The MMA was established on March 02, 1844, by decree of Prince Aleksandar Karadžorđević and we celebrate that day as the Day of the MMA. Ever since, the MMA medical experts actively participate in the treatment of injured and sick in wartime, mass accidents and disasters, as well as in peacetime. Thus, during the Balkan wars and World War II (1912-1918), the Serbian war surgery ranked in the top of the global war medicine. Six doctors from the General Military Hospital in Belgrade, built in Vraćar in 1909, with 400 beds, as the most modern medical facility in the Balkans, participated in the formation of the School of Medicine in Belgrade. In 1930, the Military Hospital was renamed the Main Military Hospital, and during World War II became the central military hospital of the Supreme Staff of the People's Liberation Army. The Military Medical Academy got its present name in 1949. In 1981, the MMA moved to a new building, where it still is, and which is the pride of the Yugoslav architecture. The MMA has always been and remains a military hospital whose doors are always open to the general population, and that is why it still enjoys a great reputation in Serbia and beyond. With their work and authority, many generations of outstanding experts, big names in the local medicine raised the reputation of this institution to the international level and the present generations, respecting their predecessors, continue to do the same with ultimate diligence and responsibility.
The Medical Faculty of the Military Medical Academy (MMA Medical Faculty) is a high education institution within the University of Defence, established on February the 24th 2011 in Belgrade by the Government of Serbia’s decree. Together with the Military Academy it constitutes the most recent state University of Defence.

The MMA Medical Faculty has appropriate up-to-date resources: technical, laboratory, and other specific equipment that ensures high quality training. Numerous MMA experts, many of them leaders in the area of their medical expertise, teach at the Faculty; together with the non-teaching staff they form the core of the Faculty. Relying on the tradition of the MMA which offers different types of education and instruction, besides treating patients, the MMA Medical Faculty utilizes all the facilities of the MMA to organize different types of training according to the curriculum.

The MMA, an institution with 160 years of tradition has long been amply investing into the education of MDs coming from the civilian sector to the defence system. The characteristics of the military organization demanded quality medical corps personnel. The Army of Serbia needs MDs who are also good officers: those who have completed required military training. Therefore the Ministry of Defence, in cooperation with the MMA and other institutions, initiated a project of educating own MDs to meet the demands of the defence system, by forming the MMA Medical Faculty.

The MMA Medical Faculty opened on May the 22nd 2009 in Belgrade, by the Republic of Serbia’s Ministry of Education decree (No 612-00-819/2009-14). In accordance with Law on High Education, having met the accreditation requirements, it gained a status completely equal to that of all other high education institutions in Serbia. As a member of the Republic of Serbia’s community of medical faculties, it thoroughly observes all the principles that had been agreed on: the selection procedure and other activities carried out in medical faculties in Serbia.
numbers of people affected by natural disasters or mass casualty accidents, such as those resulting from chemical, biological, and nuclear agents, a plight that the contemporary world faces with an increasing frequency.

Up-to-date instruction in small groups, a variety of electives, and involving young people in research while they are still undergraduates, enables cadets to start working in garrison infirmaries within the defence system immediately upon the completion of six-year studies and receiving an MD degree. In addition to a secure job, the best of them will soon after their internship be able to apply for specializations and continue their education in international medical centres.

Throughout their studies, each cadet has a mentor to encourage and advise them, making cadets feel at home in an environment that is competitive but supportive of personal and professional growth.

Our cadets have a chance to study at one of the best-equipped medical institutions in the Balkans. During the six years of their studies they also have access to recent medical literature, as well as to up-to-date computer technology.
**MISSION AND GLOBAL AIM**

Mission of the MMA Medical Faculty is to enable MDs, whose education is made possible by the Ministry of Defence to meet its demands, to perform according to world and European standards, and to be equal with their colleagues in Serbia and worldwide.

The global aim is positioning the MMA Medical Faculty as a leader in the region regarding the quality of the integrated academic medical studies and doctoral medical studies.

**MMA MEDICAL FACULTY DEPARTMENTS**

A department is a unit of the Faculty, devoted to teaching and research, consisting of all teachers and assistants in related scientific areas (academic courses taught at the Faculty). Some of the many roles of departments include giving lectures, conducting practicals, conducting tests and exams, organizing different forms of instruction, all aimed at cadets’ acquisition of knowledge and skills.

There are ten departments within the MMA Medical Faculty. They organize teaching an research at all levels of studies. Some of them are involved in medical specialization studies where there is no separate department for specialist studies alone. Cadets, teachers and assistants can use laboratories and practice classrooms with up-to-date equipment. The space and the equipment are continually assessed and adapted to the instructional needs and number of cadets.
LIST OF DEPARTMENTS:

1. Department of Morphological Sciences;
2. Department of Physics, Biological and Chemical Sciences, and General Education
3. Department of Physiological Sciences
4. Department of Pharmacological Sciences
5. Department of Neuropsychiatric Sciences
6. Department of Internal Medicine Sciences 1
7. Department of Internal Medicine Sciences 2
8. Department of Surgical Sciences 1
9. Department of Surgical Sciences 2
10. Department of Preventive Medicine Sciences

According to accreditation of the Faculty, teaching is conducted at the Faculty and the facilities of the MMA, including clinics, institutes, laboratories, surgeries, ORs. According to the curriculum, part of instruction is also performed at: the Military Academy, Olga Popovic-Dedijer Paediatrics Hospital, and Zvezdara Clinical Centre Gynaecology and Maternity Hospital.

The MMA Medical Faculty conducts the following study programmes:

- integrated academic studies (first and second degree);
- academic specialist studies;
- academic doctoral studies;
- specialist and subspecialist studies;
- lifelong professional development programmes.
The integrated academic study of medicine programme is a set of obligatory and elective areas of study (academic courses) with framework content, the mastering of which gives cadets the knowledge and skills necessary for acquiring an MD degree. The integrated academic medical study programme was developed based on analogous programmes of the best European universities with a long tradition in educating medical doctors. The main intention is to provide teaching that complies with strict standards so that cadets acquire excellent knowledge and up-to-date skills which place them on a par with established national or regional educational and research institutions. Upon completion of the studies cadets are rewarded the professional title of Doctor of Medicine and are promoted to the rank of Second Lieutenant.

The study programme consists of 35 obligatory courses, which make up the core of the programme, and 33 electives. Of all the electives available, cadets choose a half, based on their interests. The teaching is up-to-date, with emphasis on interactive work in small groups. 186 teachers and assistants are currently involved in giving lectures and conducting practicals. Approximately 90% of
the teaching staff are employed at the MMA. Some courses, mainly preclinical, are taught by teachers employed at other medical faculties with which the MMA has cooperation agreements, or by teachers employed at the Military Academy. In certain parts of courses cadets are actively involved in preparation and presentation of various topics. Practice rooms have up-to-date equipment. The scope of studies is expressed in ECTS credits. Each course has a predetermined number of contact classes, as well as ECTS credits. Graduation paper at the end of a study programme, a cadet earns 10 ECTS credits. The total of ECTS credits is 360. The content of courses within the study programme is based on the latest insights in relevant disciplines. Preclinical courses enable cadets to gain theoretical and practical knowledge and skills necessary for clinical courses.

Language of instruction: Serbian

- **Number of ECTS points:** 360
- **Duration of studies:** six years (12 terms)
- **Period:** October-July
- **Study programme accreditation year:** 2009
- **Entry requirements:** grammar school or medical vocational school lasting 4 years. Achievements during previous schooling, entrance exam results.
- **Price:** € 3,500 annually
- **Total fee including tuition, accommodation, meals, allowance, textbooks and other literature, and other costs:** € 10,500

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Specialist academic medical studies offer a possibility of building up on the knowledge and skills previously acquired by MDs in integrated academic medical studies. The academic specialist studies programme, upon the completion of which MDs receive the title of specialist in an area, enable students to acquire the knowledge and competence for research and the application of research results in practice.

