2026/2027.

THE CALL

FACULTY OF MATHEMATICS

Students Square 16, Belgrade

Phone number: +381 11 2027-801, 064 8284076

E-mail: upis@matf.bg.ac.rs

Website: upis.matf.bg.ac.rs

UNIVERSITY OF BELGRADE

STUDY PROGRAM FOR WHICH A CALL HAS BEEN ANNOUNCED:

Doctoral academic studies:

- Mathematics – English (180 ECTS)

- Computer Science – English (180 ECTS)

- Astronomy and Astrophysics – English (180 ECTS)

NUMBER OF STUDENTS:

	Budget	Self-financing
Mathematics - English	0	5
Computer Science – English	0	1
Astronomy and Astrophysics - English	0	3

CONDITIONS FOR ENROLLMENT:

A person who has completed master academic studies, or integrated studies with at least 300 ECTS credits, or completed at least four-year studies according to the regulations that were valid before the enactment of the Law on higher education, and an overall average grade of at least 8, may also apply. Persons with an overall average grade of less than 8, but at least 7, may also apply, if they have published at least one work on the SCI list from the list of the relevant ministry in the field for which they are applying. Candidates with an average grade below 7 cannot apply.

A person who knows at least one world language (English) may apply for doctoral studies.

Special conditions for study programs

Mathematics

Candidates who have completed undergraduate and master academic studies with a total of at least 300 ECTS credits and have achieved at least 130 ECTS credits in mathematics subjects may apply for enrollment in the first year of doctoral studies in the Mathematics study program.

Candidates must submit a Motivation Letter for doctoral studies, which also includes contact information for two teachers (name and surname, title, faculty, email) who are employed at the faculty where the candidate completed undergraduate or master studies and with whom he or she has had active cooperation, and whom the admissions committee may contact to obtain letters of recommendation.

An interview is organized with the candidates, which brings a maximum of 20 points. The interview is a qualifying one - a candidate who is evaluated with less than 10 points at the interview cannot enroll.

If the candidate has not achieved at least 180 ECTS in mathematics subjects during his/her completed studies, then the committee may determine up to three additional subjects, which the candidate is obliged to enroll in and pass during his/her studies. Additional subjects are determined from the list of subjects in the master and undergraduate studies of the Mathematics study program.

Informatics

Candidates who have completed undergraduate and master academic studies totaling at least 300 ECTS credits and have achieved at least 180 ECTS credits in mathematics and computer science subjects, and in particular at least 112 ECTS credits in computer science subjects and at least 24 ECTS credits in mathematics subjects, may apply for admission to doctoral studies in the Computer Science study program, provided that they have letters of recommendation from at least two teachers in the field of computer science who are employed at the faculty where the candidate completed their master studies and with whom they have had active cooperation. Exceptionally, in the event that the candidate is unable to obtain recommendations from his or her home institution for justified reasons, recommendations from teachers who are members of the Department of Computer Science and Informatics of the Faculty of Mathematics with whom the candidate has established cooperation may be recognized.

Candidates take an integrated entrance exam in mathematics and computer science. At least half of the points are taken from questions and tasks in computer science. If a candidate has achieved at least 240 ECTS in mathematics and computer science subjects during their completed studies, and in particular at least 60 ECTS in mathematics subjects, then they are exempted from the entrance exam and are counted as having achieved a maximum of 20 points on the entrance exam.

Astronomy and Astrophysics

Candidates who have completed undergraduate and master academic studies of at least 300 ECTS credits and have achieved at least 30 ECTS credits in mathematics, computer science and physics may apply for admission to the first year of doctoral studies in the Astronomy and Astrophysics study program. If the candidate has not achieved at least 70 ECTS credits in astronomy and astrophysics subjects during the completed studies, or has not completed master academic studies in the field of astronomy or astrophysics, then the committee may determine up to three additional subjects, which the candidate is obliged to enroll in and pass during the studies. Additional subjects are determined from the list of subjects in the master and undergraduate studies of the Astronomy and Astrophysics study program.

Interviews worth up to 20 points will be organized with the candidates. The interview is a qualifying one - a candidate who is assessed with less than 10 points at the interview cannot enroll.

CRITERIA FOR DETERMINING THE ORDER OF CANDIDATES:

The order of candidates for admission to doctoral studies is determined based on the overall average grade achieved in undergraduate and master academic studies, the length of study in undergraduate and master studies, the achieved scientific results and the results of the entrance exam / interview.

Candidates for admission to doctoral studies in the study programs Mathematics and Astronomy and Astrophysics have an interview, which carries 20 points. Both interviews and the entrance exam are qualifying - a candidate who scores less than 10 points cannot enroll. The field and content of the interview, or entrance exam, depend on the study program for which the candidate is applying.

Candidates who meet all the above requirements are ranked according to the total number of points, which is calculated based on the average grade in undergraduate and master studies, length of study, results of the entrance exam/interview and published scientific papers according to the formula:

$$N = 8 \cdot OAG - Pm / 6 + T + R$$

where:

N = total number of points, according to which candidates are ranked

OAG = overall average grade

Pm = total number of months of study beyond (or before) the scheduled deadline

T = number of points in the entrance exam/interview

R = number of points based on scientific papers (0-10)

Candidates are ranked for each study program separately.

If the candidate has published scientific papers during his/her previous studies, he/she must submit the appropriate materials (separates, links, DOI numbers, etc.). The committee assesses the quality of these papers and awards the candidate up to 10 points. Scientific papers are scored for all candidates (regardless of the average grade). A paper on the SCI list in the field for which the application is made carries 5 points. A paper in a journal of international importance carries 2 points. A paper in a domestic journal carries 1 point.

The assessment of individual passed subjects as mathematical, computer science or astronomical, as well as the determination of any supplementary exams, is decided by the admissions committee of the Faculty of Mathematics.

The overall average study grade (OAG) is calculated based on average grades in undergraduate academic studies (GrUS) and master academic studies (GrMS), weighted by the duration of the study program at undergraduate academic and master academic studies expressed in ECTS points (UScredit and MScredit):

$$\text{Overall average grade (OAG)} = \frac{\text{GrUS} \times \text{UScredit} + \text{GrMS} \times \text{MScredit}}{\text{UScredit} + \text{MScredit}}$$

For candidates who have completed integrated studies, the average grade achieved in those studies, the length of study, the achieved scientific results and other conditions prescribed by the general act of the faculty are taken into account.

For candidates who have acquired higher education according to the regulations that were valid before the enactment of the Law on higher education, the average grade from undergraduate studies, which includes the diploma thesis, if any, is taken into account.

All points are calculated with an accuracy of two decimal places.

TUITION FEE:

The tuition fee for citizens of the Republic of Serbia for the study programs Mathematics and Astronomy and Astrophysics is 198,000.00 dinars, and for the study program Computer Science it is 210,000.00 dinars.

Tuition fee for foreign citizens: 4,500.00 euros.