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PHOTOGRAPHY
Mr. Adonis Skutelis
Prof. Nikola Grujic, MD, PhD
Prof. Goran Marusic, MD, PhD
The Faculty of Medicine, as part of the University of Novi Sad, had its’ 50th Anniversary in 2010. Experience gained during that period has been enough to qualify our Faculty as an autonomous centre of excellence for health education and scientific progress. Following dynamic changes, innovations and the idea of common European area of education and science, implementation of Bologna Declaration in our curricula, lead to the fact that Faculty nowadays offers 11 accredited study programs through first, second and third level of education, specialized studies and several other forms of knowledge innovation and education, such as continuous medical education, lifelong learning programs, etc.
Integrated studies in Medicine, Dentistry and Pharmacy are organized in English language during twelve (Medicine) or ten (Dentistry and Pharmacy) semester study programs. One of distinctive features of education system at our Faculty is the curriculum that integrates premedical basic education and basic medical education in function of clinical practice, especially primary health care. Such an educational system encourages undergraduate students to search for their own perspectives and inspires them to develop into highly skilled and competent medical practitioners and researchers in medical sciences.

Nowadays, teaching activities are organized in well established learning environment at the Institutes of premedical basic sciences and basic medical sciences, Institute of Public Health, 29 clinics and 8 regional health centers for education in clinical medicine.
Since the establishment, more than 7000 students have graduated from Faculties of Medicine, Dentistry and Pharmacy and they represent our Institution all over the world as successful professionals, researchers and scientists. Academic staff is represented by over 500 professors and all other teaching profiles, with intention to apply contemporary teaching methods in the enlargement of students’ knowledge as our primary goal.

Special aspect of the activities at Faculty is oriented towards formation of an educational system that is competence-oriented, based on well formulated learning outcomes what inevitably leads to greater quality. Also, participation at various student mobility programs is increasing our internationalization in higher education.

Thus, Faculty management invites all future students to find out why there are always more applicants interested for studying at our Faculty than can be enrolled. We believe that advantages of city as Novi Sad, pleasant environment, multiethnic and multicultural society, are additional reasons for making the right decision.

Dean
Prof. Dr Nikola Grujuc

Vice Dean for International Cooperation
Prof. Dr Goran Marusic
Contemporary Vojvodina arose from the ruins of many empires. Roman, Byzantine, Ottoman, Austro-Hungarian, Germans settled here. Greeks, Armenians, Jews and Aromanians passed through. Hungarians, Slovaks and Ukrainians have already been here. This is the reason why the heritage of Vojvodina is so full of beauty. Settlers from “lower countries” built more than thirty monasteries on the Fruška Gora. That’s why Fruška Gora is called the second Mount Athos. The first Serbian gymnasium was opened in 1871 in Sremski Karlovci. The Matica Srpska (the oldest cultural-scientific institution of Serbia) was founded in 1826 and the Serbian National Theatre in 1861. The
oldest literary magazine in the world the Letopis (The Chronicle), which is still being published here, was launched in 1825.

A settlement of today’s Novi Sad was founded in 1694 on the left bank of the Danube. The initial name of this settlement was Serb City (Ratzen Stadt). The settlement officially gained the present name Novi Sad (Neoplanta in Latin) when it became a “free royal city” by the edict proclaimed on February 1, 1748 by Maria Theresa.

The city is located opposite to Petrovaradin Fortress (Petrovaradinska tvrdjava), on the right bank of the Danube river. The cornerstone of the present-day southern part of the fortress was laid on October 18, 1692, by Charles Eugène de Croÿ. Petrovaradin Fortress has many underground tunnels (16 km) as well as underground countermine system).
In 1991 Petrovaradin Fortress was added to Spatial Cultural-Historical Units of Great Importance list, and it is protected by Republic of Serbia and it serves as place of museums, natural beauty and popular place for cultural events
For much of the 18th and 19th centuries, Novi Sad was the largest city in the world populated by ethnic Serbs. During the Revolution of 1848-1849, Novi Sad was part of Serbian Vojvodina, a Serbian autonomous region within the Habsburg Empire. In 1849, the Hungarian army located on the Petrovaradin Fortress bombarded and devastated the city, which lost much of its population. According to an 1850 census there were only 7,182 citizens in the city compared with 17,332 in 1843. Between 1849 and 1860, the city was part of a separate Austrian crownland known as the Vojvodina of Serbia and Tamiš Banat. After the abolishment of this province, the city was included into Bačka-Bodrog County.

After 1867, Novi Sad was located within the Hungarian part of Austria-Hungary. On November 25, 1918, the Assembly of Serbs, Bunjevci, and other nations of Vojvodina, in Novi Sad, proclaimed the union of Vojvodina region with the Kingdom of Serbia. Since December 1, 1918, Novi Sad is part of the Kingdom of Serbs, Croats, and Slovenes; and in 1929, Novi Sad
became the capital of the Danube Banovina, a province of the Kingdom of Yugoslavia.

In 1941, the Kingdom of Yugoslavia was invaded and partitioned by the Axis powers, and its northern parts, including Novi Sad, were annexed by Hungary. During World War II, about 5,000 citizens were murdered and many others were resettled. Citizens of all nationalities - Serbs, Hungarians, Slovaks, and others - fought together against the Axis authorities.