Building on the experience and tradition cherished by the MMA, and the possibility of utilizing all the available resources of this institution, the MMA Medical Faculty of the University of Defence has had programmes accredited for a total of 50 students in the following areas:

- Traumatology (25 students)
- Medical toxicology (10 students)
- Pharmacokinetics and bioequivalence (5 students)
- Rational pharmacotherapy (10 students)
Although trauma is seen as a sum of individual events, traumatic injuries have pandemic proportions and pose a challenge to all medical professionals. Care of the traumatized requires specific knowledge and skills, that can only be mastered completely during a relevant specialization in the medical profession. However, general practitioners also take part in primary care of the traumatized, most often at the site, as well as during transportation. Academic specialist studies in Traumatology are geared towards them, to enable them to become actively involved not only in immediate care of the injured, but also in the planning of care in mass casualty accidents, and perform competent work in such situations.

The curriculum involves 9 obligatory courses, covering the latest epidemiological data, according to which haemorrhage and injury to the brain are the most common causes of death in the injured. Therefore obligatory courses include knowledge and skills in securing the airway, primary care of head injury and injury causing profuse bleeding, as well as the replenishment of the circulatory volume. Students choose 3 out of 6 electives. Depending on the choice, students can acquire additional knowledge in the area of thermal injury, sports injury to the locomotor system, transportation of the injured, infections in trauma etc.
In acute poisoning the main task of a physician is to recognize an acute poisoning using various agents, to provide immediate aid and to adequately prepare the acutely poisoned for transportation to an institution that provides diagnosis and treatment of these conditions. Besides, within the healthcare system, physicians play an important part in the prevention of poisoning. The specialists in this area are lacking in the current healthcare system in Serbia. Upon completion of this academic specialization physicians will gain academic knowledge and clinical skills necessary for health care of the acutely poisoned.

The Medical Toxicology curriculum has been designed to enable students to develop abilities for analysis and synthesis of previously acquired knowledge of medicine and new specific knowledge in medical toxicology. Through 6 obligatory courses and 9 electives, out of which 3 are chosen, students gain knowledge and skills that will enable them to: recognize toxic and non-toxic exposition; make a differential diagnosis in acute poisoning; perceive potential effect of chemical agents on the development and course of other diseases; choose and apply appropriate principles of pharmacology and toxicology in care of the acutely poisoned; order relevant laboratory tests and interpret their results when making a diagnosis, perform forensic investigation and scientific research in this area; use poisonous substances databases independently and take part in the work performed by the National Poison Control Centre.

MDs who acquire the title of a Academic Specialist in Medical Toxicology will bring their professional performance to a higher level, because among other skills, they will be able to timely recognize kinds of poisoning whose initial symptoms and signs often resemble those of other diseases.
Some MDs see their career developing in pharmaceutical companies, primarily in the area of clinical research into medical substances or an assessment of the previously carried research of this kind. This programme is intended for them. It is designed to provide relevant knowledge and skills, to develop critical, integrated understanding of dynamic phenomena regulating the effect of drugs on the body as well as of external factors at work in the process of the development of drugs that can influence the behaviour and effect of drugs.

The curriculum consists of 4 obligatory courses and 4 electives from which the students choose 2. This specialization enables MDs to: understand the processes that determine the effect of drugs after they have been taken orally, parenterally or percutaneously; understand the effect of external factors, at work in the medicinal substances production process, that can change the drug’s effect on the body; apply the methodology of establishing qualitatively and quantitatively the presence of medicinal substances in biological material; analyse the pharmacokinetic data obtained and apply the main approaches to interpreting the calculated values of the most important pharmacokinetic parameters; understand the basic principles in investigating contrastive biological availability of medical substances defining their bioequivalence. The studies also over the basic principles of Good Laboratory Practice (GLP) in an analytical, clinical-pharmacological laboratory, and the local legislation and international recommendations regulating this area.

The most important resource that we can offer our prospective students are the MMA teachers and their knowledge, valuable experience, permanent professional development in the most prominent centres worldwide, and up-to-date insight into latest developments.

Daily medical practice cannot be performed without prescribing drugs. New drugs on the market and pharmaceutical companies’ representatives offering products to MDs in their workplace, advertising materials in which, among other information, the effects and advantages of drugs therapy are stated, can often make physicians wonder what is the best for their patient. Knowledge of rational pharmacotherapy is needed precisely to solve such dilemmas. It means administrating the drug for the right indication, in an optimum dosage, in the proper form, over an appropriate period of time, at an acceptable price, matching all of this to the individual needs of the patient.

This study programme provides exactly such kind of knowledge, and it enables an MD to estimate, independently and critically, based on relevant literature, the results of clinical trials of drugs and to make choices of drugs according to the individual characteristics of the patient, such as age, sex, the condition of the liver and the kidneys, the presence of other disease, current and previous therapy, propensity to heightened reaction, dietary habits, smoking etc. This programme also enables MDs to design appropriate protocols, including the monitoring of response to therapy, timely corrections of dosage and intervals, especially in the cases of concurrent administration of two or more drugs, as well as taking measures to prevent or alleviate possible side effects and/or drug interaction.

This specialization provides students with knowledge of the basic postulates of rational pharmacotherapy and thus enables students to think critically when considering which drugs to prescribe to patients with most frequent diseases in clinical practice.
Academic doctoral studies are third level studies to obtain the academic title of Doctor of Medical Sciences (DrSciMed / PhD).

The MMA Medical Faculty of the University of Defence offers academic doctoral studies in biomedicine accredited for a total of 20 students in the following areas:
- Molecular Medicine
- Neuroscience
- Pharmacology and Toxicology

The programme of doctoral studies in biomedicine offers prospective students common academic courses in the first year of the studies, that give them the knowledge and skills to embark on one of the three modules in their further studies with ethical and methodological competence.

Academic doctoral studies last 3 years i.e. 6 terms. Each term lasts 15 weeks. Courses consist of lectures, practicals, pre-exam tests, seminars, discussion groups, buzz groups, research. As a rule lectures take up only 25% of contact classes total. Thus, students gain not only theoretical knowledge but also lab skills that enable them to conduct research. The load of the studies is expressed in ECTS credits. One of the enrollment requirements is a degree in bio-medicine, and 300 ECTS credits gained in undergraduate academic studies and graduate academic studies, or 360 ECTS credits gained in integrated undergraduate and graduate medical studies. Students can acquire 60 ECTS credits in an academic year (2 terms), totaling 180 ECTS credits. The curriculum defines the number of contact classes and ECTS credits.

In the first year courses in research methodology as well as in biomedical statistics, informatics, ethics, experimental models in medicine and homeostatic regulatory mechanisms serve to prepare students for independent research.

Having attended the first year courses and passed the exams, students start the second year of the studies, choosing one of three elective areas within which they will complete a doctoral dissertation. Students can learn about the latest developments in Molecular Medicine, or Pharmacology and Toxicology, or Neuroscience. In the third term students take general courses in the area they had chosen. In the fourth term they take specialist courses related to the chosen area of research. In agreement with a mentor whom they had chosen, students propose a research topic and present the outline for their doctoral dissertation.

In the third year students conduct the research immediately related to the doctoral dissertation. The results of the research are presented to the academic community. They have to be published in peer-reviewed international journals on the Ministry of Science list (at least 3 papers in full, at least one paper published in a SCI list journal). Students can then defend the doctoral dissertation and acquire the academic title of Doctor of Medical Sciences.
Research at the MMA Medical Faculty is conducted to advance and promote science, creativity, high education, quality of instruction, to train a new generation of scientists, introduce cadets and students to scientific research, and to create the material conditions for the functioning and development of the Faculty.

According to the Law on Scientific Research, basic, applied and developmental research is carried out, and those who are educated at the MMA Medical Faculty are enabled to perform research.

In organizing and conducting research the MMA Medical Faculty cooperates with the University as well as with educational, research, medical and business organizations in Serbia and abroad.

The MMA supports continuous profession-related activities and research on the part of the staff, cadets and students that serves public interest; public presentation of research results at scientific, professional and other events in Serbia and abroad; and publication of research results.

