

4.3 Појединости студијског програма и постигнуте оцене:

ред. број	шифра	назив	статус	ЕСПБ	укупан број часова			Година студијског програма	Оцена	Наставник (презиме и име)
					предавања	вежбе	друго			
1.	Ф-201	Теоријска механика	О	6				1		Гајић Драган
2.	Ф-202	Квантна механика	О	6				1		Николић Мирослав
3.	Ф-203	Електродинамика	О	6				1		Стевановић Љиљана
4.	Ф-204	Физичка електроника	О	6				1		Самарџић Биљана
5.	О-01	Педагогија	И	6				1		Рањеловић Јовица
6.	Ф-224	Методика наставе физике	И	6				1		Нешић Љубиша
7.	Ф-205	Атомска и молекуларна физика	О	6				1		Манчев Иван
8.	Ф-206	Статистичка физика	О	6				1		Димитријевић Дејан
9.	Ф-207	Физика јонизованих гасова	О	6				1		Марковић Видосав
10.	Ф-226	Основе астрофизике	О	6				1		Гајић Драган
11.	Ф-208	Физика чврстог стања	О	6				2		Павловић Зоран
12.	Ф-209	Основе физике плазме	О	6				2		Димитријевић Дејан
13.	Ф-210	Физика елементарних честица	О	6				2		Ђорђевић Горан
14.	Ф-227	Наставна средства физике	И	6				2		Манчић Ана
15.	Ф-230	Физика у школи	И	6				2		Костић Љиљана
16.	Ф-214	Историја и филозофија физике	О	6				2		Николић Мирослав
17.	Ф-232	Методика решавања рачунских задатака	И	6				2		Манчев Иван
18.	Ф-235	Школска пракса	И	6				2		Костић Љиљана
19.	Сироп	Студијски истраживачки рад	О	4						
20.	ЗРоп	Завршни рад	О	10						, ментор
Укупно				120						Просечна оцена

Наслов завршног рада/дисертације/уметничког пројекта:

Комисија за одбрану рада:

* Оцена је грешка

5. ПОДАЦИ О НАМЕНИ СТЕЧЕНОГ НАЗИВА

5.1 Приступ даљим студијама:

Специјалистичке академске студије
Докторске академске студије

5.2 Професионални статус:

Оспособљеност за: решавање физичких проблема, руковање лабораторијском опремом и наставним средствима, разумевање проблема образовања, примену нових европских стандарда у области образовања, повезивање и примену стечених знања, самостално учење у области физике и даље стручно усавршавање, коришћење стручне литературе.

6. ДОДАТНЕ ИНФОРМАЦИЈЕ

6.1 Додатне информације о студенту:

/

6.2 Извори додатних информација о установи:

www.pmf.ni.ac.rs

7. ОВЕРА ДОДАТКА ДИПЛОМИ

7.1 Број:

Датум:

7.2 Одговорно лице:

Одговорно лице:

Проф. др Драган Ђорђевић, декан

Проф. др Драган Антић, ректор

7.3 Печат и потпис:

Печат и потпис:





8. ПОДАЦИ О СИСТЕМУ ВИСОКОГ ОБРАЗОВАЊА У РЕПУБЛИЦИ СРБИЈИ

Оријентационе
године старости

27-28

Трећи
степен
високог
образовања

ДОКТОРСКЕ АКАДЕМСКЕ СТУДИЈЕ
180 ЕСПБ (уз претходно остварених на основним и дипломским академским студијама најмање 300 ЕСПБ)

24-25

Други
степен
високог
образовања

Дипломске
академске студије
60-120 ЕСПБ

Специјалистичке
академске студије
60 ЕСПБ

Специјалистичке
струковне студије
60 ЕСПБ

22-23

Први
степен
високог
образовања

Интегрисане
академске студије
300 ЕСПБ

Основне
академске студије
180-240 ЕСПБ

Основне
струковне студије
180 ЕСПБ

18-19

КАНДИДАТИ
са стеченим средњим образовањем и положеним пријемним испитом или испитом за проверу склоности и способности или општом матуром.

8.1 Types of high education institutions and their status

According to the Law on higher education (Official Gazette RS, No 76/05), the activity of high education in the Republic of Serbia is performed by the following high-education institutions:

- University** – University is an independent institution of higher education the performance of which unites educational, scientific, research and professional/artistic work, as components of a unique higher education process. University can perform all types and levels of studies. The institution of higher education has the status of university if it performs academic study programs at all levels of studies, within at least three fields (natural sciences and mathematics, social and humanistic studies, medical sciences, technical and technological sciences, arts) and three areas. As an exception, a university can be established in the area of art, if it contains all three levels of studies from at least three fields of art.
- Faculty/Art academy, as a component of the university** – Faculty/art academy is an institution of higher education, i.e. a unit of the system of higher education which is a part of university and performs academic study programs and develops scientific, research and professional/artistic activities within one or more areas. Faculty/art academy can also perform specialized study programs. In legal transfer, faculty/art academy is presented by the name of the university which it belongs to, under its own name and in accordance with the university statute.
- The Academy of professional studies** – The academy of professional studies is an independent institution of higher education the performance of which unites educational, research, professional and artistic work, as components of the unique process of high education. The academy of professional studies can perform basic professional studies and specialist professional studies. An institution of higher education has the status of the academy of professional studies if it accomplishes at least five accredited study programs from at least three fields.
- Higher education school** – Higher education school is an independent institution of higher education which performs basic, specialist and graduate academic studies in one or more areas.
- Higher education school of professional studies** – Higher education school of professional studies is an independent institution of higher education which performs basic professional and specialist professional studies from one or more areas.

The stated institutions are treated as legal subjects. The stated institutions are independent institutions of higher education, except faculties and art academies.

8.2 Types and level of studies

The activity of higher education is performed through academic and professional studies based on granted/accredited study programs for the achievement of high education.

At the **academic** studies, the academic study programme is carried out. The program enables students for the development and practical use of scientific, professional and artistic achievements. There are three levels of academic studies.

Academic studies of the first level are basic academic studies.

Academic studies of the second level are graduate academic studies – master and specialist academic studies. Integrated academic studies are basic and graduate academic studies organised as one whole.

Academic studies of the third level are doctor academic studies.

At the **professional** studies, the professional study program is carried out. This program enables students to apply knowledge and skills necessary for participating in the working process. There are two levels of professional studies.

Professional studies of the first level are basic professional studies.

Professional studies of the second level are specialist professional studies.

8.2.1 Basic (academic or professional) studies

Basic studies are organized by all the institutions of higher education defined by the Law of higher education.

Basic academic studies last three to four years with the range of 180 to 240 ECTS.

Basic professional studies last three years with the range of 180 ECTS.

Study program of basic and specialist studies can include the final work.

A person who finishes the basic academic studies acquires the professional title that includes the name of the profession of the first degree academic studies in the corresponding area.

A person who finishes the basic professional studies acquires the professional title that includes the name of the profession of the first degree of the professional studies in the corresponding area.

8.2.2 Graduate academic studies

Graduate academic studies can be organized by the university, faculty of the higher education school. Graduate academic studies last one or two years depending on the range of the previous basic academic studies so that in total there is a range of at least 300 ECTS. Study program of graduate academic studies contains the obligation to create the final work. The person who finishes the graduate academic studies acquires the academic title – graduated, with the name of profession of the second degree of graduate academic studies in the corresponding area – master.

A person who finishes the graduate academic studies acquires the professional title that includes the name of the profession of the first degree of the professional studies in the corresponding area.

8.2.3 Integrated studies

Academic study programs can be also organized as integrated within basic and graduate academic studies (integrated academic studies) with the total of at least 300 ECTS and the maximum of 360 ECTS points (academic study programs in medical sciences).

8.2.4 Specialised (academic or professional) studies

Specialised studies last at least one year with the range of at least 60 ECTS and can be either academic or professional. The study program of professional studies can include specialised work. The person who finishes specialised studies acquires the professional title with the name of profession of the second degree of academic or professional studies in the corresponding area.

8.2.5 PhD academic studies

PhD studies can be organized by universities and faculties. PhD studies last for at least three years with at least 180 ECTS with previous basic and graduate academic studies that lasted for at least five years and at least 300 ECTS. PhD dissertation is the final part of the study program of PhD studies, with the exception of the PhD in Art which is an artistic project. Exceptionally, a person can achieve the PhD title by graduating in medical studies and with finished specialization, on the grounds of the dissertation defence on the works published in leading world magazines.

8.3 Marking system

A student's achievement in a specific subject is continuously assessed during lessons and it is expressed in points.

By fulfilling the exam preceding duties and by passing exams, a student can achieve the maximum of 100 points.

Study program establishes the proportion of points achieved during the exam-preceding duties and in the exam. The exam-preceding duties bring a minimum of 30 and maximum of 70 points.

Student's success is assessed by marks from 5 (failed) to 10 (excellent).

An institution of higher education can establish a different, numeric method of marking, by establishing the relation between these marks and those of 5 to 10. A general act of an institution of higher education defines more closely the way of taking exams and marking.

8.4 Formal conditions necessary to proceed with the higher education

To enroll the first level studies, a candidate takes the entrance exam or ability-check exam, in accordance with the general act of an independent institution of higher education.

The list (order) of candidates to enroll the first level of studies is established on the basis of the general success achieved during high-school education and results achieved at the entrance/ability check exam. A candidate who passed the final, general knowledge high school exam, does not take entrance exam. In this case, the candidate's results of the final high school exam are being assessed, instead of the entrance exam, in accordance with the general act of an independent institution of higher education.

An independent institution of higher education can direct the candidate, who passed the professional/artistic final high school exam instead of the entrance exam, to take tests in the certain subjects of the general, final high school exam.

On the basis of the competition criteria, an independent institution of higher education makes the rank order list of applied candidates. The right to enroll the first level of studies has the student who is ranked on the list, within the number of students determined in accordance with the article 84 of the Law of higher education.

The student of the first level studies of another independent institution of higher education, a person who acquired the higher education at the first level studies and a person who no longer has the status of a student, in accordance with this law, can enroll the first level studies, under conditions and within forms established by the general act of an independent institution of higher education, at the personal demand.

A candidate enrolls the **second and third level of studies** under certain conditions, according to the manner and procedures established by the general act and open competition of an independent institution of higher education.

8.5 Accreditation

Accreditation is used to establish that an institution of higher education and study programs fulfills the standards established by the National Council, and that it has the right to issue public documents, in accordance with the Law of higher education.

In the process of **accrediting an institution of higher education**, it is established if the institution fulfills certain conditions which are, according to the Law of higher education, specified for the given institutions which perform the higher education activity.

In the process of **accrediting a study program**, it is established if the conditions of introducing such a program are being fulfilled, in accordance with the law.

The process of accrediting is conducted at the demand of the Ministry, the founder, i.e., the institution of higher education itself.

In the process of accrediting, the Accreditation and Quality Control Commission can issue a certificate of accreditation to an institution of higher education or study program, issue an act of warning to an institution of higher education. This act points out the weaknesses concerning conditions, and gives a deadline for removing the weaknesses. When the deadline is over, it decides about the request. It can issue a decision which denies the accreditation demand.

If the board reaches a decision to deny the accreditation, the founder/ institution of higher education can file a complaint to the National Council within 30 days from the day the decision was received.

There could not be a legal process against the decision of the National Council.

The founder/institution of higher education has the right to repeat the request for accreditation after the period of one year the decision to deny the accreditation request was received.

The institution of higher education can start working and performing its activities after it receives the working license.

Working license is issued by the Ministry, at the demand of the institution of higher education. At the territory of AP Vojvodina, the licence is issued by the organs authorised for the delegated affairs.

8.6 National sources of information

- The Ministry of Education**, Nemanjina 22-26, 11000 Belgrade, Serbia; Telephone: +381/11/363 11 07, Fax: +381/11/361 64 91, web: www.mp.gov.rs
- The National Council for Higher Education**, the Palace of the Republic of Serbia, Bulevar Mihajla Pupina 2, 11000 Belgrade, Serbia.
- Provincial Secretary of Education**, Bulevar Mihajla Pupina 16, 21000 Novi Sad, Serbia, AP Vojvodina; Telephone +381/11/48745 55, Fax: +381/21/456 986; web: www.obrazovanje.vojvodina.gov.rs



REPUBLIC OF SERBIA

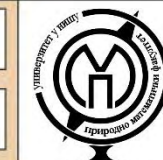


UNIVERSITY OF NIŠ

(Name and address of the Independent Higher Education Institution)

Faculty of Sciences and Mathematics in Niš

(Name and address of the Higher Education Institution)



DIPLOMA SUPPLEMENT

Valid only with the diploma

number 0021

dated October 21

year 2016

Diploma supplement provides a description of the nature, level, cohesion, context and status of the studies that were pursued and successfully completed by the individual named on the original qualification to which this supplement is appended. Information in all eight sections should be provided, and where information is not provided, an explanation should give the reason why.

1. INFORMATION IDENTIFYING THE HOLDER OF THE QUALIFICATION

1.1 First Name:

XXXXXX

1.2 Surname:

XXXXXX

1.3 Date of birth:

21.10.1995.

1.4 Student's identification number:

xxx

JMBG:

2110995

2. INFORMATION IDENTIFYING THE QUALIFICATION

2.1 Title conferred (professional, academic, scientific):

Master of Science in Physics

2.2 Scientific/artistic/professional field(s) of study:

Physics

2.3 Name and status of the awarding institution:

University of Niš, Faculty of Sciences and Mathematics in Niš (state university)

2.4 Name and status of institution administering studies (if different from 2.3):

/

2.5 Language of instruction:

Serbian

3. INFORMATION ON THE LEVEL OF THE QUALIFICATION

3.1 Type and level of qualification:

Graduate academic studies - Master (second academic degree)

3.2 Official length of studies:

2 years (4 semesters)

3.3 Access requirements:

Candidates who have earned 180 ECTS at the undergraduate level physics and related fields can be enrolled on the study program. The selection of candidates for admission is performed on the basis of the approved regulatives of the Faculty.

4. INFORMATION ON THE CONTENTS AND RESULTS GAINED

4.1 Mode of study:

Full-time studies (at the seat of the faculty)

4.2 Name and aims of the study program:

Physics

The aim of the study program Physics is obtaining general academic knowledges and skills in physics needed to work in primary and secondary schools, research and scientific institutes and laboratories.

4.3 Please see the next page:

4.4 Grading scheme:

Marks:	Classification:	Points number	
		from	to
10	excellent	91	100
9	outstandingly good	81	90
8	very good	71	80
7	good	61	70
6	sufficient	51	60
5	insufficient	0	50

4.5 Average grade and classification:

4.3 Study program details and the marks obtained:

No	code	Subjects						Year of the study program	Mark	Lecturer (surname and name)
		title	status	ECTS	total number of classes					
					lectures	practice	other			
1.										
2.										
3.										
4.										
5.										
6.										
7.										
8.										
9.										
10.										
11.										
12.										
13.										
14.										
15.										
16.										
17.										
18.										
19.										
20.										
Total				120					Average grade	

Title of the final paper / dissertation / artistic project:

Commission for the paper defence:

*the mark has been acknowledged

5. INFORMATION ON PURPOSE

5.1 Access to further studies:

Specialist academic studies
Doctoral academic studies

5.2 Professional status:

Competence to solve physical problems, to handle laboratory equipment and teaching equipment, to understand the problems of education, to implement new European standards in the field of education, to connect and apply the acquired knowledge for self-study in the field of physics and further vocational training, capable to use professional literature.

