AMERICAN NORTHWEST UNIVERSITY OF HEALTH SCIENCE AND TECHNOLOGY

INFORMATION GUIDE
ECTS CATALOG AND GUIDE

FOR ENROLLMENT IN THE AMERICAN NORTHWEST UNIVERSITY OF HEALTH SCIENCE AND TECHNOLOGY

Goražde, March 2024.

INFORMER
ECTS CATALOG AND GUIDE

FOR ENROLLMENT AND STUDIES AT THE AMERICAN NORTHWEST UNIVERSITY OF HEALTH SCIENCE AND TECHNOLOGY ANUHS/ASUZN

General information about the American Northwest University of Health Science and Technology ANUHS/ASUZN

Geographical location

American Northwest University of Health Science and Technology ANUHS/ASUZN is headquartered in the city of Goražde, the administrative center of Bosnian-Podrinje Canton Goražde, which is located in the eastern part of Bosnia and Herzegovina on the Drina River. It is 100 kilometers from the capital Sarajevo and connected by a very good road that passes through the beautiful areas of the Romanija mountains. It is about 60 kilometers from the border with SR Serbia and Montenegro. The town of Goražde is located only 60 meters above sea level and has a very warm and mild climate. The city of Goražde and its surroundings have beautiful untouched nature with preserved rivers, sources of drinking water and forests and fields with grass and other plant vegetation.

Legal basis for establishment

The American Northwest University of Health Science and Technology/American Northwest University for Health Sciences and Technology is established as a private higher education institution, and by decision number 045-0-Reg-14-000 063 dated 13.10.2014, it was entered into the court register, and by decision number 10-38-2437-5/14 dated 23.09.2014 in the Register of Higher Education Institutions in the Bosnian-Podrinje Canton, by decision 10-38-2437-7/14 dated 24.09.2014, received a license to operate, determining that the American Northwest University of Health Science and Technology/American Northwest University for Health Sciences and Technology includes a Faculty of Health Sciences with study programs in Medicine, Dentistry, Pharmacy, Nursing, and Physiotherapy; Faculty of Educational Sciences with study programs in Psychology and Turkish Language and Literature; Faculty of Technical Sciences with study programs in Architecture, Civil Engineering, Geodesy, and Electrical Engineering; and Faculty of Social Sciences with study programs in General Law, Business Economics, Management, and Banking. The license determines that study programs of all three study cycles can be organized. The American Northwest University of Health Science and Technology/American Northwest University for Health Sciences and Technology is an educational and scientific institution that, within its core activities, independently and/or in cooperation with partners, conducts basic academic studies of the first cycle, specialist, professional, and research studies of the second cycle, integrated medical science studies, and doctoral studies of the third cycle, lifelong learning programs, and professional training and development programs. The American Northwest University of Health Science and Technology/American Northwest University for Health Sciences and Technology independently, or in collaboration with other educational and research organizations and institutions, carries out basic and applied research and research that contribute to the development of educational activities. The American Northwest University of Health Science and Technology/American Northwest University for Health Sciences and Technology may also perform other tasks that are in line with its registered activities, in accordance with the Law on Higher Education and the Statute.

Mission

The mission of the American Northwest University of Health Science and Technology is to enhance educational products according to the needs of the labor market for all study cycles, including lifelong learning, in the areas of social, medical, technical, and educational sciences. The University serves people by conducting research in the fields of theoretical, applied, and developmental scientific research with the aim of developing society on fair, ethical, and sustainable principles

Vision

The vision of the University is to develop as an educational and research university. This creates excellent opportunities for learning and research to achieve globally significant results. We are committed to equal opportunities, creating inclusivity, and supporting staff and student well-being, ensuring that the best students and staff can thrive in our community. We believe that diverse staff and student body strengthen our research and enhance the learning of our students. The University is socially responsible for promoting the development of Goražde, the Bosnian-Podrinje Canton, Bosnia and Herzegovina, and the world.

Teaching staff and human resources

The teaching, scientific, and professional activities in the organizational units of the University are conducted by teachers, associates, whose qualifications are determined by selection into the appropriate scientific-teaching and associate titles. The University organizes and maintains a register of teachers and associates. University teachers, scientists, associates, and researchers must adhere to moral and ethical principles, principles of scientific truth and criticality in their work, actions, and behavior at the University, and protect the reputation of the University and its constituent parts. The Senate adopts a Code of Conduct and

Teaching Ethics containing provisions on behavior in the performance of the teaching profession to preserve the reputation of the University. Special provisions of teaching ethics can be determined by other general acts of the University, in accordance with the Law and the Statute.

Through its personnel policy, the University ensures a sufficient number of competent and professional teachers and assistants in its study programs. In the selection of teachers and assistants, the University relies on its own selected teachers and assistants, as well as external collaborators elected to academic positions, mostly from public universities. In filling the necessary academic staff, the University adheres to the Standards and norms of higher education so that at least 50% of the required teachers and assistants are in employment, and for other teaching needs, external collaborators are engaged.

In order to better prepare students to achieve learning outcomes, the University engages prominent experts from practice who, under the supervision of the academic staff, train students in mastering skills that, in addition to mastering theoretical knowledge, provide students with competencies for specific work in the profession. By developing a network of teaching bases from which practice experts are recruited, the University ensures that graduates can immediately be involved in work processes based on the diplomas they have obtained at the University.

Spatial capacities

The University provides adequate spatial conditions for conducting all forms of teaching. For the realization of theoretical parts of the teaching ex-cathedra, there are 300 seats provided in five classrooms and one amphitheater. For the realization of practical and laboratory exercises, two multifunctional laboratories, an anatomy exercise cabinet, and one multifunctional room for microscopy have been provided. In addition to the spatial capacities at the University, agreements on cooperation have been established with healthcare institutions and other legal entities to create conditions for the implementation of parts of the teaching process that are carried out in teaching bases.

Technical capacities

In order to provide a modern approach to the implementation of all study programs, the University has ensured complete technical support for the teaching and research process. Thus, the university offers students an IT lab with twenty computer units connected to the internet network. For students in the biomedical group, there are twenty microscopes available with the necessary specimens for microscopy. Ten projectors for presentations, slides, and video presentations are also available.

Organizational structure

The University is structured as a centralized University in which organizational units (faculties) have unrestricted academic freedom in organizing the teaching process, property management, and the development of study programs, as well as in the selection of teaching and assistant titles. The management of the University is in accordance with relevant legal provisions, with the highest academic body being the Senate, the rector with vice-rectors, and the general secretary. The organizational units are led by a Council, with the dean and vice-deans.

The organization of the University is based on principles of centralized internal organization, rationalization, functionality, vertical and horizontal integration, and harmonization of basic elements of internal organization with flexibility. The University operates through a centralized model of internal organization, which involves management and coordination of work processes through vertical and horizontal integration, by dividing responsibilities and transferring rights and obligations of the University management staff to the faculty management staff, as well as through the coordination of the work of joint University services and established professional services of the faculties.

In order to consolidate managerial, professional, and executive tasks within the activities of the University and the member institutions, the University has a Rectorate and the faculties have Dean's Offices. The Rectorate organizes and manages the work of the University.

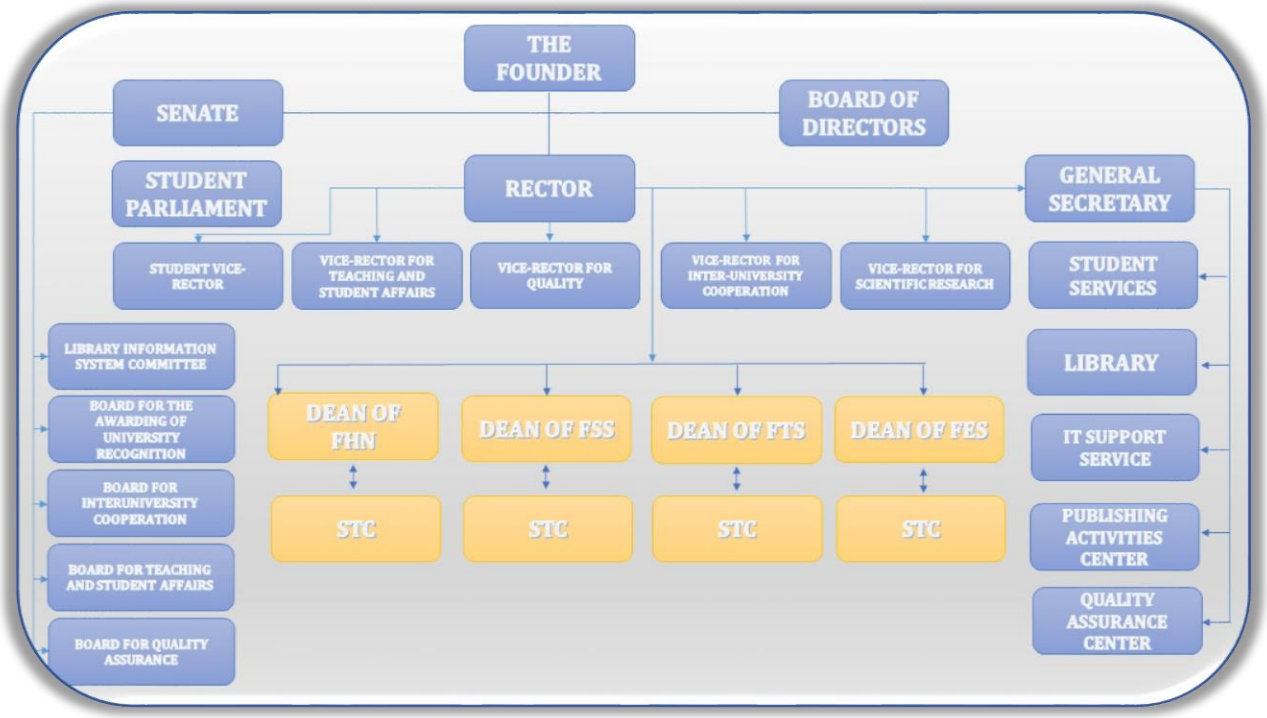
The University consists of faculties as follows:

Faculty of Technical Sciences:
Study Program Civil Engineering
Study Program Architecture
Study Program Geodesy
Study Program Electrical Engineering

Faculty of Educational Sciences:
Study Program Psychology
Study Program Turkish Language

Faculty of Social Sciences
Study Program General Law
Study Program Business Economics
Study Program Management
Study Program Banking

Faculty of Health Studies :
Study Program Medicine
Study Program Dentistry
Study Program Pharmacy
Study Program Nursing
Study Program Physiotherapy



The library and reading room

The University library has over twenty-five thousand titles available. Cataloging has been done according to study programs and scientific fields of study programs. Students have access to all literature cataloged in the library. The reading room has an adequate number of study places for students, corresponding to the number of enrolled students. The reading room is equipped with a sufficient number of computer units from which students can access the electronic library and learning databases.

Enrollment plan in the academic year

Every academic year, the University establishes approximate enrollment quotas for each study program separately. The basis for determining enrollment quotas is the available academic staff, spatial capacities, and capacities of teaching equipment, classrooms, and IT technologies. The enrollment policy defines the conditions, procedures, and criteria for enrolling in the first year of a specific study program and study cycle.

The University announces a public competition for enrollment in all study programs of all study cycles. The competition for student enrollment is announced by the University in accordance with the Law. Upon the proposal of the University members, the Senate suggests to the founder the number and structure of students to be enrolled in the first year of the first and second study cycles, as well as the first year of the integrated study. By its decision, the founder determines the number of students to be enrolled in the first year of the first and second study cycles and the integrated study.

The Senate gives consent to the competition text and determines the number of students in the third study cycle, dual, professional, specialist, interdisciplinary, multidisciplinary, and transdisciplinary study, and gives consent to the request of the council members for organizing preparatory courses, summer and winter schools, as well as various forms of non-cyclic and lifelong education.

Study costs

Study costs include enrollment fees, tuition fees, and other fees that encompass the use of the information system, library services, student insurance, as well as services determined by the decision of the founder specifying the amount of participation. The enrollment fee covers the administrative processing costs for enrollment applications or renewal of the academic year, which all students are required to pay upon enrollment or renewal, except for students exempted in accordance with relevant regulations. Tuition fees entail the payment of the predetermined cost of education. Students pay tuition fees in installments throughout the academic year, as specified in the study contract. At least seven days before announcing the competition for student enrollment, the University is obliged to publish on its website the amount of tuition fees and all other fees borne by students.

Conditions that a student must meet to exercise the right to enroll

For all candidates seeking enrollment, an entrance exam or aptitude test for a specific study program is organized.

Before the start of the academic year, the University publicly announces the enrollment conditions for all study programs and study cycles. The criteria for enrollment and admission to the first year are defined by law and University regulations. The University pays particular attention to vulnerable student categories, individuals with special needs, and works to prevent discrimination on any basis.

Candidates eligible for enrollment in study programs are citizens of Bosnia and Herzegovina and foreign citizens who have completed secondary education or its equivalent and have passed the entrance exam or aptitude test for a specific study program. In case the number of applicants exceeds the planned enrollment quota, a ranking list is established based on the results of the entrance exam and the high school grade average.

Students enrolled in the University's study programs are required to sign a study contract regulating their mutual rights and obligations. The University Senate more precisely regulates the fundamental elements of the contract

Student representative body

Students organize their interests through the student representative body. The University's student representative body consists of elected representatives of students from all faculties and study cycles. The student representative body operates on the principle of representativeness, ensuring adequate proportional representation of students in University bodies. The student representative body has a Statute governing the work of the Student Organization. The student representative body elects the Student Parliament, composed of all students enrolled at the University.

Student Support Office

The University Student Support Office provides assistance and support to students, academic and non-academic staff, and other interested individuals. The Office's activities are defined by its fundamental orientation towards creating an inclusive environment and promoting education for all, and they are reflected in providing assistance and support in various areas.

The Student Support Office is multidisciplinary, and its services include: assistance and support in choosing a study program; career counseling; support for improving access to education; ensuring conditions for meeting needs and enjoying rights; providing psychological assistance; informing and educating students, academic and non-academic staff; enhancing the study experiences of students with disabilities; research activities; participation in the development and amendment of laws and regulations related to education; renting assistive technology; preparation and implementation of project proposals, and other forms of services carried out in collaboration with University members.

The Student Support Office carries out its activities through collaboration with other similar institutions, non-governmental organizations, domestic and international bodies dealing with student support issues, as well as non-cyclical education programs and lifelong learning initiatives.

Quality assurance

Within the University, a Quality Center has been established, which includes a Quality Assurance Committee. The University, along with all its constituent parts, has a mission and goal to achieve the highest standards of quality in its operations. A culture of quality is built in all aspects of work and in all normative acts. The University is obligated to develop its own quality assurance system to ensure the quality and implementation of its educational mission. The University also has a Quality Assurance Committee, as well as expert and advisory bodies of the Senate. The composition, organization, and other important issues regarding the work of the Committee are determined by the Senate through a special decision.

In order to obtain a more credible picture of the quality of studies and study programs, the University will, in the coming period, taking into account European standards and guidelines for quality assurance (ENQA standards), support the establishment of mechanisms that allow for the identification and comparison of strengths and weaknesses of work, and devise measures to improve the existing situation.

Conducting internal evaluations

The University conducted a self-evaluation report in 2021 and 2023. The University is in the process of implementing ENQA standards for internal evaluation, which are included in the document "Standards and Guidelines for Quality Assurance in Higher Education in Bosnia and Herzegovina", adopted by the Council of Ministers of BiH in December 2007. Over the next five years, the University will conduct internal self-evaluation twice and submit a report on it to the University Senate and the relevant ministry.

External evaluations

In collaboration with the Agency for the Development of Higher Education and Quality Assurance in Bosnia and Herzegovina, and with the support of the relevant ministry, the University will undertake necessary preparations for external evaluation according to the standards and criteria provided by the European University Association (EUA)

Monitoring of student attendance

Within the quality management development system, the University will systematically monitor student progression in the first, Integrated, and second cycles of studies, with a special focus on the pass rates in the first year of the first cycle. It is also necessary to develop and monitor the promotions of teachers and associates, as well as meeting the norms for them.

Systematic monitoring of the most successful students aims to ensure their educational development in accordance with their abilities and inclinations. In the long run, this has a positive impact on the evaluation processes of the study programs and the overall quality of studies. It is recommended to monitor a selected group of the most successful students to create a conducive educational climate within the study program. This monitoring will be carried out by teachers and associates in their direct work.

