



GODIŠNJAK FARMACEUTSKOG FAKULTETA za školsku 2020/2021. godinu

Univerzitet u Beogradu  
Farmaceutski fakultet

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# **Godišnjak Farmaceutskog fakulteta**

za školsku 2020/2021. godinu

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## 2. Nastavne aktivnosti na Univerzitetu u Beogradu – Farmaceutskom fakultetu u akademskoj 2020/2021. godini

Tokom akademske 2020/2021. godine, nastavu na integrisanim akademskim studijama na Farmaceutskom fakultetu Univerziteta u Beogradu pohađalo je ukupno 2214 studenata na studijskim programima Farmacija i Farmacija – medicinska biohemija. Teorijska i praktična nastava održavana je u terminima koji su bili definisani Rasporedom nastave. Tokom jesenjeg semestra, na Farmaceutskom fakultetu održana je nastava iz 58 predmeta, a tokom prolećnog semestra iz 65 predmeta. Teorijska nastava je u potpunosti realizovana onlajn. Praktična nastava održana je hibridno, kao kombinacija onlajn nastave preko platforme *Webex* ili lekcija na platformi za e-učenje *Lectio* i eksperimentalnih vežbi u laboratorijama Fakulteta. Laboratorijske vežbe u vežbaonicama Fakulteta sprovedene su uz poštovanje svih preporučenih epidemioloških mera. Nastava na predmetima Studentska stručna praksa na oba studijska programa, kao i nastava na predmetu Uvod u studentsku stručnu praksu na studijskom programu Farmacija, održana je preko platforme za e-učenje *Lectio*, pošto je odlazak studenata u nastavne baze apoteke/biohemijske laboratorije predstavljao veliki epidemiološki rizik.

Postojeći kurs Obuka za Moodle, na platformi *Lectio*, bio je dostupan svim nastavnicima i saradnicima. U okviru ovog kursa, objavljena su uputstva za različite opcije (aktivnosti i resurse): Kratko uputstvo za objavljivanje video klipova, Dodatne smernice za različite aktivnosti i resurse, kao i Opšte preporuke za održavanje kolokvijuma na daljinu, Opšte informacije za studente o održavanju onlajn kolokvijuma i Dodatne informacije za studente za polaganje kolokvijuma na daljinu na *Moodle* platformi. Na platformi za učenje na daljinu *Lectio* (*Moodle* platforma) otvoren je kurs Onlajn nastava – tehnička uputstva. Imajući u vidu različite izazove, uključujući tehničke, ali i pedagoške aspekte realizacije nastave onlajn, članovi Komisije za praćenje i unapređenje nastave pripremili su dokument sa osnovnim smernicama Nastava i učenje u onlajn okruženju. Pored navedenog dokumenta, u okviru kursa objavljena su i praktična uputstva za korišćenje *Webex* sistema u realizaciji nastave. Nadamo se da će u tom smislu pozitivne podsticaje dati aktivno učešće na projektu, koji se otpočeo sa realizacijom 1. marta 2021. godine u okviru ERASMUS+ K2 programa (2020-1-RS01-KA226-HE-094538). Ovaj projekat nosi naziv „Podsticajna nastava za aktivno učenje i

uspeh studenata u onlajn okruženju”, odnosno “*Effective teaching for student engagement and success in digital learning environment (StudES)*”, a značajan je za ceo Beogradski univerzitet, koji, kao i ostale partnerske institucije, deli zajednički interes za stalno poboljšanje kvaliteta nastave i procesa učenja. Rukovođenje projektom povereno je upravo našem Fakultetu zbog dosadanih iskustava i prepoznatih rezultata dobre prakse u nastavi na daljinu, ne samo tokom pandemije, već i pre nje. Pored prof. dr Anđelije Malenović, koja je rukovodilac projekta, članovi tima ispred našeg Fakulteta su i prof. dr Jelena Parojčić, prof. dr Ana Protić i prof. dr Danijela Đukić-Ćosić. Kako se u projektu navodi, ciljevi koji treba da se postignu u naredne dve godine trajanja projekta su: (i) razvoj plana za formiranje podsticajnog okruženja za učenje u digitalnom okruženju, (ii) razvoj zajedničkog programa obuke za sticanje kompetencija univerzitetskih nastavnika za izvođenje nastave u digitalnom okruženju, i (iii) razvoj standarda kvaliteta i smernica za nastavu i učenje u digitalnom okruženju. Svi dosadašnji i budući rezultati StudES projekta mogu se pratiti preko vebajta projekta (<https://studes.studije.rect.bg.ac.rs>), kao i preko LinkedIn profila projekta (<https://www.linkedin.com/company/74518673>).