Novi Sad became part of the new socialist Yugoslavia. Since 1945, Novi Sad has been the capital of Vojvodina, a province of the Socialist Federal Republic of Yugoslavia and Serbia. The city went through rapid industrialization and its population more than doubled in the period between World War II and the breakup of Yugoslavia. After 1992, Novi Sad was part of the Federal Republic of Yugoslavia, which, in 2003, was transformed into the State Union of Serbia and Montenegro. Since 2006, Novi Sad is part of an independent Serbia.
Novi Sad is a typical Central European town, the largest city in Vojvodina, and second largest in Serbia (after Belgrade). Since its founding, the population of the city has been constantly increasing. From city’s registry estimation in December 2009, population of the urban area of Novi Sad was 284,426, and the population of municipal area was at 370,757. The city has an urban population density of 1,673.7/km² (4,340.3/sq mi) - census 2002.

Today, Novi Sad is the cultural centre of Vojvodina and city’s officials try to make the city more attractive to numerous cultural events and music concerts. Since 2000, Novi Sad is home to the EXIT festival, the biggest music summer festival in Serbia and the region; and also the only festival of alternative and new theatre in Serbia - INFANT, most prominent festival of children’s literature - Zmaj Children Games, International Novi Sad Literature Festival, Sterijino pozorje, Novi Sad Jazz Festival, and many others.

City has a couple of museums, and many galleries, public and privately owned through Novi Sad. The most well known
museum in the city is Museum of Vojvodina, founded by Matica Srpska in 1847, which houses a permanent collection of Serbian culture and a life in Vojvodina through history. Museum of Novi Sad in Petrovaradin Fortress has a permanent collection of history of fortress. Gallery of Matica Srpska is the biggest and most respected gallery in the city, which has two galleries in the city centre. There is also The Gallery of Fine Arts - Gift Collection of Rajko Mamuzić and The Pavle Beljanski Memorial Collection - one of the biggest collections of Serbian art from 1900s until 1970s.
University of Novi Sad

The University of Novi Sad was founded on 28 June 1960. Today it comprises 14 faculties located in the four major towns of the Autonomous Province of Vojvodina: Novi Sad, Subotica, Zrenjanin, and Sombor.

The University of Novi Sad is now the second largest among six state universities in Serbia. The main University Campus, covering an area of 259,807m², provides the University of Novi Sad with a unique and most beautiful setting in the region and the city of Novi Sad.
Having invested considerable efforts in intensifying international cooperation and participating in the process of university reforms in Europe, the University of Novi Sad has come to be recognized as a reform-oriented university in the region and on the map of universities in Europe.
Faculty of Medicine

The Faculty of Medicine is an autonomous educational and scientific institution, specialized in the field of higher medical education. It offers both undergraduate and postgraduate studies as well as various forms of training in the field of medical science.

The Medical Faculty in Novi Sad awards graduates upon completion of their courses in English language with diplomas in corresponding fields with the title of Doctor of Medicine, Doctor of Dentistry, and Master of Pharmacy.
Studies are based on approved or accredited programs of higher education in the field of medical science in accordance to the ECTS system and the accumulation of credit points. Close-ly relying on European standards and programs, our study pro-grams are continuously restructured to focus more on practical forms of learning (practical work, demonstrations, seminars) and adapted to international study programs. At the same time, this educational system encourages medical students and grants them a chance in seeking their own perspectives and inspires them to become well trained and competent physicians and re-searchers in the field of medical science.

Since its foundation, on May 18th, 1960, more than 6,000 medical doctors, dentists and pharmacists have graduated from the Medical Faculty in Novi Sad. Today, former students of our University are proud ambassadors of our school in Greece, Switzerland, Sweden, France, United Kingdom, Germany, Hungary, United States, Canada, India, Iran, Kuwait, Malaysia and Chi-
na to name a few, and countries in the Middle East, Africa, Asia, Eastern Europe and around the world.

**Number of graduate students until 2010:**

1. MEDICINE (established 1960) – 6,074
2. DENTISTRY (established 1997) - 937
3. PHARMACY (established 2000) - 247
4. NURSING (established 2003) - 47

Some of the teaching bases are: Clinical centre f Vojvodina, Institutes of Kardiology, Pulmology and Oncology in Sremska Kamenica, Institute for child and youth health, etc.
Faculty of Medicine Novi Sad employs more than 500 professors and teaching assistants who are involved in the education of future professionals in the field of medicine, dentistry and pharmacy. We believe that buildings and equipment are very important for achieving good results at our university, but teachers are the greatest wealth of our Faculty. All of them are proficient English speakers and highly motivated in their respective fields. Some of them are amongst the best in Europe.