6. ADDITIONAL INFORMATION

6.1 Additional information on the student:

/

6.2 Further information sources:

www.pmf.ni.ac.rs

7. CERTIFICATION OF THE DIPLOMA SUPPLEMENT

7.1 No:

Date:

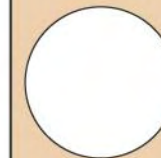
7.2 Authorised person:

Prof. dr Dragan Đorđević, Dean

Authorised person:

Prof. dr Dragan Antić, Rector

7.3 Official seal and signature:

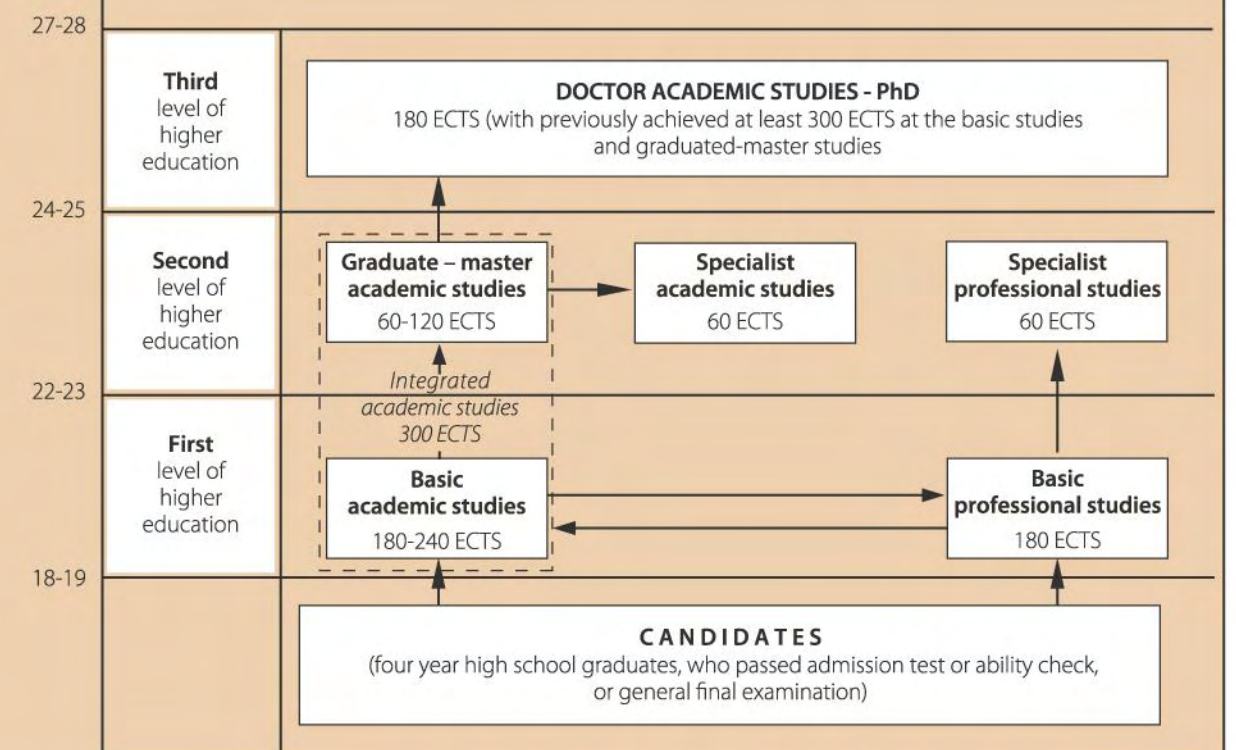


Official seal and signature:



8. INFORMATION ON THE SYSTEM OF HIGHER EDUCATION IN THE REPUBLIC OF SERBIA

Approximate age ↑



4.3 Појединости студијског програма и постигнуте оцене:

ред-број	шифра	назив	статус	ЕСПБ	укупан број часова			Година студијског програма	Оцена	Наставник (презиме и име)
					предавања	вежбе	друго			
1.	Г101	Увод у географију	О	4	2	1	1	10	Голубовић М. Нинослав	
2.	Г102	Математичка географија	о	7	2	2		10	Филиповић М. Иван	
3.	Г103	Геологија са петрографијом	о	7	3	3	1	9	Јовановић Ж. Велимир	
4.	Г104	Национална економија	о	6	2	2	1	9	Стефановић С. Видоје	
5.	Г315	Геометрија	и	6	3	2	1	9	Велимировић С. Љубица	
6.	Г105	Картографија	о	7	3	3	1	8	Филиповић М. Иван	
7.	Г106	Геолошки ресурси	О	5	2	3	1	8	Јовановић Ж. Велимир	
8.	Г107	Информатика	О	5	3	2	1	10	Башић З. Милан	
9.	Г108	Енглески језик	О	4	2	0	1	10	Милетић Д. Соња	
10.	Г133	Физика	И	6	2	2	1	9	Новковић В. Надежда	
11.		Практична настава	О	3	0	3	1	10		
12.	Г109	Климатологија	О	6	3	3	2	10	Ивановић Д. Радомир	
13.	Г110	Биогеографија	О	6	2	1	2	9	Драговић М. Ранко	
14.	Г111	Географија становништва	О	6	2	2	2	10	Шаћировић С. Селим	
15.	Г112	Географија земљишта	О	6	2	1	2	10	Драговић М. Ранко	
16.	Г136	Географија локалне средине	О	6	2	1	2	10	Ђекић Л. Татјана	
17.	Г113	Хидрологија	О	7	3	3	2	10	Ивановић Д. Радомир	
18.	Г114	Геоморфологија	О	8	3	3	2	8	Манојловић А. Предраг	
19.	Г115	Географија насеља	О	6	3	2	2	10	Голубовић М. Нинослав	
20.	Г138	Урбана Екологија	И	6	3	0	2	8	Стаменковић М. Славиша	
21.		Практична настава	О	3	0	3	2	10		
22.	Г116	Методика наставе географије	О	6	2	2	3	9	Шушић М. Вукашин	
23.	Г117	Индустријска географија	О	4	2	1	3	8	Радивојевић Р. Александар	
24.	Г118	Географија Србије I	О	4	2	2	3	9	Радивојевић Р. Александар	
25.	Г140	Геохемија	И	6	2	2	3	9	Радивојевић Р. Александар	
26.	Г119	Туристичка географија	О	5	2	2	3	8	Радивојевић Р. Александар	
27.	Г142	Културно-историјске основе туризма	И	6	2	0	3	9	Ђорђевић С. Зоран	
28.	Г121	Регионална географија II	О	4	2	2	3	9	Радивојевић Р. Александар	
29.	Г122	Географија Србије II	О	5	2	2	3	8	Радивојевић Р. Александар	
30.	Г123	Практична настава географије	О	8	2	5	3	9	Драговић М. Ранко	
31.	Г124	Аграрна географија	О	4	2	1	3	9	Шушић М. Вукашин	
32.		Практична настава	О	3	0	0	3	10		
Укупно				180				Просечна оцена	9,2	

Наслов завршног рада/дисертације/уметничког пројекта:

Комисија за одбрану рада:

* Оцена је гранична

5. ПОДАЦИ О НАМЕНИ СТЕЧЕНОГ НАЗИВА

5.1 Приступ даљим студијама:

Мастер академске студије (други степен)

5.2 Професионални статус:

Географ је оспособљен да разуме задатке у оквиру географских дисциплина и да практично примени стечена знања у оквиру наставног процеса, као и у привредним и друштвеним делатностима. Такође, оспособљен је да усвојена знања може да користи у циљу свог даљег професионалног усавршавања.

6. ДОДАТНЕ ИНФОРМАЦИЈЕ

6.1 Додатне информације о студенту:

/

6.2 Извори додатних информација о установи:

www.pmf.ni.ac.rs , www.mp.gov.rs

7. ОВЕРА ДОДАТКА ДИПЛОМИ

7.1 Број:

1

Датум:

30.09.2017.

7.2 Одговорно лице:

Проф. др Драган Ђорђевић, декан

Одговорно лице:

Проф. др Драган Антић, ректор

7.3 Печат и потпис:



Печат и потпис:



8. ПОДАЦИ О СИСТЕМУ ВИСОКОГ ОБРАЗОВАЊА У РЕПУБЛИЦИ СРБИЈИ

Оријентационе године старости

27-28

Трећи степен високог образовања

ДОКТОРСКЕ АКАДЕМСКЕ СТУДИЈЕ
180 ЕСПБ (уз претходно остварених на основним и дипломским академским студијама најмање 300 ЕСПБ)

24-25

Други степен високог образовања

Дипломске академске студије 60-120 ЕСПБ
Интегрисане академске студије 300 ЕСПБ
Специјалистичке академске студије 60 ЕСПБ
Специјалистичке струковне студије 60 ЕСПБ

22-23

Први степен високог образовања

Основне академске студије 180-240 ЕСПБ
Основне струковне студије 180 ЕСПБ

18-19

КАНДИДАТИ
са стеченим средњим образовањем и положеним пријемним испитом или испитом за проверу склоности и способности или општом матуrom

8.1 Types of high education institutions and their status

According to the Law on higher education (Official Gazette RS, No 76/05), the activity of high education in the Republic of Serbia is performed by the following high-education institutions:

- **University** – University is an independent institution of higher education the performance of which unites educational, scientific, research and professional/artistic work, as components of a unique higher education process. University can perform all types and levels of studies. The institution of higher education has the status of university if it performs academic study programs at all levels of studies, within at least three fields (natural sciences and mathematics, social and humanistic studies, medical sciences, technical and technological sciences, arts) and three areas. As an exception, a university can be established in the area of art, if it contains all three levels of studies from at least three fields of art.
- **Faculty/Art academy, as a component of the university** – Faculty/art academy is an institution of higher education, i.e. a unit of the system of higher education which is a part of university and performs academic study programs and develops scientific, research and professional/artistic activities within one or more areas. Faculty/art academy can also perform specialized study programs. In legal transfer, faculty/art academy is presented by the name of the university which it belongs to, under its own name and in accordance with the university statute.
- **The Academy of professional studies** – The academy of professional studies is an independent institution of higher education the performance of which unites educational, research, professional and artistic work, as components of the unique process of high education. The academy of professional studies can perform basic professional studies and specialist professional studies. An institution of higher education has the status of the academy of professional studies if it accomplishes at least five accredited study programs from at least three fields.
- **Higher education school** – Higher education school is an independent institution of higher education which performs basic, specialist and graduate academic studies in one or more areas.
- **Higher education school of professional studies** – Higher education school of professional studies is an independent institution of higher education which performs basic professional and specialist professional studies from one or more areas.

The stated institutions are treated as legal subjects. The stated institutions are independent institutions of higher education, except faculties and art academies.

8.2 Types and level of studies

The activity of higher education is performed through academic and professional studies based on granted/accredited study programs for the achievement of high education.

At the **academic** studies, the academic study programme is carried out. The program enables students for the development and practical use of scientific, professional and artistic achievements. There are three levels of academic studies.

Academic studies of the first level are basic academic studies.

Academic studies of the second level are graduate academic studies – master and specialist academic studies. Integrated academic studies are basic and graduate academic studies organised as one whole.

Academic studies of the third level are doctor academic studies.

At the **professional** studies, the professional study program is carried out. This program enables students to apply knowledge and skills necessary for participating in the working process. There are two levels of professional studies.

Professional studies of the first level are basic professional studies.

Professional studies of the second level are specialist professional studies.

8.2.1 Basic (academic or professional) studies

Basic studies are organized by all the institutions of higher education defined by the Law of higher education.

Basic academic studies last three to four years with the range of 180 to 240 ECTS.

Basic professional studies last three years with the range of 180 ECTS.

Study program of basic and specialist studies can include the final work.

A person who finishes the basic academic studies acquires the professional title that includes the name of the profession of the first degree academic studies in the corresponding area.

A person who finishes the basic professional studies acquires the professional title that includes the name of the profession of the first degree of the professional studies in the corresponding area.

8.2.2 Graduate academic studies

Graduate academic studies can be organized by the university, faculty of the higher education school. Graduate academic studies last one or two years depending on the range of the previous basic academic studies so that in total there is a range of at least 300 ECTS. Study program of graduate academic studies contains the obligation to create the final work. The person who finishes the graduate academic studies acquires the academic title - graduated, with the name of profession of the second degree of graduate academic studies in the corresponding area – master.

A person who finishes the graduate academic studies acquires the professional title that includes the name of the profession of the first degree of the professional studies in the corresponding area.

8.2.3 Integrated studies

Academic study programs can be also organized as integrated within basic and graduate academic studies (integrated academic studies) with the total of at least 300 ECTS and the maximum of 360 ECTS points (academic study programs in medical sciences).

8.2.4 Specialised (academic or professional) studies

Specialised studies last at least one year with the range of at least 60 ECTS and can be either academic or professional. The study program of professional studies can include specialised work. The person who finishes specialised studies acquires the professional title with the name of profession of the second degree of academic or professional studies in the corresponding area.

8.2.5 PhD academic studies

PhD studies can be organized by universities and faculties. PhD studies last for at least three years with at least 180 ECTS with previous basic and graduate academic studies that lasted for at least five years and at least 300 ECTS. PhD dissertation is the final part of the study program of PhD studies, with the exception of the PhD in Art which is an artistic project. Exceptionally, a person can achieve the PhD title by graduating in medical studies and with finished specialization, on the grounds of the dissertation defence on the works published in leading world magazines.

8.3 Marking system

A student's achievement in a specific subject is continuously assessed during lessons and it is expressed in points.

By fulfilling the exam preceding duties and by passing exams, a student can achieve the maximum of 100 points.

Study program establishes the proportion of points achieved during the exam-preceding duties and in the exam. The exam-preceding duties bring a minimum of 30 and maximum of 70 points.

Student's success is assessed by marks from 5 (failed) to 10 (excellent).

An institution of higher education can establish a different, numeric method of marking, by establishing the relation between these marks and those of 5 to 10. A general act of an institution of higher education defines more closely the way of taking exams and marking.

8.4 Formal conditions necessary to proceed with the higher education

To enroll the first level studies, a candidate takes the entrance exam or ability-check exam, in accordance with the general act of an independent institution of higher education.

The list (order) of candidates to enroll the first level of studies is established on the basis of the general success achieved during high-school education and results achieved at the entrance/ability check exam. A candidate who passed the final, general knowledge high school exam, does not take entrance exam. In this case, the candidate's results of the final high school exam are being assessed, instead of the entrance exam, in accordance with the general act of an independent institution of higher education.

An independent institution of higher education can direct the candidate, who passed the professional/artistic final high school exam instead of the entrance exam, to take tests in the certain subjects of the general, final high school exam.

On the basis of the competition criteria, an independent institution of higher education makes the rank order list of applied candidates. The right to enroll the first level of studies has the student who is ranked on the list, within the number of students determined in accordance with the article 84 of the Law of higher education.

The student of the first level studies of another independent institution of higher education, a person who acquired the higher education at the first level studies and a person who no longer has the status of a student, in accordance with this law, can enroll the first level studies, under conditions and within forms established by the general act of an independent institution of higher education, at the personal demand.

A candidate enrolls the **second and third level of studies** under certain conditions, according to the manner and procedures established by the general act and open competition of an independent institution of higher education.

8.5 Accreditation

Accreditation is used to establish that an institution of higher education and study programs fulfills the standards established by the National Council, and that it has the right to issue public documents, in accordance with the Law of higher education.

In the process of **accrediting an institution of higher education**, it is established if the institution fulfills certain conditions which are, according to the Law of higher education, specified for the given institutions which perform the higher education activity.

In the process of **accrediting a study program**, it is established if the conditions of introducing such a program are being fulfilled, in accordance with the law.

The process of accrediting is conducted at the demand of the Ministry, the founder, i.e., the institution of higher education itself.

In the process of accrediting, the Accreditation and Quality Control Commission can issue a certificate of accreditation to an institution of higher education or study program, issue an act of warning to an institution of higher education. This act points out the weaknesses concerning conditions, and gives a deadline for removing the weaknesses. When the deadline is over, it decides about the request. It can issue a decision which denies the accreditation demand.

If the board reaches a decision to deny the accreditation, the founder/ institution of high education can file a complaint to the National Council within 30 days from the day the decision was received.

There could not be a legal process against the decision of the National Council.

The founder/institution of higher education has the right to repeat the request for accreditation after the period of one year the decision to deny the accreditation request was received.

The institution of higher education can start working and performing its activities after it receives the working license.

Working license is issued by the Ministry, at the demand of the institution of higher education. At the territory of AP Vojvodina, the licence is issued by the organs authorised for the delegated affairs.

8.6 National sources of information

- **The Ministry of Education**, Nemanjina 22-26, 11000 Belgrade, Serbia; Telephone: +381/11/363 11 07, Fax: +381/11/361 64 91, web: www.mp.gov.rs
- **The National Council for Higher Education**, the Palace of the Republic of Serbia, Bulevar Mihajla Pupina 2, 11000 Belgrade, Serbia.
- **Provincial Secretary of Education**, Bulevar Mihajla Pupina 16, 21000 Novi Sad, Serbia, AP Vojvodina; Telephone +381/11/48745 55, Fax: +381/21/456 986; web: www.obrazovanje.vojvodina.gov.rs



REPUBLIC OF SERBIA

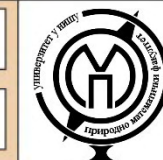


UNIVERSITY OF NIŠ

(Name and address of the Independent Higher Education Institution)

Faculty of Sciences and Mathematics in Niš

(Name and address of the Higher Education Institution)



DIPLOMA SUPPLEMENT

Valid only with the diploma

number 0021

dated October 21

year 2016

Diploma supplement provides a description of the nature, level, cohesion, context and status of the studies that were pursued and successfully completed by the individual named on the original qualification to which this supplement is appended. Information in all eight sections should be provided, and where information is not provided, an explanation should give the reason why.