In performing research teachers, assistants, cadets and students enjoy protection of intellectual property, and are obliged to respect intellectual property of others, in accordance with law and the highest academic standards.

The MMA provides the premises, equipment and other material conditions for teaching and research carried out by teachers and assistants. It grants paid leaves for the purposes of participating in seminars and symposia, in Serbia and abroad. It funds the stay of foreign scientists by invitation. It develops information systems, purchases textbooks, journals and other scientific and professional literature necessary for research. It also makes it possible for experts to evaluate scientific projects and research results.
RESEARCH PROJECTS

Research in the area of biomedicine takes place daily at the Faculty and the MMA (institutes, clinics, centers, laboratories and other organizational units). The results obtained within research projects are intended to advance prevention and treatment of injury and illness, especially in the areas of particular significance to military medicine.

**Strategic aims of research are:**

- improvement of the current practice and development of new trends in experimental and clinical research through the adaptation of new laboratories and introduction of new research methodology;

- enhancement of the quantity and quality of research by involving more teachers, assistants and doctoral students in research projects;

- inclusion of the MMA Medical Faculty in the scientific and educational system of the Republic of Serbia.

**The MMA Medical Faculty has set the following operational goals in research for the next five years:**

- development of infrastructure for scientific research (purchasing new equipment, adapting new research premises);
- financial support to the projects by the Ministry of Defence, the Army of Serbia, the Ministry of Science and Education, and by international institutions that fund scientific projects;

- educating researchers in biomedical research and new technologies;

- closer cooperation with research institutions and faculties in Serbia and abroad;

- overall enhancement of research capacities for the completion of doctoral theses.

**Main areas of current research, planned to continue for another three years, are:**

- studying gene polymorphism, genetic mutation and epigenetic phenomena in haematological diseases, solid tumours, infective, metabolic and autoimmune diseases;

- establishing and developing the technology for isolation, multiplication and differentiation of human haemoatopoietic and mesenchymal stem cells;

- establishing and developing the technology for keratocyte and chondroblast cultures for therapeutical purposes in regenerative medicine;

- optimization of the protocol for the preparation of tumour vaccines based on the application of dendrite cells;

- introduction of nanotechnology in biomedical research;

- studying immune mechanisms involved in the pathogenesis of chronic infections, autoimmune diseases, and malignancies (experimental models and clinical research);

- studying plasticity of the brain, neurodegenerative and neuroimmune diseases;

- studying clinical and biochemical aspects of metabolic, degenerative, and ischaemic and ischaemic-reperfusion diseases;
- studying the clinical, immune, and molecular-genetic aspects of sepsis;

- studying the clinical, pathophysiological and therapeutic aspects of multiple injury;

- studying the therapeutical and immune aspects of tissue and organ transplantation;

- epidemiological research on HIV in the Army of Serbia, Lyme disease, the hantavirus and other microorganisms;

- studying specific problems in military psychiatry;

- pharmacological and toxicological exploration of drugs, poisons, and their metabolites.

Project participants:
Teachers, assistants, persons with academic titles, students and cadets.

Foreign participants inclusion: yes, with the requirement of fluency in English.

Duration of projects:
1 to 3 years.

Evaluation of projects:
University of Defence committees, the Republic of Serbia’s Ministry of Science and Education committees.

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Education for acquiring the professional title of “specialist” for medical staff and associates with higher education, in accordance with the Law on Health Care, includes acquiring knowledge and skills and training in order to perform highly professional, specialized activities in medical field, as well as the implementation of scientific results in practice.

Applying for specialist studies in medical field, duration of specialist studies and the method of implementation of the study program of specialist studies in medical field are specified in the health care regulations.

During specialist studies, the Faculty organizes compulsory theoretical training which lasts for at least two terms and practical training for the period of nine months.

The ratio between theoretical and practical training is at least two thirds in favor of practical training. Two thirds of theoretical training (lectures) contain narrow professional subjects.

The study language is Serbian.

The price of specialist studies in medical field ranges from € 10.000 to € 15.000, depending on the duration of studies.

Note: Up to three persons can be admitted to one specialist study.

<table>
<thead>
<tr>
<th>No.</th>
<th>Name of specialist study</th>
<th>duration/year</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Aviation Medicine</td>
<td>3</td>
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<tr>
<td>2</td>
<td>Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>Dermatovenerology</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>Clinical Biochemistry</td>
<td>4</td>
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<tr>
<td>5</td>
<td>Clinical Pharmacology</td>
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</tr>
<tr>
<td>6</td>
<td>Occupational Medicine</td>
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<td>7</td>
<td>Nuclear Medicine</td>
<td>4</td>
</tr>
<tr>
<td>8</td>
<td>General Medicine</td>
<td>4</td>
</tr>
<tr>
<td>9</td>
<td>Otorhinolaryngology</td>
<td>4</td>
</tr>
<tr>
<td>10</td>
<td>Ophthalmology</td>
<td>4</td>
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<tr>
<td>11</td>
<td>Radiology</td>
<td>4</td>
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<tr>
<td>12</td>
<td>Sports Medicine</td>
<td>3</td>
</tr>
<tr>
<td>13</td>
<td>Forensic Medicine</td>
<td>4</td>
</tr>
<tr>
<td>14</td>
<td>Transfusion Medicine</td>
<td>3</td>
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<tr>
<td>15</td>
<td>Hygiene</td>
<td>3</td>
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<tr>
<td>No.</td>
<td>Name of specialist study</td>
<td>duration/year</td>
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<tr>
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<tr>
<td>16</td>
<td>Anesthesiology, Reanimatology and Intensive Therapy</td>
<td>4</td>
</tr>
<tr>
<td>17</td>
<td>Immunology</td>
<td>3</td>
</tr>
<tr>
<td>18</td>
<td>Internal Medicine</td>
<td>5</td>
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<td>19</td>
<td>Infectology</td>
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<tr>
<td>20</td>
<td>Laboratory Medicine</td>
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</tr>
<tr>
<td>21</td>
<td>Maxillofacial Surgery</td>
<td>5</td>
</tr>
<tr>
<td>22</td>
<td>Medical Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>23</td>
<td>Neurology</td>
<td>4</td>
</tr>
<tr>
<td>24</td>
<td>Pathology</td>
<td>4</td>
</tr>
<tr>
<td>25</td>
<td>Plastic, Reconstructive and Esthetic Surgery</td>
<td>5</td>
</tr>
<tr>
<td>26</td>
<td>Psychiatry</td>
<td>4</td>
</tr>
<tr>
<td>27</td>
<td>X-ray Oncology</td>
<td>4</td>
</tr>
<tr>
<td>28</td>
<td>Physical Medicine and Rehabilitation</td>
<td>3</td>
</tr>
<tr>
<td>29</td>
<td>Abdominal Surgery</td>
<td>5</td>
</tr>
<tr>
<td>30</td>
<td>Vascular Surgery</td>
<td>5</td>
</tr>
<tr>
<td>31</td>
<td>Chest Surgery</td>
<td>5</td>
</tr>
<tr>
<td>32</td>
<td>Cardiac Surgery</td>
<td>5</td>
</tr>
<tr>
<td>33</td>
<td>Neurosurgery</td>
<td>5</td>
</tr>
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<td>34</td>
<td>Neuropsychiatry</td>
<td>4</td>
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<tr>
<td>35</td>
<td>General Surgery</td>
<td>5</td>
</tr>
<tr>
<td>36</td>
<td>Orthopedic Surgery and Traumatology</td>
<td>5</td>
</tr>
<tr>
<td>37</td>
<td>Urology</td>
<td>5</td>
</tr>
<tr>
<td>38</td>
<td>Emergency Medicine</td>
<td>5</td>
</tr>
</tbody>
</table>

ACADEMIC SPECIALIST STUDIES

NARROW SPECIALIST STUDIES

The studies for acquiring the title of a narrow specialist provide knowledge and skills for narrow specialized activities in the field, where the level of skills and knowledge is higher related to the basic specialist studies, which is the basis and precondition for acquiring a certain program of narrow specialist studies.