U januaru 2021. godine, po preporuci Senata Univerziteta u Beogradu, na Farmaceutskom fakultetu sprovedena je analiza rezultata po pitanju odnosa broja studenata koji su upisali određeni predmet, i broja studenata koji su ostvarili pravo izlaska na ispit u prvom (januarskom) roku. Zaključeno je da je u toku jesenjeg semestra, akademske 2020/2021. godine, na Univerzitetu u Beogradu – Farmaceutskom fakultetu najveći broj studenata, upisanih na pojedine predmete, uspešno realizovao predispitne aktivnosti i ostvario potreban broj poena za izlazak na ispit u januarskom ispitnom roku. Studentima, koji nisu položili obavezne kolokvijume, omogućeno je da potrebne predispitne poene ostvare polaganjem kolokvijuma u naknadnim terminima, koji su organizovani na početku svakog redovnog ispitnog roka.

U skladu sa higijensko-epidemiološkim merama zaštite, Komisija za praćenje i unapređenje kvaliteta nastave pripremila je Preporuke za održavanje pisanih provera znanja i usmenih ispita na Farmaceutskom fakultetu tokom januarskog i februarskog ispitnog roka. Navedena pravila primenjivana su i u narednim ispitnim rokovima, kao i za vreme održavanja prijemnog ispita za upis u prvu godinu integrisanih akademskih studija.

Povećana je efikasnosti prijave kandidata za upis na Univerzitet u Beogradu – Farmaceutski fakultet organizovanjem elektronskog pretprijavljanja kandidata krajem juna meseca. U prvom konkursnom roku, za upis u prvu godinu integrisanih akademskih studija u akademskoj 2021/2022. godini, na Farmaceutski fakultet prijavilo se ukupno 572 kandidata. Od tog broja, dva kandidata po afirmativnoj akciji, kao pripadnici romske nacionalne manjine, a na studijski program Farmacija na engleskom jeziku prijavila su se dva kandidata. Na oba studijska programa prijavilo se 543 kandidata: samo na studijski program Farmacija prijavilo se 19 kandidata, a samo na studijski program Farmacija – medicinska biohemija prijavilo se 8 kandidata, i dva kandidata na studijski program Farmacija, koji je akreditovan na engleskom jeziku.

## Teaching Activities at the University of Belgrade – Faculty of Pharmacy in the Academic Year 2020/2021

In the academic year 2020/2021, within the integrated academic studies at the University of Belgrade – Faculty of Pharmacy, 2214 students attended classes in the study programmes Pharmacy and Pharmacy – Medical Biochemistry. Theoretical and practical classes were held at times defined by the Teaching Schedule. Classes at the Faculty of Pharmacy, University of Belgrade, were held for 58 subjects during the fall semester and for 65 subjects in the spring semester. Theoretical classes were entirely held online. Practical classes were held in a hybrid way, as a combination of online classes via the *Webex* platform, or lessons on the *Lectio* e-learning platform and experimental exercises in the laboratories of the Faculty. Laboratory exercises in the laboratories of the Faculty were held in compliance with all recommended epidemiological measures. Classes for the subject Student Professional Practice (within both study programmes), as well as for the subject Introduction to Student Professional Practice (only for the study programme Pharmacy), were held through the e-learning platform *Lectio* since the students could not go to their teaching bases, pharmacies/biochemical laboratories.

The existing *Moodle* Training Course on the platform *Lectio* was available to all the teachers and associates. Within this course, instructions for various options (activities and resources), Short instructions for publishing video clips, Additional guidelines for various activities and resources, as well as General recommendations for organising online colloquia, General information for students on online colloquia, and Additional information for students on taking online colloquia via the *Moodle* platform were published. Within the distance learning platform *Lectio* (*Moodle* platform), the course for online teaching – technical instructions was open. Bearing in mind different challenges, including the technical aspects, and the pedagogical challenges of teaching online, the Committee for Monitoring and Improving the Quality of Teaching (CMIQT) prepared a document Teaching and Learning Online with basic instructions. In addition to this document, a number of practical instructions for using the *Webex* platform in teaching were published within the course.

We hope that in those terms, active participation will give positive incentives to the project, which implementation has started on the 1<sup>st</sup> of March 2021, within the ERASMUS + K2 Programme (2020-1-RS01-KA226-HE-094538). The project is entitled “Effective teaching for student engagement and success in digital learning environment (StudES)». It is of utmost importance for the entire University of Belgrade, which is also interested in continual improvement of the quality of teaching and learning process, as well as the other partner institutions. The management of the project has been entrusted to our Faculty due to previous experience and well recognised results of good practice in distance learning, not only during the pandemic but also before it.

Apart from Prof. Dr. Anđelija Malenović, who is the project coordinator, members of the team in front of our Faculty are also Prof. Dr. Jelena Parojčić, Prof. Dr. Ana Protić i Prof. Dr. Danijela Đukić-Čosić.