1. INFORMATION IDENTIFYING THE HOLDER OF THE QUALIFICATION

1.1 First Name:

XXXXXX

1.2 Surname:

XXXXXX

1.3 Date of birth:

21.10.1995.

1.4 Student's identification number:

xxx JMBG: 2110995

2. INFORMATION IDENTIFYING THE QUALIFICATION

2.1 Title conferred (professional, academic, scientific):

Bachelor of Science in Geography

2.2 Scientific/artistic/professional field(s) of study:

Geography

2.3 Name and status of the awarding institution:

University of Niš, Faculty of Sciences and Mathematics in Niš (state university)

2.4 Name and status of institution administering studies (if different from 2.3):

/

2.5 Language of instruction:

Serbian

3. INFORMATION ON THE LEVEL OF THE QUALIFICATION

3.1 Type and level of qualification:

Graduate academic studies - Master (second academic degree)

3.2 Official length of studies:

2 years (4 semesters)

3.3 Access requirements:

Completed four-year high school and passed the entrance exam in geography

4. INFORMATION ON THE CONTENTS AND RESULTS GAINED

4.1 Mode of study:

Full-time studies (at the seat of the faculty)

4.2 Name and aims of the study program:

Study program: Geography
The aim of the study program Geography is to enable students to understand and solve the basic problems within the geographic discipline and to apply the acquired knowledge in the teaching process as well as to work in economic and social activities.

4.3 Please see the next page:

4.4 Grading scheme:

Marks:	Classification:	Points number	
		from	to
10	excellent	91	100
9	outstandingly good	81	90
8	very good	71	80
7	good	61	70
6	sufficient	51	60
5	insufficient	0	50

4.5 Average grade and classification:

4.3 Study program details and the marks obtained:

No	code	Subjects						Year of the study program	Mark	Lecturer (surname and name)
		title	status	ECTS	total number of classes					
					lectures	practice	other			
1.										
2.										
3.										
4.										
5.										
6.										
7.										
8.										
9.										
10.										
11.										
12.										
13.										
14.										
15.										
16.										
17.										
18.										
19.										
20.										
		Total		120				Average grade		

Title of the final paper / dissertation / artistic project:

Commission for the paper defence:

*the mark has been acknowledged

5. INFORMATION ON PURPOSE

5.1 Access to further studies:

Specialist academic studies
Doctoral academic studies

5.2 Professional status:

Geographer is able to understand the problems within the geographic discipline and to apply acquired knowledge in the teaching process, as well as in economic and social activities. He is also capable to use acquired knowledge in order to further improve his professional development.

6. ADDITIONAL INFORMATION

6.1 Additional information on the student:

/

6.2 Further information sources:

www.pmf.ni.ac.rs , www.mp.gov.rs

7. CERTIFICATION OF THE DIPLOMA SUPPLEMENT

7.1 No:

Date:

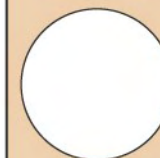
7.2 Authorised person:

Prof. dr Dragan Đorđević, Dean

Authorised person:

Prof. dr Dragan Antić, Rector

7.3 Official seal and signature:



Official seal and signature:



8. INFORMATION ON THE SYSTEM OF HIGHER EDUCATION IN THE REPUBLIC OF SERBIA

Approximate age

27-28

Third level of higher education

DOCTOR ACADEMIC STUDIES - PhD
180 ECTS (with previously achieved at least 300 ECTS at the basic studies and graduated-master studies)

24-25

Second level of higher education

Graduate – master academic studies
60-120 ECTS

Specialist academic studies
60 ECTS

Specialist professional studies
60 ECTS

22-23

First level of higher education

Integrated academic studies
300 ECTS

Basic academic studies
180-240 ECTS

Basic professional studies
180 ECTS

18-19

CANDIDATES
(four year high school graduates, who passed admission test or ability check, or general final examination)

*the mark has been acknowledged

4.3 Појединости студијског програма и постигнуте оцене:

ред. број	шифра	назив	статус	ЕСПБ	укупан број часова			Година студијског програма	Оцена	Наставник (презиме и име)
					предавања	вежбе	друго			
1	Г251	Увод у економију	О	6	3	2	1	10	Петровић С. Јелена	
2	Г252	Основе туризма	О	6	2	2	1	10	Шаћировић С. Селим	
3	Г253	Географија туристичких насеља	О	6	2	2	1	10	Голубовић М. Нинослав	
4	Г254	Енглески језик II	О	6	2	2	1	10	Милетић Д. Соња	
5	Г270	Економика и организација предузећа	И	6	2	1	1	10	Петровић С. Јелена	
6	Г255	Економика туризма	О	5	2	2	1	10	Стефановић С. Видоје	
7	Г256	Туристичко уређење простора	О	5	2	1	1	10	Голубовић М. Нинослав	
8	Г257	Бањски туризам	О	5	2	1	1	10	Радивојевић Р. Александар	
9	Г272	Национални паркови	И	6	2	1	1	10	Ђекић Ј. Татјана	
10	Г275	Физика околине	И	6	2	2	1	9	Димитријевић Р. Дејан	
11		Практична настава	О	3			1	9		
12	Г261	Менаџмент туристичке привреде	О	7.5	3	3	2	9	Стефановић С. Видоје	
13	Г263	Туристичке агенције и туроператори	О	7.5	3	3	2	9	Драговић М. Ранко	
14	Г277	Рурална екологија	И	7.5	3	2	2	9	Златковић К. Бојан	
15	Г279	Менџмент и маркетинг туристичке дестинације	И	7.5	2	2	2	9	Петровић С. Јелена	
16	Г264	Туристичке регије света	О	3	2	2	2	9	Драговић М. Ранко	
17	Г265	Туризам и заштита животне средине	О	3	2	1	2	9	Ђекић Ј. Татјана	
18	Г266	ГИС	О	2	2	2	2	9	Филиповић М. Иван	
19	Г267	Национална туристичка географија	О	3	2	2	2	9	Шаћировић С. Селим	
20	Г281	Људски ресурси у туризму	И	6	2	0	2	9	Стефановић С. Видоје	
21	Г268	Студијски истраживачки рад	О	1	0	3	2	9	Стефановић С. Видоје	
22	Г269	Завршни рад	О	2	0	0	2	10	Стефановић С. Видоје	
Укупно				120					Просечна оцена	9,45

Наслов завршног рада/дисертације/уметничког пројекта:

Комисија за одбрану рада:

* Оцена је гранична

5. ПОДАЦИ О НАМЕНИ СТЕЧЕНОГ НАЗИВА

5.1 Приступ даљим студијама:

Специјалистичке академске студије
Докторске академске студије

5.2 Професионални статус:

Оспособљен за рад у туристичким организацијама, агенцијама и хотелијерству, као и у средњим угоститељским и туристичким школама.

6. ДОДАТНЕ ИНФОРМАЦИЈЕ

6.1 Додатне информације о студенту:

/

6.2 Извори додатних информација о установи:

www.pmf.ni.ac.rs , www.mp.gov.rs

7. ОВЕРА ДОДАТКА ДИПЛОМИ

7.1 Број:

1

Датум:

01.09.2020.

7.2 Одговорно лице:

Проф. др Драган Ђорђевић, декан

Одговорно лице:

Проф. др Драган Антић, ректор

7.3 Печат и потпис:



Печат и потпис:



8. ПОДАЦИ О СИСТЕМУ ВИСОКОГ ОБРАЗОВАЊА У РЕПУБЛИЦИ СРБИЈИ

Оријентационе године старости

27-28

Трећи
степен
високог
образовања

ДОКТОРСКЕ АКАДЕМСКЕ СТУДИЈЕ
180 ЕСПБ (уз претходно остварених на основним и дипломским академским студијама најмање 300 ЕСПБ)

24-25

Други
степен
високог
образовања

Дипломске академске студије
60-120 ЕСПБ

Специјалистичке академске студије
60 ЕСПБ

Специјалистичке струковне студије
60 ЕСПБ

22-23

Први
степен
високог
образовања

Интегрисане академске студије
300 ЕСПБ

Основне академске студије
180-240 ЕСПБ

Основне струковне студије
180 ЕСПБ

18-19

КАНДИДАТИ
са стеченим средњим образовањем и положеним пријемним испитом или испитом за проверу склоности и способности или општом матуром

4.3 Study program details and the marks obtained:

No	code	Subjects						Year of the study program	Mark	Lecturer (surname and name)
		title	status	ECTS	total number of classes					
					lectures	practice	other			
1.										
2.										
3.										
4.										
5.										
6.										
7.										
8.										
9.										
10.										
11.										
12.										
13.										
14.										
15.										
16.										
17.										
18.										
19.										
20.										
		Total		120				Average grade		

Title of the final paper / dissertation / artistic project:

Commission for the paper defence:

*the mark has been acknowledged

5. INFORMATION ON PURPOSE

5.1 Access to further studies:

Specialist academic studies
Doctoral academic studies

5.2 Professional status:

Master of Science in Tourism
Qualified to work in tourism organizations, agencies and hotels, as well as in secondary schools, catering and tourism.

6. ADDITIONAL INFORMATION

6.1 Additional information on the student:

/

6.2 Further information sources:

www.pmf.ni.ac.rs

7. CERTIFICATION OF THE DIPLOMA SUPPLEMENT

7.1 No:

Date:

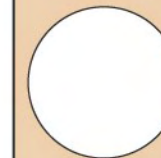
7.2 Authorised person:

Prof. dr Ivan Mančev, Dean

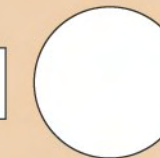
Authorised person:

Prof. dr Dragan Antić, Rector

7.3 Official seal and signature:



Official seal and signature:



8. INFORMATION ON THE SYSTEM OF HIGHER EDUCATION IN THE REPUBLIC OF SERBIA

Approximate age

27-28

Third level of higher education

DOCTOR ACADEMIC STUDIES - PhD
180 ECTS (with previously achieved at least 300 ECTS at the basic studies and graduated-master studies)

24-25

Second level of higher education

Graduate – master academic studies
60-120 ECTS

Specialist academic studies
60 ECTS

Specialist professional studies
60 ECTS

22-23

First level of higher education

Basic academic studies
180-240 ECTS

Basic professional studies
180 ECTS

18-19

CANDIDATES
(four year high school graduates, who passed admission test or ability check, or general final examination)

Integrated academic studies
300 ECTS

4.3 Појединости студијског програма и постигнуте оцене:

ред. број	шифра	назив	статус	ЕСПБ	укупан број часова			Година студијског програма	Оцена	Наставник (презиме и име)
					предавања	вежбе	друго			
1	Г201	Просторно планирање	О	9	3	3	1	10	Шаћировић С. Селим	
2	Г213	Туристичке регије света	И	6	2	2	1	9	Драговић М. Ранко	
3	Г202	Заштита животне средине	О	9	3	3	1	9	Бекић Ј. Татјана	
4	Г215	Астрономија	И	6	2	2	1	9	Гајић Ж. Драган	
5	Г203	Тематско картирање	О	7	2	2	1	9	Филиповић М. Иван	
6	Г204	Политичка географија	О	7	2	2	1	9	Драговић М. Ранко	
7	Г205	Становништво света	О	7	3	2	1	9	Голубовић М. Нинослав	
8	Г218	Хотелијерство	И	6	3	0	1	9	Голубовић М. Нинослав	
9		Практична настава	О	3	0	3	1	9		
10	Г206	Светска привреда	О	7	3	3	2	10	Петровић С. Јелена	
11	Г207	Регионална географија Србије I	О	8	3	2	2	10	Радивојевић Р. Александар	
12	Г220	Енглески језик II	И	7	2	2	2	9	Милетић Д. Соња	
13	Г221	Геохемија	И	6	3	2	2	9	Ђорђевић М. Драган	
14	Г223	Методологија НИР-а	И	6	2	2	2	10	Стефановић С. Видоје	
15	Г208	Регионална географија Балканског полуострва	О	4	2	2	2	10	Радивојевић Р. Александар	
16	Г209	ГИС	О	4	3	2	2	10	Филиповић М. Иван	
17	Г210	Студијски истраживачки рад	О	2	0	2	2	10	Радивојевић Р. Александар	
18	Г211	Регионална географија Србије II	О	4	3	2	2	10	Павловић А. Мила	
19	Г212	Завршни рад	О	12	0	0	2	10	Радивојевић Р. Александар	
Укупно				120					Просечна оцена	9,36
Наслов завршног рада/дисертације/уметничког пројекта:										
Комисија за одбрану рада:										

* Оцена је грмича

5. ПОДАЦИ О НАМЕНИ СТЕЧЕНОГ НАЗИВА

5.1 Приступ даљим студијама:

Специјалистичке академске студије
Докторске академске студије

5.2 Професионални статус:

Оспособљен за рад у основним и средњим школама, као и другим привредним и друштвеним делатностима везаним за географију.

6. ДОДАТНЕ ИНФОРМАЦИЈЕ

6.1 Додатне информације о студенту:

/

6.2 Извори додатних информација о установи:

www.pmf.ni.ac.rs , www.mp.gov.rs

7. ОВЕРА ДОДАТКА ДИПЛОМИ

7.1 Број:

1

Датум:

01.09.2020.

7.2 Одговорно лице:

Проф. др Драган Ђорђевић, декан

Одговорно лице:

Проф. др Драган Антић, ректор

7.3 Печат и потпис:



Печат и потпис:



8. ПОДАЦИ О СИСТЕМУ ВИСОКОГ ОБРАЗОВАЊА У РЕПУБЛИЦИ СРБИЈИ

Оријентационе
године старости

27-28

Трећи
степен
високог
образовања

ДОКТОРСКЕ АКАДЕМСКЕ СТУДИЈЕ
180 ЕСПБ (уз претходно остварених на основним и дипломским академским студијама најмање 300 ЕСПБ)

24-25

Други
степен
високог
образовања

Дипломске академске студије
60-120 ЕСПБ

Специјалистичке академске студије
60 ЕСПБ

Специјалистичке струковне студије
60 ЕСПБ

22-23

Први
степен
високог
образовања

Интегрисане академске студије
300 ЕСПБ
Основне академске студије
180-240 ЕСПБ

Основне струковне студије
180 ЕСПБ

18-19

КАНДИДАТИ
са стеченим средњим образовањем и положеним пријемним испитом или испитом за проверу склоности и способности или општом матуром

4.3 Study program details and the marks obtained:

No	code	Subjects						Year of the study program	Mark	Lecturer (surname and name)
		title	status	ECTS	total number of classes					
					lectures	practice	other			
1.										
2.										
3.										
4.										
5.										
6.										
7.										
8.										
9.										
10.										
11.										
12.										
13.										
14.										
15.										
16.										
17.										
18.										
19.										
20.										
		Total		120				Average grade		

Title of the final paper / dissertation / artistic project:

Commission for the paper defence:

*the mark has been acknowledged

5. INFORMATION ON PURPOSE

5.1 Access to further studies:

Specialist academic studies T
Doctoral академик studies

5.2 Professional status:

Master of Science in Geography
Qualified to work in primary and secondary schools, as well as in other economic and social activities related to geography.

6. ADDITIONAL INFORMATION

6.1 Additional information on the student:

/

6.2 Further information sources:

www.pmf.ni.ac.rs , www.mp.gov.rs

7. CERTIFICATION OF THE DIPLOMA SUPPLEMENT

7.1 No:

Date:

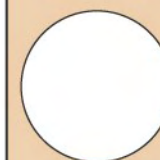
7.2 Authorised person:

Prof. dr Dragan Đorđević, Dean

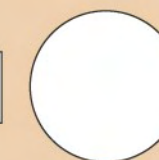
Authorised person:

Prof. dr Dragan Antić, Rector

7.3 Official seal and signature:



Official seal and signature:



8. INFORMATION ON THE SYSTEM OF HIGHER EDUCATION IN THE REPUBLIC OF SERBIA

Approximate age ↑

27-28

Third level of higher education

DOCTOR ACADEMIC STUDIES - PhD
180 ECTS (with previously achieved at least 300 ECTS at the basic studies and graduated-master studies)

24-25

Second level of higher education

Graduate – master academic studies
60-120 ECTS

Specialist academic studies
60 ECTS

Specialist professional studies
60 ECTS

22-23

First level of higher education

Integrated academic studies
300 ECTS
Basic academic studies
180-240 ECTS

Basic professional studies
180 ECTS

18-19

CANDIDATES
(four year high school graduates, who passed admission test or ability check, or general final examination)

*the mark has been acknowledged

4.3 Појединости студијског програма и постигнуте оцене:

ред-број	шифра	Наставни предмети			ЕСПБ	укупан број часова			Година студијског програма	Оцена	Наставник (презиме и име)
		назив	статус	статус		предавања	вежбе	друго			
1.											
2.											
3.											
4.											
5.											
6.											
7.											
8.											
9.											
10.											
11.											
12.											
13.											
14.											
15.											
16.											
17.											
18.											
Укупно					120					Просечна оцена	

Наслов завршног рада/дисертације/уметничког пројекта:

Комисија за одбрану рада:

* Оцена је грешка

5. ПОДАЦИ О НАМЕНИ СТЕЧЕНОГ НАЗИВА

5.1 Приступ даљим студијама:

/

5.2 Професионални статус:

Оспособљеност за самостално решавање теоријских и практичних проблема у биологији и сродним научним областима. Организовање и креирање развојних и научних истраживања, укључивање у реализацију међународних научних пројеката у области биолошких наука. Способност за рад у високообразовним и научно-истраживачким организацијама.