Mastering knowledge and skills from the above paragraph means that the medical doctor admitted to the narrow specialist studies works full time during the specialist studies at the Faculty and the Faculty Training Centers.

The studies for acquiring the professional title of a specialist of narrow specialist studies last for 12 months.

The study language is Serbian.

The price of narrow specialist studies is € 5.700.

Note: Up to two persons can be admitted to one specialist study.
<table>
<thead>
<tr>
<th>No.</th>
<th>Name of narrow specialist study</th>
<th>Required specialization</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Allergology and Clinical Immunology</td>
<td>Internal Medicine&lt;br&gt;Pediatry&lt;br&gt;Dermatovenerology</td>
</tr>
<tr>
<td>2.</td>
<td>Cardiology</td>
<td>Internal Medicine&lt;br&gt;Pediatry</td>
</tr>
<tr>
<td>3.</td>
<td>Pulmonology</td>
<td>Internal Medicine&lt;br&gt;Pediatry</td>
</tr>
<tr>
<td>4.</td>
<td>Endocrinology</td>
<td>Internal Medicine&lt;br&gt;Pediatry&lt;br&gt;Gynecology and Obstetrics</td>
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<tr>
<td>5.</td>
<td>Nephrology</td>
<td>Internal Medicine&lt;br&gt;Pediatry</td>
</tr>
<tr>
<td>6.</td>
<td>Rheumatology</td>
<td>Internal Medicine&lt;br&gt;Pediatry</td>
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<tr>
<td>7.</td>
<td>Gastroenterology</td>
<td>Internal Medicine&lt;br&gt;Pediatry</td>
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<tr>
<td>8.</td>
<td>Hematology</td>
<td>Internal Medicine&lt;br&gt;Pediatry</td>
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<tr>
<td>9.</td>
<td>Audiology</td>
<td>Otorhinolaryngology</td>
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<tr>
<td>10.</td>
<td>Laboratory Technique for Protein Study</td>
<td>Clinical Biochemistry</td>
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<tr>
<td>11.</td>
<td>Molecular-Biological and Immunochemical Diagnostics</td>
<td>Pathology&lt;br&gt;Clinical Biochemistry,&lt;br&gt;Immunology</td>
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<tr>
<td>12.</td>
<td>Clinical Biochemical Rheumatology</td>
<td>Clinical Biochemistry</td>
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<tr>
<td>13.</td>
<td>Laboratory Diagnostics in Oncology</td>
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<td>14.</td>
<td>Laboratory Endocrinology</td>
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<td>15.</td>
<td>Professional Toxicology</td>
<td>Occupational Medicine&lt;br&gt;Hygiene&lt;br&gt;Internal Medicine</td>
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<td>16.</td>
<td>Clinical Toxicology</td>
<td>Internal Medicine&lt;br&gt;Pediatry&lt;br&gt;Clinical Pharmacology&lt;br&gt;Occupational Medicine&lt;br&gt;Anesthesiology&lt;br&gt;Emergency Medicine</td>
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<td>17.</td>
<td>Evaluation of working abilities</td>
<td>Occupational Medicine&lt;br&gt;General Medicine&lt;br&gt;Internal Medicine</td>
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<td>18.</td>
<td>Radiological Protection</td>
<td>Occupational Medicine&lt;br&gt;Hygiene&lt;br&gt;Epidemiology&lt;br&gt;Radiology&lt;br&gt;Nuclear Medicine</td>
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<td>19.</td>
<td>Phoniatrian</td>
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<td>20.</td>
<td>Dermatovenerological Mycology</td>
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</tr>
<tr>
<td>21.</td>
<td>Angiology</td>
<td>Internal Medicine&lt;br&gt;Neurology&lt;br&gt;Physical Medicine&lt;br&gt;Dermatovenerology&lt;br&gt;Radiology&lt;br&gt;Specialist studies in one of&lt;br&gt;urical branches</td>
</tr>
<tr>
<td>22.</td>
<td>Medical Parasitology and Mycology</td>
<td>Microbiology with Parasitology&lt;br&gt;Medical Microbiology</td>
</tr>
<tr>
<td>23.</td>
<td>Virology</td>
<td>Microbiology with Parasitology</td>
</tr>
<tr>
<td>24.</td>
<td>Bacteriology</td>
<td>Microbiology with Parasitology</td>
</tr>
<tr>
<td>No.</td>
<td>Name of narrow specialist study</td>
<td>Required specialization</td>
</tr>
<tr>
<td>-------</td>
<td>----------------------------------------------</td>
<td>----------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>25.</td>
<td>Diet Therapy</td>
<td>Hygiene, Internal Medicine, Pediatry, Sports Medicine, General Medicine</td>
</tr>
<tr>
<td>26.</td>
<td>Medical Ecology</td>
<td>Hygiene, Occupational Medicine, General Medicine, Clinical Pharmacology</td>
</tr>
<tr>
<td>27.</td>
<td>Clinical Genetics</td>
<td>One of the medical branches</td>
</tr>
<tr>
<td>28.</td>
<td>Epidemiology of Chronic Non-Infectious Diseases</td>
<td>Epidemiology, Hygiene, Social Medicine</td>
</tr>
<tr>
<td>29.</td>
<td>Epidemiology of Infectious Diseases</td>
<td>Epidemiology, Hygiene, Social Medicine</td>
</tr>
<tr>
<td>30.</td>
<td>Medical Education</td>
<td>General Medicine, All preventive medical branches</td>
</tr>
<tr>
<td>31.</td>
<td>Clinical Transfusiology</td>
<td>One of the medical branches</td>
</tr>
<tr>
<td>32.</td>
<td>Forensic Psychiatry</td>
<td>Psychiatry</td>
</tr>
<tr>
<td>33.</td>
<td>Substance Abuse</td>
<td>Psychiatry, Neuropsychiatry</td>
</tr>
<tr>
<td>34.</td>
<td>Clinical Neurophysiology with Epileptology</td>
<td>Psychiatry, Children's Psychiatry, Neurology, Children's Neurology, Pediatry</td>
</tr>
<tr>
<td>35.</td>
<td>Clinical Pharmacology-Pharmacotherapy</td>
<td>Internal Medicine, Clinical Pharmacology, Anesthesiology with Reanimatology, Neurology, Psychiatry, Infectology, Pediatry</td>
</tr>
<tr>
<td>36.</td>
<td>Neuroradiology</td>
<td>Radiology</td>
</tr>
<tr>
<td>37.</td>
<td>Intervention Radiology</td>
<td>Radiology</td>
</tr>
<tr>
<td>38.</td>
<td>Digestive Radiology</td>
<td>Radiology</td>
</tr>
<tr>
<td>39.</td>
<td>Medical Cytology</td>
<td>Pathology</td>
</tr>
<tr>
<td>40.</td>
<td>Clinical Pathology</td>
<td>Pathology</td>
</tr>
<tr>
<td>41.</td>
<td>Oncology</td>
<td>Gynecology and Obstetrics, Internal Medicine, Pediatry, Neurology, Dermatovenerology, Radiology, General Surgery, Orthopedics, Otorhinolaryngology, Urology</td>
</tr>
<tr>
<td>42.</td>
<td>Endocrine Surgery</td>
<td>General Surgery, Otorhinolaryngology, Children's Surgery, Chest Surgery</td>
</tr>
<tr>
<td>43.</td>
<td>Palliative Medicine</td>
<td>Internal Medicine, Neurology, General Surgery, Anesthesiology, Internal Oncology</td>
</tr>
</tbody>
</table>
Medical Service Training Center is a constituent unit of the Department for Education and Scientific Research, of the Military Medical Academy (MMA).

General Military Hospital Student Company - the forerunner of Medical Service Reserve Officer School in 1938. Medical Officer School formed at the General Military Hospital in October 1945. Since 1950 the Center has trained over 24,500 cadets, courses lasted from 3 months up to 6 months, and the average score for each class varies from 8.51 to 9.40.