<table>
<thead>
<tr>
<th>Teaching staff:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. FULL PROFESSORS - 127</td>
</tr>
<tr>
<td>2. ASSOCIATE PROFESSORS - 87</td>
</tr>
<tr>
<td>3. ASSISTANT PROFESSORS - 89</td>
</tr>
<tr>
<td>4. TEACHING ASSISTANTS - 268</td>
</tr>
</tbody>
</table>
Number of applicants in recent years have soared because of implementation of the standardized “Bologna System of Education”, which assures that unlike some of the other eastern European countries, our students will be more similar to their European colleagues, with the same implementation of curriculum as in EU member states, assuring international validation and recognition of our diplomas.
Libraries and study rooms are available to students along with recreation and sport facilities. The Faculty organizes yearly trips to different European countries along with exchange programs which help students to trade ideas with their colleagues from other universities and implement new techniques at our University.
# GENERAL INFORMATION ABOUT STUDING AT MEDICAL FACULTY IN NOVI SAD

<table>
<thead>
<tr>
<th>School Name:</th>
<th>University of Novi Sad, Faculty of Medicine Novi Sad</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address:</td>
<td>Hajduk Veljkova 3, Novi Sad – 21000, Republic of Serbia</td>
</tr>
<tr>
<td></td>
<td>Tel: +381 21 420 677 / 420 678</td>
</tr>
<tr>
<td></td>
<td>Fax: +381 21 66 24 153</td>
</tr>
<tr>
<td></td>
<td>e-mail: <a href="mailto:dekanmf@uns.ac.rs">dekanmf@uns.ac.rs</a></td>
</tr>
<tr>
<td></td>
<td>web: <a href="http://www.medical.uns.ac.rs">www.medical.uns.ac.rs</a></td>
</tr>
</tbody>
</table>
Today the Faculty of Medicine in Novi Sad is a modern high-educational, scientific institution with activities as follows:

- Undergraduate, specialized and postgraduate studies in the field of Medicine, Dentistry, Pharmacy, Nursing, Special Rehabilitation and Education and Physiotherapy
- Scientific research (basic, developmental, applied).
- Health care as prescribed by the Law.
- Publishing activities - textbooks, handbooks, practical course manuals, monographs and other publications.
ECTS and the Transfer of Credits

What is ECTS?

ECTS, the European Community Course Credit Transfer System, was developed by the Commission of the European Union in order to provide common procedures to guarantee academic recognition of studies abroad. It provides a way of measuring and comparing learning achievements, and transferring them from one institution to another. The ECTS system is based on the principle of mutual trust and confidence between the participating higher education institutions. The few rules of ECTS, concerning information (on courses available), Agreement (between the home and host institutions), and the Use of Credit Points (to indicate student workload) are set out to reinforce this mutual trust and confidence. Each ECTS department will describe the courses it offers not only in terms of content but also adding credits to each course.

The ECTS credits

The ECTS are a value allocated to course units to describe the student workload required to complete them. They reflect the quantity of work each course requires in relation to the total quantity of work required to complete a full year of academic study at the institution that is, lectures, practical work, seminars, self-studies – in the library or at home – and examinations or other assessment activities. ECTS credits express a relative value. In ECTS, 60 credits represent the workload of a year of study; normally 30 credits are given for a semester. One ECTS credit is equivalent to 27 hours of students’ workload. Credits are awarded only if the course has been completed and all required examinations have been successfully taken.
**ECTS credit transfer**

The students participating in ECTS will receive credits for all academic work, successfully carried out at any of partner institutions and they will be able to transfer these academic credits from one participating institutions to another on the basis of the prior learning agreement. The learning agreement is based on the content of a study program abroad and concluded between the student and the home institution. If the student has successfully completed the study program previously agreed in the learning agreement and returns to the home institution, credit transfer will take place, and the student will continue her/his studies at the home institution without any loss of time or credit. ECTS also enables further study abroad. The transcript of records is particularly useful in this context as it provides a history of the student is academic achievements.

**ECTS COORDINATORS**

<table>
<thead>
<tr>
<th></th>
<th>Name</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Goran Marusic, MD, PhD</td>
<td>Vice Dean for International Cooperation and Foreign Students</td>
</tr>
<tr>
<td>2</td>
<td>Snezana Brkic, MD, PhD</td>
<td>Vice Dean for Academic Affairs</td>
</tr>
<tr>
<td>3</td>
<td>Jovan Popovic, MD, PhD</td>
<td>Vice Dean for Accreditation and Quality Control</td>
</tr>
</tbody>
</table>
A. ACADEMIC CALENDAR

BEGINNING OF THE ACADEMIC YEAR

The normal academic year is divided into two semesters of 15 weeks each. The winter semester runs from October 1 (The Welcome Day for 1st year students) to January 21, and the summer semester from February 15 to approximately June 7.

Note: The exact duration of the semesters may vary, depending on the October examination terms (for second or more advanced year students). It is therefore advisable to check the exact schedules published at the web-site.

BREAKS AND HOLIDAYS

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<tr>
<td></td>
<td>October (encompassing 7 working days starting from Sept 10)</td>
</tr>
<tr>
<td></td>
<td>October II (encompassing 5 working days ending with Sept 30)</td>
</tr>
</tbody>
</table>

*detailed examination schedule is published at the website*
### Separate Medical Education Programs at Institution (Undergraduate):

<table>
<thead>
<tr>
<th>Program</th>
<th>Duration</th>
<th>ECTS</th>
<th>Study Level</th>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Medicine</td>
<td>6 years</td>
<td>360</td>
<td>1st and 2nd level</td>
<td>Serbian or English</td>
</tr>
<tr>
<td>2. Dentistry</td>
<td>5 years</td>
<td>300</td>
<td>1st and 2nd level</td>
<td>Serbian or English</td>
</tr>
<tr>
<td>3. Pharmacy</td>
<td>5 years</td>
<td>300</td>
<td>1st and 2nd level</td>
<td>Serbian or English</td>
</tr>
<tr>
<td>4. Nursing</td>
<td>3 years</td>
<td>180</td>
<td>Applied Study</td>
<td>Serbian OR 4 years 240 ECTS (1st level academic study) Serbian</td>
</tr>
<tr>
<td>5. Special Rehabilitation and Education</td>
<td>4 years</td>
<td>240</td>
<td>1st level academic study</td>
<td>Serbian</td>
</tr>
<tr>
<td>6. Physiotherapy</td>
<td>4 years</td>
<td>240</td>
<td>1st level academic study</td>
<td>Serbian</td>
</tr>
</tbody>
</table>