6. ДОДАТНЕ ИНФОРМАЦИЈЕ

6.1 Додатне информације о студенту:

/

6.2 Извори додатних информација о установи:

www.pmf.ni.ac.rs

7. ОВЕРА ДОДАТКА ДИПЛОМИ

7.1 Број:

Датум:

7.2 Одговорно лице:

Проф. др Иван Манчев, декан

Одговорно лице:

Проф. др Драган Антић, ректор

7.3 Печат и потпис:



Печат и потпис:



8. ПОДАЦИ О СИСТЕМУ ВИСОКОГ ОБРАЗОВАЊА У РЕПУБЛИЦИ СРБИЈИ

Оријентационе године старости

27-28

Трећи степен високог образовања

ДОКТОРСКЕ АКАДЕМСКЕ СТУДИЈЕ
180 ЕСПБ (уз претходно остварених на основним и дипломским академским студијама најмање 300 ЕСПБ)

24-25

Други степен високог образовања

Дипломске академске студије
60-120 ЕСПБ

Специјалистичке академске студије
60 ЕСПБ

Специјалистичке струковне студије
60 ЕСПБ

22-23

Први степен високог образовања

Интегрисане академске студије
300 ЕСПБ

Основне академске студије
180-240 ЕСПБ

Основне струковне студије
180 ЕСПБ

18-19

КАНДИДАТИ
са стеченим средњим образовањем и положеним пријемним испитом или испитом за проверу склоности и способности или општом матуrom

* Оцена је грешка

8.1 Types of high education institutions and their status

According to the Law on higher education (Official Gazette RS, No 76/05), the activity of high education in the Republic of Serbia is performed by the following high-education institutions:

- **University** – University is an independent institution of higher education the performance of which unites educational, scientific, research and professional/artistic work, as components of a unique higher education process. University can perform all types and levels of studies. The institution of higher education has the status of university if it performs academic study programs at all levels of studies, within at least three fields (natural sciences and mathematics, social and humanistic studies, medical sciences, technical and technological sciences, arts) and three areas. As an exception, a university can be established in the area of art, if it contains all three levels of studies from at least three fields of art.
- **Faculty/Art academy, as a component of the university** – Faculty/art academy is an institution of higher education, i.e. a unit of the system of higher education which is a part of university and performs academic study programs and develops scientific, research and professional/artistic activities within one or more areas. Faculty/art academy can also perform specialized study programs. In legal transfer, faculty/art academy is presented by the name of the university which it belongs to, under its own name and in accordance with the university statute.
- **The Academy of professional studies** – The academy of professional studies is an independent institution of higher education the performance of which unites educational, research, professional and artistic work, as components of the unique process of high education. The academy of professional studies can perform basic professional studies and specialist professional studies. An institution of higher education has the status of the academy of professional studies if it accomplishes at least five accredited study programs from at least three fields.
- **Higher education school** – Higher education school is an independent institution of higher education which performs basic, specialist and graduate academic studies in one or more areas.
- **Higher education school of professional studies** – Higher education school of professional studies is an independent institution of higher education which performs basic professional and specialist professional studies from one or more areas.

The stated institutions are treated as legal subjects. The stated institutions are independent institutions of higher education, except faculties and art academies.

8.2 Types and level of studies

The activity of higher education is performed through academic and professional studies based on granted/accredited study programs for the achievement of high education.

At the **academic** studies, the academic study programme is carried out. The program enables students for the development and practical use of scientific, professional and artistic achievements. There are three levels of academic studies.

Academic studies of the first level are basic academic studies.

Academic studies of the second level are graduate academic studies – master and specialist academic studies. Integrated academic studies are basic and graduate academic studies organised as one whole.

Academic studies of the third level are doctor academic studies.

At the **professional** studies, the professional study program is carried out. This program enables students to apply knowledge and skills necessary for participating in the working process. There are two levels of professional studies.

Professional studies of the first level are basic professional studies.

Professional studies of the second level are specialist professional studies.

8.2.1 Basic (academic or professional) studies

Basic studies are organized by all the institutions of higher education defined by the Law of higher education.

Basic academic studies last three to four years with the range of 180 to 240 ECTS.

Basic professional studies last three years with the range of 180 ECTS.

Study program of basic and specialist studies can include the final work.

A person who finishes the basic academic studies acquires the professional title that includes the name of the profession of the first degree academic studies in the corresponding area.

A person who finishes the basic professional studies acquires the professional title that includes the name of the profession of the first degree of the professional studies in the corresponding area.

8.2.2 Graduate academic studies

Graduate academic studies can be organized by the university, faculty of the higher education school. Graduate academic studies last one or two years depending on the range of the previous basic academic studies so that in total there is a range of at least 300 ECTS. Study program of graduate academic studies contains the obligation to create the final work. The person who finishes the graduate academic studies acquires the academic title – graduated, with the name of profession of the second degree of graduate academic studies in the corresponding area – master.

A person who finishes the graduate academic studies acquires the professional title that includes the name of the profession of the first degree of the professional studies in the corresponding area.

8.2.3 Integrated studies

Academic study programs can be also organized as integrated within basic and graduate academic studies (integrated academic studies) with the total of at least 300 ECTS and the maximum of 360 ECTS points (academic study programs in medical sciences).

8.2.4 Specialised (academic or professional) studies

Specialised studies last at least one year with the range of at least 60 ECTS and can be either academic or professional. The study program of professional studies can include specialised work. The person who finishes specialised studies acquires the professional title with the name of profession of the second degree of academic or professional studies in the corresponding area.

8.2.5 PhD academic studies

PhD studies can be organized by universities and faculties. PhD studies last for at least three years with at least 180 ECTS with previous basic and graduate academic studies that lasted for at least five years and at least 300 ECTS. PhD dissertation is the final part of the study program of PhD studies, with the exception of the PhD in Art which is an artistic project. Exceptionally, a person can achieve the PhD title by graduating in medical studies and with finished specialization, on the grounds of the dissertation defence on the works published in leading world magazines.

8.3 Marking system

A student's achievement in a specific subject is continuously assessed during lessons and it is expressed in points.

By fulfilling the exam preceding duties and by passing exams, a student can achieve the maximum of 100 points.

Study program establishes the proportion of points achieved during the exam-preceding duties and in the exam. The exam-preceding duties bring a minimum of 30 and maximum of 70 points.

Student's success is assessed by marks from 5 (failed) to 10 (excellent).

An institution of higher education can establish a different, numeric method of marking, by establishing the relation between these marks and those of 5 to 10. A general act of an institution of higher education defines more closely the way of taking exams and marking.

8.4 Formal conditions necessary to proceed with the higher education

To enroll the first level studies, a candidate takes the entrance exam or ability-check exam, in accordance with the general act of an independent institution of higher education.

The list (order) of candidates to enroll the first level of studies is established on the basis of the general success achieved during high-school education and results achieved at the entrance/ability check exam. A candidate who passed the final, general knowledge high school exam, does not take entrance exam. In this case, the candidate's results of the final high school exam are being assessed, instead of the entrance exam, in accordance with the general act of an independent institution of higher education.

An independent institution of higher education can direct the candidate, who passed the professional/artistic final high school exam instead of the entrance exam, to take tests in the certain subjects of the general, final high school exam.

On the basis of the competition criteria, an independent institution of higher education makes the rank order list of applied candidates. The right to enroll the first level of studies has the student who is ranked on the list, within the number of students determined in accordance with the article 84 of the Law of higher education.

The student of the first level studies of another independent institution of higher education, a person who acquired the higher education at the first level studies and a person who no longer has the status of a student, in accordance with this law, can enroll the first level studies, under conditions and within forms established by the general act of an independent institution of higher education, at the personal demand.

A candidate enrolls the **second and third level of studies** under certain conditions, according to the manner and procedures established by the general act and open competition of an independent institution of higher education.

8.5 Accreditation

Accreditation is used to establish that an institution of higher education and study programs fulfills the standards established by the National Council, and that it has the right to issue public documents, in accordance with the Law of higher education.

In the process of **accrediting an institution of higher education**, it is established if the institution fulfills certain conditions which are, according to the Law of higher education, specified for the given institutions which perform the higher education activity.

In the process of **accrediting a study program**, it is established if the conditions of introducing such a program are being fulfilled, in accordance with the law.

The process of accrediting is conducted at the demand of the Ministry, the founder, i.e., the institution of higher education itself.

In the process of accrediting, the Accreditation and Quality Control Commission can issue a certificate of accreditation to an institution of higher education or study program, issue an act of warning to an institution of higher education. This act points out the weaknesses concerning conditions, and gives a deadline for removing the weaknesses. When the deadline is over, it decides about the request. It can issue a decision which denies the accreditation demand.

If the board reaches a decision to deny the accreditation, the founder/ institution of higher education can file a complaint to the National Council within 30 days from the day the decision was received.

There could not be a legal process against the decision of the National Council.

The founder/institution of higher education has the right to repeat the request for accreditation after the period of one year the decision to deny the accreditation request was received.

The institution of higher education can start working and performing its activities after it receives the working license.

Working license is issued by the Ministry, at the demand of the institution of higher education. At the territory of AP Vojvodina, the licence is issued by the organs authorised for the delegated affairs.

8.6 National sources of information

- **The Ministry of Education**, Nemanjina 22-26, 11000 Belgrade, Serbia; Telephone: +381/11/363 11 07, Fax: +381/11/361 64 91, web: www.mp.gov.rs
- **The National Council for Higher Education**, the Palace of the Republic of Serbia, Bulevar Mihajla Pupina 2, 11000 Belgrade, Serbia.
- **Provincial Secretary of Education**, Bulevar Mihajla Pupina 16, 21000 Novi Sad, Serbia, AP Vojvodina; Telephone +381/11/48745 55, Fax: +381/21/456 986; web: www.obrazovanje.vojvodina.gov.rs



REPUBLIC OF SERBIA

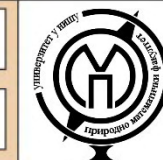


UNIVERSITY OF NIŠ

(Name and address of the Independent Higher Education Institution)

Faculty of Sciences and Mathematics in Niš

(Name and address of the Higher Education Institution)



DIPLOMA SUPPLEMENT

Valid only with the diploma

number 0021

dated October 21

year 2016

Diploma supplement provides a description of the nature, level, cohesion, context and status of the studies that were pursued and successfully completed by the individual named on the original qualification to which this supplement is appended. Information in all eight sections should be provided, and where information is not provided, an explanation should give the reason why.

1. INFORMATION IDENTIFYING THE HOLDER OF THE QUALIFICATION

1.1 First Name:

XXXXXX

1.2 Surname:

XXXXXX

1.3 Date of birth:

21.10.1995.

1.4 Student's identification number:

xxx

JMBG:

2110995

2. INFORMATION IDENTIFYING THE QUALIFICATION

2.1 Title conferred (professional, academic, scientific):

Doctor of Philosophy in Biology

2.2 Scientific/artistic/professional field(s) of study:

Biology

2.3 Name and status of the awarding institution:

University of Niš, Faculty of Sciences and Mathematics in Niš (state university)

2.4 Name and status of institution administering studies (if different from 2.3):

/

2.5 Language of instruction:

Serbian

3. INFORMATION ON THE LEVEL OF THE QUALIFICATION

3.1 Type and level of qualification:

Doctoral academic studies (third academic degree)

3.2 Official length of studies:

3 years (6 semesters)

3.3 Access requirements:

Undgraduate and master studies in the corresponding scientific fields or similar, with at least 300 ECTS, and achieved total average score in the previous level of not less than 8.00 (eight). Candidates for admission are ranked in accordance with the Rules of the Faculty.

4. INFORMATION ON THE CONTENTS AND RESULTS GAINED

4.1 Mode of study:

Full-time studies (at the seat of the Faculty)

4.2 Name and aims of the study program:

Biology

Mastering complex concepts and laws in the field biology and related science; training for use of scientific and technical literature from various sources; acquisition routine in the application of classical and modern methods and techniques in experimental biology; work on sophisticated instruments; the use of modern forms of processing and presentation of results.

4.3 Please see the next page:

4.4 Grading scheme:

Marks:	Classification:	Points number	
		from	to
10	excellent	91	100
9	outstandingly good	81	90
8	very good	71	80
7	good	61	70
6	sufficient	51	60
5	insufficient	0	50

4.5 Average grade and classification:

4.3 Study program details and the marks obtained:

No	code	Subjects						Year of the study program	Mark	Lecturer (surname and name)
		title	status	ECTS	total number of classes					
					lectures	practice	other			
1.										
2.										
3.										
4.										
5.										
6.										
7.										
8.										
9.										
10.										
11.										
12.										
13.										
14.										
15.										
16.										
17.										
18.										
19.										
20.										
Total				120					Average grade	

Title of the final paper / dissertation / artistic project:

Commission for the paper defence:

*the mark has been acknowledged

5. INFORMATION ON PURPOSE

5.1 Access to further studies:

5.2 Professional status:

Ability to independently solve theoretical and practical problems in biology and related scientific fields. Organizing and creating development and scientific research, involvement in the implementation of international scientific projects in the field of biology. Ability to work in higher education and scientific research organizations.

6. ADDITIONAL INFORMATION

6.1 Additional information on the student:

6.2 Further information sources:

7. CERTIFICATION OF THE DIPLOMA SUPPLEMENT

7.1 No:

Date:

7.2 Authorised person:

Authorised person:

7.3 Official seal and signature:

Official seal and signature:

8. INFORMATION ON THE SYSTEM OF HIGHER EDUCATION IN THE REPUBLIC OF SERBIA

Approximate age ↑

27-28

Third level of higher education

DOCTOR ACADEMIC STUDIES - PhD
180 ECTS (with previously achieved at least 300 ECTS at the basic studies and graduated-master studies)

24-25

Second level of higher education

Graduate – master academic studies
60-120 ECTS

Specialist academic studies
60 ECTS

Specialist professional studies
60 ECTS

22-23

First level of higher education

Integrated academic studies
Basic academic studies
180-240 ECTS

Basic professional studies
180 ECTS

18-19

CANDIDATES
(four year high school graduates, who passed admission test or ability check, or general final examination)

*the mark has been acknowledged

4.3 Појединости студијског програма и постигнуте оцене:

ред-број	шифра	назив	статус	ЕСПБ	укупан број часова			Година студијског програма	Оцена	Наставник (презиме и име)
					предавања	вежбе	друго			
1.	Ф-201	Теоријска механика	О	6				1		Гајић Драган
2.	Ф-202	Квантна механика	О	6				1		Николић Мирослав
3.	Ф-203	Електродинамика	О	6				1		Стевановић Љиљана
4.	Ф-204	Физичка електроника	О	6				1		Самарић Биљана
5.	О-01	Педагогија	И	6				1		Рањеловић Јовица
6.	Ф-224	Методика наставе физике	И	6				1		Нешић Љубиша
7.	Ф-205	Атомска и молекуларна физика	О	6				1		Манчев Иван
8.	Ф-206	Статистичка физика	О	6				1		Димитријевић Дејан
9.	Ф-207	Физика јонизованих гасова	О	6				1		Марковић Видосав
10.	Ф-226	Основе астрофизике	О	6				1		Гајић Драган
11.	Ф-208	Физика чврстог стања	О	6				2		Павловић Зоран
12.	Ф-209	Основе физике плазме	О	6				2		Димитријевић Дејан
13.	Ф-210	Физика елементарних честица	О	6				2		Ђорђевић Горан
14.	Ф-227	Наставна средства физике	И	6				2		Манчић Ана
15.	Ф-230	Физика у школи	И	6				2		Костић Љиљана
16.	Ф-214	Историја и филозофија физике	О	6				2		Николић Мирослав
17.	Ф-232	Методика решавања рачунских задатака	И	6				2		Манчев Иван
18.	Ф-235	Школска пракса	И	6				2		Костић Љиљана
19.	Сироп	Студијски истраживачки рад	О	4						
20.	ЗРоп	Завршни рад	О	10						, ментор
Укупно				120						Просечна оцена

Наслов завршног рада/дисертације/уметничког пројекта:

Комисија за одбрану рада:

* Оцена је гранична

5. ПОДАЦИ О НАМЕНИ СТЕЧЕНОГ НАЗИВА

5.1 Приступ даљим студијама:

5.2 Професионални статус:

Оспособљеност за самостално решавање теоријских и практичних проблема у физици и сродним научним областима. Организовање и креирање развојних и научних истраживања, укључивање у реализацију међународних научних пројеката у области физичких наука. Способност за рад у високообразовним и научно-истраживачким организацијама.