Today, it is modern centre, and it is functionally designed for the training of the professional staff of the Serbian Armed Forces Medical Service, MOD and other structures of society, to work in peace or in a state of emergency and in peacekeeping missions and peace support operations.
## REVIEW OF EDUCATION AND TRAINING STAFF ACTIVE AND RESERVE MEDICAL SERVICE OFFICERS

<table>
<thead>
<tr>
<th>Rank/Year</th>
<th>1945-49</th>
<th>1950-59</th>
<th>1959-83</th>
<th>1983-90</th>
<th>1996-2010</th>
<th>TOTAL:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medical Service Reserve Officer</td>
<td>9</td>
<td>3338</td>
<td>16294</td>
<td>3581</td>
<td>1390</td>
<td>24640</td>
</tr>
<tr>
<td>Medical Service Reserve War Officer (2nd lieutenant to cpt)</td>
<td>216</td>
<td>931</td>
<td>4800</td>
<td>622</td>
<td>6</td>
<td>6569</td>
</tr>
<tr>
<td>Medical Service Reserve and Active Officer, YPA reserve unit commander</td>
<td>289</td>
<td>1752</td>
<td>2500</td>
<td>609</td>
<td>108</td>
<td>5150</td>
</tr>
<tr>
<td>Major exam candidates</td>
<td>126</td>
<td>1117</td>
<td>251</td>
<td></td>
<td></td>
<td>1494</td>
</tr>
<tr>
<td>Medical Service Reserve Officer advanced course</td>
<td></td>
<td></td>
<td></td>
<td>55</td>
<td>19</td>
<td>62</td>
</tr>
<tr>
<td><strong>TOTAL:</strong></td>
<td>640</td>
<td>7138</td>
<td>23594</td>
<td>5118</td>
<td>1390</td>
<td>37927</td>
</tr>
</tbody>
</table>
SIGNIFICANT ACTIVITIES OF MILITARY FIELD HOSPITAL ROLE 2

Medical Service Training Center’s Tasks are Organization and delivering of courses, seminars and other forms of training for officers, Medical Service candidates for officers and candidates for peacekeeping missions, Preparation of medical staff teams of all profiles for emergency situations, Organization and delivering of training courses in civil protection, Organization and delivering of courses for medical officers within the framework of international military cooperation (Democratic People’s Republic Algeria and others), Enhancement of cooperation and collaboration, exchange of experience and organization of joint exercises and other forms of cooperation in the region, Cardiopulmonary resuscitation course in cooperation with the European Centre for resuscitation for all profiles of medical staff, Scientific research in the field of organization and tactics of the Medical Service, Creation and development of teaching material.

Visions of the development prospects - Medical Service Training Center to become a Southeast Europe Regional Medical Service Training Centre. Project of The Regional Medical Service Training Center restructuring includes new way of organization, increase in personnel and medical equipment, and the role and tasks in accordance with the International Humanitarian Law.

If required, other courses in the military-medical field can also be organized.
**EMERGENCIES IN INTERNAL MEDICINE**

**Aim:**
1. Education of students in the field of emergencies in internal medicine;
2. Acquisition of theoretical and practical knowledge necessary for understanding the state of emergency, which directly threaten the lives of patients;
3. Acquisition of practical skills in the assessment of disease severity and treatment of acutely affected patients;

**Content:**
The course will be organized for 9 days, with entrance and exit test. The lecture covers all the circumstances in internal medicine that lead to emergency situations, the procedures necessary to assess the severity of threat, diagnostic procedures and treatment of vitally endangered patients. Practical training is provided in the field of first aid to a patient with cardiac arrest and application of cardiopulmonary resuscitation, basic principles of first aid in exogenous and endogenous intoxication, procedure and treatment of injured with bites from poisonous snakes, as well as disorders of consciousness. The course ends with the exit test and anonymous survey completed by the participants on the quality of CME. Lecturers are eminent professors from the Military Medical Academy, and exercises will be performed by assistant professors, specialists with many years of experience. The classes are organized and conducted by specialists in cardiology, anesthesiology with resuscitation, toxicology, nephrology, endocrinology, gastroenterology, infectious diseases, hematology, pulmonology, and dermatology.

**Certificate:**
Participants receive a certificate/confirmation that they have mastered the basic theoretical and practical knowledge and skills in the field of emergencies in internal medicine.
MANAGEMENT OF INJURED IN TRAUMATIC SHOCK AND POLYTRAUMA

Aim:
1. Education of students in the field of traumatic shock and polytrauma;
2. Acquisition of theoretical knowledge necessary for understanding the problems related to adequate care of persons with severe injuries;
3. Acquisition of practical skills in the assessment of disease severity and treatment of critically ill and injured patients;

Content:
The course is designed for five days, with entrance and exit test. Entrance test is designed, followed by the introductory lecture on trauma, the principles of surgical management of wounds, traumatic shock and polytrauma and head injuries. Planned lectures: airway maintenance, position of the wounded, pleural puncture and thoracic drainage and emergency thoracotomy, surgical care measures and immobilization of extremity injuries, as well as measures to assist with spinal injuries.

Practical exercise: taking care of injuries of blood vessels and measures to stop bleeding, exercises on immobilization means and exercises to assist with thoracic injuries. The course ends with the exit test and anonymous survey completed by the participants on the quality of CME.

Lecturers are eminent professors from the Military Medical Academy, and exercises will be performed by assistant professors, specialists with many years of experience. The classes are organized and conducted by specialists in orthopedics, general and vascular surgery, neurosurgery, thoracic surgery, vascular surgery and anesthesiology with resuscitation. The latest findings in the field of care for severely injured will be presented, as well as practical skills in providing medical care and treatment of this category of patients, associated with extensive experience of military doctors with respect to the latest recommendations in the field of traumatology.

Certificate:
Participants receive a certificate/confirmation that they have mastered the basic theoretical and practical knowledge and skills in the field of management of injured in traumatic shock and polytrauma.
PROFESSIONAL TRAINING OF MEDICAL OFFICERS FOR INITIAL DUTIES

Aim:
1. Train medical officers in the general military knowledge and expert military knowledge;
2. Develop the skills and abilities to perform individual tasks required for the initial duties of medical officers;

Content:
The curriculum includes the following teaching areas: common general military subjects, common professional and specialist subjects, professional and specialist subjects for: doctors, dentists and pharmacists, and physical education. The program content of common general military subjects is focused on training and preparation of candidates for the handling and use of weapons, means and equipment, in order to perform their assigned tasks independently and within a unit. The program content of professional and specialist subjects is focused on training and preparation of candidates for duties of the section and platoon commander and other duties of that level in the branch-service.

Certificate:
Participants receive a certificate that they are trained for the initial duties of medical officers.

Duration: 3 months
Start date: March and September
Maximum number of participants: 10
Admission requirements: English language proficiency. School of Medicine, Faculty of Dental Medicine or Faculty of Pharmacy completed.
Conditions for successful completion of training: Oral exam passed in the subject Organization and Tactics of Medical Service in Peace, War and Emergency, and exit test successfully passed in the subjects War Surgery, War Internal Medicine with Clinical Pharmacology, Military Hygiene, Military Epidemiology, Occupational Medicine, CBR Protection, War Neurology, War Psychiatry, War Mental Hygiene, Military Morale, Forensic Medicine, War Pharmacy and Medical Informatics.
Price: € 1,400
Name of the institution: Military Medical Academy, Department for Education and Scientific Research, Medical Services Training Centre.
ORGANIZATION OF MEDICAL AND HEALTH SERVICES IN DISASTER RELIEF

Duration: 2 days
Start date: April and September
Maximum number of participants: 20
Entrance/admission requirements: English language proficiency.
Professional profile of participants: Health workers of all educational backgrounds, police, members of civil defence, fire brigades and other structures of society.
Conditions for successful completion of training: 90% presence on lectures and exercises. Exit test passed.
Price: € 120
Name of the institution: Military Medical Academy, Department for Education and Scientific Research, Medical Services Training Centre

Aim:
1. Understanding the characteristics of mass disasters and health problems in mass disasters;
2. Introduction to the preparation of medical units and institutions for work in disaster relief, and their cooperation with the civilian health care facilities;
3. Acquiring skills in the medical evacuation

Content:
The Medical Service of the Armed Forces of Serbia is organized to provide all aspects of health care, from prevention and treatment to evacuation, and within these measures, appropriate preparations are made. Preparation of units and specific formations of the medical service in peace, to work in war and emergencies, accidents and disasters, are carried out through planning, organization and implementation of various activities (through planned courses of management, exercises, readiness checks, etc.). Functional connection between medical and health services is necessary for the care of mass casualties. The Medical Service of the Armed Forces of Serbia formed forces for urgent engagement in major accidents. The teams are independent in their work. These teams are formalized through studies, regulating all matters relating to their composition, way of mobilizing, the arrival of the team members, borrowing equipment and so on. It takes one hour to form a surgical team. In addition to surgical teams, the teams to address preventive medical problems (mixed preventive teams) were formed.