### Progression Criteria:

- The ECTS are a value allocated to course units to describe the student workload required to complete them. They reflect the quantity of work each course requires in relation to the total quantity of work required to complete a full year of academic study at the institution, i.e., lectures, practical work, seminars, self-studies – in the library or at home – and examinations or other assessment activities. ECTS credits express a relative value.
- In ECTS, 60 credits represent the workload of a year of study; 30 credits are given for a semester. 1 ECTS is equivalent to ca 27 hours of workload.
- Credits are awarded only if the course has been completed and all required examinations have been successfully taken.
Exam requirements:
Students are continually assessed at exercises, seminars and oral examination, whereas these results are taken into consideration at final examinations in each subject. Compulsory subject’s examinations are taken in established examination terms January, April, June, September, October, October II. Examinations are open to the public with an examiner and examining panel with assessment approaches as follows: written, oral, practical or combined examination, which is defined by curriculum.

Description of the institutional grading system:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Grade distribution guidance</th>
<th>Percentage of the overall number of points (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Excellent – with distinction</td>
<td>95-100</td>
</tr>
<tr>
<td>9</td>
<td>Very good – above average</td>
<td>85-94</td>
</tr>
<tr>
<td>8</td>
<td>Good - average</td>
<td>75-84</td>
</tr>
<tr>
<td>7</td>
<td>Almost good - solid</td>
<td>65-74</td>
</tr>
<tr>
<td>6</td>
<td>Sufficient – hardly satisfactory</td>
<td>55-64</td>
</tr>
<tr>
<td>5</td>
<td>Insufficient - unsatisfactory</td>
<td>up to 54</td>
</tr>
</tbody>
</table>
B. REGISTRATION PROCEDURE

Entrance requirements:

Admission of students to the undergraduate studies at the Faculty of Medicine in Novi Sad, is open to those who have graduated from 4-year secondary school, high school, a four-year medical school or pharmaceutical school.

Admission of students to the undergraduate studies is also open to foreign students under the same conditions as for citizens of Republic of Serbia, if they are fluent in Serbian or English (i.e. the language of study), which is tested by a relevant board.

Applicants for admission into the first year undergraduate studies in Serbian or English at the Faculty of Medicine Novi Sad must pass the following entrance exams:

MEDICINE and DENTISTRY: (1) BIOLOGY and (2) CHEMISTRY

PHARMACY: (1) MATHEMATICS and (2) CHEMISTRY

NURSING: (1) BIOLOGY and (2) CHEMISTRY or NURSING

SPECIAL REHABILITATION AND EDUCATION: (1) BIOLOGY and (2) PSYCHOLOGY

PHYSIOTHERAPY: (1) BIOLOGY and (2) CHEMISTRY or NURSING

The order of candidates for admission into the studies is established according to the results of the entrance examination and general results achieved at high school. The right for admission into the first year of studies is reserved for candidates according to their order in the frame of number determined for enrolment.

Competition for enrolment into the first year of undergraduate studies is published in press by the University, while the decision on number of students is made by the Government of the Republic of Serbia.
Enrolment contest into the first year of studies is carried out by the admission board appointed by the Educational Board of the Faculty of Medicine, whereas details about the procedure itself and entrance examination are arranged by a special record made by the Faculty Council.

### Transfer students:

During studies students are eligible to transfer to the Faculty of Medicine in Novi Sad, if they fulfill criteria necessary for enrolment into the next year of studies at the faculty they attend, with exception of the first and last year of medical studies.

Students studying abroad may transfer to the Faculty of Medicine in Novi Sad to the corresponding year of studies after they have completed previous years of studies at their faculty, on the basis of equivalence between curricula and exams they have passed abroad (accomplished number of ECTS credits).

### Language requirements:

Admission of students to the undergraduate studies open to students if they are fluent in Serbian or English (i.e. the language of study), which is tested by a relevant boards appointed by the Deans of the Faculty of Medicine and Faculty of Philosophy (Centre for Serbian as a Foreign Language).

### Application procedure:

Preliminary application – registration can be done starting from February by submitting the online APPLICATION FORM to the Department of Students Services.

Final submission of application will be possible in the first week of September, before the entrance examination and the interview. All application materials is obtained from the Bookstore of the Faculty of Medicine, Novi Sad.

Application and entrance exam fee is ca 80 EUR. Candidates pay the entrance exam fee and other competition-related expenses directly to the faculty bank account 840-1633666-55.

When applying, candidates are obliged to present for inspection their ORIGINAL DOCUMENTS, and submit the relevant copies together with the application form.
All documents must be issued by the official service and translated in Serbian by the official court interpreter and validated and notarized by the Ministry of Education (Novi Sad, Bulevar Mihajla Pupina 16)

**The following documents are necessary:**
- Secondary school certificates for each of the four years
- Certificate of the school-leaving (final) examination
- Proof of payment of the entrance exam fee
- Birth certificate and notarized translation into Serbian.

