible for teaching the subject	
		Lect	Pract	Lab pract				
GYTKKAM621	Humangenetics	2			2	Exam	Albert Szent-Györgyi Medical School, Department of Medical Genetics	
GYTKKAM641	Bioinorganic Chemistry	2			2	Evaluation	Faculty of Pharmacy, Institute of Pharmaceutical Analysis	
GYTKKAM781	Computer Literature	1			2	Evaluation	Faculty of Pharmacy, Institute of Pharmaceutical Chemistry	
GYTKKAM891	Radiochemistry	2			2	Evaluation	Faculty of Pharmacy, Institute of Pharmaceutical Analysis	
GYTKKAM901	General Laws in Chemistry	2			2	Evaluation	Faculty of Pharmacy, Institute of Pharmaceutical Analysis	
GYTKKAM1241	Frontiers of Molecular Biology 1	2			2	Evaluation	Albert Szent-Györgyi Medical School, Department of Medical Biology	
GYTKKAM1242	Frontiers of Molecular Biology 2	2			2	Evaluation	Albert Szent-Györgyi Medical School, Department of Medical Biology	

Elective subjects (7th to 9th semesters):							
Course Code	Course name	Hours/week			Credit	Form of examination	Institute responsible for teaching the subject
		Lect	Pract	Lab pract			
Elective subject (9th semester):							

# THESIS AND BOARD EXAM

The Board examination verifies and evaluates the knowledge, skills and abilities required to obtain the diploma, during which the student must also prove that he can apply the knowledge he has learned. As the curriculum specifies, the final state board examination consists of writing and defending a thesis, passing a complex written test, and practical (prescription pharmacy) and oral examinations.

## ASPECTS OF THE PREPARATION OF THE THESIS

The student works on a topic recommended by the institution or – in some cases – chosen by himself and approved by the relevant department.

### Thesis topic selection date:

**September-October in every academic year.**

### Deadline for the submission of the thesis:

**September 15, 2023 and March 11, 2024**

### Ideal margins:

Top 3.2 cm (if the page number is on the top)

Bottom: 2.0–2.5 cm

Left: 2.8–3.2 cm (document binding)

Right: 2.0–2.5 cm

### Ideal font and font size:

Arial, Calibri, Times New Roman, 11-12 points

The **thesis aims** to gain more profound, more detailed, research-level knowledge in a subject area than the taught material and help develop the skills necessary for independent scientific work. The candidate's task is to get to know and master the methods used in the given research area (experimental work), to carry out extensive, general and systematic literature work on a topic (literary work), and to gain publishing experience. In the public defence of the thesis, the candidate proves that he has acquired the above knowledge with his presentation and debate skills.

In the case of theses, it is recommended to choose experimental work if possible. However, literary work is also accepted due to the cubature and financial limitations of the host institutes.

Thesis can be prepared in any subject taken by the students, in all Institutes that train pharmacy students, or at other research sites approved by the Dean. The thesis supervisor can be a lecturer appointed by the Head of the Institute. The dean of the Faculty of Pharmacy may permit deviations from this.

The *experimental thesis* usually contains the following chapters (the order and title of the chapters can be changed according to the customs of the given subject area):

**Introduction, aims** (brief description of the topic or the problem and definition of goals)

**Literature overview** (a synthetic description of the background of the theme or sub-theme based on original publications)

**Materials and Methods**(description of applied experimental methods, specific experiments)

**Results and Discussion** (discussion of the results and conclusions)

**Summary** (concise, factual description of the results achieved)

**Bibliography** (listing of the literature used) The literature specification should be consistent and comply with the customs accepted and applied in the given subject area.

A *literary thesis* is an independent processing of a topic, primarily based on original publications.

The **literary work** usually contains the following chapters:

**Introduction** (brief description of the topic or the task, definition of the literature survey method)

**Overview of the literature data** (this is the main chapter of the thesis). This chapter contains the organising and synthetic processing of the original papers published. It is advisable to divide the topic into subsections according to the nature of the topic.