Exercising student rights

Students organize themselves and represent their interests through the

student representative body. The university's student representative body consists of elected student representatives from all faculties and all three study cycles. The student representative body operates on the principle of representativeness, ensuring adequate proportional representation of students in university bodies. The student representative body has a Rules of Procedure for the Student Organization. The student representative body elects the Student Parliament, which is comprised of all students enrolled at the university.

Students' free activities

The university fully supports students' desires to organize and spend their free time as they choose in all student activities. Goražde, as a city with its surroundings, offers young people plenty of opportunities for engaging in sports, recreational, and other activities that have a positive impact on their physical and mental health. In the city of Goražde, there are sports clubs, fishing and hunting associations with open access, and often amateur sports competitions are organized. The banks of the Drina River are lined with promenades, and there are also parts of the river close by where swimming activities and other water sports are permitted.

We wish all our students, present and future, to successfully master the study programs they are enrolled in and to utilize the knowledge and skills acquired in their respective workplaces for which they have been educated.

HOME FIELDS AND SUBJECTS OF BIOMEDICAL, MEDICAL AND HEALTH SCIENCES	
MEDICINE	
1. INTRODUCTION TO MEDICINE AND HISTORY OF MEDICINE	1.1. Introduction to medicine with medical deontology 1.2. Introduction to medical ethics 1.3. Historical development of medicine and the emergence of medicine and other health professions
2. MEDICAL PHYSICS AND BIOPHYSICS	2.1. Light waves in medicine 2.2. Optics in medicine 2.3. Ultrasound in medicine 2.4. Radiation sources and their importance in medicine
3. MEDICAL CHEMISTRY	
4. MEDICAL BIOLOGY WITH GENETICS	4.1. Neonatal genetics
5. HUMAN ANATOMY	5.1. clinical anatomy, 5.2. Systemic anatomy 5.3. Topographic anatomy 5.4. Comparative anatomy 5.5. Applied anatomy 5.6. Radiological anatomy 5.7. Surgical anatomy
6. HISTOLOGY AND EMBRYOLOGY	6.1. Functional cytology 6.2. Histology and histological methods 6.3. Human tissues and organs 6.4. Human embryology
7. MEDICAL BIOCHEMISTRY	7.1. Medical biochemistry 7.2. Enzymes 7.3. Clinical biochemistry
8. HUMAN PHYSIOLOGY	8.1. General physiology 8.2. Special physiology of organic systems 8.3. Neurophysiology 8.4. Physiology of sports 8.5. Metabolism and temperature regulation 8.6. Physiology of reproduction 8.7. Physiology in aviation, space and diving 8.8. Clinical physiology
9. IMMUNOLOGY	9.1. Immunology of transplantation 9.2. Autoimmune diseases 9.3. Clinical immunology 9.4. Immunological laboratory methods
10. PATHOLOGY	10.1. General pathology 10.2. Special pathology - diseases of organic systems 10.3. Autopsy 10.4. Clinical pathology

	10.5. Immunohistochemistry 10.6. Molecular pathology
11. PATHOLOGICAL PHYSIOLOGY	11.1. General pathophysiology 11.2. Special pathophysiology 11.3. Pathophysiology of malignant transformation and growth
12. EPIDEMIOLOGY AND BIOSTATISTICS	12.1. General epidemiology 12.2. Special epidemiology 12.3. Clinical epidemiology
13. PHARMACOLOGY AND TOXICOLOGY	13.1. Clinical pharmacology 13.2. General pharmacology 13.3. Pharmacotherapy 13.4. Toxicology of drugs 13.5. Rational prescribing of medicines
14. MEDICAL MICROBIOLOGY	14.1. General microbiology 14.2. Bacteriology 14.3. Rickettsia 14.4. Virology 14.5. Parasitology 14.6. Clinical microbiology
15. INTERNAL MEDICINE	15.1. Basics of clinical practice 15.2. Clinical propaedeutics 15.3. Pulmonology with pneumophthisiology and thoracic oncology 15.4. Cardiology 15.5. Angiology 15.6. Gastroenterohepatology 15.7. Nephrology with hemodialysis 15.8. Hematology 15.9. Endocrinology with diabetology 15.10. Rheumatology 15.11. Endoscopic diagnostic and therapeutic methods in internal medicine
16. DERMATOVENEROLOGY	16.1. Dermatoses of known etiology 16.2. Dermatoses of unknown etiology 16.3. Allergic skin diseases 16.4. Skin tumors 16.5. Sexually transmitted diseases
17.INFECTIVE DISEASES	17.1. General infectology 17.2. Bacterial infectious diseases 17.3. Viral infections 17.4. Rickettsia 17.5. Zoonoses 17.6. Parasitic diseases of man
18. SURGERY	18.1. General surgery 18.2. Orthopedics 18.3. Traumatology 18.4. Urology 18.5. First aid 18.6. Transplantation of tissues and organs 18.7. Anesthesia, analgesia and resuscitation 18.8. Urgent conditions in surgery

	18.9. Thoracic surgery 18.10. Abdominal surgery 18.11. Plastic surgery 18.12. Neurosurgery 18.13. Cardiosurgery 18.14. Vascular surgery 18.15. Surgery in war conditions and mass suffering
19. SOCIAL MEDICINE	19.1. Social medicine 19.2. Organization and economics of healthcare 19.3. Legal aspects of medical practice
20. NEUROLOGY	20.1. General neurological syndromes 20.2. Regional syndromes of the CNS 20.3. Neuromuscular diseases 20.4. Inflammatory disorders of the nervous system 20.5. Neurology of organic mental disorders
21. PSYCHIATRY AND MEDICAL PSYCHOLOGY	21.1. Acute and chronic brain syndrome 21.2. mental disorders, 21.3. Neuroses 21.4. Psychosomatic disorders 21.5. Personality disorders 21.6. Psychiatry in the community 21.7. Child and adolescent psychiatry 21.8. Forensic psychiatry 21.9. Medical psychology
22. OTORHINOLARYNGOLOGY	22.1. Otorhinolaryngology 22.2. Audiology
23. OPHTHALMOLOGY	23.1. Eye diseases 23.2. Disorders of refraction and optics 23.3 Tumors of the eye
24. PEDIATRICS	24.1. Neonatal medicine 24.2. Nutrition of infants 24.3. Nephrology and hemodialysis in pediatrics 24.4. Cardiology in pediatrics 24.5. Respiratory diseases in pediatric age 24.6. Rheumatology in pediatrics 24.7. Hematology and oncology in pediatrics 24.8.Endocrinological diseases of childhood 24.9. Gastroentrohepatology of children's age
25. GYNECOLOGY AND OBSTETRICS	25.1. General gynecology 25.2. Injuries and diseases of the female genital organs 25.3. Tumors of female genital organs 25.4. Physiology of pregnancy 25.5. Normal birth 25.6. Pathology of pregnancy 25.7. Obstetric operations
26. OCCUPATIONAL MEDICINE	26.1. Medicine at the workplace 26.2. Occupational diseases 26.3. Assessment of work ability

27. FAMILY MEDICINE	27.1. Organization of family health care 27.2. Medical documentation in family medicine 27.3. Medical guides in practice 27.4. Palliative care 27.5. Sociopathies in family medicine
28. ONCOLOGY	28.1. Medical oncology 28.2. Clinical oncology 28.3. Radiotherapy in oncology 28.4. Treatment with isotopes
29. FORENSIC MEDICINE	29.1. Bodily injuries and violent death, 29.2. Thanatology 29.3. Identification 29.4. Special forensic pathology 29.5. Attack, suicide, murder 29.6. DNA analysis in forensic medicine 29.7. Forensic toxicology
30. RADIOLOGY	30.1. Imaging methods in radiology 30.2. Contrast radiological methods 30.3. Ultrasound diagnostics 30.4. Diagnostics in the electromagnetic field 30.5. Isotopic techniques in diagnostics and therapy 30.6 Interventional diagnostic radiotherapy 30.7 Interventional therapeutic radiology
DENTISTRY	
1. PRECLINICAL DENTISTRY	1.1. Introduction to dentistry with history and ethics 1.2. Introduction to the science of dental materials 1.3. Dental propaedeutics and diagnostic protocol 1.4. Dental radiology 1.5. Dental informatics and computers 1.6. Sociology of dentistry 1.7. Basics of dental practice 1,2,3 (multidisciplinary)
2. TEETH MORPHOLOGY WITH DENTAL ANTHROPOLOGY AND FORENSICS	2.1. Dental morphology with dental anthropology 2.2. Forensic dentistry
3. DENTAL PATHOLOGY WITH ENDODONTICS	3.1. Cariesology 3.2. Restorative dentistry and endodontics 1,2,3,4,5,6,7 3.3. Specific approach in endodontic therapy
4. DENTAL PROSTHETICS	4.1. Laboratory fixed prosthetics 4.2. Preclinical fixed prosthetics 2 4.3. Clinical fixed prosthetics1,2 4.4. Preclinical mobile prosthetics 1,2 4.5. Occlusion and function 4.6. Mobile prosthetics 1,2,3,4 4.7. Gnathology 4.8. Materials in dental prosthetics

	4.9. Trends in dental prosthetics
5. ORAL MEDICINE	5.1. Oral medicine, 1, 2, 3 4, 5.2. Oral pathohistology with cytology. 5.3. Pharmacological protocols in oral medicine and periodontology 5.4. Oral hygiene.
6. PREVENTIVE DENTISTRY	6.1. Preventive dentistry. 6.2. Dental protection of pregnant women.
7. PEDODONTICS	7.1. Pedodontics 1,2,3 7.2. Dental treatment of children with special needs
8. ORTHODONTICS	8.1. Orthodontics 1,2,3,4 8.2. Teleroentgen analysis
9. ORAL SURGERY AND MAXILLOFACIAL SURGERY	9.1. Preclinical oral surgery 9.2. Oral surgery 1,2,3,4 9.3. Traumatic injuries of the dentoalveolar complex 9.4. Maxillofacial surgery 1,2
10. DENTAL IMPLANTOLOGY	10.1. Dental implantology 1,2
PHARMACY	
1. GENERAL PHARMACEUTICAL SCIENCES	1.1. Pharmaceutical informatics 1.2. Pharmaceutical statistics 1.3. Methodology of scientific work 1.4. History of pharmacy
2. PHARMACEUTICAL CHEMISTRY	2.1. Pharmaceutical chemistry
3. PHARMACOGNOSY	3.1. Pharmacognosy and drug chemistry
4. PHARMACEUTICAL ANALYSIS	4.1. Drug control 4.2. Toxicological chemistry 4.3. Bromatology
5. PHARMACEUTICAL TECHNOLOGY	5.1. Drug formulation 5.2. Industrial pharmacy
6. CLINICAL PHARMACY	6.1. Clinical pharmacy
7. PHARMACOKINETICS	7.1. Pharmacokinetics
FACULTY OF HEALTH STUDIES	
1. PROTECTION AND CARE OF INDIVIDUAL HEALTH	1.1. Protection of health and individual care 1.2. Protection and care of reproductive health 1.3. Protection and care of children 1.4. Protection and care of adults 1.5. Protection and care of the elderly 1.6. Protection and care in emergency situations 1.7. Pain, palliative and terminal care 1.8. Organization of individual protection and care 1.9. Forensic, legal and ethical aspect of protection and care of the individual
2. FAMILY HEALTH PROTECTION AND CARE	2.1. Health care and family care 2.2. Psychological/social protection and family care

	2.3. Organization of family protection and care 2.4. Legislative aspects of family protection and care
3. PROTECTION AND HEALTH CARE OF THE COMMUNITY	3.1. Health and community health protection 3.2. Evaluation of health needs in the community 3.3. Intervention programs in the community (CVD, Malignant, Injuries, Mental, Habits...) 3.4. PHC in the community 3.5. The community as a partner and as a client in health care 3.6. Health research and community health protection
4. KINESIOLOGY AND KINESITHERAPY	4.1. Scientific theories and methodologies in movement therapy 4.2. Manual massage
5. REHABILITATION	5.1. Scientific theories and methodologies in physical therapy 5.2. Rehabilitation in childhood (Cerebral palsy) 5.3. Production and application of orthopedic aids in the rehabilitation of the disabled 5.4. Rehabilitation of patients with paraplegia and quadriplegia 5.5. Rehabilitation of patients with hemiplegia and hemiparesis 5.6. Alternative medical procedures and methods (Manual therapy; Acupuncture,) 5.7. Application of information systems in Physical Therapy and Rehabilitation.
6. OCCUPATION THERAPY	6.1. Occupational therapy, 6.2. Professional rehabilitation
7. ENVIRONMENTAL HEALTH	7.1. Health ecology - physical and chemical effects of the environment. 7.2. Applied epidemiology in environmental health 7.3. Hygiene of the work environment with work physiology and pathology 7.4. Planning and designing of public and industrial facilities 7.5. Environmental risk modeling and environmental engineering 7.6. Hygiene of health institutions; kindergartens, schools, military facilities. 7.7. Ecology of pesticides and methods and peculiarities of DDDD 7.8. Health projects in the field of environmental health and human ecology 7.9. Hygienic - anti-epidemic work in changed conditions 7.10. Epidemiology of hospital infections 7.11. Sanitary and medical importance of

	toxicology and solving emergency situations 7.12. Carcinogens and allergens 7.13. Protection in laboratory conditions and fire protection 7.14. Mental hygiene in an ecological environment 7.15. Tourism hygiene
8. MANAGEMENT OF WATER, FOOD AND NUTRITION	8.1. Production and storage of foodstuffs
9. SANITARY INSPECTION AND METHODS OF SANITARY SUPERVISION	9.1. Sanitary microbiology and virology 9.2. Sanitary inspection and administrative procedure 9.3. Mastering legal regulations and administrative procedures
10. HEALTH CARE SYSTEMS	10.1. Concepts and categories of health, protection and improvement of health and the health care system 10.2. Introduction to health systems - definitions, approaches, classifications, structures, components 10.3. System theory and its application in health, medicine, health care and healthcare 10.4. Approaches, methods and techniques of analysis and construction of health systems 10.5. Health resources, their mobilization, organization and use 10.6. Health policy: approaches, methods and instruments of analysis, formulation and application 10.7. Planning for health and in healthcare: approaches, types, methods, techniques and instruments 10.8. Health care programming: linear, vertical, horizontal and intervention programs 10.9. Approaches, methods, techniques and instruments of health and health care system evaluation 10.10. Institutionalization of the health system: standardization, (de)regulation and legislation 10.11. Subject, methods and values of comparative analyzes and studies of health systems
11. HEALTH MANAGEMENT	11.1. Introduction to health management as a scientific and practical field «sui generis» 11.2. Theories, systems, methods and styles of management and leadership. 11.3. Strategic and operational management: methods and techniques of decision-making in healthcare 11.4. Management in primary health care (personal, family, collective) 11.5. Change management: reform processes

	and structural adjustment in healthcare 11.6. Project management - management of project, program and development cycles 11.7. Management of work processes, technologies and quality in healthcare institutions 11.8. Management of health resources (except human and financial resources)
12. HEALTH ECONOMICS AND IT FOR HEALTH MANAGERS	12.1. Health statistics, health statistical system and statistical research programs 12.2. Information systems and information and communication systems in healthcare 12.3. Healthcare Decision and Management Information Systems (HMIS) 12.4. Economic analyzes and studies in healthcare (analysis of costs, effectiveness, efficiency, profit) 12.5. Health care financing (sources, systems, methods, mechanisms and instruments)
13. RADIOLOGICAL TECHNOLOGIES IN RADIODIAGNOSTICS	13.1. Introduction to radiological technologies 13.2. Radiological apparatus; 13.3. Recording techniques I and II; 13.4. Special scans of the bones of the head and torso; 13.5. i.v. urography and I.v. cholegraphy; 13.6. Conventional radiological methods; 13.7. Quality control of work in Radiodiagnostics 13.8. Ultrasound technique - US; 13.9. Computed tomography – CT; 13.10. Digital subtraction angiography - DSA; 13.11. Magnetic resonance – MRI; 13.12. Application of informatics in radiodiagnostics.
14. RADIOLOGICAL TECHNOLOGIES IN NUCLEAR MEDICINE	
15. RADIOLOGICAL TECHNOLOGIES IN RADIOTHERAPY	15.1. Control of the quality of work in Radiotherapy 15.2. Application of informatics in Radiotherapy
16. CLINICAL-CHEMICAL-BIOCHEMICAL LABORATORY TECHNOLOGIES	16.1. Instrumentation with radiation physics 16.2. Clinical course I - mandatory practice in a biochemical laboratory 16.3. Urgent conditions in laboratory practice 16.4. Methods of clinical chemistry 16.5. Biomedical methodology 16.6. Diagnostics of malignant tumors
17. MORPHOLOGICAL TECHNOLOGIES IN CYTODIAGNOSTICS AND HEMATOLOGY	17.1. Methods in morphology 17.2. Clinical laboratory diagnostics 17.3. Morphology in diagnostics 17.4. Pathohistological techniques 17.5. Demonstration of coagulopathies