Certificate:
Participants receive a certificate/confirmation that they have mastered the basic theoretical and practical knowledge and skills in the field: Organization of medical and health services in disaster relief.
COURSE IN MILITARY EPIDEMIOLOGY

**Aim:** It is an intensive course in military epidemiology. The course aims at training students for prevention and medical activities in emergencies (including war). To achieve this, they are trained:

- how to recognize and identify the most frequent causes of infectious diseases,
- what prevention and control measures to apply before and during emergencies,
- how to organize the work of medical service in the field of prevention in emergencies.

Upon completion of the course, a certificate on the completed course in military epidemiology is acquired.

**Course in Military Epidemiology**

- **Duration:** 12 months
- **Start date:** September/October of current year
- **Maximum number of participants:** 3-5
- **Entrance requirements:** School of Medicine completed.
- **Conditions for successful completion of training:** all preliminary exams specified in the curriculum passed
- **Price:** € 3,000
- **Name of the institution:** Military Medical Academy
- **Course language:** Serbian and English

ADULT ECHOCARDIOGRAPHY

**Aim:**

1. master the basics of the echocardiographic examination and echocardiographic diagnosis in adult patients

**Course duration:** Three months
- **Start date:** February – May
- **Maximum number of participants:** 10-12
- **Entrance-admission requirements:** Proof of completion of the School of Medicine and, or Proof of completion of specialist training in Internal Medicine and, or Proof of completion of subspecialty in Cardiology
- **Price:** € 1,200
- **Name of the institution:** Military Medical Academy, Department of Cardiology
TYPE OF TRAINING - COURSE

BASIC PRINCIPLES OF MASS POISONING MANAGEMENT

**Duration:** 5 days (40 classes)
**Start date:** November
**Maximum number of participants:** 6
**Entrance/admission requirements:** Employees in the armed forces whose duties include the organization and/or implementation of first aid, medical care or logistical support.
**Conditions for successful completion of training:** Final test passed.
**Price:** € 625
**Name of the institution:**
Military Medical Academy/
National Poison Control Center, Belgrade, Serbia

**Aim:**
The aim of the course is basic training in recognizing mass poisoning and the principles of care for the victims of mass poisoning (chemical accidents, terrorist attacks).

**Content:**
Lectures: Toxins - history and development trends; Medical and Clinical Toxicology, activities of poison control centers; Chemical accidents, chemical disasters, chemical terrorism, environmental pollution; Recognition of toxic and nontoxic exposures; Basic algorithm of mass poisoning management; Basic methods and techniques for the prevention of poisoning; Basic principles of decontamination.
Workshop: Regional cooperation in the case of chemical disaster (opportunities for information exchange, opportunities for joint action).
Case study: An example of urgent care for the poisoned (first aid, treatment in the local military and civilian institutions, consultation and cooperation with the Poison Control Center, transport to specialized institutions).
Case study: The lessons learned from the methods of care used after chemical terrorist attack in the subway in Tokyo.
**Final test**

**Title acquired upon completion of the course:**
Certificate on course completion received.
### BASIC PRINCIPLES OF LIQUID CHROMATOGRAPHY (HPLC/PDA)

<table>
<thead>
<tr>
<th><strong>Duration</strong></th>
<th>5 days (40 classes)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Start date</strong></td>
<td>March, April</td>
</tr>
<tr>
<td><strong>Maximum number of participants</strong></td>
<td>5</td>
</tr>
<tr>
<td><strong>Entrance/admission requirements</strong></td>
<td>Employees in the armed forces whose duties include knowledge of basic principles of liquid chromatography (HPLC/PDA), faculties, foreign representatives.</td>
</tr>
<tr>
<td><strong>Conditions for successful completion of training</strong></td>
<td>Final test passed.</td>
</tr>
<tr>
<td><strong>Price</strong></td>
<td>€ 1,000</td>
</tr>
<tr>
<td><strong>Name of the institution</strong></td>
<td>Military Medical Academy/ National Poison Control Center, Belgrade, Serbia</td>
</tr>
</tbody>
</table>

### Aim:
The aim of the course is basic education on the principles of liquid chromatography (qualitative and quantitative determination of drugs, pesticides and abused substances).

### Content:
**Lectures:** introduction to the organization and operation of OTH, reception of materials for work, administration of reception, sample triage, the basics of military toxicology, basics of accreditation of chemical-toxicological laboratory, the procedures of preparation and purification of samples, the basics of methodology of toxicological and chemical analyses, the basics of instrumental technique HPLC-PDA.

**Workshop:** Analysis of samples of biological material (blood, urine). Case study: Understanding the basics of methodology of samples of forensic importance with the application of instrumental analytical techniques. Final test.

### Title acquired upon completion of the course:
Certificate on course completion received.
**TYPE OF TRAINING - COURSE**

**BASIC PRINCIPLES OF LIQUID-MASS SPECTROMETRY (HPLC/MS, UPLC/MS)**

**Aim:**
The aim of the course is basic education on the principles of liquid-mass spectrometry (qualitative and quantitative determination of drugs, pesticides and abused substances).

**Content:**
Lectures: introduction to the organization and operation of OTH, reception of materials for work, administration of reception, sample triage, the basics of military toxicology, basics of accreditation of chemical-toxicological laboratory, the procedures of preparation and purification of samples, the basics of methodology of toxicological and chemical analyses, the basics of instrumental techniques HPLC/MS, UPLC/MS.
Workshop: Analysis of samples of biological material (blood, urine). Case study: Understanding the basics of methodology of samples of forensic importance with the application of instrumental analytical techniques. Final test.

**Title acquired upon completion of the course:**
Certificate on course completion received.

**Duration:** 5 days (40 classes)
**Start date:** March, April
**Maximum number of participants:** 5
**Entrance/admission requirements:** Employees in the armed forces whose duties include knowledge of basic principles of liquid-mass spectrometry (HPLC/MS, UPLC/MS), faculties, foreign representatives.
**Conditions for successful completion of training:** Final test passed.
**Price:** € 1,000

**Name of the institution:**
Military Medical Academy/ National Poison Control Center, Belgrade, Serbia

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**TYPE OF TRAINING - COURSE**

**BASIC PRINCIPLES OF GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC-MS)**

**Aim:**
The aim of the course is basic education on the principles of gas chromatography/mass spectrometry (qualitative and quantitative determination of drugs, pesticides and abused substances).

**Content:**
Lectures: introduction to the organization and operation of OTH, reception of materials for work, administration of reception, sample triage, the basics of military toxicology, basics of accreditation of chemical-toxicological laboratory, the procedures of preparation and purification of samples, the basics of methodology of toxicological and chemical analyses, the basics of instrumental technique GC-MS.
Workshop: Analysis of samples of biological material (blood, urine). Case study: Understanding the basics of methodology of samples of forensic importance with the application of instrumental analytical techniques. Final test.