As the title of the project indicates, the aims we would like to achieve during the implementation of the project in the next two years are: (i) development of a plan for creating a stimulating learning environment in digital environment; (ii) development of a joint training programme, designed for university teachers to acquire competences for teaching in digital environment, and (iii) development of standards and guidelines for teaching and learning in digital environment.

All previous and future results of the StudES Project can be followed on the website of the project (<https://studes.studije.rect.bg.ac.rs>), as well as via LinkedIn profile of the Project (<https://www.linkedin.com/company/74518673>).

In January 2021, following the recommendation of the Senate of the University of Belgrade, an analysis of the results regarding the number of students enrolled in a particular subject and the number of students eligible to take the exam in the first (January) session was conducted. It was concluded that the majority of students enrolled in particular subjects successfully completed the prerequisites and acquired the needed points to take the exam in the 2020/2021 January session. Students, who did not pass the obligatory colloquia, were allowed to acquire the needed prerequisites by taking colloquia in additional terms, organised at the beginning of every regular exam session.

Following the hygienic-epidemiologic protective measures, the Committee for Monitoring and Improving the Quality of Teaching (CMIQT) prepared recommendations for holding written tests and oral exams at the Faculty of Pharmacy during the January and February exam sessions. The previously mentioned rules were also applied in the later exam sessions, and during the entrance exam for enrolling in the first year of integrated academic studies.

The efficiency of the application process at the University of Belgrade – Faculty of Pharmacy was improved by organising electronic pre-application system of the candidates at the end of June 2021. Within the first deadline of the competition for enrolment in the first year, at the integrated studies in the 2021/2022 academic year, 572 candidates applied at the University of Belgrade – Faculty of Pharmacy. Of that number, two candidates were enrolled by affirmative action as members of the Gypsy national minority, and two candidates were enrolled in the study programme Pharmacy in the English language. A total of 543 candidates applied for both programmes: 19 candidates applied for the study programme Pharmacy, 8 candidates applied for the study programme Pharmacy – Medical Biochemistry, and 2 candidates applied for the study programme Pharmacy in the English language.

After holding the entrance exam, two candidates acquired maximum points. After the roll call for the study programme Pharmacy, the last state budget-funded student had 69.74 points, and the last enrolled self-funded student had 60.48 points. After the roll call for the study programme Pharmacy – Medical Biochemistry, the last enrolled state budget-funded student had 71.68 points, and the last self-funded student had 63.48.

A formal reception of the first-year students was held on Thursday, 30<sup>th</sup> September 2021, and on Friday, 1<sup>st</sup> October 2021, in compliance with all the hygienic-epidemiologic measures. The greeting word to the first-year students held the

Dean of the Faculty, Prof. Dr. Slađana Šobajić. The Vice-Dean for Teaching, Prof. Dr. Anđelija Malenović, introduced the students to the study programmes Pharmacy and Pharmacy – Medical Biochemistry, explained to them the administrative procedure of enrolment, the functioning of the mentoring system at the Faculty, and the procedure of accessing the courses at the e-learning platform *Lectio*. The teachers in charge of the subjects in the first semester also addressed the students and briefly introduced them to their obligations in the fall semester.

The efficiency of students' enrolment was significantly improved by electronic registration of subjects, which was carried out from the 30<sup>th</sup> of September 2021 to the 6<sup>th</sup> of October 2021. In addition, students could access administrative enrolment from the 1<sup>st</sup> of October 2021 to the 31<sup>st</sup> of October 2021 to ensure they maintain physical distance and respect the hygienic-epidemiologic measures due to the Covid-19 pandemic.

Prof. Dr. Anđelija Malenović  
Vice-Dean for Teaching



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## **Postgraduate Teaching and Continuing Education at the University of Belgrade – Faculty of Pharmacy**

During 2020/2021, we initiated teaching at the re-accredited study programme of Doctoral Academic Studies (DAS) – Pharmaceutical Sciences. The programme lasts three years and has 180 ECTS credits. It includes compulsory subjects in which students acquire knowledge of ethics, statistics and the methodology of scientific research as well as transferable skills such as critical evaluation of literature, communication, preparation of project documentation and presentation skills. Study programme DAS – Pharmaceutical Sciences also implies elective subjects, which enable future PhDs to acquire knowledge in various disciplines of pharmaceutical sciences and interdisciplinarity.

As part of the new study programme, classes in the compulsory subject Critical Evaluation of Literature were held for the first time. Through this course, future PhDs had the opportunity to acquire knowledge and skills to assess the quality of scientific research papers and independent writing of reviews for a scientific research paper. Critical mind and critical overview of the published literature are indispensable for all PhDs and future independent researchers. Critical thinking is very important academic skill that enables candidates to review and reflect on their knowledge and the information presented to them. The aim of critical assessment