6. ДОДАТНЕ ИНФОРМАЦИЈЕ

6.1 Додатне информације о студенту:

6.2 Извори додатних информација о установи:

www.pmf.ni.ac.rs

7. ОВЕРА ДОДАТКА ДИПЛОМИ

7.1 Број:

Датум:

7.2 Одговорно лице:

Проф. др Иван Манчев, декан

Одговорно лице:

Проф. др Драган Антић, ректор

7.3 Печат и потпис:



Печат и потпис:



8. ПОДАЦИ О СИСТЕМУ ВИСОКОГ ОБРАЗОВАЊА У РЕПУБЛИЦИ СРБИЈИ

Оријентационе године старости

27-28

Трећи
степен
високог
образовања

ДОКТОРСКЕ АКАДЕМСКЕ СТУДИЈЕ
180 ЕСПБ (уз претходно остварених на основним и дипломским академским студијама најмање 300 ЕСПБ)

24-25

Други
степен
високог
образовања

Дипломске академске студије
60-120 ЕСПБ

Специјалистичке академске студије
60 ЕСПБ

Специјалистичке струковне студије
60 ЕСПБ

22-23

Први
степен
високог
образовања

Интегрисане академске студије
300 ЕСПБ

Основне академске студије
180-240 ЕСПБ

Основне струковне студије
180 ЕСПБ

18-19

КАНДИДАТИ
са стеченим средњим образовањем и положеним пријемним испитом или испитом за проверу склоности и способности или општом матуром

4.3 Study program details and the marks obtained:

No	code	Subjects						Year of the study program	Mark	Lecturer (surname and name)
		title	status	ECTS	total number of classes					
					lectures	practice	other			
1.										
2.										
3.										
4.										
5.										
6.										
7.										
8.										
9.										
10.										
11.										
12.										
13.										
14.										
15.										
16.										
17.										
18.										
19.										
20.										
		Total		120				Average grade		

Title of the final paper / dissertation / artistic project:

Commission for the paper defence:

*the mark has been acknowledged

5. INFORMATION ON PURPOSE

5.1 Access to further studies:

5.2 Professional status:

Ability to independently solve theoretical and practical problems in physics and related scientific fields. Organizing and creating development and scientific research, involvement in the implementation of international scientific projects in the field of physics. Ability to work in higher education and scientific research organizations.

6. ADDITIONAL INFORMATION

6.1 Additional information on the student:

6.2 Further information sources:

7. CERTIFICATION OF THE DIPLOMA SUPPLEMENT

7.1 No:

Date:

7.2 Authorised person:

Authorised person:

7.3 Official seal and signature:

Official seal and signature:

8. INFORMATION ON THE SYSTEM OF HIGHER EDUCATION IN THE REPUBLIC OF SERBIA

Approximate age ↑

27-28

Third level of higher education

DOCTOR ACADEMIC STUDIES - PhD
180 ECTS (with previously achieved at least 300 ECTS at the basic studies and graduated-master studies)

24-25

Second level of higher education

Graduate – master academic studies
60-120 ECTS

Specialist academic studies
60 ECTS

Specialist professional studies
60 ECTS

22-23

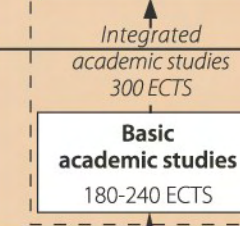
First level of higher education

Basic academic studies
180-240 ECTS

Basic professional studies
180 ECTS

18-19

CANDIDATES
(four year high school graduates, who passed admission test or ability check, or general final examination)



4.3 Појединости студијског програма и постигнуте оцене:

ред-број	шифра	назив	статус	ЕСПБ	укупан број часова			Година студијског програма	Оцена	Наставник (презиме и име)
					предавања	вежбе	друго			
1.	Ф-201	Теоријска механика	О	6				1		Гајић Драган
2.	Ф-202	Квантна механика	О	6				1		Николић Мирослав
3.	Ф-203	Електродинамика	О	6				1		Стевановић Љиљана
4.	Ф-204	Физичка електроника	О	6				1		Самарић Биљана
5.	О-01	Педагогија	И	6				1		Рањеловић Јовица
6.	Ф-224	Методика наставе физике	И	6				1		Нешић Љубиша
7.	Ф-205	Атомска и молекуларна физика	О	6				1		Манчев Иван
8.	Ф-206	Статистичка физика	О	6				1		Димитријевић Дејан
9.	Ф-207	Физика јонизованих гасова	О	6				1		Марковић Видосав
10.	Ф-226	Основе астрофизике	О	6				1		Гајић Драган
11.	Ф-208	Физика чврстог стања	О	6				2		Павловић Зоран
12.	Ф-209	Основе физике плазме	О	6				2		Димитријевић Дејан
13.	Ф-210	Физика елементарних честица	О	6				2		Ђорђевић Горан
14.	Ф-227	Наставна средства физике	И	6				2		Манчић Ана
15.	Ф-230	Физика у школи	И	6				2		Костић Љиљана
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18.	Ф-235	Школска пракса	И	6				2		Костић Љиљана
19.	Сироп	Студијски истраживачки рад	О	4						
20.	ЗРоп	Завршни рад	О	10						, ментор
Укупно				120						Просечна оцена

Наслов завршног рада/дисертације/уметничког пројекта:

Комисија за одбрану рада:

* Оцена је гранична

5. ПОДАЦИ О НАМЕНИ СТЕЧЕНОГ НАЗИВА

5.1 Приступ даљим студијама:

5.2 Професионални статус:

Оспособљеност за самостално решавање теоријских и практичних проблема у хемији и сродним научним областима. Организовање и креирање развојних и научних истраживања, укључивање у реализацију међународних научних пројеката у области хемијских наука. Способност за рад у високообразовним и научно-истраживачким организацијама.

6. ДОДАТНЕ ИНФОРМАЦИЈЕ

6.1 Додатне информације о студенту:

6.2 Извори додатних информација о установи:

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7. ОВЕРА ДОДАТКА ДИПЛОМИ

7.1 Број:

Датум:

7.2 Одговорно лице:

Проф. др Иван Манчев, декан

Одговорно лице:

Проф. др Драган Антић, ректор

7.3 Печат и потпис:



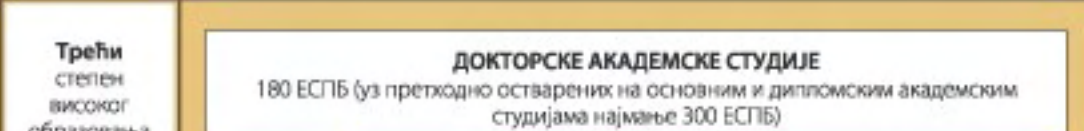
Печат и потпис:



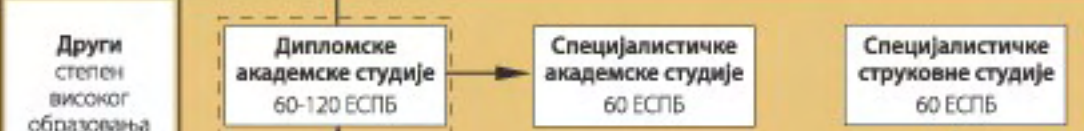
8. ПОДАЦИ О СИСТЕМУ ВИСОКОГ ОБРАЗОВАЊА У РЕПУБЛИЦИ СРБИЈИ

Оријентационе године старости

27-28



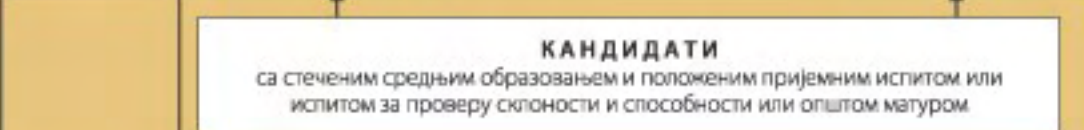
24-25



22-23



18-19



8.1 Types of high education institutions and their status

According to the Law on higher education (Official Gazette RS, No 76/05), the activity of high education in the Republic of Serbia is performed by the following high-education institutions:

- University** – University is an independent institution of higher education the performance of which unites educational, scientific, research and professional/artistic work, as components of a unique higher education process. University can perform all types and levels of studies. The institution of higher education has the status of university if it performs academic study programs at all levels of studies, within at least three fields (natural sciences and mathematics, social and humanistic studies, medical sciences, technical and technological sciences, arts) and three areas. As an exception, a university can be established in the area of art, if it contains all three levels of studies from at least three fields of art.
- Faculty/Art academy, as a component of the university** – Faculty/art academy is an institution of higher education, i.e. a unit of the system of higher education which is a part of university and performs academic study programs and develops scientific, research and professional/artistic activities within one or more areas. Faculty/art academy can also perform specialized study programs. In legal transfer, faculty/art academy is presented by the name of the university which it belongs to, under its own name and in accordance with the university statute.
- The Academy of professional studies** – The academy of professional studies is an independent institution of higher education the performance of which unites educational, research, professional and artistic work, as components of the unique process of high education. The academy of professional studies can perform basic professional studies and specialist professional studies. An institution of higher education has the status of the academy of professional studies if it accomplishes at least five accredited study programs from at least three fields.
- Higher education school** – Higher education school is an independent institution of higher education which performs basic, specialist and graduate academic studies in one or more areas.
- Higher education school of professional studies** – Higher education school of professional studies is an independent institution of higher education which performs basic professional and specialist professional studies from one or more areas.

The stated institutions are treated as legal subjects. The stated institutions are independent institutions of higher education, except faculties and art academies.

8.2 Types and level of studies

The activity of higher education is performed through academic and professional studies based on granted/accredited study programs for the achievement of high education.

At the **academic** studies, the academic study programme is carried out. The program enables students for the development and practical use of scientific, professional and artistic achievements. There are three levels of academic studies.

Academic studies of the first level are basic academic studies.

Academic studies of the second level are graduate academic studies – master and specialist academic studies. Integrated academic studies are basic and graduate academic studies organised as one whole.

Academic studies of the third level are doctor academic studies.

At the **professional** studies, the professional study program is carried out. This program enables students to apply knowledge and skills necessary for participating in the working process. There are two levels of professional studies.

Professional studies of the first level are basic professional studies.

Professional studies of the second level are specialist professional studies.

8.2.1 Basic (academic or professional) studies

Basic studies are organized by all the institutions of higher education defined by the Law of higher education.

Basic academic studies last three to four years with the range of 180 to 240 ECTS.

Basic professional studies last three years with the range of 180 ECTS.

Study program of basic and specialist studies can include the final work.

A person who finishes the basic academic studies acquires the professional title that includes the name of the profession of the first degree academic studies in the corresponding area.

A person who finishes the basic professional studies acquires the professional title that includes the name of the profession of the first degree of the professional studies in the corresponding area.

8.2.2 Graduate academic studies

Graduate academic studies can be organized by the university, faculty of the higher education school. Graduate academic studies last one or two years depending on the range of the previous basic academic studies so that in total there is a range of at least 300 ECTS. Study program of graduate academic studies contains the obligation to create the final work. The person who finishes the graduate academic studies acquires the academic title - graduated, with the name of profession of the second degree of graduate academic studies in the corresponding area – master.

The institution of higher education can start working and performing its activities after it receives the working license.

Working license is issued by the Ministry, at the demand of the institution of higher education. At the territory of AP Vojvodina, the licence is issued by the organs authorised for the delegated affairs.

The institution of higher education can start working and performing its activities after it receives the working license.

Working license is issued by the Ministry, at the demand of the institution of higher education. At the territory of AP Vojvodina, the licence is issued by the organs authorised for the delegated affairs.

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Working license is issued by the Ministry, at the demand of the institution of higher education. At the territory of AP Vojvodina, the licence is issued by the organs authorised for the delegated affairs.

8.2.5 PhD academic studies

PhD studies can be organized by universities and faculties. PhD studies last for at least three years with at least 180 ECTS with previous basic and graduate academic studies that lasted for at least five years and at least 300 ECTS. PhD dissertation is the final part of the study program of PhD studies, with the exception of the PhD in Art which is an artistic project. Exceptionally, a person can achieve the PhD title by graduating in medical studies and with finished specialization, on the grounds of the dissertation defence on the works published in leading world magazines.

8.3 Marking system

A student's achievement in a specific subject is continuously assessed during lessons and it is expressed in points.

By fulfilling the exam preceding duties and by passing exams, a student can achieve the maximum of 100 points.

Study program establishes the proportion of points achieved during the exam-preceding duties and in the exam. The exam-preceding duties bring a minimum of 30 and maximum of 70 points.

Student's success is assessed by marks from 5 (failed) to 10 (excellent).

An institution of higher education can establish a different, numeric method of marking, by establishing the relation between these marks and those of 5 to 10. A general act of an institution of higher education defines more closely the way of taking exams and marking.

8.4 Formal conditions necessary to proceed with the higher education

To enroll the first level studies, a candidate takes the entrance exam or ability-check exam, in accordance with the general act of an independent institution of higher education.

The list (order) of candidates to enroll the first level of studies is established on the basis of the general success achieved during high-school education and results achieved at the entrance/ability check exam. A candidate who passed the final, general knowledge high school exam, does not take entrance exam. In this case, the candidate's results of the final high school exam are being assessed, instead of the entrance exam, in accordance with the general act of an independent institution of higher education.

An independent institution of higher education can direct the candidate, who passed the professional/artistic final high school exam instead of the entrance exam, to take tests in the certain subjects of the general, final high school exam.

On the basis of the competition criteria, an independent institution of higher education makes the rank order list of applied candidates. The right to enroll the first level of studies has the student who is ranked on the list, within the number of students determined in accordance with the article 84 of the Law of higher education.

The student of the first level studies of another independent institution of higher education, a person who acquired the higher education at the first level studies and a person who no longer has the status of a student, in accordance with this law, can enroll the first level studies, under conditions and within forms established by the general act of an independent institution of higher education, at the personal demand.

A candidate enrolls the **second and third level of studies** under certain conditions, according to the manner and procedures established by the general act and open competition of an independent institution of higher education.

8.5 Accreditation

Accreditation is used to establish that an institution of higher education and study programs fulfills the standards established by the National Council, and that it has the right to issue public documents, in accordance with the Law of higher education.

In the process of **accrediting an institution of higher education**, it is established if the institution fulfills certain conditions which are, according to the Law of higher education, specified for the given institutions which perform the higher education activity.

In the process of **accrediting a study program**, it is established if the conditions of introducing such a program are being fulfilled, in accordance with the law.

The process of accrediting is conducted at the demand of the Ministry, the founder, i.e., the institution of higher education itself.

In the process of accrediting, the Accreditation and Quality Control Commission can issue a certificate of accreditation to an institution of higher education or study program, issue an act of warning to an institution of higher education. This act points out the weaknesses concerning conditions, and gives a deadline for removing the weaknesses. When the deadline is over, it decides about the request. It can issue a decision which denies the accreditation demand.

If the board reaches a decision to deny the accreditation, the founder/ institution of high education can file a complaint to the National Council within 30 days from the day the decision was received.

There could not be a legal process against the decision of the National Council. The founder/institution of higher education has the right to repeat the request for accreditation after the period of one year the decision to deny the accreditation request was received.

The institution of higher education can start working and performing its activities after it receives the working license.

Working license is issued by the Ministry, at the demand of the institution of higher education. At the territory of AP Vojvodina, the licence is issued by the organs authorised for the delegated affairs.