	17.6. Hemophilia
18. LABORATORY EXPERIMENTAL TECHNOLOGIES	18.1. Robotics in the laboratory 18.2. Experimental laboratory technologies 18.3. Laboratory animals in science 18.4. Station dynamics 18.5. Methods of molecular biology 18.6 Laboratory technologies in immunology 18.7 Laboratory technologies in hematology 18.8 Methods in cytodiagnosis
19. LABORATORY TECHNOLOGIES IN MICROBIOLOGY SERVICE	19.1. Safety at work in laboratories 19.2. Basics of microbiology 19.3. Clinical course II - mandatory practice in the microbiological laboratory 19.4. Methods in microbiology 19.5. Serology 19.6. Electron microscopy 19.7. Evidence of fungi 19.8. Proof of virus
20. RESEARCH IN THE HEALTH CARE SYSTEM	20.1. Introduction to the system of research in the health care system and for health care 20.2. General research methodology in health sciences and the health care system 20.3. Quantitative research (epidemiological and statistical methods and techniques) 20.4. Qualitative research (social science methods, behavioral, observational) 20.5. Systemic and evaluation research in healthcare 20.6. Operational and model (simulation) research in healthcare, 20.7. Historical and empirical research in healthcare 20.8. Action and development research and education in healthcare 20.9. Combined research (methods of triangulation, regression analysis, meta-analysis) 20.10. Management research, for management and health research management
HOME FIELDS AND SUBJECTS OF SOCIAL SCIENCES - FACULTY OF SOCIAL SCIENCES	
BUSINESS ECONOMICS - MANAGEMENT - BANKING - FACULTY OF ECONOMICS	
1. GENERAL ECONOMICS - FACULTY OF ECONOMICS	1.1. Labor economics 1.2. Philosophy of economics 1.3. Industrial sociology 1.4. Institutional economics 1.5. Business ethics 1.6. Sociology for economists 1.7. Introduction to economics

2. ACCOUNTING	2.1. Financial accounting 2.2. Managerial accounting 2.3. Accounting 2.4. Accounting of financial institutions 2.5. Accounting of non-profit organizations 2.6. Accounting of trade organizations 2.7. Compliance audit 2.8. Business audit 2.9. Performance audit 2.10. Theory and analysis of the balance sheet 2.11. Cost accounting
3. MARKETING	3.1. Business to business marketing 3.2. Direct marketing and internet marketing 3.3. Marketing research 3.4. Marketing 3.5. Marketing communication 3.6. Marketing management 3.7. Marketing of non-profit organizations 3.8. Small business marketing 3.9. Marketing services 3.10. International marketing 3.11. Service management 3.12. Public relations and corporate communication 3.13. Consumer behavior 3.14. Sales management 3.15. Strategic brand management 3.16. Management of trading companies
4. MACROECONOMICS	4.1. Macroeconomics 4.2. Macroeconomic policies
5. MICROECONOMY	5.1. Economics of Enterprise 5.2. Managerial economics 5.3. Microeconomics 5.4. Pricing policy
6. FINANCE AND FINANCIAL POLICY	6.1. Financial markets and institutions 6.2. Financial management 6.3. Financial reporting 6.4. Capital market instruments 6.5. Investments 6.6. Public finances 6.7. Comparative tax systems 6.8. International Finance 6.9. International financial management 6.10. International payment transactions 6.11. Monetary analysis 6.12. Monetary and fiscal policy of the EU 6.13. Monetary finance 6.14. Monetary and public finance 6.15. Business finance 6.16. Systems of national accounts 6.17. Financial risk management 6.18 Public Debt Management

	6.19. Company valuation
7. MANAGEMENT AND ORGANIZATION	7.1. Customer Relationship Management 7.2. Crisis management 7.3. Leadership 7.4. International management 7.5. Management 7.6. Human resources management 7.7. Management of small and medium enterprises 7.8. Real estate management 7.9. Operational management 7.10. Organization 7.11. Organizational behavior 7.12. Portfolio management 7.13. Business decision making 7.14. Psychology in management 7.15. Development of managerial skills 7.16. Modern techniques in management 7.17. Strategic management 7.18. Strategic management and organizational structure 7.19. Theory of organization 7.20. Total Quality Management 7.21. Supply chain management - SCM 7.22. Production management 7.23. Project management 7.24. Change Management
8. INTERNATIONAL ECONOMY	8.1. Economy of Europe 8.2. The economics of globalization 8.3. Economic policies of the EU 8.4. European institutions 8.5. European business 8.6. Financial systems in the EU 8.7. Institutions of the global economy 8.8. International market research 8.9. International economy 8.10. International competitiveness of countries 8.11. International trade and the WTO 8.12. Scientific and technological policies of the EU 8.13. Political economy of globalization 8.14. Foreign trade business 8.15. World economic development 8.16. Theory and policy of international exchange 8.17. Transnational corporations and globalization
9. ECONOMIC THEORY AND POLICY	9.1. Economy of Bosnia and Herzegovina 9.2. Environmental economics 9.3. Economics of public social activities 9.4. Economics of the public sector

	9.5. Economics of sustainable development 9.6. Economics of economic infrastructure 9.7. Economics of technological change 9.8. Economic demography 9.9. Economic doctrines 9.10. Economic development 9.11. Regionalism and globalization 9.12. Regional development 9.13. Modern economic systems 9.14. Theories and policies of economic development 9.15. Transition and integration
10. QUANTITATIVE ECONOMICS	10.1. Demographic statistics 10.2. Econometrics 10.3. Economic analysis 10.4. Economic models and analyses 10.5. Financial and actuarial mathematics 10.6. Quality control 10.7. Quantitative methods in economics and management 10.8. Quantitative methods in marketing 10.9. Macroeconomic analysis 10.10. Intersectoral analysis 10.11. Multivariate analysis 10.12. Operational research 10.13. Business statistics 10.14. Software for quantitative analysis 10.15. Statistics in economics and management 10.16. Theory of experiments 10.17. Theory and application of patterns
11. BANKING AND INSURANCE	11.1. Banking management 11.2. Banking 11.3. Islamic banking and finance 11.4. Insurance 11.5. Bank accounting 11.6. Insurance accounting
12. ECONOMICS OF ENTREPRENEURSHIP	12.1. Management of start-up companies 12.2. Entrepreneurship
13. SYSTEM INFORMATION MANAGEMENT	13.1. Digital economy 13.2. Social, legal and ethical aspects of IT 13.3. E-business 13.4. E - government 13.5. The economics of IT 13.6. Expert systems in business 13.7. Competitiveness and IT 13.8. Marketing information systems 13.9. Management of information technologies 13.10. Management information systems 13.11. Business Informatics 13.12. Decision support systems 13.13. Strategic IS 13.14. Theory of systems and information

14. TOURISM	14.1. Research of tourist markets 14.2. Marketing in tourism and catering 14.3. International tourism 14.4. Managerial accounting in tourism 14.5. Management in the hotel industry 14.6. Business of travel agencies 14.7. Business of catering companies 14.8. Promotion in tourism 14.9. Development and planning in tourism 14.10. Tourism and globalization 14.11. Tour operators and world tourism 14.12. Management of distribution channels in tourism 14.13. Human resource management in tourism 14.14. Ecology and tourism 14.15. Basics of tourism
15. DEVELOPMENT OF BUSINESS INFORMATION SYSTEMS	15.1. Business informatics 15.2. IS analysis and design 15.3. ERP systems 15.4. Business application of computer networks 15.5. Development of applications for e-business 15.6. Security and protection of IS 15.7. System and network administration 15.8. IS management and development
GENERAL LAW -FACULTY OF LAW	
1. HISTORY OF LAW AND THE STATE	1.1. State legal development of Bosnia and Herzegovina 1.2. Bosnian comparative law 1.3. Comparative legal history 1.4. Modern legal codifications
2. ROMAN LAW	2.1. Institutions of Roman law
3. THEORY OF LAW AND THE STATE	3.1. Introduction to the science of the state and law 3.2. The structure of law 3.3. Philosophy of law 3.4. Methodology of social and legal sciences
4. CONSTITUTIONAL LAW	4.1. Constitutional law I and II 4.2. Economically real systems and politics
5. CRIMINAL LAW AND CRIMINAL PROCEDURE LAW	5.1. Criminal law I and II 5.2. Criminal procedural law I and II 5.3. Penology 5.4. International criminal law
6. CIVIL LAW AND CIVIL PROCEDURE LAW	6.1. Introduction to civil law 6.2. Real law 6.3. Inheritance right 6.4. Obligation law - general part 6.5. Obligation law - special part 6.6. Fundamentals of intellectual property

	rights 6.7. Civil procedural law 6.8. Civil non-litigation executive procedural law
7. PRIVATE INTERNATIONAL LAW	7.1. Private international law 7.2. Basics of European private law 7.3. Procedural international private law 7.4. Basics of European private law
8. LABOR AND SOCIAL LAW	8.1. Labor law 8.2. Social law
9. FAMILY LAW	9.1. Parental and guardianship rights 9.2. Marriage law
10. INTERNATIONAL LAW	10.1. International public law I 10.2. International public law II
11. FINANCIAL LAW	11.1. Finance and financial law 11.2. International financial law
12. ADMINISTRATIVE LAW AND ADMINISTRATION	12.1. Administrative law I 12.2. Administrative law II
13. ECONOMIC AND COMMERCIAL LAW AND COMPANY LAW	13.1. Law of business companies 13.2. Contract business law
14. SOCIOLOGICAL DIMENSIONS OF RIGHTS	14.1. Sociology with sociology of law
15. COMMUNITY LAW/LAW OF THE EUROPEAN UNION	
16. LEGAL AND ECONOMIC SCIENCES	16.1. Economic foundations of the state and law 16.2. Commercial legal systems and politics
17. COMPARATIVE LAW	
HOME FIELDS AND SUBJECTS OF TECHNICAL SCIENCES - FACULTY OF TECHNICAL SCIENCES	
ARCHITECTURE-FACULTY OF ARCHITECTURE	
1. SPATIAL AND GRAPHIC DISPLAY	1.1. Free drawing 1. 1.2. Free drawing 2. 1.3. Free drawing 3. 1.4. Free drawing 4. 1.5. Draft geometry 1. 1.6. Draft geometry 2. 1.7. Perspective
2. THEORY AND HISTORY OF ARCHITECTURE	2.1. Theory and history of architecture 1. 2.2. Theory and history of architecture 2. 2.3. Theory and history of architecture 3. 2.4. Theory and history of architecture 4. 2.5. Basics of restoration 2.6. Theory and technique of restoration 1. 2.7. Theory and technique of restoration 2. 2.8. Traditional materials and constructions 2.9. Interpolation of contemporary structures and contents into a historical whole 2.10. Research analysis and valorization of heritage 2.11. Research and documentation of historical architecture

	2.12. Possibility of rehabilitation, revitalization of medieval fortifications 2.13. A critical review of the current co-conservation restoration practice 2.14. Integration of old and new in the restoration process 2.15. Revitalization of industrial buildings and ensembles 2.16. Revitalization of rural construction
3. ARCHITECTURAL DESIGN	3.1. Basics of design 1 3.2. Basics of design 2. 3.3. Basics of design 3. 3.4. Design theory and methodology 3.5. Projecting 1. 3.6. Projecting 2. 3.7. Projecting 3. 3.8. Projecting 4. 3.9. Projecting 5. 3.10. Projecting 6. 3.11. Projecting 7. 3.12. Projecting 8. 3.13. Projecting 9. 3.14. Projecting 10. 3.15. Architectural compositions 1. 3.16. Architectural compositions 2. 3.17. General theory of design – (design in the sense of design) 3.18. Interiors and design 1.– (design in terms of design) 3.19. Interiors and design 2.–(design in terms of design) 3.20. Interiors and design 3.– (design in the sense of design) 3.21. Architectural forms and materials 3.22. Buildings for culture 3.23. Health care facilities 3.24. Facilities for preschool children 3.25. Commercial facilities 3.26. Traffic terminals 3.27. Fairgrounds and exhibitions 3.28. House form and culture 3.29. Catering and entertainment facilities 3.30. Social housing facilities 3.31. National "ethno" interior styles 3.32. Styles and fashion 3.33. Administrative facilities 3.34. Architectural conceptualization and architectural design
4. URBANISM AND SPATIAL PLANNING	4.1. Urban planning 1. 4.2. Urban planning 2. 4.3. Urban planning 3. 4.4. Urban planning 4.

	4.5. Urban planning 5. 4.6. Urban planning 6. 4.7. Urban transformations 4.8. Urban planning 4.9. Spatial planning 4.10. Regulatory Plan 4.11. Transformation and future organization of rural settlements 4.12. Landscape architecture 4.13. City centers 4.14. Axis of development – spatial planning theory 4.15. Spatial organization of the city - concept 4.16. Urban transformations for the XXI century 4.17. Macro-urban centers 4.18. Recreation (macro-urban centers 4.19. Environmental consequences of urban organization and sustainable development 4.20. Contextualism in urban design 4.21. Redesign of the urban parterre 4.22. Theory of urbanism 1. 4.23. Theory of urbanism 2.
5. ARCHITECTURAL CONSTRUCTIONS AND BUILDING TECHNOLOGY	5.1. Architectural constructions 1. 5.2. Architectural constructions 2. 5.3. Architectural constructions 3. 5.4. Architectural constructions 4. 5.5. Architectural constructions 5. (Constructive systems in architecture) 5.6. Architectural constructions 6. 5.7. Architectural physics 5.8. Construction technology design 1. 5.9. Organization design and construction planning 1. 5.10. Organization design and construction planning 2. (basic mandatory) 5.11. Installation design 1. 5.12. Installation design 2 5.13. Project management - project management 5.14. Construction technology design 2. 5.15. Industrialization of construction 1. 5.16. Industrialization of construction 2. 5.17. Execution of works below the ground surface 5.18. Installation of complex buildings 5.19. Bioclimatic architecture 5.20. Low energy building 5.21. Prefabrication of sanitary units 5.22. Uzanse about construction - engineering consulting 5.23. Architecture as an energy system

6. CONSTRUCTIVE SYSTEMS	6.1. Statics of architectural constructions 1. 6.2. Statics of architectural constructions 2. 6.3. Statics of architectural constructions 3. 6.4. Statics of architectural constructions 4. 6.5. Architectural concrete, wooden and metal constructions 1. 6.6. Architectural concrete, wooden and metal constructions 2. 6.7. Architectural concrete, wooden and metal constructions 3. 6.8. Wooden and metal constructions 4. 6.9. Coupling in wooden and metal structures 6.10. Glue as a joining agent in steel and aluminum constructions 6.11. Analysis and selection of the building's constructive system 6.12. The stability of classic contemporary linear constructions made of wood and metal 6.13. Multi-storey buildings with a steel structural system 6.14. Constructions in special purpose buildings 6.15. Prestressed concrete in high-rise construction
CIVIL ENGINEERING - FACULTY OF CIVIL ENGINEERING	
1. BUILDING MATERIALS	1.1. constuction materials 1.2. Construction materials II
2. BUILDING MECHANICS AND THEORY OF CONSTRUCTION	2.1. Material resistance I 2.2. Material resistance II 2.3. Structural statics I 2.4. Structural statics II 2.5. Plates and shells 2.6. Theory of elasticity and plasticity 2.7. Theory of constructions 2.8. Dynamics of structures 2.9.. Finite element method 2.10. Modeling of constructions
3. BUILDING CONSTRUCTIONS	3.1. Elements of high-rise construction 3.2. Construction physics 3.3. Wooden constructions 3.4. Concrete structures I 3.5. Steel structures 3.6. Bridges and tunnels 3.7. Concrete structures II 3.8. Designing buildings and constructions 3.9. Masonry constructions 3.10. Introduction to construction 3.11. Wooden structures 3.12. Metal structures 3.13. Concrete constructions 3.14. Security theory 3.15. Underground structures