<table>
<thead>
<tr>
<th>Enrollment:</th>
<th>Accepted / enrolled candidates have to submit</th>
</tr>
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<tbody>
<tr>
<td><strong>ORIGINAL DOCUMENTS</strong></td>
<td></td>
</tr>
<tr>
<td>• Birth certificate</td>
<td></td>
</tr>
<tr>
<td>• Two application forms (so-called ŠV forms) – available from the Faculty’s Book-store</td>
<td></td>
</tr>
<tr>
<td>• University of Novi Sad index (student booklet) – available from the Faculty’s Book-store</td>
<td></td>
</tr>
<tr>
<td>• Two photos (size 4x6 cm)</td>
<td></td>
</tr>
<tr>
<td>• Proof of payment of tuition fee and enrollment tax</td>
<td></td>
</tr>
<tr>
<td>• Health insurance for the current academic year (international health Insurance, issued in students own country, or in Serbia by the Republic Office of Health Insurance, Novi Sad, Žitni trg 1)</td>
<td></td>
</tr>
</tbody>
</table>
**C. ACADEMIC CALENDAR**

**Beginning of the Academic Year**

The normal academic year is divided into two semesters of 15 weeks each. The winter semester runs from October 1 (The **Welcome Day** for 1st year students) to January 21, and the summer semester from February 15 to approximately June 7.

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**POSTGRADUATE STUDY:**

Postgraduate education programs at institution - **MASTER DEGREE**

<table>
<thead>
<tr>
<th>No.</th>
<th>Course</th>
<th>Duration (Semesters)</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>NURSING</td>
<td>1 year (2 semesters)</td>
<td>60</td>
</tr>
</tbody>
</table>

**Entrance requirements:**
Master program in nursing is opened for candidates graduated from the Academic study of Nursing or Academic study of Special Rehabilitation and Education. For admission to the program a minimum of 240 ECTS must have been completed. The order of candidates for admission into the Master program is established according to the results achieved at undergraduate study, i.e. average grade and duration of study.

Postgraduate education programs at institution - **PhD DEGREE**

<table>
<thead>
<tr>
<th>No.</th>
<th>Course</th>
<th>Duration (Semesters)</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>MOLECULAR MEDICINE</td>
<td>4 years (8 semesters)</td>
<td>240</td>
</tr>
<tr>
<td>2.</td>
<td>CLINICAL MEDICINE</td>
<td>3 years (6 semesters)</td>
<td>180</td>
</tr>
<tr>
<td>3.</td>
<td>PUBLIC HEALTH</td>
<td>3 years (6 semesters)</td>
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</table>

**Entrance requirements:**
For admission to the PhD program a minimum of 300 ECTS (graduate and undergraduate) must have been completed. Minimum average grade from the previous study is 8.00
**Postgraduate education programs at institution – SPECIALIST STUDY**

| Entrance requirements: | Specialist and subspecialist studies are open for candidates who completed their studies of medicine or acquired appropriate specialization and obtained the Decision of the Ministry of Health. |

Specialized medical studies are offered in 40 (forty) different specializations and 49 (forty nine) different sub specializations of medical doctors, that is 12 (twelve) different specializations for medical associates in organization of postgraduate studies for acquiring the title a Physician Specialist.

Graduate studies are offered for the professional title of Specialist or Sub-specialist with special programs which define the extent, content, and plan of theoretical and practical teaching and the plan of practical work, as well as the knowledge and skills acquired.
MEDICINE

6 YEARS – 360 ECTS (Integrated 1\textsuperscript{st} and 2\textsuperscript{nd} level study)

Professional title acquired:

MEDICAL DOCTOR, MD

Access to further study:

PhD study; Academic Specialization Study

Curriculum Structure

The Integrated Academic Studies in Medicine leading to the medical doctor degree last 6 years, that is 12 semesters (5530 classes), out of which 4935 are active training programs:
1) lectures (2295 classes), 2) practical training (2310 classes), 3) other forms of active training (seminars, round table sessions, summer schools, research and so on (330). Apart from this, the curriculum includes clinical practice – 445 classes, and research activities leading to the final exam (150 classes).

The total student workload throughout the Integrated Academic Studies in Medicine (active training, continuous training programs, exams and colloquia preparation, and final written exam preparation) equals 360 ECTS credit points. One ECTS credit stands for approximately 27 working hours.

**The most important teaching methods include:**

1. Interactive communication in the teaching process;
2. Teaching in small groups;
3. Individual laboratory and clinical practice;
4. Skills demonstration;
5. Lectures illustrated by slides and video clips.

All forms of active teaching are based on interactive teaching characterized by discussions on the topic, explanation of personal attitudes supported by theoretical or experience-based arguments, defining dilemmas regarding the topic and their solutions. Interactive teaching, as a current teaching method, provides better understanding of the teaching subjects, acquiring the inventive knowledge, development of personal opinions and adoption of the existing scientific doctrines.

After completing the whole Curriculum of the Integrated Academic Studies in Medicine at the Faculty of Medicine of
the University of Novi Sad, students gain knowledge and skills necessary for independent individual work.

**Purpose of the Curriculum**

Reforms taking place in all areas of social life necessitate new approaches to higher education and health care systems. In these fields *priority is given to* all the actions contributing to the adjustment of our systems with the standards and principles of the European health care and higher education (Bologna and Munich Declarations).

