

Pursuant to Article 98 of the Law on Higher Education ("Official Gazette of the RS", No. 88/17, 73/18, 67/19 and 6/20), Article 85 of the Statute of the University of Belgrade, "Gazette of the University of Belgrade", No. 201 / 18, 207/19 and 213/20), the Rulebook on student enrollment in the study programs of the University of Belgrade ("Gazette of the University of Belgrade", No. 208/19 and 212/19) and the Decision of the Senate of the University of Belgrade of December 22, 2021. on announcing a call for enrollment of students in the first year of the interdisciplinary study program of master studies - Advanced Data Analytics,

UNIVERSITY OF BELGRADE

a n n o u n c e s

CALL FOR APPLICANTS

for enrollment in interdisciplinary master academic studies in English,

study program:

»**ADVANCED DATA ANALYTICS**«, 90 ECTS,

in the 2021/2022. academic year

Master study program of **Advanced Data Analytics** was created as a result of the participation of the University of Belgrade in the international project **Advanced Data Analytics in Business**, project no. EACEA 598829-EPP-1-2018-1-RS-EPPKA2-CBHE-JP, funded by the European Commission under the Erasmus + program.

The program belongs to a broad field of study of quantitative sciences (mathematics, statistics, computing or a combination of some of these areas), but with a focus on integrating these areas into the analysis of different types of data and large amounts of data. Therefore, it is necessary that all students enrolling in this program have acquired 240 ECTS in undergraduate studies, of which a minimum of 15 ECTS in mathematics, statistics and programming, if they have acquired their higher education degree under the regulations in force since the entry into force of the Law on Higher Education, or have completed integrated studies (min. 300 ECTS). Students who have obtained higher education according to the regulations that were valid until the day the Law on Higher Education came into force can also enroll in this program if they have passed at least one subject in each of the the fields of mathematics, statistics and programming.

It is necessary for all students to speak English, because classes are given in English. The level of knowledge of English must be at least B2 according to the Common European Framework of Reference for Languages. Prospective applicants are required to enclose with

other documents a document (issued by an official institution authorized to issue such documents) confirming their level of English language proficiency. Instead of such a document, a Cambridge Advanced Certificate in English (CAE) / IELTS (International English Language Testing System) or proof of completion of secondary education in English may be attached.

All modern forms of work are used in the study program **Advanced Data Analytics**: lectures, practical work in laboratories, case studies, teamwork, research projects, group and individual professional visits, visits of prominent experts, eLearning (with appropriate software and organizational support), creative workshops, debates, discussions through forums and other electronic services, professional practice and internship.

Objectives of the study program of master's academic studies **Advanced Data Analytics** at the University of Belgrade include:

- improving theoretical and practical knowledge of quantitative disciplines (primarily mathematics and statistics) needed by students who want to analyze data in solving practical problems;
- deepening knowledge in the field of data analytics and quantitative methods, as well as mastering the necessary skills of programming and working with databases as prerequisites for working on practical problems involving data analytics;
- enabling students to master a number of practical software tools related to programming, data analysis, data visualization, etc., and use them in working on practical problems;
- providing practical experience in the application of the above skills and tools for working on practical, real-world problems, both in individual engagement and teamwork, thus involving students in current and new practical projects;
- providing a basis for work on research activities, as well as for further education through relevant doctoral studies.

Upon completion of the study, candidates acquire the title of **Master of Data Analysis**. The official website of the study program **Advanced Data Analytics** can be found at <https://ada.studije.rect.bg.ac.rs/>.

Studies in the **Advanced Data Analytics** program are conducted in English.

At <https://www.bg.ac.rs/sr/studije/studije-uni/nap.php> (in Serbian) and <https://www.bg.ac.rs/en/education/interdisciplinary/ada.php> (in English) additional insight into the content of the study program can be obtained.