	3.16. Aseismic construction 3.17. Bridge design 3.18. Composite structures 3.19. Lightweight construction 3.20. Examination of constructions 3.21. Basics of Civil Engineering (Geodesy) 3.22. Modeling of constructions 3.23. Prestressed structures 3.24. Durability and sustainability of structures
1. GEOLOGY	1.1. Engineering geology 1.2. Hydrology 2.
2. GEOTECHNIQUE	2.1. Soil and rock mechanics 2.2. Geotechnical engineering 2.3. Soil and rock mechanics II 2.4. Underground structures 2.5. Soil and rock reinforcement

1. THEORETICAL AND APPLIED HYDROMECHANICS	1.1. Hydromechanics 1.2. Hydraulics 1.3. Hydrodynamics of underground waters
2. HYDROLOGY AND WATER MANAGEMENT	2.1. Engineering hydrology 2.2. Hydrology 2.3. Stochastic hydrology 2.4. Water management systems 2.5. Land drainage 2.6. Land irrigation
3. HYDROTECHNICAL AND CONSTRUCTION AND PLANTS	3.1. Hydrotechnical buildings 3.2. River hydrotechnics 3.3. Waterways and ports 3.4. Hydropower
4. UTILITY AND PROCESS HYDROTECHNICS	4.1. Water supply and waste water removal 4.2. Water supply 4.3. Drainage of waste water 4.4. Water processing
5. ENVIRONMENTAL ENGINEERING	5.1. Environmental Protection 5.2. Water protection 5.3. Landfills

1. TRAFFIC SIGNS	1.1. Roads 1.2. Railways 1.3. Roads I 1.4. Railways I 1.5. Road junctions 1.6. The lower machine of traffic roads 1.7. Roads II 1.8. Railways II 1.9. Traffic planning and roads 1.10. Traffic tunnels 1.11. Design and construction of special traffic facilities
2. TECHNOLOGY AND ORGANIZATION OF	2.1. Construction technology

CONSTRUCTION	2.2. Construction organization 2.3. Organization and construction technology 2.4. Project management
3. ECONOMY IN CONSTRUCTION	3.1. Economy in construction and regulation 3.2. Project management - Management in construction 3.3. Traffic economy
GEODESY	
1. GEODESY	1.1. Applied geodesy I 1.2. Applied geodesy II 1.3. Applied geodesy III 1.4. Applied geodesy IV 1.5. The theory of equalization 1.6. Engineering geodesy 1.7. Engineering geodesy II 1.8. Basics of geoinformation 1.9. Geoinformation systems 1.10. Modeling of geoinformation 1.11. Geodesy (K+H+S) 1. 12. Geospatial databases 1.13 Spatial planning and environment 1.14. Real estate cadastre 1.15. Special equalization algorithms 1.16. Compaction 1.17. Deformation analysis 1.18. Optimization of geodetic networks 1.19. Advanced geospatial databases 1.20. Visualization of geospatial data 1.21. Project management 1.22. Analysis of geospatial data
2. CARTOGRAPHY AND PHOTOGRAMMETRY	2.1. Photogrammetry I 2.2. Photogrammetry II 2.3. Topographic models 2.4. Internet cartography 2.5. Multimedia cartography 2.6. Remote sensing 2.7. Laser scanning
3. HIGHER GEODESY	3.1. Geodetic reference frames 3.2. Satellite geodesy 3.3. State survey 3.4. Physical geodesy 3.5. Satellite navigation 3.6. Integrated navigation techniques 3.7. Satellite global and regional navigation services
ELECTRICAL ENGINEERING - FACULTY OF ELECTRICAL ENGINEERING	
1. AUTOMATICS	1.1 Linear automatic control systems 1.2 Modeling and simulation 1.3 Basics of the automatic control system 1.4 Automation and informatics practicum 1.5 Digital control systems 1.6 Automation Practicum

	1.7 Non-linear automatic control systems 1.8 Optimal management 1.9 Intelligent management 1.10. Digital control systems 1.11. Theory of automatic control 1.12. Automatic steering 1.13. Theory of optimal solutions
A 02 Subfield: INDUSTRIAL AND PROCESS AUTOMATION	2.1. Sensors and transducers 2.2. Actuators 2.3. Signal and system analysis 2.4. Distributed systems 2.5. Identification of dynamic systems 2.6. Designing automatic control systems 2.7. Sensors and Measurements (AB) 2.8. Signal and system analysis 2.9. Designing automatic control systems 2.10. Data acquisition and transmission 2.11. Special measurements
AE 03 Sub-area: ROBOTICS AND MECHATRONICS	3.1. Mechatronics 3.2. Robotics 1 3.3. Mobile robotics 3.4. Robotics and management of production systems
AE 04 Sub-area: PROTECTION AND MANAGEMENT OF ELECTRICAL ENERGY SYSTEMS	4.1. Structures and modes of operation of power systems 4.2. Protection and management of power systems 4.3. Power systems protection and management systems 4.4. Structures and modes of operation of power systems
AE 05 Subarea: SYSTEMS AND ECONOMIC ENGINEERING IN ELECTRICAL ENGINEERING	5.1. Principles of systems engineering 5.2. Principles of systems engineering

AE 01 Subarea: ELECTRONIC COMPONENTS AND SYSTEMS	1.1. Electronic systems and circuits 1.2. Analog electronics 1.3. Electrician 1.4. Basics of Optoelectronics 1.5. Practicum of electrical engineering and electronics 1.6. Electronics practice 1.7. Power electronics 1.8. Microelectronic components and modeling 1.9. Advanced electronic components and structures 1.10. Basics of electronics 1.11. Electronics (AE and TK) 1.12. Electronics (EE) 1.13. Electronics (RI) 1.14. Electronic circuits 1.15. Power electronics

AE 02 Subarea: DIGITAL STRUCTURES AND SIGNAL PROCESSING	2.1. Electronics (TK 2) 2.2. Digital electronics 2.3. Digital integrated circuits 2.4. Designing logical systems 2.5. Design of microprocessor systems 2.6. Digital signal processing 2.7. Digital computers and software organization I 2.8. Digital computers and software processing II 2.9. Practicum of microcomputer based systems 2.10. System-on-a-chip design 2.11. Impulse electronics - 2.12. Digital Electronics - 2.13. Designing digital systems I - 2.14. Designing digital systems II 2.15. Digital computers and software organization 2.16. Digital signal processing 2.17. Real-time computer systems
AE 03 Subdistrict: BIOMEDICAL ELECTRONICS	3.1. Biomedical signals and systems
EE 01 Subarea: ELECTRICAL SYSTEMS	1.1. Basics of power systems 1.2. Electric power systems 1.3. Practicum in power engineering 1 1.4.Maintenance of electrical systems 1.5. Practicum in power engineering 2 1.6. Analysis of power systems 1.7. Automated measurement and management 1.8. Electric power systems II 1.9. Numerical modeling 1.10. Quality of electricity 1.11. Methodology of engineering design 1.12. Operation and management of power systems 1.13. Industrial and distribution power systems 1.14. Planning of power systems 1.15. Electrical networks and systems 1.16. Computer methods in power engineering 1.17. Operation and management of power systems 1.18. Planning of power systems
EE 02 Subarea: ELECTRICAL TECHNOLOGY	2.1. Reliability of electrical elements and systems 2.2. RI probability and statistics 2.3. Electrotechnical materials 2.4. Components and technologies 2.5. High voltage technique 2.6. High voltage insulation technology 2.7. Overvoltages and insulation coordination

	2.8. New technologies in the power industry 2.9. Monitoring and maintenance of power systems 2.10. High voltage technique 2.11. Electrotechnical technology
EE 03 Subarea: INDUSTRIAL ELECTRICAL ENERGY	3.1. Basics of mechatronics 3.2. Electric machines 3.3. Electrical systems in transport 3.4. Power electronics 3.5. Electrical installations 3.6. Electric motor drives 3.7. Quality of electricity 3.8. Electric motor drives and dynamics of electric machines 3.9. Electrical machines II 3.10. Designing and automation of power plants 3.11. Electrical devices 1 3.12. Electric machines 1 3.13. Electric power plants 3.14. Electric motor drives 3.15. Electrical appliances 2 3.16. Electric machines 2
EE 04 Subarea: ENERGY AND THE ENVIRONMENT	4.1. Engineering economics 4.2. Electrical installations and safety measures 4.3. Electrothermal energy conversion 4.4. Production of electricity 4.5. Management of electricity consumption 4.6. Distributed energy production 4.7. Low voltage systems and use of electricity 4.8. Electric power systems and the environment 4.9. Energy economy 4.10. Electric power sources 4.11. Electric power system and environment
EE 05 Subarea: THEORETICAL ELECTRICAL ENGINEERING	5.1. Fundamentals of Electrical Engineering 5.2. Electric circuits 1 5.3. Electric circuits 2 5.4. Electrical measurements 5.5. Engineering Electromagnetics 5.6. Fundamentals of Electrical Engineering 5.7. Electrical measurements 5.8. Electromagnetics 5.9. Theory of electric circuits 5.10. Theory of electromagnetic fields
RI 01 Sub-area: ARCHITECTURE OF COMPUTER SYSTEMS AND NETWORKS	1.1. Logical design 1.2. Operating systems 1.3. Computer architectures 1.4. Administration of computer networks 1.5. Basics of computer networks 1.6. Parallel computer systems 1.7. Computer networks

	1.8. Program organization of computers and operating systems 1.9. Digital computers I 1.10. TI Digital Computers 1.11. Digital computers T2 1.12. Computer architectures 1.13. Computer communications and computer networks 1.14. Special chapters of computer systems
RI 02 Sub-area: COMPUTER INFORMATION SYSTEMS	2.1. Internet economy 2.2. Basics of databases 2.3. Basics of information systems 2.4. Information systems 2.5. Database 2.6. Practicum - business information systems 2.7. Innovations in the design and management of information systems 2.8. Decision support systems 2.9. Information system 2.10. Structures and databases 2.11. Information systems design 2.12. Special chapters of information systems
RI 03 Sub-area: COMPUTER SCIENCES AND INFORMATION PROCESSING	3.1. Basics of computer science 3.2. Programming techniques 3.3. Algorithms and data structures 3.4. System programming 3.5. Automata and formal languages 3.6. Security technologies 3.7. Basics of computer science 3.8. Algorithms 3.9. Programming and programming languages 3.10. System theory
RI 04 Sub-area: SOFTWARE ENGINEERING	4.1. Development of software solutions 4.2. Object-oriented analysis and design 4.3. Software reliability and quality control 4.4. Software engineering 4.5. Web technologies 4.6. Multimedia systems 4.7. Practicum - advanced web technologies 4.8. Advanced software engineering 4.9. Real-time computer systems 4.10 System software design
RI 05 Sub-area: ARTIFICIAL INTELLIGENCE AND BIOINFORMATICS	5.1. Computer graphics 5.2. Artificial intelligence 5.3. Digital graphics and animation 5.4. Methods and application of artificial intelligence 5.5. Data mining 5.6. Computer algorithms in bioinformatics 5.7. Computer graphics and human-computer communication - no classes are held 5.8. Artificial intelligence and expert systems

	5.9. Decision support systems
RI 06 Subdistrict: MATHEMATICAL METHODS IN COMPUTER SCIENCE AND INFORMATICS	6.1. Resource optimization 6.2. Operational research
RI 07 Subdistrict: TECHNICAL INFORMATICS AND PROCESS COMPUTING	7.1. CAD-CAM engineering 7.2. Digital signal processing 7.3. Engineering and control system technology 7.4. Computer modeling and simulation 7.5. Shape recognition and image processing 7.6. Special chapters of the real-time system 7.7. Special chapters of software systems
TK 01 Sub-area: THEORY OF TELECOMMUNICATIONS	1.1. Information theory and source coding 1.2. Signal theory 1.3. Statistical theory of signals 1.4. Channel coding 1.5. Telecommunication software engineering 1.6. Cryptography and system security 1.7. Advanced chapters in signal processing 1.8. Business models in telecommunications 1.9. Statistical theory of telecommunications is not taught 1.10. Theory of correction codes
TK 02 Sub-area: TELECOMMUNICATION TECHNIQUES	2.1. Theory of electromagnetic fields 2.2. Basics of optoelectronics 2.3. Antennas and wave propagation 2.4. Telecommunication techniques I 2.5. Telecommunication techniques II 2.6. Radio engineering 2.7. Microwave communication systems 2.8. Switching systems 2.9. Technologies of television 2.10. Simulation of the process in the telecommunications channel 2.11. Optical telecommunication systems 2.12. Simulation of processes in telecommunication networks 2.13. Image and video compression 2.14. System aspects in telecommunications 2.15. Advanced chapters in IP traffic analysis 2.16. Optoelectronics - no teaching 2.17. Basics of digital telecommunications - no teaching 2.18. Radio engineering 2.19. Switching systems 2.20. Antennas and wave propagation 2.21. Digital telecommunication systems I 2.22. Digital telecommunication systems II 2.23. Television technique 2.24. Microwave and satellite systems
TK 03 Sub-area: COMPUTER AND TELECOMMUNICATION NETWORKS	3.1. New generations of networks and services 3.2. Traffic theory 3.3. Communication protocols and networks

	3.4. Fundamentals of signaling protocols 3.5. Optimization algorithms and methods 3.6. Organization and basics of network management 3.7. Architectures of packet hubs 3.8. Quality of services in telecommunication networks 3.9. Network multimedia services 3.10. Software protocol design 3.11. Advanced telecommunications protocols and new generation networks 3.12. Computer communications and computer networks
TK 04 Sub-area: WIRELESS TELECOMMUNICATIONS	4.1. Mobile communications 4.2. Technologies of access wireless networks 4.3. Management of telecommunication networks 4.4. Systems and services of mobile telecommunications 4.5. Mobile radio communications
HOME FIELDS AND SUBJECTS OF HUMANITIES - FACULTY OF EDUCATIONAL SCIENCES	
PSYCHOLOGY - FACULTY OF PSYCHOLOGY	1. Introduction to psychology 2. Statistics in psychology I 3. Biological psychology I 4. History of psychology and psychological trends 5. Sensations and perception 6. Statistics in psychology II 7. Biological psychology II 8. Methodology of experimental psychology 9. Learning and memory 10. Intelligence 11. Introduction to developmental psychology 12. Methodology of non-experimental psychology 13. Psychometry I 14. Opinion and language 15. Motivation and emotions 16. Psychology of childhood and adolescence 17. Neuropsychology 18. Psychometry II 19. Personality psychology 20. Developmental psychology II 21. Social psychology II 22. Psychodiagnostics 23. Psychopathology 24. Epistemology 25. Clinical psychology 26. Educational psychology

	27. Psychology of work 28. Mental health 29. History of psychology 30. General psychology 31. Introduction to personality psychology 32. Psychology of adulthood and aging 33. Introduction to social psychology 34. Personality psychology 35. Social perception and attitudes 36. Introduction to educational psychology 37. Introduction to work psychology 38. Introduction to clinical psychology 39. Educational psychology: learning and teaching 40. Selection and development of personnel 41. Clinical assessment 42. Individual and social interactions 43. Psychopathology 44. Educational psychology: motivational and social processes 45. Motivation and work behavior 46. Introduction to counseling and psychotherapy 47. Psychotherapy directions 48. Ethics of research and professional activities of psychologists
STUDY OF THE TURKISH LANGUAGE	
LINGUISTICS OF THE TURKISH LANGUAGE	1.1 Turkish language I (phonetics, phonology, morphonology) 1.2 Introduction to linguistics 1.3. Turkish language I (basics of morphology) 1.4. Turkish II (Morphology) 1.5. Turkish II (Introduction to Syntax) 1.6. Turkish language IV (syntax of infinitive forms) 1.7. Turkish III (Syntax I) 1.8. Turkish Language (Pragmatics I) 1.9. Turkish III (Syntax II) 1.10. Turkish Language (Pragmatics II) 1.11. Introduction to the Ottoman language 1.12. Turkish IV (word formation) 1.13. Ottoman language I 1.14. Turkish V (Translation and Contrasting I) 1.15. Turkish V (Translation and Contrasting II) 1.16. Ottoman language II
PHILOLOGY OF THE TURKISH LANGUAGE	2.1. Introduction to the study of Turkology I 2.2. Introduction to the study of Turkology II 2.3. Introduction to Oriental Philology **2.4.** Islamic paleography