8.6 National sources of information

- The Ministry of Education**, Nemanjina 22-26, 11000 Belgrade, Serbia; Telephone: +381/11/363 11 07, Fax: +381/11/361 64 91, web: www.mp.gov.rs
- The National Council for Higher Education**, the Palace of the Republic of Serbia, Bulevar Mihajla Pupina 2, 11000 Belgrade, Serbia.
- Provincial Secretary of Education**, Bulevar Mihajla Pupina 16, 21000 Novi Sad, Serbia, AP Vojvodina; Telephone +381/11/48745 55, Fax: +381/21/456 986; web: www.obrazovanje.vojvodina.gov.rs



REPUBLIC OF SERBIA

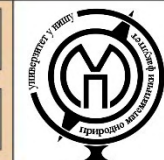


UNIVERSITY OF NIŠ

(Name and address of the Independent Higher Education Institution)

Faculty of Sciences and Mathematics in Niš

(Name and address of the Higher Education Institution)



DIPLOMA SUPPLEMENT

Valid only with the diploma

number 0021 dated October 21 year 2016

Diploma supplement provides a description of the nature, level, cohesion, context and status of the studies that were pursued and successfully completed by the individual named on the original qualification to which this supplement is appended. Information in all eight sections should be provided, and where information is not provided, an explanation should give the reason why.

1. INFORMATION IDENTIFYING THE HOLDER OF THE QUALIFICATION

1.1 First Name:

XXXXXX

1.2 Surname:

XXXXXX

1.3 Date of birth:

21.10.1995.

1.4 Student's identification number:

xxx

JMBG:

2110995

2. INFORMATION IDENTIFYING THE QUALIFICATION

2.1 Title conferred (professional, academic, scientific):

Doctor of Philosophy in Chemistry

2.2 Scientific/artistic/professional field(s) of study:

Chemistry

2.3 Name and status of the awarding institution:

University of Niš, Faculty of Sciences and Mathematics in Niš (state university)

2.4 Name and status of institution administering studies (if different from 2.3):

/

2.5 Language of instruction:

Serbian

3. INFORMATION ON THE LEVEL OF THE QUALIFICATION

3.1 Type and level of qualification:

Doctoral academic studies (third academic degree)

3.2 Official length of studies:

3 years (6 semesters)

3.3 Access requirements:

Undgraduate and master studies in the corresponding scientific fields or similar, with at least 300 ECTS, and achieved total average score in the previous level of not less than 8.00 (eight). Candidates for admission are ranked in accordance with the Rules of the Faculty.

4. INFORMATION ON THE CONTENTS AND RESULTS GAINED

4.1 Mode of study:

Full-time studies (at the seat of the Faculty)

4.2 Name and aims of the study program:

Chemistry

Mastering complex concepts and laws in the field chemistry and related science; training manual scientific and technical literature from various sources; obtaining routine the application of traditional and modern methods and techniques experimental chemistry; work on sophisticated instruments for chromatographic, spectroscopic, electrochemical and other methods types of chemical analysis; the use of modern forms of treatment and present results.

4.3 Please see the next page:

4.4 Grading scheme:

Marks:	Classification:	Points number	
		from	to
10	excellent	91	100
9	outstandingly good	81	90
8	very good	71	80
7	good	61	70
6	sufficient	51	60
5	insufficient	0	50

4.5 Average grade and classification:

4.3 Study program details and the marks obtained:

No	code	Subjects						Year of the study program	Mark	Lecturer (surname and name)
		title	status	ECTS	total number of classes					
					lectures	practice	other			
1.										
2.										
3.										
4.										
5.										
6.										
7.										
8.										
9.										
10.										
11.										
12.										
13.										
14.										
15.										
16.										
17.										
18.										
19.										
20.										
		Total		120				Average grade		
Title of the final paper / dissertation / artistic project:										
Commission for the paper defence:										

*the mark has been acknowledged

5. INFORMATION ON PURPOSE

5.1 Access to further studies:

5.2 Professional status:

Ability to independently solve theoretical and practical problems in chemistry and related scientific fields. Organizing and creating development and scientific research, involvement in the implementation of international scientific projects in the field of chemistry. Ability to work in higher education and scientific research organizations.

6. ADDITIONAL INFORMATION

6.1 Additional information on the student:

6.2 Further information sources:

7. CERTIFICATION OF THE DIPLOMA SUPPLEMENT

7.1 No:

Date:

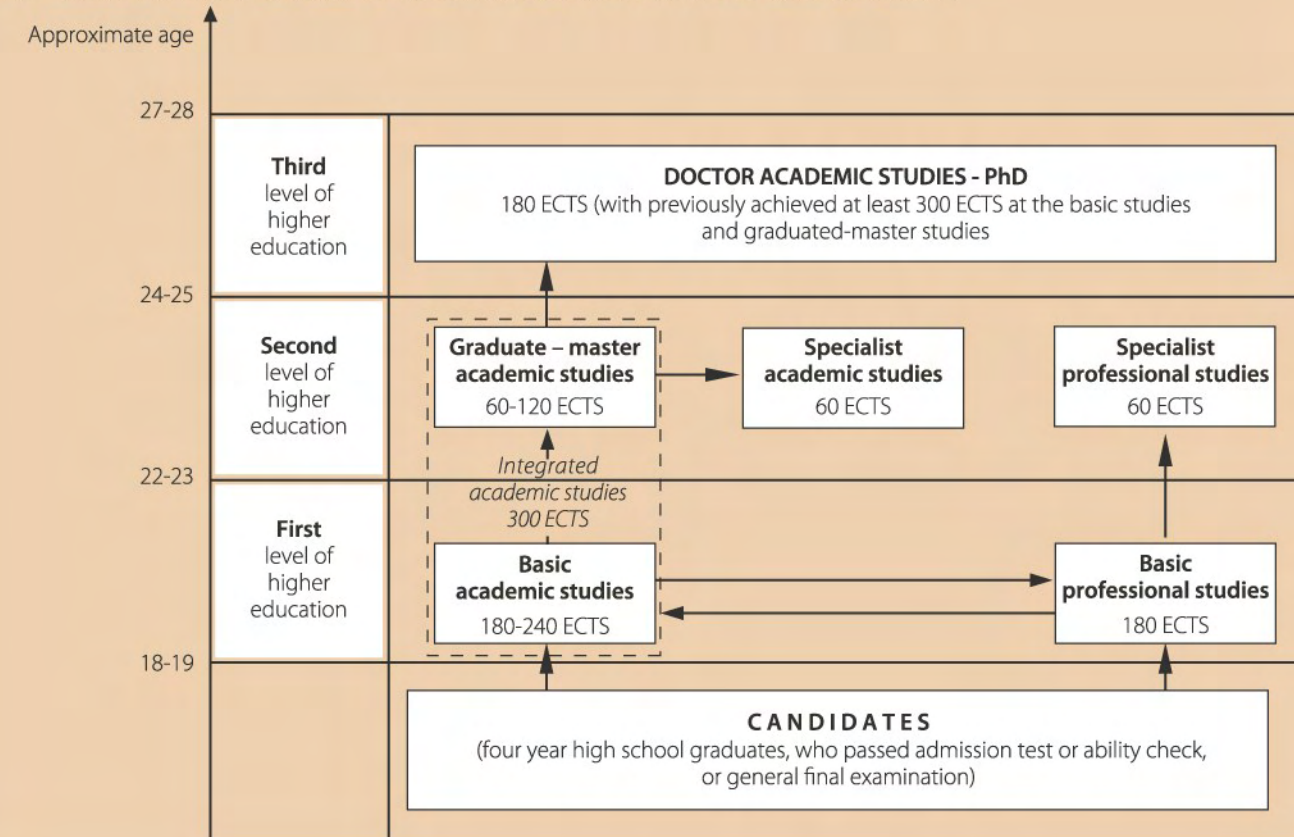
7.2 Authorised person:

Authorised person:

7.3 Official seal and signature:

Official seal and signature:

8. INFORMATION ON THE SYSTEM OF HIGHER EDUCATION IN THE REPUBLIC OF SERBIA



4.3 Појединости студијског програма и постигнуте оцене:

ред-број	шифра	назив	статус	ЕСПБ	укупан број часова			Година студијског програма	Оцена	Наставник (презиме и име)
					предавања	вежбе	друго			
1.	Ф-201	Теоријска механика	О	6				1		Гајић Драган
2.	Ф-202	Квантна механика	О	6				1		Николић Мирослав
3.	Ф-203	Електродинамика	О	6				1		Стевановић Љиљана
4.	Ф-204	Физичка електроника	О	6				1		Самарић Биљана
5.	О-01	Педагогија	И	6				1		Рањеловић Јовица
6.	Ф-224	Методика наставе физике	И	6				1		Нешић Љубиша
7.	Ф-205	Атомска и молекуларна физика	О	6				1		Манчев Иван
8.	Ф-206	Статистичка физика	О	6				1		Димитријевић Дејан
9.	Ф-207	Физика јонизованих гасова	О	6				1		Марковић Видосав
10.	Ф-226	Основе астрофизике	О	6				1		Гајић Драган
11.	Ф-208	Физика чврстог стања	О	6				2		Павловић Зоран
12.	Ф-209	Основе физике плазме	О	6				2		Димитријевић Дејан
13.	Ф-210	Физика елементарних честица	О	6				2		Ђорђевић Горан
14.	Ф-227	Наставна средства физике	И	6				2		Манчић Ана
15.	Ф-230	Физика у школи	И	6				2		Костић Љиљана
16.	Ф-214	Историја и филозофија физике	О	6				2		Николић Мирослав
17.	Ф-232	Методика решавања рачунских задатака	И	6				2		Манчев Иван
18.	Ф-235	Школска пракса	И	6				2		Костић Љиљана
19.	Сироп	Студијски истраживачки рад	О	4						
20.	ЗРоп	Завршни рад	О	10						, ментор
Укупно				120						Просечна оцена

Наслов завршног рада/дисертације/уметничког пројекта:

Комисија за одбрану рада:

* Оцена је гранична

5. ПОДАЦИ О НАМЕНИ СТЕЧЕНОГ НАЗИВА

5.1 Приступ даљим студијама:

5.2 Професионални статус:

Оспособљеност за самостално решавање математичких проблема, као и примена математике на решавање проблема у другим наукама и друштвеним делатностима. Организовање и креирање развојних и научних истраживања, укључивање у реализацију међународних научних пројеката у области математике. Способност за рад у високообразовним и научно-истраживачким организацијама.

6. ДОДАТНЕ ИНФОРМАЦИЈЕ

6.1 Додатне информације о студенту:

6.2 Извори додатних информација о установи:

www.pmf.ni.ac.rs

7. ОВЕРА ДОДАТКА ДИПЛОМИ

7.1 Број:

Датум:

7.2 Одговорно лице:

Проф. др Иван Манчев, декан

Одговорно лице:

Проф. др Драган Антић, ректор

7.3 Печат и потпис:



Печат и потпис:



8. ПОДАЦИ О СИСТЕМУ ВИСОКОГ ОБРАЗОВАЊА У РЕПУБЛИЦИ СРБИЈИ

Оријентационе године старости

27-28

Трећи
степен
високог
образовања

ДОКТОРСКЕ АКАДЕМСКЕ СТУДИЈЕ
180 ЕСПБ (уз претходно остварених на основним и дипломским академским студијама најмање 300 ЕСПБ)

24-25

Други
степен
високог
образовања

Дипломске академске студије
60-120 ЕСПБ

Специјалистичке академске студије
60 ЕСПБ

Специјалистичке струковне студије
60 ЕСПБ

22-23

Први
степен
високог
образовања

Интегрисане академске студије
300 ЕСПБ

Основне академске студије
180-240 ЕСПБ

Основне струковне студије
180 ЕСПБ

18-19

КАНДИДАТИ
са стеченим средњим образовањем и положеним пријемним испитом или испитом за проверу склоности и способности или општом матуrom



REPUBLIC OF SERBIA



UNIVERSITY OF NIŠ

(Name and address of the Independent Higher Education Institution)

Faculty of Sciences and Mathematics in Niš

(Name and address of the Higher Education Institution)



DIPLOMA SUPPLEMENT

Valid only with the diploma

number 0021

dated October 21

year 2016

Diploma supplement provides a description of the nature, level, cohesion, context and status of the studies that were pursued and successfully completed by the individual named on the original qualification to which this supplement is appended. Information in all eight sections should be provided, and where information is not provided, an explanation should give the reason why.

1. INFORMATION IDENTIFYING THE HOLDER OF THE QUALIFICATION

1.1 First Name:

XXXXXX

1.2 Surname:

XXXXXX

1.3 Date of birth:

21.10.1995.

1.4 Student's identification number:

XXX

JMBG:

2110995

2. INFORMATION IDENTIFYING THE QUALIFICATION

2.1 Title conferred (professional, academic, scientific):

Doctor of Philosophy in Mathematics

2.2 Scientific/artistic/professional field(s) of study:

Mathematics

2.3 Name and status of the awarding institution:

University of Niš, Faculty of Sciences and Mathematics in Niš (state university)

2.4 Name and status of institution administering studies (if different from 2.3):

/

2.5 Language of instruction:

Serbian

3. INFORMATION ON THE LEVEL OF THE QUALIFICATION

3.1 Type and level of qualification:

Doctoral academic studies (third academic degree)

3.2 Official length of studies:

3 years (6 semesters)

3.3 Access requirements:

Undergraduate and master studies in the corresponding scientific fields or similar, with at least 300 ECTS, and achieved total average score in the previous level of not less than 8.00 (eight). Candidates for admission are ranked in accordance with the Rules of the Faculty.

4. INFORMATION ON THE CONTENTS AND RESULTS GAINED

4.1 Mode of study:

Full-time studies (at the seat of the Faculty)

4.2 Name and aims of the study program:

Mathematics

Acceptance and improvement of modern scientific knowledge in mathematics and original contribution to mathematical research. Independently formulate and solve problems in mathematics, as well as the application of mathematics to solve problems in other sciences, social activities, economy and industry.

4.3 Please see the next page:

4.4 Grading scheme:

Marks:	Classification:	Points number	
		from	to
10	excellent	91	100
9	outstandingly good	81	90
8	very good	71	80
7	good	61	70
6	sufficient	51	60
5	insufficient	0	50

4.5 Average grade and classification:

8.1 Types of high education institutions and their status

According to the Law on higher education (Official Gazette RS, No 76/05), the activity of high education in the Republic of Serbia is performed by the following high-education institutions:

- University** – University is an independent institution of higher education the performance of which unites educational, scientific, research and professional/artistic work, as components of a unique higher education process. University can perform all types and levels of studies. The institution of higher education has the status of university if it performs academic study programs at all levels of studies, within at least three fields (natural sciences and mathematics, social and humanistic studies, medical sciences, technical and technological sciences, arts) and three areas. As an exception, a university can be established in the area of art, if it contains all three levels of studies from at least three fields of art.
- Faculty/Art academy, as a component of the university** – Faculty/art academy is an institution of higher education, i.e. a unit of the system of higher education which is a part of university and performs academic study programs and develops scientific, research and professional/artistic activities within one or more areas. Faculty/art academy can also perform specialized study programs. In legal transfer, faculty/art academy is presented by the name of the university which it belongs to, under its own name and in accordance with the university statute.
- The Academy of professional studies** – The academy of professional studies is an independent institution of higher education the performance of which unites educational, research, professional and artistic work, as components of the unique process of high education. The academy of professional studies can perform basic professional studies and specialist professional studies. An institution of higher education has the status of the academy of professional studies if it accomplishes at least five accredited study programs from at least three fields.
- Higher education school** – Higher education school is an independent institution of higher education which performs basic, specialist and graduate academic studies in one or more areas.
- Higher education school of professional studies** – Higher education school of professional studies is an independent institution of higher education which performs basic professional and specialist professional studies from one or more areas.

The stated institutions are treated as legal subjects. The stated institutions are independent institutions of higher education, except faculties and art academies.

8.2 Types and level of studies

The activity of higher education is performed through academic and professional studies based on granted/accredited study programs for the achievement of high education.

At the **academic** studies, the academic study programme is carried out. The program enables students for the development and practical use of scientific, professional and artistic achievements. There are three levels of academic studies.

Academic studies of the first level are basic academic studies.

Academic studies of the second level are graduate academic studies – master and specialist academic studies. Integrated academic studies are basic and graduate academic studies organised as one whole.

Academic studies of the third level are doctor academic studies.

At the **professional** studies, the professional study program is carried out. This program enables students to apply knowledge and skills necessary for participating in the working process. There are two levels of professional studies.

Professional studies of the first level are basic professional studies.

Professional studies of the second level are specialist professional studies.

8.2.1 Basic (academic or professional) studies

Basic studies are organised by all the institutions of higher education defined by the Law of higher education.