This Curriculum is based on: University Law, Higher Education Law of the Republic of Serbia, recommendations and standards of the World **Federation of Medical** Education, principles of the European higher education incorporated in the Bologna Declaration, and on the need **for highly educated** health care professionals capable to follow the rapid development of medical science and practice.

This study program promotes the following European principles:

- **Rationalization and modularization** of study programs;
- Implementation of the ECTS credit system;
- Introduction of new teaching modalities and continuing learning process for students;
- Introduction of instruments for teaching process quality control;
- Involving students into the process of education as partners.

The Curriculum has clearly defined goals:
Efficient learning;

Higher levels of professional and scientific competence of graduate medical students should be of social and national interest;

Curricula adjustments according to the standards of European Medical schools (from the aspect of quality, workload and teaching methods), which would certainly contribute to greater mobility of students, faculty and research ideas;

Introduction of standards into the assessment of knowledge, skills and professional competence, which would be comparable with standards in Europe. In this way all medical students would be equal with their colleagues in the whole Europe.

Objectives of the Curriculum

The ultimate goal of this study program is to educate students to apply scientific and professional knowledge in prevention, diagnosis and treatment of patients, including promotion of healthy lifestyle, legal and ethical conduct, further professional education, all in accordance with the principles of good clinical practice.

Graduate students of the Integrated Academic Studies in Medicine acquire and develop a variety of skills and clinical competence. In regard to numerous aspects of the study program, medical doctors master principles of professional conduct, develop their research activities and abilities to systematically present a topics in writing, orally or in electronic format, as well as efficiently use resources and take part in team work.
The goals of the Medical Curriculum are to provide knowledge, understanding and attitudes which are necessary for a six-month internship followed by independent individual clinical work.

The acquired knowledge will allow them to get included in the process of permanent medical education and further professional and scientific improvement.

**Competencies of Graduate Students**

After completing the study program of Integrated Academic Studies in Medicine, students develop competencies and use their theoretical knowledge, clinical skills and professional communication standards during their professional and research activities.
| No. | Course Description | Wint. Summ. Sem. | L | P | L | P | Lect | Pract | Total | IA | Attend. | Exam. | ECTS Condition to Assessment |
|-----|-------------------|------------------|---|---|---|---|------|-------|-------|------|-----|--------|-----|-----------------------------|
| 1   | ANATOMY           | 5 5 4            | 3 | 2 | 3 | 2 | 90  | 60    | 150  | 120 | 60 | 150    | 23,5| 5-10                        |
| 2   | HISTOLOGY AND EM-| 3 2 0            | 2 | 0 | 0 | 0 | 45  | 30    | 75   | 60 | 2,5 | 60     | 12,0| 5-10                        |
| 3   | HUMAN GENETICS   | 3 2 0            | 2 0 | 0 | 45 | 30 | 75  | 60   | 120 | 60 | 2,5 | 60     | 6,0 | 5-10                        |
| 4   | INTRODUCTION TO  | 0 0 1            | 0 0 | 0 | 0 | 45 | 30  | 75   | 60 | 2,5 | 60     | 2,5 | 5-10                        |
| 5   | CLINICAL PRACTICE| 0 2 0            | 0 2 0 | 0 | 0 | 45 | 30  | 75   | 60 | 2,5 | 60     | 2,5 | 5-10                        |
| 6   | FIRST AID        | 0 0 1            | 0 0 | 0 | 0 | 45 | 30  | 75   | 60 | 2,5 | 60     | 2,5 | 5-10                        |
| 7   | MEDICAL ETHICS   | 0 2 0            | 0 2 0 | 0 | 0 | 45 | 30  | 75   | 60 | 2,5 | 60     | 2,5 | 5-10                        |
| 8   | FOREIGN LANGUAGE | 0 0 1            | 0 0 | 0 | 0 | 45 | 30  | 75   | 60 | 2,5 | 60     | 2,5 | 5-10                        |

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TOTAL 420 420 840 60.0
## III year of study

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|     | ELECTIVES                                 |            |            |       |       |       |       |       |       |       |   |
|     | 1.Clinical Genetics                       |            |            |       |       |       |       |       |       |       |   |
|     | 2.Transfusion Medicine                    |            |            |       |       |       |       |       |       |       |   |

| TOTAL | ACTIVE TEACHING                           | 390 | 420 | 810 | 60,0 |
| TOTAL III YEAR | PROF. PRACT | 30 |

No Code L P L P Lect Pract Total IA Attend. Exam. t
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**ELECTIVES:**
1. Clinical Immunology
2. Nuclear Medicine
3. Clinical Pharmacology

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TOTAL ACTIVE TEACHING: 435 hours in Winter Semester, 465 hours in Summer Semester, 900 hours in Total IV Year.
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ELECTIVES:
1. Imaging Methods in Medicine
2. Pharmaco-economics
3. Tissue and Organ Transplantation
4. Experimental Surgery
5. Pain Medicine
6. Promotion of Woman's Health

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L – Lectures
P – Practical classes
IA – Individual activities

*Number of ECTS assigned to Final – Graduation Paper according to Statute of UNS
DENTISTRY

5 YEARS – 300 ECTS (Integrated 1st and 2nd level study)

Professional title acquired:

DOCTOR OF DENTISTRY, DDS

Access to further study:

PhD study; Academic Specialization Study

Structure of the study program

Integrated studies of dentistry, which gain the academic title of Doctor of Dentistry, last 5 years and 10 semesters and include 4290 hours of teaching that includes performance of theoretical and practical training and other forms of active
teaching and 150 hours of research with the aim of making the final defense of the diploma (a total of 4440 hours).