LITERARY HISTORY OF THE TURKISH LANGUAGE	3.1. Theory of literature 3.2. An introduction to Turkish literature 3.3. Modern Turkish Literature I 3.4. Modern Turkish literature II 3.5. An introduction to classical Ottoman literature 3.6. Classical Ottoman literature 3.7. Postclassic Ottoman literature 3.8. Literature in the Ottoman Turkish language in Bosnia and Herzegovina 3.9. Ottoman diplomacy
METHODOLOGY OF THE TURKISH LANGUAGE	4.1. Methodology I 4.2. Methodology II 4.3. Methodology and technique of scientific work
PHILOSOPHY	Oriental-Islamic civilization IV

GENERAL MEDICINE

CATALOG OF STUDY PROGRAMS

AMERICAN NORTHWEST UNIVERSITY

Name of the study program:	**General medicine**
Cycle:	Integrated studies of the 1st and 2nd cycle:
Kinds	University integrated undergraduate and postgraduate studies
scientific field:	Biomedicine and healthcare
scientific field:	Public health and health care Basic medical sciences Clinical medical sciences
academic title:	doctor of medicine (dr. med.) six years (XII semester)
EQF qualification level	7
Duration of the study program:	six years (XII semester)
ECTS:	360
Language:	B/C/S
Method of study:	Regular, rotating classes in the 12th semester
Holder of the study program:	American Northwest University of Health Science and Technology
Executor of the study program:	American Northwest University of Health Science and Technology/ Faculty of Health Science
Objectives of the study program:	• Achieving adequate knowledge among students about the sciences on which medicine is based and enabling them to distinguish and apply scientific methods, including principles of measuring biological functions, evaluating scientifically established facts, and analyzing data. • Attaining appropriate knowledge and connections among students on the structure, function, and behavior of healthy and sick individuals and the influence of natural and social environments on human health. • Equipping students to critically evaluate and apply procedures that enable a medical doctor to gain a complete picture of mental and physical illnesses, medicine from the standpoint of prevention, diagnosis, and treatment, as well as human reproduction. • Training students for critical assessment, screening, and rational application of both preventive measures and algorithms for diagnostic and therapeutic procedures in accordance with guidelines aimed at

	preventing disease, improving the patient's health condition, or achieving complete healing. • Equipping students for appropriate communication with members of the medical team, patients and their families, other healthcare and non-healthcare workers, regulatory bodies, and the public in accordance with applicable laws, and for behaving in accordance with ethical and deontological principles. • Raising awareness among students about the need for continuous lifelong learning in the field of general medicine, biomedicine, and healthcare in general.
Competencies of the study program:	• Acquiring basic theoretical knowledge and practical skills necessary for independent work in a medical practice, correct diagnosis and treatment determination, postgraduate education type, and collaboration with other healthcare professionals. • Professional and scientific education that enables a fundamental approach to creating scientific and professional opinions. • Understanding the process of scientific research work and the ability to critically evaluate old and new scientific knowledge. • Correct ethical and deontological attitudes. • Knowledge of proper use of medical information, respecting patient privacy, professional secrecy, empathy towards the patient, and acceptable communication with the patient. • Ability to communicate with the patient in a way that is understandable to them while respecting the patient's rights to participate in treatment decisions or refuse treatment. • Acquiring knowledge for further improvement and development of medicine, systematic thinking and structural approach to medical problems. • During education, acquiring a systematic way of thinking and a structured approach to medical problems, as well as knowledge of diagnostic algorithms and therapeutic decision-making. • Legal requirements for working in the medical profession, taking responsibility related to the title of medical doctor. • Knowledge of the functioning and organization, as well as financing of healthcare, the method of maintaining health records, and awareness of legal standards related to continuous theoretical and practical training. • Knowledge of how to approach psychiatric patients, considering all their specific needs and willingness to

	dedicate themselves to the medical profession and take responsibility for the physical, mental, and social well-being of the patient. • Knowledge of how to provide appropriate medical services to children. • Understanding of health promotion and disease prevention concepts. • Acquiring knowledge on how to collaborate with other healthcare professionals, achieve successful teamwork, teach colleagues, and develop their own teaching skills. • Acquiring knowledge of quality assurance measures and assessing their own competence in medicine and knowledge standards. • Being familiar with the harmful effects of ionizing radiation and protection methods. • Acquiring knowledge on pain anesthesia in different anatomical regions. • Acquiring basic medical knowledge to provide assistance in all emergency cases and master the diagnostic algorithm. • Acquiring knowledge for intervention in case of emergency medical conditions and implementation of preventive protective measures in medicine. • Willing and able to take responsibility and make necessary medical decisions. • Ready and capable of establishing successful teamwork and skill management. • Ready to consider changes in the socio-economic context of treatment. • Aware and prepared for lifelong continuous learning and improvement to maintain a high level of medical competence.
Learning outcomes of the study program:	• Explain and connect knowledge from basic natural and medical sciences and apply a scientific approach to solving professional medical problems. • Describe and connect knowledge about the normal structure and function of organs, organ systems, and the human body. • Describe and connect knowledge about molecular, biochemical, and cellular mechanisms important for maintaining homeostasis. • Explain disorders of organ structure and function, organ systems, and the body, and assess and argue the causal relationship between internal and external factors and individual behavior. • Describe different causes of disease (genetic, developmental, autoimmune, degenerative, toxic,

metabolic, microbiological, and neoplastic) and the mechanism of their action.

- Describe and connect knowledge about the pathohistological and clinical characteristics of diseases and use them in the diagnosis and treatment of diseases.
- Recognize the significance of scientific methods in basic, translational, and clinical research.
- Connect and apply knowledge of the clinical, laboratory, and imaging characteristics of diseases, as well as consider and conclude with a differential diagnosis.
- Assess the forms and content of interdisciplinary collaboration and implement best practices of multidisciplinary teams in healthcare at all levels, designing public health projects and campaigns, and in scientific research.
- Evaluate and apply protocols and algorithms for preventive, diagnostic, and therapeutic procedures according to current guidelines in disease treatment and health preservation.
- Assess and decide on the appropriateness and safety of therapy based on knowledge and evidence that ensure effective medical care, treatment outcomes, and health preservation.
- Evaluate, assess, and improve the principles of good medical practice and medical ethics and deontology.
- Assess and argue the importance of socioeconomic, psychological, ecological, and other non-biological factors that contribute to health preservation and/or disease development.
- Conduct a medical interview, complete a medical history and physical examination, and integrate obtained information into establishing a working and differential diagnosis.
- Develop an appropriate management plan, including the rational selection of laboratory and instrumental tests, interpretation of their results, and interventions for the diagnosis and treatment of diseases.
- Adapt the way of presenting and explaining medical information according to the level of health literacy of the patient and family members, with the patient's consent.
- Explain the content and obtain informed consent for diagnostic and therapeutic methods necessary for patient treatment procedures.
- Present and explain medical information about the disease/diagnosis to other healthcare and non-healthcare professionals, regulatory bodies, and the interested public, respecting the provisions of applicable laws.

	• Apply specific forms of digital personal communication with the patient to identify needs for therapeutic interventions, report side effects, and other medical needs. • Apply and develop educational and informational content and forms of telemedicine. • Use learning methods that enable postgraduate specialist, lifelong, and doctoral training in the field of biomedicine and healthcare
Opportunities after graduation:	After completing Medicine, the following opportunities are possible: • Take the professional/state exam and upon passing, practice as a medical doctor. • Continue studies in postgraduate, doctoral programs (3rd cycle), and/or postgraduate specialist studies. • Upon meeting other requirements, apply for a specialization program through a competitive process.

CURRICULUM AND PROGRAM OF STUDIES

Semester I	FIRST YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Teaching**	**Other**	**In total**	**ECTS**
OM-3.1-03	Anatomy I	M	75+45	150	270	12
OM-3.1-04	Histology and embryology I	M	60+45	84	189	7
OM-3.1-02	Sociology	M	60+45	84	189	7
OM-3.1-06	English language	M	15+15	24	54	2
OM-3.1-01	Psychology	M	15+15	24	54	2
OM-3.1-05	Computer science	E	15+15	24	54	2
	Total number of hours and ECTS points		420	390	810	30

Semester II	FIRST YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Teaching**	**Other**	**In total**	**ECTS**
OM-3.1-08	Anatomy II	M	75+45	150	270	12
OM-3.1-07	Histology and embryology II	M	60+45	84	189	7
OM-3.1-11	Human genetics	M	45+45	72	162	6
OM-3.1-10	Clinical practice I	M	30+45	60	135	5
OM-3.1-09	Biophysics	M	15+15	24	54	2
	Total number of hours and ECTS credits		420	390	810	30

Semester III	SECOND YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Teaching**	**Other**	**In total**	**ECTS**
OM-3.1-14	Medical biochemistry and chemistry I	O	60+45	111	216	8
OM-3.1-13	Medical physiology	O	75+45	177	297	11
OM-3.1-12	Microbiology and immunology	O	60+45	84	189	7
OM-3.1-15	Medical ethics	I	30+30	48	108	4
	Total number of hours and ECTS points		390	420	810	30

Semester IV	SECOND YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Teaching**	**Other**	**In total**	**ECTS**
OM-3.1-18	Medical biochemistry I chemistry II	O	60+45	84	189	7
OM-3.1-17	Medical physiology II	O	75+45	177	297	10
OM-3.1-16	Microbiology and immunology II	O	60+45	84	189	7
OM-3.1-19	Epidemiology	O	15+15	51	81	3
OM-3.1-20	Clinical practice II	O	15+15	24	54	2
	Total number of hours and ECTS points		390	420	810	30

Semester V	THIRD YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Teaching**	**Other**	**In total**	**ECTS**
OM-3.1-22	Pathological anatomy I	O	75+45	150	270	10
OM-3.1-25	Pathological physiology I	O	60+45	84	189	7
OM-3.1-23	Pharmacology with toxicology I	O	30+45	60	135	5
OM-3.1-26	Radiology and nuclear medicine I	O	30+30	48	108	4
OM-3.1-21	Medical statistics	O	15+15	24	54	2
OM-3.1-24	clinical biochemistry	I	15+15	24	54	2
	Total number of hours and ECTS points		420	390	810	30

Semester VI	THIRD YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Teaching**	**Other**	**In total**	**ECTS**
OM-3.1-28	Pathological anatomy II	O	60+45	84	189	7
OM-3.1-29	Pathological physiology II	O	45+45	72	162	6
OM-3.1-30	Pharmacology with toxicology II	O	30+45	60	135	5
OM-3.1-27	Radiology and nuclear medicine II	O	15+15	51	81	3
OM-3.1-31	Clinical propaedeutics (Internal Medicine 85	O	75+45	123	243	9

	hours, Pediatrics 20 hours)					
	Total number of hours and ECTS credits		420	390	810	30

Semester VII	FOURTH YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Teaching**	**Other**	**In total**	**ECTS**
OM-3.1-32	Internal medicine I	O	60+45	111	216	8
OM-3.1-33	Clinical microbiology	O	45+45	72	162	6
OM-3.1-34	Infectious diseases with special epidemiology I	O	30+30	48	108	4
OM-3.1-37	Dermatovenereology I	O	30+30	48	108	4
OM-3.1-35	Neurology I	O	30+30	48	108	4
OM-3.1-36	Psychiatry I	O	30+30	48	108	4
	Total number of hours and ECTS credits		435	375	810	30

Semester VIII	FOURTH YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Teaching**	**Other**	**In total**	**ECTS**
OM-3.1-44	Internal medicine II	O	75+45	150	270	10
OM-3.1-43	Infectious diseases with special epidemiology II	O	30+30	48	108	4
OM-3.1-42	Dermatovenereology II	O	30+30	48	108	4
OM-3.1-40	Neurology II	O	30+30	48	108	4
OM-3.1-39	Psychiatry II	O	30+30	48	108	4
OM-3.1-38	Physical medicine	O	15+15	24	54	2
OM-3.1-41	Diagnostic and therapeutic novelties in neurology	I	15+15	24	54	2
	Total number of hours and ECTS points		420	390	810	30

Semester IX	FIFTH YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Teaching**	**Other**	**In total**	**ECTS**
OM-3.1-48	Surgery I	O	75+45	257	378	14
OM-3.1-45	Pediatrics I	O	60+45	84	189	7
OM-3.1-47	Gynecology and obstetrics I	O	45+60	84	189	7
OM-3.1-46	Social medicine	O	15+15	25	54	2
	Total number of hours and ECTS points		360	450	810	30

Semester X	FIFTH YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Teaching**	**Other**	**In total**	**ECTS**

OM-3.1-50	Surgery II	O	75+45	257	378	14
OM-3.1-49	Pediatrics II	O	60+45	84	189	7
OM-3.1-51	Gynecology and obstetrics II	O	60+45	84	189	7
OM-3.1-52	Medical law	I	15+15	25	54	2
	Total number of hours and ECTS credits		360	450	810	30

Semester XI	**SIXTH YEAR**		**Number of hours of student workload**			
Code	**Subject name**	**Status**	**Teaching**	**Other**	**In total**	**ECTS**
OM-3.1-54	Ophthalmology	O	30+30	48	108	4
OM-3.1-53	Otorhinolaryngology with maxillofacial surgery	O	30+30	48	108	4
OM-3.1-55	Hygiene	O	30+45	60	135	5
OM-3.1-56	Forensic medicine	O	30+30	48	108	4
OM-3.1-57	Clinical pharmacology	O	30+45	60	135	5
OM-3.1-58	Family medicine	O	45+45	72	162	6
OM-3.1-59	Urgent conditions in pediatrics	I				2
	Total number of hours and ECTS points		435	375	810	30

Semestar XII	**SIXTH YEAR**		**Number of hours of student workload**			
Code	**Subject name**	**Status**	**Teaching**	**Other**	**In total**	**ECTS**
OM-3.1-60	Clinical internship	O		810	810	30
	Total number of hours and ECTS points		0	810	810	30

DENTISTRY

CATALOG OF STUDY PROGRAMS

Name of the study program:	**Dentistry**
Cycle:	Integrated study of the first and second cycles
Kinds	University integrated undergraduate and postgraduate studies
scientific field:	Biomedicine and healthcare
scientific field:	Dental medicine
academic title:	Doctor of dental medicine (dr. stom.)
EQF qualification level	7
Duration of the study program:	Six years (XII semester)
ECTS:	360
Jezik:	B/C/S
Way of studying:	Regular, rotating classes
Holder of the study program:	American Northwest University of Health Science and Technology
Executor of the study program:	American Northwest University of Health Science and Technology- Faculty of Medical Science
Objectives of the study program:	• To ensure that students acquire adequate knowledge in the sciences that form the basis of dental medicine, and to equip them to differentiate and apply scientific methods, including principles of measuring biological functions, assessing scientifically established facts, and analyzing data. • To ensure that students have adequate understanding and connection between the structure, functions, and behaviors of healthy and ill individuals and the influences of natural and social environments on human health, to the extent that these factors impact dental medicine. • To train students to recognize and analyze the structure and function of teeth, oral cavity, jaws, and related tissues, both in healthy and ill individuals, with a thorough understanding of clinical disciplines and methods that provide a clear picture of these • To train students for critical judgment, screening, and rational application of protocols and algorithms for preventive, diagnostic, and therapeutic procedures in accordance with guidelines aimed at preserving and improving oral health, as well as treating diseases of teeth, oral cavity, and related tissues

	• To train students for proper communication with members of the dental team, patients, and their families, as well as other healthcare and non-healthcare professionals, regulatory bodies, and the public in accordance with applicable laws, and to act in accordance with ethical and deontological principles • To raise awareness among students about the need for continuous lifelong learning in the field of dental medicine, biomedicine, and healthcare in general.
Competencies of the study program:	Upon completion of their studies, dental doctors acquire the following competencies: • Adequate knowledge of the science underlying dental medicine. • Adequate understanding of the structure, physiology, and behavior of healthy and ill individuals. • Understanding of the influences of natural and social environments on the overall health of individuals, especially regarding their impact on dental medicine. • Foundational theoretical knowledge and practical skills necessary for independent work in a dental practice, with a sense of teamwork and collaboration within the dental medicine team. • Ability to coordinate the work of colleagues in a dental practice and/or dental team, collaborate with other healthcare professionals, engage in successful multidisciplinary work, teach colleagues, and develop personal responsibilities and teaching skills. • Professional and scientific abilities that enable a fundamental approach to creating scientific and professional opinions. • Ability to take general medical and dental history using age and patient knowledge-appropriate communication, perform activities including prevention, diagnosis, and treatment of dental anomalies and diseases of teeth, oral cavity, and related tissues. • Correct ethical and deontological attitudes, knowledge of proper use of medical information, respect for patient privacy, professional secrecy, empathy towards patients, and appropriate communication with patients. • Familiarity with legal requirements and regulations necessary for work in the dental profession, assuming responsibilities related to the profession of dental doctor. • Understanding of the functioning and organization, financing of healthcare, the need and manner of maintaining health records, knowledge of legal standards related to continuous theoretical and practical improvement. • Knowledge of the importance of working according to

hygiene, asepsis, and antisepsis principles, necessary skills for their implementation, and awareness of the possibility of criminal liability for breaching principles of professional behavior.