Basic academic studies last three to four years with the range of 180 to 240 ECTS.

Basic professional studies last three years with the range of 180 ECTS.

Study program of basic and specialist studies can include the final work.

A person who finishes the basic academic studies acquires the professional title that includes the name of the profession of the first degree academic studies in the corresponding area.

A person who finishes the basic professional studies acquires the professional title that includes the name of the profession of the first degree of the professional studies in the corresponding area.

8.2.2 Graduate academic studies

Graduate academic studies can be organized by the university, faculty of the higher education school. Graduate academic studies last one or two years depending on the range of the previous basic academic studies so that in total there is a range of at least 300 ECTS. Study program of graduate academic studies contains the obligation to create the final work. The person who finishes the graduate academic studies acquires the academic title - graduated, with the name of profession of the second degree of graduate academic studies in the corresponding area – master.

A person who finishes the graduate academic studies acquires the professional title that includes the name of the profession of the first degree of the professional studies in the corresponding area.

8.2.3 Integrated studies

Academic study programs can be also organized as integrated within basic and graduate academic studies (integrated academic studies) with the total of at least 300 ECTS and the maximum of 360 ECTS points (academic study programs in medical sciences).

8.2.4 Specialised (academic or professional) studies

Specialised studies last at least one year with the range of at least 60 ECTS and can be either academic or professional. The study program of professional studies can include specialised work. The person who finishes specialised studies acquires the professional title with the name of profession of the second degree of academic or professional studies in the corresponding area.

8.2.5 PhD academic studies

PhD studies can be organized by universities and faculties. PhD studies last for at least three years with at least 180 ECTS with previous basic and graduate academic studies that lasted for at least five years and at least 300 ECTS. PhD dissertation is the final part of the study program of PhD studies, with the exception of the PhD in Art which is an artistic project. Exceptionally, a person can achieve the PhD title by graduating in medical studies and with finished specialization, on the grounds of the dissertation defence on the works published in leading world magazines.

8.3 Marking system

A student's achievement in a specific subject is continuously assessed during lessons and it is expressed in points.

By fulfilling the exam preceding duties and by passing exams, a student can achieve the maximum of 100 points.

Study program establishes the proportion of points achieved during the exam-preceding duties and in the exam. The exam-preceding duties bring a minimum of 30 and maximum of 70 points.

Student's success is assessed by marks from 5 (failed) to 10 (excellent).

An institution of higher education can establish a different, numeric method of marking, by establishing the relation between these marks and those of 5 to 10. A general act of an institution of higher education defines more closely the way of taking exams and marking.

8.4 Formal conditions necessary to proceed with the higher education

To enroll the first level studies, a candidate takes the entrance exam or ability-check exam, in accordance with the general act of an independent institution of higher education.

The list (order) of candidates to enroll the first level of studies is established on the basis of the general success achieved during high-school education and results achieved at the entrance/ability check exam. A candidate who passed the final, general knowledge high school exam, does not take entrance exam. In this case, the candidate's results of the final high school exam are being assessed, instead of the entrance exam, in accordance with the general act of an independent institution of higher education.

An independent institution of higher education can direct the candidate, who passed the professional/artistic final high school exam instead of the entrance exam, to take tests in the certain subjects of the general, final high school exam.

On the basis of the competition criteria, an independent institution of higher education makes the rank order list of applied candidates. The right to enroll the first level of studies has the student who is ranked on the list, within the number of students determined in accordance with the article 84 of the Law of higher education.

The student of the first level studies of another independent institution of higher education, a person who acquired the higher education at the first level studies and a person who no longer has the status of a student, in accordance with this law, can enroll the first level studies, under conditions and within forms established by the general act of an independent institution of higher education, at the personal demand.

A candidate enrolls the **second and third level of studies** under certain conditions, according to the manner and procedures established by the general act and open competition of an independent institution of higher education.

8.5 Accreditation

Accreditation is used to establish that an institution of higher education and study programs fulfills the standards established by the National Council, and that it has the right to issue public documents, in accordance with the Law of higher education.

In the process of **accrediting an institution of higher education**, it is established if the institution fulfills certain conditions which are, according to the Law of higher education, specified for the given institutions which perform the higher education activity.

In the process of **accrediting a study program**, it is established if the conditions of introducing such a program are being fulfilled, in accordance with the law.

The process of accrediting is conducted at the demand of the Ministry, the founder, i.e., the institution of higher education itself.

In the process of accrediting, the Accreditation and Quality Control Commission can issue a certificate of accreditation to an institution of higher education or study program, issue an act of warning to an institution of higher education. This act points out the weaknesses concerning conditions, and gives a deadline for removing the weaknesses. When the deadline is over, it decides about the request. It can issue a decision which denies the accreditation demand.

If the board reaches a decision to deny the accreditation, the founder/ institution of higher education can file a complaint to the National Council within 30 days from the day the decision was received.

There could not be a legal process against the decision of the National Council.

The founder/institution of higher education has the right to repeat the request for accreditation after the period of one year the decision to deny the accreditation request was received.

The institution of higher education can start working and performing its activities after it receives the working license.

Working license is issued by the Ministry, at the demand of the institution of higher education. At the territory of AP Vojvodina, the licence is issued by the organs authorised for the delegated affairs.

8.6 National sources of information

- The Ministry of Education**, Nemanjina 22-26, 11000 Belgrade, Serbia; Telephone: +381/11/363 11 07, Fax: +381/11/361 64 91, web: www.mp.gov.rs
- The National Council for Higher Education**, the Palace of the Republic of Serbia, Bulevar Mihajla Pupina 2, 11000 Belgrade, Serbia.
- Provincial Secretary of Education**, Bulevar Mihajla Pupina 16, 21000 Novi Sad, Serbia, AP Vojvodina; Telephone +381/11/48745 55, Fax: +381/21/456 986; web: www.obrazovanje.vojvodina.gov.rs

4.3 Study program details and the marks obtained:

No	code	Subjects						Year of the study program	Mark	Lecturer (surname and name)
		title	status	ECTS	total number of classes					
					lectures	practice	other			
1.										
2.										
3.										
4.										
5.										
6.										
7.										
8.										
9.										
10.										
11.										
12.										
13.										
14.										
15.										
16.										
17.										
18.										
19.										
20.										
		Total		120				Average grade		

Title of the final paper / dissertation / artistic project:

Commission for the paper defence:

*the mark has been acknowledged

5. INFORMATION ON PURPOSE

5.1 Access to further studies:

5.2 Professional status:

Ability to independently solve mathematical problems, and the application of mathematics to solve problems in other sciences and social activities. Organizing and creating development and scientific research, involvement in the implementation of international scientific projects in the field of mathematics. Ability to work in higher education and scientific research organizations.

6. ADDITIONAL INFORMATION

6.1 Additional information on the student:

6.2 Further information sources:

7. CERTIFICATION OF THE DIPLOMA SUPPLEMENT

7.1 No:

Date:

7.2 Authorised person:

Authorised person:

7.3 Official seal and signature:

Official seal and signature:

8. INFORMATION ON THE SYSTEM OF HIGHER EDUCATION IN THE REPUBLIC OF SERBIA

Approximate age ↑

27-28

Third level of higher education

DOCTOR ACADEMIC STUDIES - PhD
180 ECTS (with previously achieved at least 300 ECTS at the basic studies and graduated-master studies)

24-25

Second level of higher education

Graduate – master academic studies
60-120 ECTS

Specialist academic studies
60 ECTS

Specialist professional studies
60 ECTS

22-23

First level of higher education

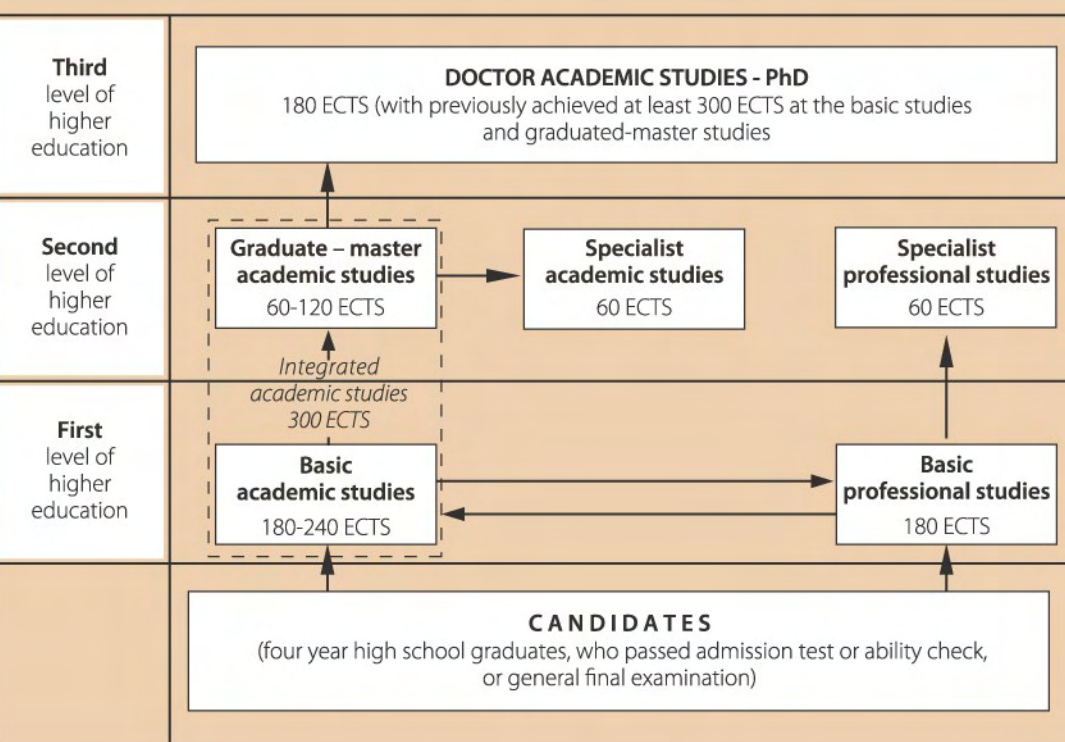
Basic academic studies
180-240 ECTS

Basic professional studies
180 ECTS

18-19

CANDIDATES
(four year high school graduates, who passed admission test or ability check, or general final examination)

Integrated academic studies
300 ECTS



4.3 Појединости студијског програма и постигнуте оцене:

ред-број	шифра	назив	статус	ЕСПБ	укупан број часова			Година студијског програма	Оцена	Наставник (презиме и име)
					предавања	вежбе	друго			
1.	Ф-201	Теоријска механика	О	6				1		Гајић Драган
2.	Ф-202	Квантна механика	О	6				1		Николић Мирослав
3.	Ф-203	Електродинамика	О	6				1		Стевановић Љиљана
4.	Ф-204	Физичка електроника	О	6				1		Самарић Биљана
5.	О-01	Педагогија	И	6				1		Рањеловић Јовица
6.	Ф-224	Методика наставе физике	И	6				1		Нешић Љубиша
7.	Ф-205	Атомска и молекуларна физика	О	6				1		Манчев Иван
8.	Ф-206	Статистичка физика	О	6				1		Димитријевић Дејан
9.	Ф-207	Физика јонизованих гасова	О	6				1		Марковић Видосав
10.	Ф-226	Основе астрофизике	О	6				1		Гајић Драган
11.	Ф-208	Физика чврстог стања	О	6				2		Павловић Зоран
12.	Ф-209	Основе физике плазме	О	6				2		Димитријевић Дејан
13.	Ф-210	Физика елементарних честица	О	6				2		Ђорђевић Горан
14.	Ф-227	Наставна средства физике	И	6				2		Манчић Ана
15.	Ф-230	Физика у школи	И	6				2		Костић Љиљана
16.	Ф-214	Историја и филозофија физике	О	6				2		Николић Мирослав
17.	Ф-232	Методика решавања рачунских задатака	И	6				2		Манчев Иван
18.	Ф-235	Школска пракса	И	6				2		Костић Љиљана
19.	Сироп	Студијски истраживачки рад	О	4						
20.	ЗРоп	Завршни рад	О	10						, ментор
Укупно				120					Просечна оцена	

Наслов завршног рада/дисертације/уметничког пројекта:

Комисија за одбрану рада:

* Оцена је гранична

5. ПОДАЦИ О НАМЕНИ СТЕЧЕНОГ НАЗИВА

5.1 Приступ даљим студијама:

5.2 Професионални статус:

Оспособљеност за самостално формулисање и решавање проблема у рачунарским наукама, као и примена стеченог знања на решавање проблема у другим наукама и друштвеним делатностима. Организовање и креирање развојних и научних истраживања, укључивање у реализацију међународних научних пројеката у области рачунарских наука. Способност за рад у високообразовним и научно-истраживачким организацијама.

6. ДОДАТНЕ ИНФОРМАЦИЈЕ

6.1 Додатне информације о студенту:

6.2 Извори додатних информација о установи:

www.pmf.ni.ac.rs

7. ОВЕРА ДОДАТКА ДИПЛОМИ

7.1 Број:

Датум:

7.2 Одговорно лице:

Проф. др Иван Манчев, декан

Одговорно лице:

Проф. др Драган Антић, ректор

7.3 Печат и потпис:



Печат и потпис:



8. ПОДАЦИ О СИСТЕМУ ВИСОКОГ ОБРАЗОВАЊА У РЕПУБЛИЦИ СРБИЈИ

Оријентационе године старости

27-28

Трећи
степен
високог
образовања

ДОКТОРСКЕ АКАДЕМСКЕ СТУДИЈЕ
180 ЕСПБ (уз претходно остварених на основним и дипломским академским студијама најмање 300 ЕСПБ)

24-25

Други
степен
високог
образовања

Дипломске академске студије
60-120 ЕСПБ

Специјалистичке академске студије
60 ЕСПБ

Специјалистичке струковне студије
60 ЕСПБ

22-23

Први
степен
високог
образовања

Интегрисане академске студије
300 ЕСПБ

Основне академске студије
180-240 ЕСПБ

Основне струковне студије
180 ЕСПБ

18-19

КАНДИДАТИ
са стеченим средњим образовањем и положеним пријемним испитом или испитом за проверу склоности и способности или општом матуром



REPUBLIC OF SERBIA



UNIVERSITY OF NIŠ

(Name and address of the Independent Higher Education Institution)

Faculty of Sciences and Mathematics in Niš

(Name and address of the Higher Education Institution)



DIPLOMA SUPPLEMENT

Valid only with the diploma

number 0021

dated October 21

year 2016

Diploma supplement provides a description of the nature, level, cohesion, context and status of the studies that were pursued and successfully completed by the individual named on the original qualification to which this supplement is appended.

8.1 Types of high education institutions and their status

According to the Law on higher education (Official Gazette RS, No 76/05), the activity of high education in the Republic of Serbia is performed by the following high-education institutions:

- University - University is an independent institution of higher education... Faculty/Art academy, as a component of the university... The Academy of professional studies... Higher education school... Higher education school of professional studies

8.2.5 PhD academic studies

PhD studies can be organized by universities and faculties. PhD studies last for at least three years with at least 180 ECTS with previous basic and graduate academic studies...

8.3 Marking system

A student's achievement in a specific subject is continuously assessed during lessons and it is expressed in points. By fulfilling the exam preceding duties and by passing exams, a student can achieve the maximum of 100 points.

8.4 Formal conditions necessary to proceed with the higher education

To enroll the first level studies, a candidate takes the entrance exam or ability-check exam, in accordance with the general act of an independent institution of higher education. The list (order) of candidates to enroll the first level of studies is established on the basis of the general success achieved during high-school education...

The stated institutions are treated as legal subjects. The stated institutions are independent institutions of higher education, except faculties and art academies.

8.2 Types and level of studies

The activity of higher education is performed through academic and professional studies based on granted/accredited study programs for the achievement of high education. At the academic studies, the academic study programme is carried out. The program enables students for the development and practical use of scientific, professional and artistic achievements.

8.5 Accreditation

Accreditation is used to establish that an institution of higher education and study programs fulfills the standards established by the National Council, and that it has the right to issue public documents, in accordance with the Law of higher education. In the process of accrediting an institution of higher education, it is established if the institution fulfills certain conditions which are, according to the Law of higher education, specified for the given institutions which perform the higher education activity.

8.2.1 Basic (academic or professional) studies

Basic studies are organized by all the institutions of higher education defined by the Law of higher education. Basic academic studies last three to four years with the range of 180 to 240 ECTS. Basic professional studies last three years with the range of 180 ECTS.