The total student workload throughout the Integrated Academic Studies in Dentistry (active training, continuous training programs, exams and colloquia preparation, and final written exam preparation) equals 300 ECTS credit points. One ECTS credit stands for approximately 27 working hours.

The most important teaching methods include:

1. Interactive communication in the teaching process;
2. Teaching in small groups;
3. Individual laboratory and clinical practice;
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- Efficient learning;
- Higher levels of professional and scientific competence of graduate students should be of social and national interest;
- Curricula adjustments according to the standards of European institution of higher education (from the aspect of quality, workload and teaching methods), which would certainly contribute to greater mobility of students, faculty and research ideas;
- Introduction of standards into the assessment of knowledge, skills and professional competence, which would be comparable with standards in Europe. In this way all den-
tistry students would be equal with their colleagues in the whole Europe.

**THE OBJECTIVES OF THE STUDY PROGRAM**

The aim of the study program is that students acquire knowledge:

- in the biomedical sciences which form the basis for the understanding of the growth, development and human health;
- about the normal structure and function of human organism, with special emphasis on the orofacial system;
- on oral biology, with detailed knowledge of form and function of teeth and surrounding structures, both in the state of health and in sickness;
- about the diseases of orofacial system from the standpoint of prevention, diagnosis and therapy;
- violation of the materials and/or function of the human organism and the occurrence of the etiology of disorders, especially of the orofacial system and the impact of these diseases on the whole organism;
- The sources of infection and how infection is controlled;
- The respective clinical disciplines that provide the acquisition of manual skills required for work in the dental profession;
- Communication between dentist and patient, his family, colleagues and the general public; Interpersonal skills necessary to work in a team;
On the principles of importance for health promotion, health education and disease prevention concerning the orofacial region;

On the mental and physical diseases of man and of human reproduction;

Understanding the relationship between health status and diseases of the orofacial region and the social environment;

The specific dental disciplines, including science of dental biomaterials, fear and pain control, dental public health, oral and maxillofacial surgery, oral medicine, oral microbiology, oral pathology, oral radiology, orthodontics, children's dentistry, pharmacology and therapeutic tools, preventive dentistry, Periodontics, restorative dentistry and dental prosthetics;

From deontology, ethics and legal responsibilities of doctors, especially in the field of dentistry;

On the necessary clinical experience, under expert supervision in health care facilities;

On the scientific methods and the application of biomedical measurement, assessment of scientific facts and data analysis.

**The competencies of graduates**

Dentists acquire the competence to apply the acquired theoretical knowledge, clinical skills as well as standards of professional and scientific communication in their work.
After completing the study program of integrated academic studies in dentistry, graduate dentists should have competence to consider complex issues in diagnosis and treatment plan, make clear assessments and conclusions, and to convey their decisions to patients and colleagues.
## Integrated Academic Studies in Dentistry

### 1-year of study

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- Winter sem.: 390
- Summer sem.: 405
- Total: 795

ECTS: 30

Assessment:
- To total IA
- Total: 60,0
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Total: Active teaching 375 465 840 – 60,0
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**TOTAL**

| Active teaching | 240 | 660 | 900 |
| Research-scientific work | 150 | 60,0 |
| TOTAL V YEAR | 1050 |
L – Lectures
P – Practical classes
IA – Individual activities

*Number of ECTS assigned to Final – Graduation Paper according to Statute of UNS
PHARMACY

5 YEARS – 300 ECTS (Integrated 1st and 2nd level study)

Professional title acquired:

MASTER OF PHARMACY

Access to further study:

PhD study; Academic Specialization Study

The Structure of the Study Program

The study program of INTEGRATED ACADEMIC STUDIES OF PHARMACY last 5 years, that is 10 semesters, with a total of 4440 hours of teaching. Teaching is conducted in the form of lectures (2415 hours), practice classes (1770 hours).
hours), seminars, field courses (105 hours), thematic workshops, practice and undergraduate research tasks for students with the aim of making the diploma paper (150 hours).

Total student workload through all forms of education provided is expressed in number of 300 ECTS points. Implementation was carried out according to the non-modular ECTS system (courses can have different number of points so that the total number of points in one academic year equals 60). Number of points for each course is determined in relation to the tasks that the student needs to carry put to achieve the aim of the course. Student receives points provided for the course after passing the final exam. Graduation Paper is in submitted in the 10th semester, and carries 20 ECTS. Students must attend and pass the 45 compulsory and 7 elective courses, and defend their Graduation Paper.

The most important teaching methods include:

1. Interactive theoretical teaching
2. Practical work in laboratories
3. Seminars
4. Field instruction

Interactive theoretical instruction is characterized by a discussion of teachers with students on the teaching topic and provides students with a better understanding of the content in comparison to the classical theoretical teaching ex cathedra. This form of teaching is characterized by the use of multimedia presentations as the most modern teaching method of presentation.
Practical work of students in the laboratories is performed as a demonstration of certain procedures or skills with the active participation of students and as independent and experimental work of the students with the defined goal (the result of analysis, synthesis, etc.).