- Able to differentiate the specificities of general dental medicine from narrower specialist branches of dental medicine, recognize specific health problems in dental healthcare, demonstrate attitudes towards patients of different age and socioeconomic groups, and be able to independently make clinical decisions and prescribe treatment.
- Knowledge of the types, selection, and application of local and block anesthesia and the ability to apply specific therapies within the field of dental medicine.
- Knowledge and skills in prescribing targeted pharmacotherapy based on established conditions.
- Readiness to improve clinical knowledge and skills, including communication skills with patients, their families, and team members in a dental practice.
- Ability to manage and plan in a dental practice, skills in documentation management, ability to assess recorded data and statistical information and manage quality control in a dental practice.
- Think critically and develop a structured approach to dental problems during studies, understanding diagnostic algorithms and making therapeutic decisions.
- Will be fully prepared for independent work and providing diagnostic and interventional procedures.
- Use sophisticated methods and treatment protocols based on the latest guidelines in dental medicine.
- Acquire knowledge of approaching psychiatric patients, respecting all their special needs, and being trained to provide appropriate dental advice and services to pregnant women and children.
- Acquire basic medical knowledge to recognize emergency situations and therapeutic procedures and the necessary knowledge to resolve them in order to provide assistance in all emergency cases.
- Train for emergency intervention in dental medicine and implement preventive protection measures in dental medicine.
- Acquire knowledge about orofacial pain and anesthesia.
- Be familiar with the harmful effects of ionizing radiation and protection methods.
- Acquire knowledge of quality assurance measures and gain knowledge for self-assessment of their competencies in the field of dental medicine and knowledge standards.

Learning outcomes of the study program:	• Explain and connect knowledge from basic natural and medical sciences and apply a scientific approach to solving professional medical problems. • Describe and connect knowledge about the normal structure and function of organs, organ systems, and the body. • Describe and connect knowledge about molecular, biochemical, and cellular mechanisms that are important for maintaining homeostasis at the cellular, organ system, and body levels. • Explain disorders in the structure and function of organs, organ systems, and the body, and assess and argue the causal relationship between the actions of internal and external factors and individual behavior. • Describe various causes of diseases (genetic, developmental, autoimmune, degenerative, toxic, metabolic, microbiological, and neoplastic) and the mechanism of their actions. • Describe and connect knowledge of the pathohistological and clinical characteristics of diseases of oral tissues and use them in diagnosing and treating diseases. • Connect and apply knowledge of the clinical, laboratory, and imaging characteristics of anomalies, injuries, and diseases of hard and soft dental tissues and oral mucosa, think through differential diagnosis, and draw conclusions. • Evaluate and apply protocols and algorithms of preventive and diagnostic procedures according to current guidelines for the purpose of preserving and enhancing oral health. • Evaluate and apply protocols and algorithms of therapeutic procedures according to current guidelines for treating oral diseases. • Assess the justification and safety of pharmacotherapy based on knowledge and evidence that ensure effective care in the treatment of oral diseases. • Assess the relationship between oral and systemic health of the patient and assess the need for functional forms and content of interdisciplinary collaboration with dental medicine and specialists in medicine. • Assess and analyze the significance of socio-economic, psychological, ecological, and other factors contributing to the maintenance of oral health and/or the development of diseases. • Adapt the way of communicating and explaining information according to the level of health literacy of patients and family members, and possess

	communication skills necessary for working in a dental team. • Assess, evaluate, and enhance the principles of good dental-medical practice, dental ethics, and deontology. • Explain the content and obtain informed consent for diagnostic and therapeutic methods necessary for patient treatment procedures. • Assess the risk of infection transmission and accordingly apply appropriate protective measures for members of the dental team and the patient for infection control purposes. • Present and explain medical information about diseases/diagnoses to other healthcare and non-healthcare professionals, regulatory bodies, and the interested public in compliance with applicable laws. • Recognize the importance of scientific methods in basic, translational, and clinical research. • Use learning methods that enable postgraduate specialist, lifelong, and doctoral training in the field of biomedicine and healthcare.
Opportunities after graduation:	After completing Dental Medicine, the following are possible: • Take the professional/state exam and upon passing, perform tasks within the scope of a doctor of dental medicine. • Continue studies in postgraduate and doctoral studies (3rd cycle) and/or postgraduate specialist studies. • After meeting other requirements, apply for a specialization through a competition process.

CURRICULUM AND PROGRAM

I semester	FIRST YEAR	Number of hours of student workload							
Subject code	Mandatory subject	**P**	**VJ**	**P**	**VJ**	**Working hours**	**T**	**Pr**	**ECTS**
MGST 111	Human anatomy 1	45	45			90			7
MGST 112	Histology and embryology 1	40	40			80			6
MGST 113	Medical biochemistry	60	30			90			7
MGST 114	Human genetics and cell biology	45	20			65			4
MGST 115	Tooth morphology with dental anthropology 1	40	20			60			5
	Elective subjects of the first semester	30	15			45			5

II semester	FIRST YEAR	Number of hours of student workload							
	Mandatory subjects of II semester	**P**	**Vj**	**P**	**Vj**	**Kontakt**	**T**	**Pr**	**ECTS**

						sati			
MGST 121	Human anatomy 2			45	45	90			7
MGST 122	Histology and embryology 2			40	40	80			4
MGST 123	Tooth morphology with dental anthropology 2			45	20	60			4
MGST 124	Patient communication skills			30	30	60			3
	Elective subjects of the second semester								
	Chosen subject			30	30	60			4
	Chosen subject			30	30	60			4
	Chosen subject			30	30	60			4
	In total					**900**			**60**

Subject code	Elective subjects of the first and second semesters	P	VJ	P	VJ	In total	T	Pr	ECTS
MGST 125	Introduction to dentistry with history and ethics			30	15	45			4
MGST 126	Health informatics			30	15	45			4
MGST 116	Introduction to experiment and laboratory	30	15			45			5
MGST 127	Biomechanics in dentistry			30	15	45			4
MGST 128	Biology of the dental organ			30	15	45			4
MGST 117	Hygiene and social medicine	15	30			45			5

III semester	**SECOND YEAR**	**Number of hours of student workload**							
Subject Code	**Mandatory subjects of the III semester**	**P**	**VJ**	**P**	**VJ**	**Kontakt sati**	**T**	**Pr**	**ECTS**
MGST 231	Human physiology 1	60	60			120			7
MGST 232	Microbiology and immunology	60	60			120			6
MGST 233	Public oral health	45	45			90			5
MGST 234	Dental materials	45	30			75			4
MGST 235	Cariesology	45	30			75			3
	Elective subjects of the III semester								
	Chosen subject					45			5

IV Semester	**SECOND YEAR**	**Number of hours of student workload**							
Šifa predmeta	**Mandatory subject of the IV semester**	P	VJ	P	VJ	Kontakt sati	T	Pr	ECTS
MGST 241	Human physiology 2			30	30	60			5
MGST 242	Pathology			60	30	90			8
MGST 243	Pathophysiology			60	30	90			8
MGST 244	Gnathology			45	30	75			6
	Elective subjects of the IV semester								
	Elective subject					45			3
	In total					**885**			**60**

Subject code	Elective subjects of the III semester	P	VJ	P	VJ	In total	T	Pr	ECTS
MGST 236	Dental propaedeutics and diagnostic protocol	30	15			45			5
MGST 237	Legal aspects of dental practice	30	15			45			5

Šifra predmeta	Elective subjects of the IV semester	P	VJ	P	VJ	In total	T	Pr	ECTS
MGST 245	Management in dentistry			30	15	45			5
MGST 246	Data processing in dentistry			30	15	45			5

V Semester	THIRD YEAR	Number of hours of student workload							
Subject code	**Mandatory subject of the V semester**	**P**	**VJ**	**P**	**VJ**	**Working hours**	**T**	**Pr**	**ECTS**
MGST 351	Pharmacology	45	30			75			4
MGST 352	Preclinical and laboratory mobile prosthetics	60	60			120			5
MGST 353	Internal medicine	45	60			105			8
MGST 354	Basics of radiology	45	30			75			4
MGST 355	Preclinical restorative dentistry 1	30	30			60			4
	Elective subjects of the V semester								
	Elective subject					45			5

VI Semester	THIRD YEAR	Number of hours of student workload							
	Mandatory subject of the V semester	**P**	**VJ**	**P**	**VJ**	**Working hours**	**T**	**Pr**	**ECTS**
MGST 361	Preclinical and laboratory fixed prosthetics			45	45	90			4
MGST 362	Preclinical restorative dentistry 2			60	30	120			4
MGST 353	Surgery			45	45	90			9
MGST 364	Dental anesthesiology			30	30	60	4	1	5
MGST 365	Dermatovenereology			15	15	30			3
	Elective subjects of the VI semester								
	Izborni predmet					45			5
	Ukupno					**895**			**60**

Subject code	**Elective subjects of the V semester**	P	VJ	P	VJ	In total	T	Pr	ECTS
MGST 356	Neurology	15	30			45			5
MGST 357	Public health	30	15			45			5
MGST 358	Oral hygiene	15	30			45			5

Subject code	**Elective subjects of the VI semester**	P	VJ	P	VJ	In total	T	Pr	ECTS
MGST 366	Complex restorations			15	30	45			5
MGST 367	Infectious diseases			30	15	45			5
MGST 368	Ophthalmology			30	15	45			5

VII i VIII semestar	FOURTH YEAR	Number of hours of student workload

Šifra predmeta	**Mandatory subjects of the VII I VIII semestra**	**P**	**VJ**	**P**	**VJ**	**Working hours**	**T**	**Pr**	**ECTS**
MGST 471/81	Oral surgery	40	45	40	45	180	8	2	10
MGST 472/82	Restorative dentistry	30	45	30	65	180	7	2	9
MGST 473/83	Mobile dental prosthetics	45	75	45	65	230	12	2	14
MGST 474/84	Oral medicine-pathology	15	30	30	30	105	7	2	9
MGST 475	Dental radiology	40	15			55			5
MGST 485	Preclinical endodontics (VIII semester)			30	30	60	4	1	5
	Elective subjects of the VII semester								
	Chosen subject					45			5
	Elective subjects of the VIII semester								
	Chosen subject					45			5
	In total					**900**			**60**

Šifra predmeta	Elective subjects of the VII semester	P	VJ	P	VJ	In total	T	Pr	ECTS
MGST 476	Prophylaxis of oral diseases	15	15			30			4
MGST 477	Orofacial pain	15	15			30			4
MGST 478	Dental protection of pregnant women	15	15			30			4

Šifra predmeta	Elective subjects of the VIII semester	P	VJ	P	VJ	In total	T	Pr	ECTS
MGST 486	Pediatrics			15	15	30			4
MGST 487	Modern methods of root canal treatment			15	15	30			4
MGST 488	Pharmacological protocols in oral medicine			15	15	30			4

IX I X Semestar	**FIFTH YEAR**	**Number of hours of student workload**							
Subject code	**Mandatory subjects of the IX i X semestra**	**P**	**VJ**	**P**	**VJ**	**Working hours**	**T**	**Pr**	**ECTS**
MGST 591/101	Preventive dentistry	30	30	30	30	120	6	2	8
MGST 592/102	Fixed dental prosthetics	30	75	15	75	195	10	2	12
MGST 593/103	Basics of periodontology	30	30	30	30	120	6	2	8
MGST 594/104	Preclinical endodontics	15	45	15	45	120	6	2	8
MGST 595	Preclinical orthodontics (IX semester)	30	30			60	3	1	4
MGST 596	Otorhinolaryngology (IX semester)	15	15			30			4
MGST 5105	Clinical orthodontics (X semester)			30	30	60	3	1	4
	Elective subjects of the IX semester								
	Chosen subject					30 (45)			4
	Chosen subject					30 (45)			4
	Elective subjects of the X semester								
	Chosen subject					30 (45)			4
	In total					**810 (855)**			**60**

Šifra predmeta	Elective subjects of the IX semester	P	VJ	P	VJ	In total	T	Pr	ECTS

MGST 597	Radiology in restorative dentistry and endodontics	15	15			30			4
MGST 598	Dental care for people with disabilities	15	30			45			4
MGST 599	Epidemiology of periodontal disease	15	15			30			4
MGST 5910	Clinical gnathology	15	30			45			4

Šifra predmeta	Elective subjects of the X semester	P	VJ	P	VJ	In total	T	Pr	ECTS
MGST 5106	Gerontostomatology			15	15	30			4
MGST 5107	Interceptive orthodontics			30	15	45			4
MGST 5108	Mouth and teeth injuries in children			15	15	30			4
MGST 5109	Temporomandibular disorders			15	15	30			4

XI i XII Semester	**SIXTH YEAR**	**Number of hours of student workload**							
Subject code	**Mandatory subjects of the XI i XII semester**	**P**	**VJ**	**P**	**VJ**	**Working hours**	**T**	**Pr**	**ECTS**
MGST 6111/121	Maxillofacial surgery	45	30	45	30	150	5	2	**7**
MGST 6112/122	Implantology	30	30	30	30	120	6	2	**8**
MGST 6113	Modern orthodontic therapy	30	15			45			**4**
MGST 6114	Clinical periodontology (XI semester)	30	30			60	4	1	**5**
MGST 6115	Pedodontics I (XI semester)	45	45			90			**4**
MGST 6116	Forensic medicine and dentistry (XI semester)	30	15			45	4	1	**5**
MGST 6123	BLOCK: Restorative dentistry - Dental prosthetics (XII semester)			30	30	165	7	1	**8**
MGST 6124	Pedodontics II (XII semester)			30	45	75	4	1	**5**
SFSOS1203	Final thesis (XII semester)								**10**
	Elective subjects of the XI semester								
	Optional subject 11.1					30 (45)			
	In total					**810 (825)**			**60**

Subject code	**Elective subjects of the XI semester**	P	VJ	P	VJ	In total	T	Pr	ECTS
MGST 6117	Reconstruction of endodontically treated teeth	15	30			45			4
MGST 6118	Emergency situations in dentistry	15	15			30			4
MGST 6119	Dental principles of treatment by systems	15	15			30			4
MGST 61110	Presurgical orthodontic therapy	30	15			45			4
MGST 61111	Endodontic therapy of teeth with complex morphology	15	15			30			4
MGST 61112	Fixed orthodontics	30	15			45			4
MGST 61113	Outpatient oral and maxillofacial surgery	15	30			45			4

PHARMACY

CATALOG OF STUDY PROGRAMS

AMERICAN NORTHWEST UNIVERSITY

Name of the study program:	**Pharmacy**
Cycle:	I cycle:
Kinds	University integrated undergraduate and postgraduate studies
scientific field:	Biomedicine and healthcare
scientific field:	Biomedical Sciences
academic title:	Master of pharmacy
EQF qualification level	7
Duration of the study program:	5 years (X semesters)
ECTS:	300
Language:	B/H/S
Method of study:	Regular, rotating classes in X semesters
Holder of the study program:	American Northwest University of Health Science and Technology/ American Northwest University for Health Sciences and Technologies
Executor of the study program:	American Northwest University of Health Science and Technology, Faculty of Health Sciences
Objectives of the study program	Training a student for: • Mastering the production of medicinal products, traditional medicinal products, dietary supplements, and medical devices; •Industrial production of medicinal products, traditional medicinal products, dietary supplements, and medical devices in accordance with good manufacturing practices; • Conducting storage and distribution of medicinal products, traditional medicinal products, dietary supplements, and medical devices; •Communicating with patients, healthcare professionals, and the public to inform, advise, and educate on medicines and rational pharmacotherapy; • Communicating with patients, healthcare professionals, and the public to inform, advise, and educate on the adverse effects of medicines; •Actively participating in professional teams with the ability to transfer acquired knowledge and experience to

	other team members; •Monitoring professional literature and engaging in continuous education; •Respecting the principles of professional ethics and working towards their affirmation with other team members
Competences of the study program:	During the course of education, the student will acquire abilities and skills related to: • Operational use of analytical methods and techniques • Handling of apparatus and equipment • Laboratory work • Qualitative and quantitative analysis in pharmacy • Safe handling of chemical and pharmaceutical materials • Risk prediction for pharmaceutical products procedures and practices • Preparation of master and galenic preparations • Monitoring and improving production processes • Evaluation and interpretation of data from laboratory tests • Recognition of basic symptoms and signs of diseases • Recognition of interactions, adverse, and toxic effects of medications • Oral and written communication with patients, physicians, other healthcare professionals, and the public • Preparation and dispensing of medications • Counseling and informing about the action and proper use of medications • Monitoring the course and outcomes of pharmacotherapy • Clinical, technical, scientific, and communication competencies in the field of laboratory diagnostics • Ability to work in diagnostic laboratories in the healthcare system, research laboratories in all areas of biomedicine, industrial laboratories, public health institutions, and academic institutions • Understanding human physiology and disease pathophysiology • Optimization and conducting of laboratory analyses necessary in various healthcare areas • Knowledge of sources of errors and variability of results in laboratory testing • Understanding the principles and application of good laboratory practice • Understanding the clinical significance of changes in laboratory test results
Learning outcomes of the study program:	• Expert knowledge in drug development: applying basic

knowledge of chemistry, biochemistry, molecular biology, physics, mathematics, and statistics to define, analyze, and propose procedures related to research, development, production, as well as analysis and quality control of medications.