**Title acquired upon completion of the course:**
Certificate on course completion received.

**Duration:** 5 days (40 classes)
**Start date:** March, April
**Maximum number of participants:** 5
**Entrance/admission requirements:** Employees in the armed forces whose duties include knowledge of basic principles of gas chromatography/mass spectrometry (GC-MS), faculties, foreign representatives.
**Conditions for successful completion of training:** Final test passed.
**Price:** € 1,000

**Name of the institution:**
Military Medical Academy/ National Poison Control Center, Belgrade, Serbia
TYPE OF TRAINING - COURSE

UNDERSTANDING THE BASICS OF TOXICOLOGICAL AND CHEMICAL ANALYSIS

Aim:
The aim of the course is basic education on the principles of toxicological and chemical analysis (qualitative and quantitative determination of drugs, pesticides and abused substances). It is designed for laboratory and medical technicians.

Content:
- a) Lectures: introduction to the organization and operation of OTH, reception of materials for work, administration of reception, sample triage, the basics of military toxicology, basics of accreditation of chemical-toxicological laboratory, the procedures of preparation and purification of samples.
- b) Workshop: Preparation of samples of biological material (blood, urine) for analysis.
- c) Understanding the basics of methodology of preparation of samples of forensic importance.
- d) Final test.

Title acquired upon completion of the course:
Certificate on course completion received.

TYPE OF TRAINING - COURSE

HEPATOBILIOPANCREAS SURGERY

Aim:
acquisition of theoretical knowledge and skills in the field of hepatobiliarypancreas surgery

Content:
- specified in the course curriculum

Title acquired upon completion of the course:
Certificate on course completion received.
**TYPE OF TRAINING - COURSE**

**COLORECTAL SURGERY**

Duration: 2 months

Start date: date of commencement of the course will be determined according to time of application of interested students

Maximum number of participants: 1-2

Entrance/admission requirements: completion of a residency in General Surgery with honours, School of Medicine completed, grade point average (GPA) of at least 8.00 (scale 5-10) and professional exam passed (or other form of verification of permission to work independently, which is valid in the country from which the candidate comes)

Conditions for successful completion of training: preliminary tests specified in the curriculum passed and insight into the operational skills gained

Price: € 750

Name of the institution: Military Medical Academy – Department of General Surgery

**Aim:**
acquisition of theoretical knowledge and skills in the field of colorectal surgery

**Content:**
specified in the course curriculum

**Title acquired upon completion of the course:**
Certificate on course completion received.

**TYPE OF TRAINING - COURSE**

**BREAST SURGERY**

Duration: 2 months

Start date: date of commencement of the course will be determined according to time of application of interested students

Maximum number of participants: 1-2

Entrance/admission requirements: completion of a residency in General Surgery with honours, School of Medicine completed, grade point average (GPA) of at least 8.00 (scale 5-10) and professional exam passed (or other form of verification of permission to work independently, which is valid in the country from which the candidate comes)

Conditions for successful completion of training: preliminary tests specified in the curriculum passed and insight into the operational skills gained

Price: € 750

Name of the institution: Military Medical Academy – Department of General Surgery

**Aim:**
acquisition of theoretical knowledge and skills in the field of breast surgery

**Content:**
specified in the course curriculum

**Title acquired upon completion of the course:**
Certificate on course completion received.
THYROID GLAND SURGERY

**Duration:** 2 months

**Start date:** date of commencement of the course will be determined according to time of application of interested students.

**Maximum number of participants:** 1-2

**Entrance/admission requirements:** completion of a residency in General Surgery with honours, School of Medicine completed, grade point average (GPA) of at least 8.00 (scale 5-10) and professional exam passed (or other form of verification of permission to work independently, which is valid in the country from which the candidate comes)

**Conditions for successful completion of training:** preliminary tests specified in the curriculum passed and insight into the operational skills gained

**Price:** € 750

**Name of the institution:**
Military Medical Academy – Department of General Surgery

**Aim:**
acquisition of theoretical knowledge and skills in the field of thyroid gland surgery

**Content:**
specified in the course curriculum

**Title acquired upon completion of the course:**
Certificate on course completion received.
PARATHYROID GLAND SURGERY

**Aim:** acquisition of theoretical knowledge and skills in the field of **parathyroid gland surgery**

**Content:** specified in the course curriculum

**Title acquired upon completion of the course:** Certificate on course completion received.

---

**Duration:** 2 months

**Start date:** date of commencement of the course will be determined according to time of application of interested students

**Maximum number of participants:** 1-2

**Entrance/admission requirements:** completion of a residency in **General Surgery** with honours, School of Medicine completed, grade point average (GPA) of at least 8.00 (scale 5-10) and professional exam passed (or other form of verification of permission to work independently, which is valid in the country from which the candidate comes)

**Conditions for successful completion of training:** preliminary tests specified in the curriculum passed and insight into the operational skills gained

**Price:** € 750

**Name of the institution:** Military Medical Academy – Department of General Surgery

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LAPAROSCOPIC SURGERY

**Aim:** acquisition of theoretical knowledge and skills in the field of **laparoscopic surgery**

**Content:** specified in the course curriculum

**Title acquired upon completion of the course:** Certificate on course completion received.

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**Duration:** 1 month

**Start date:** date of commencement of the course will be determined according to time of application of interested students

**Maximum number of participants:** 1-4

**Entrance/admission requirements:** completion of a residency in **General Surgery** with honours, School of Medicine completed, grade point average (GPA) of at least 8.00 (scale 5-10) and professional exam passed (or other form of verification of permission to work independently, which is valid in the country from which the candidate comes)

**Conditions for successful completion of training:** preliminary tests specified in the curriculum passed and insight into the operational skills gained

**Price:** € 400

**Name of the institution:** Military Medical Academy – Department of General Surgery
Surgical Treatment of Pseudoarthrosis and Osteomyelitis by the Ilizarov Method

**Aim:**
The training of orthopedic surgeons in the surgical treatment of pseudoarthrosis and osteomyelitis by the Ilizarov method.

**Content:**
Education and training of students in independent performance of the surgical treatment of pseudoarthrosis and osteomyelitis by the Ilizarov method.

**Duration:** 4 weeks

**Start date:** May and November

**Maximum number of participants:** 2

**Entrance/admission requirements:** Candidates who enroll must be orthopedic surgeons with specialization in orthopedics and traumatology completed, with at least 3 years of specialized experience and English language proficiency (for foreigners).

**Conditions for successful completion of training:**
Complete mastery of the operational technique of the Ilizarov method and independent performance of these operations.

**Price:** € 1,000

**Name of the institution:**
Military Medical Academy – Department of Orthopedic Surgery and Traumatology
HIP AND KNEE ARTHROPLASTY

**Duration:** 4 weeks

**Start date:** March and September

**Maximum number of participants:** 2

**Entrance/admission requirements:** Candidates who enroll must be orthopedic surgeons with specialization in orthopedics and traumatology completed, with at least 3 years of specialized experience and English language proficiency (for foreigners).

**Conditions for successful completion of training:** Complete mastery of the operational technique of hip and knee arthroplastic procedures and independent performance of these operations.

**Price:** € 1,000

**Name of the institution:** Military Medical Academy – Department of Orthopedic Surgery and Traumatology

KNEE, SHOULDER AND ANKLE ENDOSCOPIC SURGERY

**Duration:** 3 weeks

**Start date:** April and October

**Maximum number of participants:** 2

**Entrance/admission requirements:** Candidates who enroll must be orthopedic surgeons with specialization in orthopedics and traumatology completed, with at least 3 years of specialized experience and English language proficiency (for foreigners).

**Conditions for successful completion of training:** Complete mastery of the operational technique of knee, shoulder and ankle arthroscopy and independent performance of these operations.