Seminars allow students to be independent and trained in the use of literature, electronic databases and presentation of selected topics that are covered with minimal support from teachers and assistants.

Field instruction enables students to carry out activities that cannot be adequately realized in the laboratory (e.g. collecting and processing of plant material) or to become familiar with certain aspects of the profession in real life conditions (e.g. visits to production plants).
**The Purpose of the Curriculum**

The purpose of this study program is education of graduate pharmacists, and Masters of Pharmacy, who are trained for independent work at positions which require higher education in the pharmaceutical industry, the healthcare system, regulatory bodies and educational institutions. Masters of Pharmacy will be able to work on the development of new drugs (including preclinical and clinical testing of drugs), the production of medicines, quality control of drugs, the procurement, storage and dispensing, the pharmaceutical care of patients and research in the field of pharmacy.

To this main purpose the following are added:

- Effective study
- A higher level of expertise and scientific competence of graduates of pharmacy as a general social and national interest
- Harmonization of the curriculum with programs of European higher education institutions involved in education of pharmacists (from the aspect of quality, scope and methodological approach), which would allow greater mobility of students and teachers
- The introduction of standards in the process of evaluating the knowledge, skills and professional competence comparable with EU standards, so that the pharmacy students be equal with their colleagues in the European region.
Objectives of the Curriculum

- The basic aim is to enable students to independently perform activities related to the design, production, quality assessment and use of drugs. Graduates will be thoroughly acquainted with the composition of drugs, their chemical and physical properties, their production and use, and methods which to examine the purity and strength of a medication. In addition, the study program will enable graduate students to understand the effect of drugs on the human body and how they can used in the most rational manner for diagnosis, prevention and treatment of diseases.

- Specific aims are:
  - to provide a deeply rooted knowledge of the basic principles of chemistry, biology and physics that can be used in pharmacy
  - to train graduate students to apply these principles to solve specific problems in pharmacy
  - to ensure the acquisition of specific skills for experimental design and analysis of experimental data
  - to promote understanding of the pharmaceutical profession as a discipline oriented towards the patient, and master the role of a pharmacist within the health care system and pharmaceutical industry
  - to encourage the development of communication skills with patients and ability to use modern information technology for the benefit of patients
  - to develop the ability for individual and group work
to encourage and stimulate technical and scientific curiosity, and enthusiasm for acquiring new knowledge, which will be a solid basis for permanent learning and professional development

**The Competencies of Graduates**

Upon completion of the study program of Integrated Academic Studies of Pharmacy graduate student acquires the academic title of Master of Pharmacy and is qualified to perform pharmaceutical services after doing internship service and passing the professional examination in accordance with the provisions of the Rules of Apprenticeship and Professional Examination of Health Workers and Health Assistants (Official Gazette of the Republic of Serbia 50/06).
## I-YEAR OF STUDY

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<tr>
<th>COURSE DESCRIPTION</th>
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<td>10. FI-SBILj</td>
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<td>435 375</td>
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English language course is optional throughout entire study period.

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| Total            | Active teaching   | 480 | 390 | 870 | 60 |
## III - YEAR OF STUDY

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<td>13. and 14.</td>
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<td>-  7</td>
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<td>3. New Chapters in Immunology</td>
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<td>4. Pharmacy and Society</td>
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|       |       | Total Active teaching                                  | 540 330   | 870 60     |      |              |            |

5 – 10
## IV Year of Study

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<td>FIV-MEBI</td>
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<td>FIV-SFAI</td>
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<td>90 L 15 P</td>
<td>105 -</td>
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<td>3. Analysis of Natural Products</td>
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<td>4. Quality Systems in Food Safety and Dietetic Products Management</td>
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<td>6. Drug Stability</td>
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<td>8. Introduction in Clinical Medicine</td>
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<p>| Total | Active teaching | 525 | 360 | 885 | 60 |</p>
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<td>ESPB</td>
<td>37, 38 and 40.</td>
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ELECTIVES I and II
1. Pharmacoeconomics
2. Pharmacodynamics
3. Preparation Bioequivalence
4. Pharmacotherapy in Internal Medicine
5. Pharmacotherapy in Infectious Diseases
6. Specificity of Pharmacotherapy in Surgery
7. Pharmacotherapy in Neurology and Psychiatry
8. Therapy of Malignant Chemopathies and Neoplasms
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<thead>
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<th>Br.</th>
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<th>Hours/week</th>
<th>Hours/year</th>
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<td>51.</td>
<td>FV-IPIII</td>
<td>ELECTIVE III</td>
<td>0 0 4 1</td>
<td>60 15 75</td>
<td>5</td>
<td>Passed correspond. exam</td>
<td>5 – 10</td>
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<td>52.</td>
<td>FV-IPIV</td>
<td>ELECTIVE IV</td>
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<tr>
<td>53.</td>
<td>FV-ZR</td>
<td>GRADUATION PAPER* *</td>
<td></td>
<td></td>
<td>150</td>
<td>20</td>
<td>Passed all exams</td>
</tr>
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|     |     | Active teaching | 435 | 315 | 750 |
|     |     | Research scientific work | | 150 | 60 |
|     |     | TOTAL HOURS - V YEAR | | 900 |             |
FOR ALL THE ADDITIONAL INFORMATION PLEASE VISIT:

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