- Expert knowledge in pharmacotherapy: applying specialist knowledge and skills in advising on pharmacotherapy and providing pharmaceutical care to patients, while respecting relevant legal regulations, healthcare policies, guidelines, and principles of pharmaceutical ethics and deontology.
- Personal skills (cognitive, psychomotor, social)
- Problem solving and decision making: demonstrating observational, analytical, and critical skills in developing and implementing solutions to practical problems in manufacturing and monitoring the safe and appropriate use of medications.
- Communication skills: ensuring positive interactions with patients, colleagues, other healthcare professionals, and the public through oral and written communication.
- Teamwork skills: making a significant contribution in various situations and environments such as interprofessional groups, pharmaceutical environment, and professional organizations and committees through professional and responsible behavior.
- Patient care in the pharmacy: providing appropriate patient care as part of the healthcare team, including informing and advising patients on the handling and proper use of medications, monitoring the course and outcomes of therapy; recognizing clinically significant drug interactions and acting to avoid them; actively participating in disease prevention and health preservation and public health initiatives.
- Production and control of pharmaceutical products: selecting and applying technological processes and analytical methods, as well as their innovations, and ensuring quality in the production process of medications by applying good laboratory and manufacturing practice rules, as well as relevant European and ISO directives.
- Organizational abilities: efficiently applying financial, marketing, and organizational principles essential for independent and teamwork; participating in and overseeing drug distribution; planning and implementing pharmaceutical care.
- Information skills: using information technologies and databases to improve professional knowledge and skills and self-education.

	• Research skills: critically evaluating and applying scientific knowledge and available data to advance the profession, solve problems, apply new technologies, and improve existing ones; preparing professional and scientific publications; designing and leading professional and scientific projects and programs. • Independence: demonstrating autonomy in organization, management, and leadership, creating strategies and business plans relevant to the profession. • Responsibility: applying legal and ethical principles of the profession in independent and teamwork; performing activities related to continuous professional education and contributing to the development of the profession.
Mogućnosti nakon diplomiranja:	• Possibility of employment • The possibility of continuing studies at the III cycle.

CURRICULUM AND PROGRAM

Semester I	FIRST YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
FA-3.1-03	Anatomy	O	30+45	60	135	5
FA-3.1-01	General and Inorganic Chemistry	O	60+45	84	189	7
FA-3.1-04	Computer science	O	60+45	84	189	5
FA-3.1-17	Medical ethics	O	30+45	60	135	3
FA-3.1-03	English language	O	45+45	72	162	6
	Total number of hours and ECTS credits		450	360	810	26

Semester II	FIRST YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
FA-3.1-06	Physiology with pathophysiology	O	60+45	84	189	7
FA-3.1-11	Mathematical analysis with statistics	O	30+30	48	108	4
FA-3.1-09	Pharmaceutical botany	O	30+45	60	135	5
FA-3.1-08	Physics	O	30+45	60	135	5
FA-3.1-07	Cell biology with human genetics	O	30+30	48	108	4
FA-3.1-10	Introduction to Pharmacy	O	30+45	60	135	5

	Total number of hours and ECTS credits		450	360	810	30

Semester III	SECOND YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
FA-3.1-18	Pharmaceutical technology I	O	60+45	30	135	5
FA-3.1-13	Physical chemistry	O	45+45	45	135	5
FA-3.1-16	Organic chemistry I	O	60+45	30	135	5
FA-3.1-15	Pharmacology	O	30+45	60	135	5
FA-3.1-12	Microbiology with parasitology	O	30+45	33	108	4
	Optional		15+15	51	81	3
	Optional		15+15	51	81	3
	Total number of hours and ECTS credits		510	300	810	30

Semester IV	SECOND YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
FA-3.1-23	Pharmacognosy I	O	45+45	72	162	6
FA-3.1-21	Pathological anatomy with histology	O	30+45	60	135	5
FA-3.1-20	Analytical chemistry I	O	30+45	60	135	5
FA-3.1-22	Pharmaceutical technology II	O	60+45	84	189	7
FA-3.1-19	Organic chemistry II	O	60+45	84	189	7
	Total number of hours and ECTS credits		450	360	810	30

List of elective subjects for the second year of study	Subject code
1. Internal medicine	FA-3.1-14

Semester V	THIRD YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
FA-3.2-25	Pharmacognosy II	O	30+45	60	135	5
FA-3.1-28	Pharmaceutical chemistry I	O	45+45	72	162	6
FA-3.1-27	Analytical chemistry II	O	45+45	45	135	5
FA-3.1-26	Clinical biochemistry I	O	60+45	84	189	7
FA-3.1-18	Bromatology	O	30+30	48	108	4
FA-3.1-29	Medical law	O	15+15	51	81	3
	Total number of hours of		450	360	810	30

	ECTS credits					

Semester VI	THIRD YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
FA-3.1-32	Analiza i kontrola lijekova	O	60+45	84	189	7
FA-3.1-35	Farmaceutska hemija II	O	45+45	72	162	6
FA-3.1-34	Magistralna receptura	O	30+30	48	108	4
FA-3.1-33	Organizacija zdravstvene službe i legislativa	O	15+15	51	81	3
FA-3.1-	Izborni		30+45	60	135	5
FA-3.1-	Izborni		30+45	60	135	5
	Ukupan broj sati i ECTS bodova		435	375	810	30

List of elective subjects for the third year of study	Subject code
1. Transfusion and immunology	
2. Organizational culture and behavior	
3. Phytopharmacy	FA-3.2-31

Semester VII	FOURTH YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
FA-3.1-39	Clinical biochemistry II	O	30+30	102	162	6
FA-3.1-37	Toxicological chemistry	O	45+45	99	189	7
FA-3.1-36	Cosmetology	O	30+30	102	162	6
FA-3.1-40	Drug formulation	O	45+75	69	189	7
FA-3.1-38	Methodology of scientific research work	O	30+30	48	108	4
	Total number of hours and ECTS credits		390	420	810	30

Semester VIII	FOURTH YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
FA-3.1-42	Pharmacokinetics	O	45+30	87	162	6
FA-3.1-44	Pharmaceutical chemistry III	O	30+45	87	162	6
FA-3.1-41	Quality assurance and registration of medicines	O	15+15	78	108	4
FA-3.1-52	Professional practice	O	0	189	189	10
FA-3.1-43	Drug design and process control		45+30	114	189	7
	Total number of hours and		255	555	810	33

	ECTS credits					

Semester IX	FIFTH YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
FA-3.1-47	Pharmacotherapy with wholesale pharmacy	O	45+45	72	162	4
FA-3.1-48	Clinical pharmacy	O	60+45	111	216	8
FA-3.1-50	Stability and drug interaction	O	45+45	72	162	6
FA-3.1-49	Analysis of food products, water, air and their pollutants	O	45+45	72	162	6
	Chosen subject	I	30+30	48	108	4
	Total number of hours and ECTS credits		435	375	810	30

List of optional subjects for the fifth year of study MODULE 1	**Subject code**
1. Analysis of the development of pharmaceutical products	**FA-3.1-46**
2. Health ecology	**FA-3.1-30**

Semestar X	FIFTH YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
FA-3.1-51	Homeopathy	O	45+30	60	135	5
FA-3.1-52	Professional practice	O	0	270	270	10
FA-3.1-53	Master's thesis	O	0	405	405	15
	Total number of hours and ECTS credits		75	735	810	30

NURSING

CATALOG OF STUDY PROGRAMS

Name of the study program:	**Nursing**
Cycle:	I cycle:
Kinds	undergraduate studies
scientific field:	Clinical medical sciences / Health sciences
scientific field:	The field of biomedicine and healthcare
academic title:	Bachelor of Nursing
EQF qualification level	6
Duration of the study program:	4 years (VIII semester)
ECTS:	240
Language:	B/H/S
Method of study:	Regular, rotating classes in X semesters
Holder of the study program:	American Northwest University of Health Science and Technology/ American Northwest University for Health Sciences and Technologies
Executor of the study program:	American Northwest University of Health Science and Technology/ Faculty of Health Science
Objectives of the study program	• Enable bachelor of nursing students to independently, responsibly, and professionally deliver healthcare in clinical hospitals, healthcare institutions, and institutes. • Provide an educational framework that encourages the development of analytical and critical thinking skills, thus allowing access to the theory and practice of nursing. • Develop awareness of relevant evidence from the latest research and facilitate its application/integration into nursing practice. • Cultivate the ability for timely and thoughtful decision-making, as well as provide internationally recognized high-quality education for work in the healthcare field, enabling students to acquire the necessary competencies to work as registered nurses and to pursue further studies at the postgraduate level.
Competencies of the study program:	• Understanding the science underlying general healthcare, including a sufficient grasp of the structure, physiological functions, and behaviors of healthy and ill individuals, as well as the relationships between them, the individual's health status, and their physical and social environment. • Assessment, planning, implementation, and evaluation of healthcare in collaboration with the patient/client,

	caregiver, family, and other healthcare professionals using theoretical and clinical knowledge. • Understanding and applying basic ethical and legal principles and regulations relevant to nursing practice. • Applying effective communication skills with patients/clients and their families, as well as with other members of the interdisciplinary team. • Participation in health promotion, education, patient care, and informing individuals. • Applying measures in crisis and emergency situations, life-saving in line with professional competencies. • Development, planning, implementation, evaluation, and monitoring of nursing documentation. • Utilizing information technologies and databases, as well as appropriate statistical methods, using professional literature to enhance knowledge and skills. • Contributing to the education of nurses and related professions.
Learning outcomes of the study program:	• Explaining fundamental concepts and laws of biological functions, anatomy, physiology, and pharmacology, as well as understanding the relationship between health status, physical, and social environment of individuals, and their behavior. • Performing chemical, biochemical, and microbiological analyses to detect pathological or normally present components in biological fluids. • Recognizing problems and responding according to professional and ethical principles and legal regulations in daily practice. • Organizing and supervising nursing care for various users in different healthcare and social institutions. • Leading healthcare teams and collaborating with interdisciplinary healthcare teams at all levels of healthcare. • Evaluating, educating, improving, and supporting the maintenance of health, overseeing healthcare aimed at meeting basic human needs in collaboration with patients/clients, caregivers, families, and other healthcare professionals using theoretical and clinical knowledge. • Assessing patient condition using aids, considering physical, social, cultural, psychological, spiritual, and ecological factors. • Recognizing and interpreting situations that deviate from the norm, making decisions in the healthcare process based on data analysis and synthesis. • Participating in planning and implementing diagnostic

	and therapeutic procedures prescribed and supervised by physicians. • Recognizing and responding in crisis and emergency situations, independently applying life-saving measures and intervening in accordance with professional competencies. • Adapting communication to the needs of the interlocutor and the situation. • Participating in the education and professional development of healthcare workers, nurses/technicians, healthcare and social workers, and students. • Supervising the application of disinfection and sterilization methods, maintaining a healthy and safe working environment. • Utilizing technology and informatics, finding and evaluating information in nursing, applying evidence-based medicine principles and critical reflection. • Recognizing and applying elements of healthcare and social care financing systems. • Managing nursing documentation and evaluating achieved healthcare goals. • Explaining and applying research and statistical data processing methods, independently monitoring and evaluating results of one's work following professional literature. • Creating structured text using basic medical and healthcare terminology, elaborating on professional healthcare topics, and presenting professional work in a foreign language.
Opportunities after graduating:	• The possibility of working in private and public institutions • The possibility of continuing education at higher levels of study

CURRICULUM AND PROGRAM

Semester I	FIRST YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
SE-3.1-01	Anatomy	O	30+45	60	135	5
SE-3.1-02	Psychology	O	30+45	60	135	5
SE-3.1-03	English language	O	30+45	60	135	5
SE-3.1-04	Sociology	O	30+45	60	135	5
SE-3.1-05	Computer science	O	30+45	60	135	5
	Health care I		30+45	60	135	5
	Total number of hours and ECTS credits		450	360	810	30

Semester II	FIRST YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
SE-3.1-06	Physiology with pathophysiology	O	60+45	84	189	7
SE-3.1-07	Cell biology with human genetics	O	45+45	72	162	6
SE-3.1-08	Hygiene	O	30+45	60	135	5
SE-3.1-09	Health care II	O	15+15	51	81	3
SE-3.1-10	Epidemiology	O	30+30	48	108	4
SE-3.1-11	Surgery	O	30+30	75	135	5
	Total number of hours and ECTS credits		420	390	810	30

Semester III	SECOND YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
SE-3.1-12	Pathological anatomy with histology	O	45+45	72	162	6
SE-3.1-13	Microbiology with parasitology	O	45+45	72	162	6
SE-3.1-14	Internal medicine	O	45+45	72	162	6
SE-3.1-15	Emergency medicine	O	45+45	72	162	6
SE-3.1-16	Pharmacology	O	45+45	72	162	6
	Total number of hours and ECTS credits		450	360	810	30

Semester IV	SECOND YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
SE-3.1-17	Organizational culture and behavior	O	45+30	60	135	5
SE-3.1-18	Oncology	O	45+30	60	135	5
SE-3.1-19	Gynecology with obstetrics	O	30+45	60	135	5
SE-3.1-20	Pediatrics	O	30+45	60	135	5
SE-3.1-21	Health care in pediatrics	O	45+30	60	135	5
SE-3.1-22	Neurology	O	30+45	60	135	5
	Total number of hours and ECTS credits		450	360	810	30

Semester V	THIRD YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
SE-3.1-23	Nutrition and dietetics	O	30+30	48	108	4
SE-3.1-24	Health care in gynecology and obstetrics	O	45+30	33	108	4
SE-3.1-25	Dermatovenereology	O	30+30	48	108	4
SE-3.1-26	Infectology	O	30+30	48	108	4
SE-3.1-27	Healthcare in infectious disease	O	45+30	33	108	4
SE-3.1-28	Health care in neurology	O	45+30	33	108	4
SE-3.1-29	Health care of persons with special needs	O	15+15	51	81	3
SE-3.1-30	Medical law	O	15+15	51	81	3
	Total number of hours and ECTS credits		465	345	810	30

Semester VI	THIRD YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
SE-3.1-31	Physical medicine and rehabilitation	O	30+45	87	162	6
SE-3.1-32	Health education	O	15+15	51	81	3
SE-3.1-33	Health statistics	O	15+15	51	81	3
SE-3.1-34	Family medicine in nursing	O	30+30	102	162	6
SE-3.1-35	Geriatrics	O	45+30	87	162	6
SE-3.1-36	Health ecology	O	30+30	102	162	6
	Total number of hours and ECTS credits		330	480	810	30

List of elective subjects for the third year of study	Subject code
1. Psychology	**3.5-018-BS**
2. Organizational culture and behavior	**3.5-019-BS**
3. Safety at work and people's health	**3.5-020-BS**

Semester VII	FOURTH YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
SE-3.1-37	Disinfection, disinsection and pest control	O	30+30	102	162	6
SE-3.1-38	Health care in the intensive care unit	O	30+30	102	162	6
SE-3.1-39	Health care in geriatrics	O	30+30	102	162	6
SE-3.1-40	Health care in family medicine and patronage	O	45+30	87	162	6
SE-3.1-41	Psychiatry and health care in psychiatry	O	30+30	102	162	6
	Total number of hours and ECTS credits		315	495	810	30