8.2.2 Graduate academic studies

Graduate academic studies can be organized by the university, faculty of the higher education school. Graduate academic studies last one or two years depending on the range of the previous basic academic studies so that in total there is a range of at least 300 ECTS.

8.2.3 Integrated studies

Academic study programs can be also organized as integrated within basic and graduate academic studies (integrated academic studies) with the total of at least 300 ECTS and the maximum of 360 ECTS points (academic study programs in medical sciences).

8.2.4 Specialised (academic or professional) studies

Specialised studies last at least one year with the range of at least 60 ECTS and can be either academic or professional. The study program of professional studies can include specialised work. The person who finishes specialised studies acquires the professional title with the name of profession of the second degree of academic or professional studies in the corresponding area.

8.6 National sources of information

- The Ministry of Education, Nemanjina 22-26, 11000 Belgrade, Serbia; Telephone: +381/11/363 11 07, Fax: +381/11/361 64 91, web: www.mp.gov.rs
The National Council for Higher Education, the Palace of the Republic of Serbia, Bulevar Mihajla Pupina 2, 11000 Belgrade, Serbia.
Provincial Secretary of Education, Bulevar Mihajla Pupina 16, 21000 Novi Sad, Serbia, AP Vojvodina; Telephone +381/11/48745 55, Fax: +381/21/456 986; web: www.obrazovanje.vojvodina.gov.rs

1. INFORMATION IDENTIFYING THE HOLDER OF THE QUALIFICATION

1.1 First Name: XXXXXX
1.2 Surname: XXXXXX
1.3 Date of birth: 21.10.1995.
1.4 Student's identification number: xxx JMBG: 2110995

3.3 Access requirements:

Undergraduate and master studies in the corresponding scientific fields or similar, with at least 300 ECTS, and achieved total average score in the previous level of not less than 8.00 (eight). Candidates for admission are ranked in accordance with the Rules of the Faculty.

2. INFORMATION IDENTIFYING THE QUALIFICATION

2.1 Title conferred (professional, academic, scientific): Doctor of Philosophy in Computer Science
2.2 Scientific/artistic/professional field(s) of study: Computer Science
2.3 Name and status of the awarding institution: University of Niš, Faculty of Sciences and Mathematics in Niš (state university)
2.4 Name and status of institution administering studies (if different from 2.3): /

4. INFORMATION ON THE CONTENTS AND RESULTS GAINED

4.1 Mode of study: Full-time studies (at the seat of the Faculty)
4.2 Name and aims of the study program: Computer Science
Training for independent scientific research in the field of computer science, as well as a critical assessment of research in this and related scientific fields.

4.3 Please see the next page:

4.4 Grading scheme:

Table with 4 columns: Marks, Classification, Points number from, Points number to. Rows: 10 (excellent, 91-100), 9 (outstandingly good, 81-90), 8 (very good, 71-80), 7 (good, 61-70), 6 (sufficient, 51-60), 5 (insufficient, 0-50)

4.5 Average grade and classification:

Average grade and classification: [Empty field]

3. INFORMATION ON THE LEVEL OF THE QUALIFICATION

3.1 Type and level of qualification: Doctoral academic studies (third academic degree)
3.2 Official length of studies: 3 years (6 semesters)

4.3 Study program details and the marks obtained:

No	code	Subjects						Year of the study program	Mark	Lecturer (surname and name)
		title	status	ECTS	total number of classes					
					lectures	practice	other			
1.										
2.										
3.										
4.										
5.										
6.										
7.										
8.										
9.										
10.										
11.										
12.										
13.										
14.										
15.										
16.										
17.										
18.										
19.										
20.										
		Total		120				Average grade		

Title of the final paper / dissertation / artistic project:

Commission for the paper defence:

*the mark has been acknowledged

5. INFORMATION ON PURPOSE

5.1 Access to further studies:

5.2 Professional status:

Ability to independently formulate and solve problems in computer science and application of acquired knowledge to solve problems in other sciences and social activities. Organizing and creating development and scientific research, involvement in the implementation of international scientific projects in the field of computer science. Ability to work in higher education and scientific research organizations.

6. ADDITIONAL INFORMATION

6.1 Additional information on the student:

6.2 Further information sources:

7. CERTIFICATION OF THE DIPLOMA SUPPLEMENT

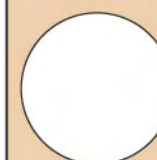
7.1 No:

Date:

7.2 Authorised person:

Authorised person:

7.3 Official seal and signature:



Official seal and signature:



8. INFORMATION ON THE SYSTEM OF HIGHER EDUCATION IN THE REPUBLIC OF SERBIA

Approximate age ↑

27-28

Third level of higher education

DOCTOR ACADEMIC STUDIES - PhD
180 ECTS (with previously achieved at least 300 ECTS at the basic studies and graduated-master studies)

24-25

Second level of higher education

Graduate – master academic studies
60-120 ECTS

Specialist academic studies
60 ECTS

Specialist professional studies
60 ECTS

22-23

First level of higher education

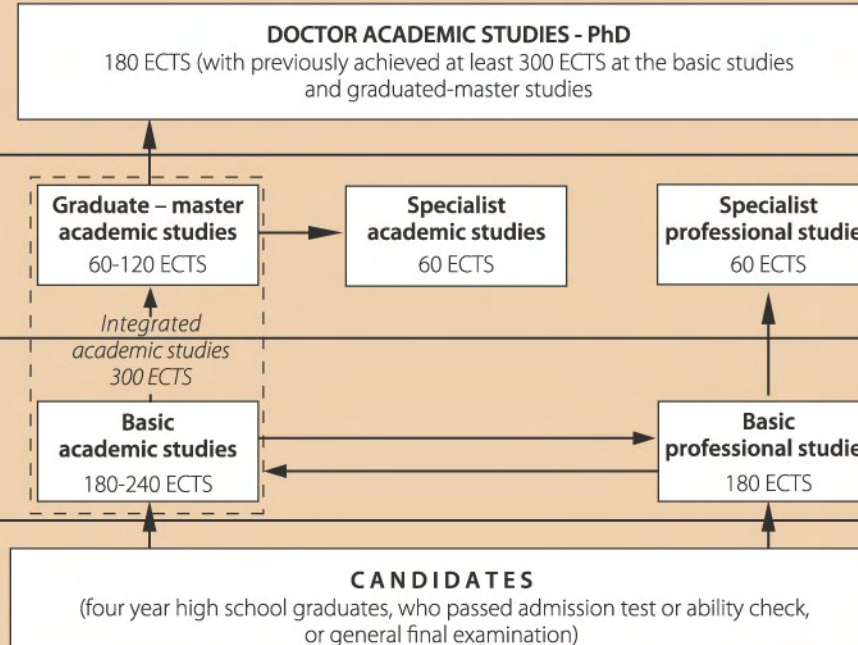
Basic academic studies
180-240 ECTS

Basic professional studies
180 ECTS

18-19

CANDIDATES
(four year high school graduates, who passed admission test or ability check, or general final examination)

Integrated academic studies
300 ECTS





Научно наставном већу
Природно-математичког факултета
Универзитета у Нишу

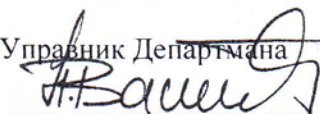
ПРИРОДНО - МАТЕМАТИЧКИ ФАКУЛТЕТ - НИШ			
Прихваћено:		18.5.2017.	
СРТ. ЈЕД.	Б р о ј	Крило	Вредност
01	1664		

Предмет: Мишљење о молби за плаћено одсуство наставника

На седници Већа Департмана за биологију и екологију, одржаној 17.05.2017. године, разматрана је молба др Ђурађа Милошевића за плаћено одсуство у периоду од 05. - 08.06.2017. и у периоду 02. - 08.07.2017. ради учествовања на 3. састанку Одбора менаџмента кост акције "Science and Management of Intermittent Rivers and Ephemeral Streams (SMIRES; CA15113)" који ће бити одржан у Лиону (Француска) и 20. Међународном симпозијуму фамилије Chironomidae (20th International Symposium on Chironomidae) који ће бити одржан у Тренту (Италија).

Одсуство је једногласно одобрено од стране већа Департмана, па предлагемо Наставно-научном већу Факултета да одобри плаћено одсуство др Ђурађу Милошевићу.

У Нишу
17.05.2017.год.

Управник Департмана

др Перица Васиљевић



Наставно-научном већу

Природно-математичког факултета у Нишу

ПРИРОДНО-МАТЕМАТИЧКИ ФАКУЛТЕТ • НИШ

Примљено: 18.5.2017.			
Орг. јед.	Бр ој	Прилог	Вредност
01	1668		

На седници Департмана за хемију ПМФ-а у Нишу, одржаној дана 17.5.2017. год., донета је пдлука о давању сагласности:

- др Нику Радуловићу, редовном професору ПМФ—а у Нишу о учешћу у састанцима радних тела, као и учешћу на међународном скупу “48th International Symposium on Essential Oils (ISEO2017)”, који ће се одржати у Печују (Pécs), Мађарска, од 10. до 13. септембра 2017. године.
- Миљани Ђорђевић, истраживачу-сараднику, Драгану Златковићу, истраживачу-сараднику и Николи Стојановићу, истраживачу-приправнику о учешћу на међународном скупу “48th International Symposium on Essential Oils (ISEO2017)”, који ће се одржати у Печују (Pécs), Мађарска, од 10. до 13. септембра 2017. године.

Сагласност се даје ради конкурисања по јавном позиву Министарства просвете, науке и технолошког развоја за суфинансирање учешћа истраживача на научним скуповима и радним састанцима радних тела научног скупа у иностранству) Др Нико Радуловић, редовни професор

Управник Департмана за хемију

др Виолета Митић

Примљено: 17.5.2017.			
ОРГ. ЈЕД.	Б р о ј	Прилог	Вредност
01	1636		

Универзитет у Нишу
Природно-математички факултет

НАСТАВНО-НАУЧНОМ ВЕЋУ

Предмет: Рецензија рукописа за уџбеник *Микробне симбиозе*, аутора проф др Татјане Михајилов-Крстев, ванредног професора на Департману за биологоју и екологију, ПМФ-а у Нишу

Одлуком Наставно-научног већа Природно-математичког факултета у Нишу, бр. 404/1-01 од 26.04.2017. године, је за рецензирање рукописа за уџбеник *Микробне симбиозе*, аутора проф Др Татјане Михајилов-Крстев, ванредног професора на Департману за биологоју и екологију, ПМФ-а у Нишу, именована комисија следећег састава:

1. Проф др Љиљана Чомић, редовни професор ПМФ-а у Крагујевцу, ужа научна област Микробиологија,
2. Проф др Владимир Жикић, ванредни професор ПМФ-а у Нишу, ужа научна област Зоологија и
3. Проф др Наташа Јоковић, ванредни професор ПМФ-а у Нишу, ужа научна област Експериментална биологија и биотехнологија.

Након извршене рецензије рукописа, Комисија, Наставно-научном већу ПМФ-а у Нишу, подноси следећи

ИЗВЕШТАЈ

Велики број истраживања и нових сазнања о симбиотичким асоцијацијама и њиховој улози у сложеним еколошким односима, структури и функцији екосистема, као и еволутивном процесу специјације и развоју биодиверзитета, довео је до генерисања нове биолошке дисциплине која се бави проучавањем симбиоза. Рукопис за уџбеник *Микробне симбиозе*, аутора проф др Татјане Михајилов-Крстев, је компилација фундаменталних сазнања о сложеним интраспецијским односима у које учествују микроорганизми на свим нивоима организације живих бића. Осим тога, с обзиром да су микроорганизми једна хетерогена група организама која обухвата вирусе, бактерије, микроалге, микрогљиве и протозое, овај уџбеник се ослања на знања стечена у оквиру предмета Микробиологија, Алгологија и микологија и Систематика инвертебрата, тако да представља и својеврстан кратак преглед и подсетник који имплицира повезаност између тих научних дисциплина. Уџбеник је намењен студентима основних студија

Биологије и Екологије, студентима мастер студија и студентима из блиских биотехнолошких наука.

Рукопис за уџбеник *Микробне симбиозе* има 209 страна текста (према критеријуму 1660 карактера по страници), 66 слика, илустрација и шема, и 6 табела. Сазнања из те области су систематизована у оквиру девет логичких целина:

1. УВОД у коме су описани типови биолошких интеракција и дата је класификација симбиоза код свих облика живота, са посебним освртом на микробне симбиозе;
2. ВИРАЛНА СИМБИОТИЧКА УДРУЖЕЊА је поглавље које садржи преглед основних знања о грађи, класификацији и репликацији вируса, типовима и производима вирусних инфекција, као и о симбиотичким интеракцијама вируса са бактеријама, алгама, биљкама, гљивама и животињама;
3. СИМБИОЗЕ ИЗМЕЂУ БАКТЕРИЈА И ДРУГИХ ОРГАНИЗАМА је целина у којој се разматрају односи између различитих врста бактерија, као и између бактерија и биљака, бактерија и протозоа и бактерија и животиња. Посебна пажња је посвећена азотофиксирајућим удружењима која учествују у веома значајном биогеохемијском кружењу азота у природи;
4. ПОРЕКЛО ЕУКАРИОТСКЕ ЋЕЛИЈЕ је поглавље које садржи најновија сазнања о пореклу различитих компоненти еукариотске ћелије, као и о ћелији-домаћину као интрацелуларном екосистему;
5. ФОТОСИНТЕТИЧКА УДРУЖЕЊА ИЗМЕЂУ АЛГИ И ДРУГИХ ОРГАНИЗАМА је преглед удружења у која улазе алге са гљивама, моринским протозоама и инвертебратама и слатководним инвертебратама, као и преглед паразитских алги;
6. ИНТЕРФУНГАЛНЕ И ФУНГАЛНЕ СИМБИОЗЕ СА ДРУГИМ ОРГАНИЗМИМА је компилација знања о главним особинама гљива, интерфунгалним микосимбиозама, асоцијацијама гљива и биљака, гљива и протозоа и гљива и животиња, са освртом на значајније патогене гљиве и микозе које оне изазивају;
7. СИМБИОТСКЕ ПРОТОЗОЕ је поглавље у коме су описане симбиозе код раздела Amoeba, Ciliata, Flagellata и Apicomplexa.
8. ЛИТЕРАТУРА – списак коришћене литературе и
9. ИНДЕКС ПОЈМОВА који садржи најважније биолошке појмове и веома је користан подсетник за сваког студента.

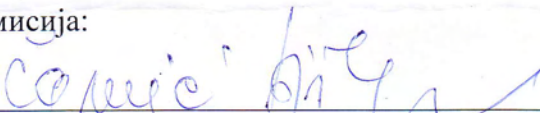
Распоред целина у предложеном рукопису прати програм предмета *Биолошке симбиозе* у акредитационим документима, обрађујући већи део предвиђених тема, чиме је постигнута усаглашеност са захтевима стандарда за извођење наставе на високошколским установама. Рукопис је написан концизно, прегледно и стручно уз поштовање дидактичких и методичких правила, као и биолошке терминологије и номенклатуре. Квалитету рукописа доприносе и 91 фуснота које су веома корисне дигресије и често истичу интердисциплинарност проблематике истраживања биолошких асоцијација. Језик и стил писања одговарају академском нивоу образовања којем је уџбеник намењен што указује на вишегодишње педагошко искуство аутора. Рукопис за уџбеник је квалитетно припремљен у графичко-ликовном погледу. Сlike, шеме и табеле су адекватно одабране и логички повезане са текстом активно доприносећи његовом бољем разумевању и прегледности. Осим тога, с обзиром да је

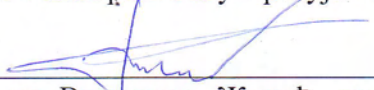
предложени рукопис за уџбеник јединствен на српском језику, умногоме обогаћује литературни фонд користан за студенте биолошке орјентације.


Рукопис за уџбеник *Микробне симбиозе* по свом садржају и квалитету представља значајан допринос уџбеничкој литератури, због чега Комисија са задовољством **предлаже Наставно-научном већу Природно-математичког факултета у Нишу да прихвати позитивну рецензију рукописа за уџбеник *Микробне симбиозе*, аутора проф др Татјане Михајилов-Крстев, ванредног професора на Департману за биологију и екологију, и да одобри његово издавање и штампање.**

У Нишу,
15.05.2017. године

Комисија:


Проф др Љиљана Чомић, редовни професор
ПМФ-а Универзитета у Крагујевцу


Проф др Владимир Жикић, ванредни професор
ПМФ-а Универзитета у Нишу


Проф др Наташа Јоковић, ванредни професор
ПМФ-а Универзитета у Нишу