**Price:** € 800

**Name of the institution:** Military Medical Academy – Department of Orthopedic Surgery and Traumatology

**Aim:**
Training of orthopedic surgeons in performing knee, shoulder and ankle arthroplastic procedures.

**Content:**
Education and training of students in independent performance of knee, shoulder and ankle arthroplastic procedures.
FUNCTIONAL ENDOSCOPIC SURGERY OF THE SINUSES

Aim:
Train ENT specialists to perform surgical procedures in functional endoscopic surgery of the paranasal sinuses

Content:
Lectures (theory) and cadaver practicals; one or two demonstrational surgeries at the OR

Duration of the course: 4 days
Number of participants: Up to 10 (in cadaver practicals), up to 10 observers
Application requirements: ENT specialization
Price: The equivalent of € 120
Institution: ENT Clinic, MMA

ECHOGRAPHY OF THE NECK

Aim:
Train ENT specialists to independently perform echography of the neck and interpret its results

Content:
Lectures (theory) and practicals in ultrasonography diagnostics of the neck

Duration of the course: 4 days
Number of participants: Up to 20
Application requirements: ENT specialization
Price: The equivalent of € 120
Institution: ENT Clinic, MMA

ENDOSCOPY OF THE LARYNX

Aim:
Train ENT specialists to perform laryngomicroscopy - larynx endoscopy and CO₂ laser-supported endoscopic surgery of the larynx

Content:
Lectures (theory) and practicals in larynx endoscopy

Duration of the course: 3 days
Number of participants: Up to 6 (practicals), up to 4 (observation)
Application requirements: ENT specialization
Price: The equivalent of € 120
Institution: ENT Clinic, MMA
## Type of Training - Course: Haemodialysis

**Duration of the course:** 3 months  
**Start date:** April  
**Maximum number of participants:** 5 MDs and 5 medical technicians  
**Application requirements:**  
For MDs: a specialization in internal medicine.  
For medical technicians: at least 3 years of service and experience in intensive care of patients  
**To complete the course successfully, the participants must:** Have a good command of English or Serbian, have adequate knowledge and experience gained during previous studies and professional development, be motivated, attend lectures and practicals regularly throughout the course  
**Price:** € 3,600 (MDs), € 2,400 (medical technicians)  
**Institution:** Nephrology Clinic, MMA

**Aim:** Train MDs (internists-nephrologists) and medical technicians in independent performance of chronic haemodialysis, haemofiltration and haemodiafiltration  
**Content:** During the course MDs (internists-nephrologists) and medical technicians will be trained in independent performance of all haemodialysis-related procedures and treatment of patients on the chronic haemodialysis programme  
**Qualification gained:** Upon successful completion of the course all participants are issued certificates of competence in independent performance of haemodialysis-related procedures and treatment of patients on the chronic haemodialysis programme
## TYPE OF TRAINING - COURSE

### PERITONEAL HAEMODIALYSIS

<table>
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<th><strong>Duration of the course:</strong></th>
<th>3 months</th>
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<tr>
<td><strong>Start date:</strong></td>
<td>April</td>
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<tr>
<td><strong>Maximum number of participants:</strong></td>
<td>5 MDs and 5 medical technicians</td>
</tr>
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</table>
| **Application requirements:** | For MDs: a specialization in internal medicine  
For medical technicians: at least 3 years of service and experience in care of patients with chronic renal diseases |
| **To complete the course successfully, the participants must:** | Have a good command of English or Serbian, have adequate knowledge and experience gained during previous studies and professional development, be motivated, attend lectures and practicals regularly throughout the course |
| **Price:**                 | € 1,800 (MDs), € 1,200 (medical technicians) |
| **Institution:**           | Nephrology Clinic, MMA |

### Aim:
Train MDs (internists-nephrologists) and medical technicians in independent care of patients receiving chronic ambulatory peritoneal dialysis (CAPD) and automatic peritoneal dialysis (APD).

### Content:
Independent performance of CAPD and APD, care of the patients receiving chronic peritoneal dialysis (assessment of the adequacy of haemodialysis, treatment of peritonitis and other complications, catheter implantation techniques, care of the catheter exit site).

### Qualification gained:
Upon successful completion of the course all participants are issued certificates of competence in independent performance of CAPD and APD and care of patients receiving chronic peritoneal dialysis.
TYPE OF TRAINING - COURSE

ULTRASOUND-GUIDED BIOPSY OF THE KIDNEY

Duration of the course: 3 months
Start date: March
Maximum number of participants: 2 MDs
Application requirements: Specialization in internal medicine or urology
To complete the course successfully, the participants must:
Have a good command of English or Serbian, have adequate knowledge and experience gained during previous studies and professional development, be motivated, attend lectures and practicals regularly throughout the course
Price: € 1,800 (MDs)
Institution: Nephrology Clinic, MMA

Aim:
Train MDs (internists-nephrologists and urologists) in independent performance of ultrasound-guided biopsy of the kidney using an automatic biopsy gun and semiautomatic needles
Content:
Independent performance of ultrasound-guided biopsy of the kidney; processing of the material thus obtained; light microscopy (LM), immunofluorescence microscopy (IF), and electron microscopy (EM) distribution
Knowledge gained:
upon successful completion of the course the participants are issued certificates of competence in independent performance of ultrasound-guided biopsy of the kidney.

TYPE OF TRAINING - COURSE

DERMOSCOPY

Duration of the course: 1 day
Start of the course: May, October
Maximum number of participants: 6 MDs
Application requirements: Specialization in dermatology and STD diseases
To complete the course successfully, the participants must:
Price: € 150
Institution: Dermatology and STD Clinic, MMA

Aim:
Train participants in the basic principles of dermoscopy, dermoscopic forms, and melanocyte and non-melanocyte lesions distinction forms
Content:
Potential and significance of dermoscopy; broadening the knowledge of the nature and types of benign and malignant skin tumours; independent performance of dermoscopy; dermoscopic algorithms for distinguishing between benign and malignant lesions
Qualification gained:
Certificate of course completion
TYPE OF TRAINING - COURSE

MICROSURGERY

Aim:
Application of microsurgical techniques

Content:
History, microsurgery instrumentation and microsurgery techniques (lectures), practicals performed on lab animals (observation, assisting, independent work), application of microsurgery techniques in the OR (observation, assisting)

Qualification gained:
Certificate of professional development in microsurgery

Duration of the course: 1 month
Start of the course: April, October
Maximum number of participants: 4 MDs
Application requirements: Specialization in plastic and reconstructive surgery, orthopaedics, ENT, maxillofacial surgery, gynaecology, neurosurgery, urology
To complete the course successfully, the participants must: Pass a test, perform successful anastomoses
Price: € 1.000
Institution: Plastic Surgery and Burns Clinic, MMA

TREATMENT OF BURNS

Aim:
Application of the conservative and active surgical approaches in the treatment of burns at a specialized medical institution

Content:
Aetiology, pathogenesis and treatment of burns (lectures), procedures performed on a burn patient at the primary, secondary and tertiary health care levels, admission procedure at the tertiary health care level institution, conservative treatment (practicals), active surgical treatment (application of autotransplants and homotransplants – assisting, independent work), fluids replenishment calculation, medicament application, significance of physical therapy, treatment of postburn sequelae

Qualification gained:
Certificate of professional development in burns treatment

Duration of the course: 1 month
Start of the course: April, October
Maximum number of participants: 4 MDs
Application requirements: Specialization in plastic and reconstructive surgery, general surgery, anaesthesiology
To complete the course successfully, the participants must: Pass a test
Price: € 1.000
Institution: Plastic Surgery and Burns Clinic, MMA
### RECONSTRUCTION OF THE BREAST

- **Aim:** Application of reconstructive procedures for amputated breasts
- **Content:** Indications for surgical treatment of breast tumour (amputation, salvage surgery) history of reconstructive methods, indications and contraindications for breast reconstruction (lectures, practicals – medical documentation, physical examination, consultation protocol, planning for the reconstructive method, application of flaps, implants)
- **Qualification gained:** Certificate of professional development in reconstruction of the breast

### SURGERY OF THE HAND

- **Aim:** Diagnosing injuries and diseases of the hand, application of plastic-reconstructive procedures in surgery of the hand
- **Content:** Lectures, practicals (observation, assisting, independent work): examination of the injured hand, emergency plastic surgery procedures, covering the defects of the skin on the hand, application of reconstructive methods in blood vessel, nerve, tendon and bone injury, amputation, replantation, conquasant injuries, tumours
- **Qualification gained:** Certificate of professional development in surgery of the hand