ENROLLMENT REQUIREMENTS AND CONDITIONS

Candidates of all profiles who have completed four-year undergraduate studies according to previous regulations, or four-year undergraduate academic studies (240 ECTS) can enroll in the master program **Advanced Data Analytics**. A person who has completed integrated studies, i.e. maste

academic studies, having achieved at least 300 ECTS credits (180 ECTS credits + 120 ECTS credits) can also enroll in this master program.

Max 25 students will be enrolled in the study program of master's academic studies **Advanced Data Analytics** in the 2021/2022 academic year, to study in English. Their tuition fee in the 2021/2022 academic year will be covered by the Erasmus+ project **Advanced Data Analytics in Business**.

To enroll in this study program, the General Statements of the call for enrollment of students in master programs of the University of Belgrade for the 2021/2022 academic year also apply. These are available at:

https://www.bg.ac.rs/files/sr/upis/master-akademske/Opsti_uslovi_MAS_2021.pdf

RANKING CRITERIA

The ranking of candidates will be provided the final ranking list, which is formed taking into account the following criteria:

- general average grade in the undergraduate studies
- duration of study

- general average grade in the undergraduate studies

If a candidate has completed a 240 ECTS undergraduate studies, their general average grade is the GPA from the undergraduate studies multiplied by 10 and represents the starting number of points, **p**.

If a candidate has completed a 180 ECTS undergraduate study program *and* a 120 ECTS master program, thus earning the total of 300 ECTS, their starting number of points, **p**, is calculated as follows:

$$p = \frac{GPA_{\text{undergrad}} \times ECTS_{\text{undergrad}} + GPA_{\text{master}} \times ECTS_{\text{master}}}{ECTS_{\text{undergrad}} + ECTS_{\text{master}}}$$

For candidates who have acquired a higher education degree according to the regulations that were valid until the day the Law on Higher Education came into force, the starting number of points, **p**, from undergraduate studies is calculated as above and includes the diploma thesis, if it exists.

- duration of study

The total number of points for success in undergraduate studies is also affected by the duration of undergraduate studies, through a coefficient **d** calculated according to the following formula:

$$d = \text{estimated duration of study} / \text{actual duration of study}$$

where the **estimated duration of study** is the number of years from the certificate of accreditation of the study program of undergraduate studies multiplied by 365, and the **actual duration of study** is the number of days elapsed from the beginning of the school year in which the student first enrolled in the study program, till the date of completion of that study program (as specified on the graduation certificate).

The total number of points, **b**, relevant for the applicant's ranking, is calculated as $b = p \cdot d$.

This total number of points is not affected by the fact that the candidate may have completed more than one undergraduate study program.

TUITION FEE

In the s2021/22 academic year, students do not pay tuition fees.

DOCUMENTS TO SUBMIT

Candidates submit the following documents when applying to the call for applicants:

- short CV (maximum 200 words) and information on possible work experience
- completed application form (available on the University website)
- diploma and diploma supplement or certificate of completed undergraduate study program and transcript of passed exams (original documents are submitted for inspection, and photocopies of documents are submitted with the application to the call)
- proof of English language proficiency at level B2 or higher (for details see the introductory part of the text of this call)
- decision on recognition of a foreign higher education document or confirmation that the recognition procedure for continuing education has been initiated (only for candidates who have a foreign higher education document)
- confirmation of payment for the costs of the application processing

The costs of the application processing are 2,500 dinars (University Account No. 840-1835666-14, transaction code 414)

At the request of the Administration Officer of the master studies, the candidate will submit a decision / certificate on the accreditation of the institution and the previously completed study program.

DEADLINES

Candidates for enrollment in the first year of master's academic studies should apply between December 28, 2021, and January 20, 2022.

APPLICATIONS SHOULD BE SUBMITTED IN PERSON AT THE RECTORATE OF THE UNIVERSITY OF BELGRADE, STUDENTSKI TRG no. 1, OFFICE no. 5.

IMPORTANT NOTE: ALL APPLICATIONS TO THE CALL MUST BE RECEIVED BY 20.01.2022. UP TO 16:00 HOURS.

For all additional inquiry, please call + 381 11 3207494 or send an email to the following address: marko.vasiljevic@rect.bg.ac.rs