**Summary** (concise description of the presented results, concluding)

**Bibliography** (listing of the literature used) The literature specification should be consistent and comply with the customs accepted and applied in the given subject area.

The thesis must be uploaded electronically in Modulo only in PDF format. The timetable of the thesis and the English-Hungarian summary must be submitted in original copies, as well as the declaration of the authenticity of the thesis in one original copy and as an attachment to the thesis, also in PDF format, to the Registrar's Office.

The inside title page should include the author's name, the thesis's designation, the thesis, the title of the thesis, the name of the institute where the dissertation was prepared and the year of preparation. The length of the thesis should be 25–60 A/4 size printed pages (26–30 lines/page, depending on the font and size). The style of the thesis should be fluid, and its wording should be clear and linguistically correct. The text must comply with valid scientific spelling rules. Individual chapters of the thesis should be proportional according to the nature of the topic.

## BOARD EXAM

After obtaining the absulotory, the candidates for doctor of pharmacy will take a written (test of general pharmaceutical knowledge), oral (knowledge of drug supply – management of situations occurring in practice) and practical exam (medicine preparation tasks).

The theoretical part of the pharmacy final exam is based on processing a practical problem that may occur in a public or hospital pharmacy practice. The candidates draw out a short description of a situation as an item, and the task is to solve the raised problem, which is usually multi-directional and detailed information for the patient presenting the situation. The information primarily concerns the correct use of medicines. However, the answer must include the theoretical foundations on which the information provided is based, which should not be explained to a lay patient in a real situation. Each of the three topics is available to the candidates, and they cover all the knowledge necessary to pass the exam. Each of the three topics is available to the candidates, and they cover all the knowledge necessary to pass the exam.

The pharmacological and therapeutic characterisation of a pharmacological group is part of the solution to every situation that includes the definition and division of the given group and the description of its representatives used in therapy (indications, contraindications, side effects, interactions, most important chemical properties, structure-effect relationships). It is essential to refer to the non-pharmacological treatment options of the symptom that represent the indication or lifestyle actions that can be recommended for drug therapy. It is advisable to recommend over-the-counter or medicinal products containing herbs where justified.

Pharmaceutical technology parts of the situations can be the pharmaceutical forms relevant to the given patient, in which case the description should cover their production, most important properties and stability. It is also expected to touch on the technological and biopharmaceutical aspects that determine the use of the preparations that arise (e.g., the ability to divide tablets).

The situations must be resolved within the scope defined by the applicable norms and rules, as in pharmacy practice, for which knowledge of them is essential. These rules affect the entire pharmaceutical activity (the pharmacy, the medicine, and the patient). Every situation contains some aspect of professional administration; demonstrating awareness of these is also part of the final exam.

The committee evaluates the knowledge material for each subject with a separate partial mark. However, the undisclosed purpose of the final exam based on a practical situation is to judge how well the candidates can apply the knowledge acquired at the Faculty and how well they integrate the knowledge material assigned to each subject in a real-life situation.

# DOCTORAL SCHOOL OF PHARMACEUTICAL SCIENCES

Chair: **JUDIT HOHMANN PHD, DSc**

Vice-chair: **ZSOLT SZAKONYI PHD, DSc**

## Academic Programs

### 1. PHARMACOGNOSY

Program director: **Judit Hohmann PhD, DSc**

### 2. PHARMACEUTICAL ANALYSIS

Program Director: **István Ilisz PhD, DSc**

### 3. PHARMACODYNAMICS, BIOPHARMACY, CLINICAL PHARMACY

Program Director: **István Zupkó PhD, DSc**

### 4. PHARMACEUTICAL CHEMISTRY, PHARMACEUTICAL RESEARCH

Program Director: **István Szatmári PhD, DSc**

### 5. PHARMACEUTICAL TECHNOLOGY AND REGULATORY STUDIES

Program Director: **Ildikó Csóka PhD**

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**Manuscript closed: October 31, 2023**