Semestar VIII	FOURTH YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
SE-3.1-42	Otorhinolaryngology	O	30+30	48	108	4
SE-3.1-43	Ophthalmology	O	30+30	48	108	4
SE-3.1-44	Theory of sports	O	30+30	48	108	4
SE-3.1-45	Social medicine	O	30+15	63	108	4
SE-3.1-46	Health service organization and legislation	O	15+15	51	81	3
SE-3.1-47	Methodology of scientific research work	O	30+30	48	108	4
SE-3.1-48	Professional practice	O	0	81	81	3
SE-3.1-49	Final work	O	0	108	108	4
	Total number of hours and ECTS credits		315	495	810	30

PHYSIOTHERAPY

CATALOG OF STUDY PROGRAMS

AMERICAN NORTHWEST UNIVERSITY

Name of the study program:	**Physiotherapy**
Cycle:	I cycle:
Species	undergraduate
Scientific field:	Biomedicine and healthcare
Scientific field:	Clinical medical sciences / Health sciences
Academic title:	Bachelor of Physiotherapy
EQF qualification level	6
Duration of the study program:	4 years (VII semester)
ECTS:	240
Language:	B/H/S
Method of study:	Regular, rotating classes in VII semesters
Holder of the study program:	American Northwest University of Health Science and Technology/ American Northwest University for Health Sciences and Technologies
Executor of the study program:	American Northwest University of Health Science and Technology Faculty of Health Sciences
Objectives of the study program:	• Theoretical and practical education of students for independent work in healthcare institutions; • Acquisition of knowledge and skills related to assessing the condition, setting goals, and creating programs tailored to the age, needs, and dysfunctions of individuals requiring physical therapy; • Providing insights into the concepts of physical therapy with an emphasis on a comprehensive approach to implementing physical therapy; • Conceptually, providing the opportunity to participate in the interdisciplinary team process of healthcare, care, and rehabilitation.
Competencies of the study program:	• Through undergraduate education, a physiotherapist is trained to: • Assess the status of the client and the need for physical therapy treatment, • Perform kinesiometric and other measurements to diagnose the function of the musculoskeletal and other systems, • Plan and program physical therapy procedures, • Apply selected physical therapy techniques according to the client's needs,

	• Evaluate the effects of treatment, • Work in a team, engage in continuous self-education, and work on advancing the profession.
Learning outcomes of the study program:	• Describe the concept of physiotherapy and the scope of work of physiotherapists • Analyze and differentiate the roles of physiotherapists in clinical settings and other work domains • List clinical and non-clinical areas of physiotherapy practice and physiotherapists • Describe and differentiate the basic components of the physiotherapy process • Define the essential difference between physiotherapy issues in our country and globally according to contemporary concepts • Describe the roles and tasks of physiotherapists in healthcare teams and interdisciplinary collaboration • Argue basic knowledge and skills based on evidence-based clinical experience • Describe the importance of regulating and respecting standards in the profession, as well as participating in national and foreign professional organizations • Describe and compare basic assessment methods in physiotherapy • Demonstrate basic practical skills in applying subjective and objective assessment methods • Conduct physiotherapy assessments and measurement procedures • Document the results of physiotherapy assessment and interpret the findings • Set therapeutic goals and plan physiotherapy interventions • Explain the principles and procedures of applying therapeutic exercises within the therapeutic process • Define, analyze, and apply activities to increase muscle strength, power, endurance, coordination, and improve posture • Define, analyze, and apply therapeutic exercises to improve aerobic capacity and cardiopulmonary endurance • Define, analyze, and apply activities to increase range of motion through active, active-assisted, and resistance exercises • Define, analyze, and apply stretching exercises; exercises on a therapy ball; water exercises • Walking, locomotion, and balance training; balance and coordination training and ergonomic training • Explain the principles and procedures of joint mobilization techniques in a therapeutic framework

	• Safely apply therapeutic massage techniques, connective tissue massage, and manual lymphatic drainage • Define, analyze, and apply breathing techniques, cough mechanism, breathing training, and inhalation techniques, and perform appropriate drainage positions • Define, analyze, and apply breathing exercises and muscles involved in breathing; • Define, analyze, and apply functional self-care training procedures • Describe and implement the use of various aids, orthoses, adaptive, and protective devices • Explain the application of facilitation, inhibition, and stimulation techniques • Explain, describe, plan, and implement physiotherapeutic assessment and physiotherapy process in various preventive and clinical areas • Define indications and procedures for physiotherapy intervention • Document and evaluate physiotherapy interventions
Opportunities after graduation:	• Possibility of employment in public and private institutions • Continuing education at higher levels of study.

CURRICULUM AND PROGRAM

Semester I	FIRST YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
FT-3.1-04	Anatomy	O	45+45	72	162	6
FT-3.1-01	Psychology	O	30+45	60	135	5
FT-3.1-05	Sociology	O	60+45	84	189	7
FT-3.1-03	English language	O	30+45	60	135	5
FT-3.1-06	Introduction to Physiotherapy	O	30+30	48	108	4
FT-3.1-02	Computer science	O	15+15	51	81	3
	Total number of hours and ECTS points		435	375	810	30

Semester II	FIRST YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
FT-3.1-11	Physiology with pathophysiology	O	60+45	84	189	7
FT-3.1-09	Mathematical analysis with statistics	O	30+30	75	135	5
FT-3.1-08	Physics	O	30+45	114	189	7
FT-3.1-10	Cell biology with human genetics	O	45+45	72	162	6
FT-3.1-07	Surgery	O	30+30	75	135	5
	Total number of hours and ECTS points		390	420	810	30

Semester III	SECOND YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
FT-3.1-14	Sports medicine	O	30+45	60	135	5
FT-3.1-15	Basics of occupational therapy	O	30+45	60	135	5
FT-3.1-12	Basics of kinesiology with biomechanics	O	45+75	69	189	7
FT-3.1-16	Internal medicine	O	30+30	48	108	4
FT-3.1-13	Radiological anatomy	O	30+30	48	108	4
FT-3.1-12	Pharmacology	O	30+30	75	135	5
	Total number of hours and ECTS points		450	360	810	30

Semester IV	SECOND YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
FT-3.1-19	Medical ethics	O	30+45	60	135	5
FT-3.1-22	Physiotherapy skills I	O	45+15	48	108	4
FT-3.1-23	Physiotherapy in surgery and traumatology	O	30+30	48	108	4
FT-3.1-18	Physical medicine and rehabilitation	O	45+15	48	108	4
FT-3.1-24	Basics of kinesiology with kinesiometry	O	30+30	48	108	4
FT-3.1-20	Hygiene	O	30+30	48	108	4
FT-3.1-21	Pathological anatomy with histology	O	30+45	60	135	5
	Total number of hours and		435	375	810	30

	ECTS credits					

Semester V	THIRD YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
FT-3.1-30	Basics of health care	O	30+60	72	162	6
FT-3.1-28	Physiotherapy skills II	O	60+45	57	162	6
FT-3.1-25	Physiotherapy in pediatrics	O	30+30	75	135	5
FT-3.1-27	Physiotherapy in orthopedics	O	45+60	57	162	6
FT-3.1-29	Kinesiological physiology	O	30+45	33	108	4
FT-3.1-26	Medical law	O	15+15	51	81	3
	Total number of hours and ECTS points		465	345	810	30

Semester VI	THIRD YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
FT-3.1-32	Physiotherapy in rheumatology	O	30+60	72	162	6
FT-3.1-31	Prosthetics and orthotics	O	60+45	57	162	6
FT-3.1-33	Medical massage	O	30+30	75	135	5
FT-3.1-36	Physiotherapy in neurology	O	45+60	57	162	6
FT-3.1-34	Nutrition and dietetics	O	45+45	45	135	5
FT-3.1-35	Health education	I	15+15	24	54	2
	Total number of hours and ECTS points		480	330	810	30

Semester VII	FOURTH YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
FT-3.1-37	Clinical kinesiology	O	60+45	57	162	6
FT-3.1-39	Physiotherapy in cardiology and pulmonology	O	45+75	69	189	7
FT-3.1-41	Physiotherapy assessment	O	45+45	45	135	5
FT-3.1-40	Respiratory therapy	O	30+60	99	189	7
FT-3.1-38	Sport person with disability	O	30+30	75	135	5
	Total number of hours and ECTS credits		465	345	810	30

Semester VIII	FOURTH YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
FT-3.1-42	Social medicine	O	30+15	63	108	4
FT-3.1-43	Physiotherapy in primary health care	O	60+30	72	162	6
FT-3.1-44	Physiotherapy of people with amputated limbs	O	30+60	72	162	6
FT-3.1-45	Health service organization and legislation	O	15+15	51	81	3
FT-3.1-46	Methodology of scientific research work	O	30+30	48	108	4
FT-3.1-48	Professional practice	O	0	81	81	3
FT-3.1-47	Final work	O	0	108	108	4
	Total number of hours and ECTS points		315	495	810	30

GENERAL LAW

CATALOG OF STUDY PROGRAMS

AMERICAN NORTHWEST UNIVERSITY

Name of the study program:	**General law**
Cycle:	I cycle:
Kind	University integrated undergraduate and graduate studies
Scientific area:	Social Sciences
Scientific field:	Law
Academic title:	Baccalaureate/Bachelor of Law
EQF qualification level	6
Duration of the study program:	4 years (VIII semester)
ECTS:	240
Language:	B/H/S
Method of study:	Regular, rotating classes in the VIII semester
Holder of the study program:	American Northwest University of Health Science and Technology
Executor of the study program:	American Northwest University of Health Science and Technology - Faculty of Social Sciences
Objectives of the study program:	• Understanding of the legal system: The goal is to provide students with a thorough understanding of legal principles, institutions, processes, and procedures. • Development of analytical skills: Legal studies often encourage the development of analytical abilities so that students can critically think about legal issues, interpret the law, and apply it to specific cases. • Development of communication skills: The law program encompasses various forms of communication, including writing legal documents, oral presentation, negotiation, and argumentation. • Ethics and professionalism: The aim is to encourage students to develop high standards of ethical behavior and professionalism in legal practice. • Understanding of various legal areas: Students are typically introduced to different areas of law, such as criminal law, civil law, administrative law, commercial law, international law, etc. • Development of problem-solving abilities: Legal studies often prompt students to develop the ability to identify, analyze, and solve legal problems that may arise in the real world.

	• Preparation for legal practice: The goal is to prepare students for legal practice, whether it be working in law firms, courts, corporations, or non-governmental organizations. • Understanding the social context of law: Legal studies may also include the study of social, political, economic, and cultural factors that influence the legal system and legal institutions. • These objectives collectively contribute to the creation of legal experts who are capable of applying their knowledge in various contexts and contributing to justice and the legal system as a whole.
Competencies of the study program:	• The ability to gather and interpret relevant facts in the field of law and skillfully apply theoretical knowledge to specific life situations; • Critical evaluation of data, arguments, concepts, and assumptions in decision-making and resolving legal issues; • Exchanging information, ideas, problems, and solutions with both experts and non-experts; • Participation in professional groups; • Applying acquired knowledge and skills in further professional and academic education; • Adapting to changes in the field of law and in lifelong learning methodologies; • Moral and ethical stance in resolving legal issues.
Learning outcomes of the study program:	• interpreting and comparing relevant facts related to categories and institutes of substantive and procedural law necessary for effective and responsible participation in the legal profession; • understanding the impact of law on socio-economic and socio-political relationships while pointing out the strengths and weaknesses of legal solutions; • understanding and describing legal issues; • understanding the interaction between acquiring, exercising, and protecting rights; • connecting, explaining, and interpreting facts relevant to decision-making on rights and obligations; • comparing the goals, structure, values, and codes of conduct of the legal profession and its members; • legal analysis and reasoning; • legal research, problem-solving, and oral communication; • applying knowledge to open and unresolved legal issues in the daily practice of the legal profession; • writing in a legal context; • professional skills considered essential for effective and responsible participation in the legal profession: ability to

	think logically, flexibility in thinking, patience, ease of oral expression, persuasiveness in communication, etc.
Opportunities after graduation:	• Students have the opportunity for employment in government administration, judiciary, public enterprises, commercial companies, associations, political parties, etc. • There is the possibility to continue studies at the second and third cycle of studies in Bosnia and Herzegovina and abroad.

CURRICULUM AND PROGRAM

Semester I	FIRST YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
OP-5.2-01	Sociology	O	30+45	60	135	5
OP-5.2-02	Introduction to the theory of the state and law	O	30+45	60	135	5
OP-5.2-03	Management	O	30+30	48	108	4
OP-5.2-04	Roman law I	O	60+45	105	210	8
OP-5.2-05	English language I	I	30+30	48	108	4
OP-5.2-06	Computer science		30+30	48	108	4
	Total number of hours and ECTS points		450	360	810	30

Semester II	FIRST YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
OP-5.2-07	Academic skills	O	30+45	60	135	5
OP-5.2-08	Business economics	O	30+30	48	108	4
OP-5.2-10	Constitutional law	O	60+45	84	189	7
OP-5.2-42	EU legal system and institutions	O	30+30	48	108	4
OP-5.2-12	Methodology of NIR	O	30+30	48	108	4
OP-5.2-09	Communication science	O	45+45	72	162	6
	Total number of hours and ECTS points		450	360	810	30

Semester III	SECOND YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
OP-5.2-16	Modern legal codifications	O	45+45	72	162	6
OP-5.2-14	Criminology	O	60+45	84	189	7
OP-5.2-15	Business law	O	30+45	60	135	5
OP-5.2-13	Criminal law	O	60+45	84	189	7
OP-5.2-17	English language II	I	30+45	60	135	5
	Total number of hours and ECTS points		450	360	810	30

Semester IV	SECOND YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
OP-5.2-20	Family law	O	60+45	84	189	7
OP-5.2-21	Law of succession	O	60+45	84	189	7
OP-5.2-18	Microeconomics	O	45+45	72	162	6
OP-5.2-19	Informatics II	O	30+45	60	135	5
	Human resource management	O	30+45	60	135	5
	Total number of hours and ECTS points		450	360	810	30

Semester V	THIRD YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
OP-5.2-25	Obligatory law	O	45+45	72	162	6
OP-5.2-26	Civil law	O	60+45	84	189	7
OP-5.2-23	Labor law	O	60+60	69	189	7
OP-5.2-24	Victimology	O	45+45	45	135	5
OP-5.2-2Ž	English language III	I	45+45	45	135	7
	Total number of hours and ECTS points		450	360	810	30

Semester VI	THIRD YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
OP-5.2-32	Administrative and misdemeanor law	O	60+45	84	189	7
OP-5.2-28	The right to insurance	O	30+45	60	135	5
OP-5.2-30	International public law	O	60+45	84	189	7
OP-5.2-29	Electronic business	O	30+45	60	135	5
OP-5.2-31	Organizational culture and behavior	I	45+45	72	162	6
	Total number of hours and ECTS points		450	360	810	30

Semester VII	FOURTH YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
OP-5.2-31	A real right	O	45+45	72	162	6
OP-5.2-34	Private international law	O	60+45	84	189	7
OP-5.2-35	Change Management	O	60+45	84	189	7
OP-5.2-36	International commercial law	O	30+45	60	135	5
OP-5.2-37	Business and legal ethics	I	30+45	60	135	5
	Total number of hours and ECTS points		450	360	810	30

Semester VIII	FOURTH YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
OP-5.2-38	Finance and financial law	O	60+45	90	195	7
OP-5.2-39	International criminal law	O	60+45	105	210	8
OP-5.2-40	Criminal procedural law	O	60+45	90	195	7
OP-5.2-41	Civil procedural law	O	60+45	105	210	8
	Total number of hours and ECTS points		420	390	810	

BUSINESS ECONOMY

CATALOG OF STUDY PROGRAMS

AMERICAN NORTHWEST UNIVERSITY

Name of the study program:	**Business Economy**
Cycle:	I cycle:
Type	Professional study
Scientific area:	Social Sciences
Scientific field:	Economy
Academic title:	Bachelor of Business Economics
EQF qualification level	6
Duration of the study program:	4 years (VII semester)
ECTS:	240
Language:	B/H/S
Method of study:	Regular, rotating classes in the VIII semester
Holder of the study program:	American Northwest University of Health Science and Technology
Executor of the study program:	American Northwest University of Health Science and Technology - Faculty of Social Sciences
Objectives of the study program:	• To achieve in students fundamental theoretical knowledge and practical expertise in economics. • To prepare students for lifelong learning of new knowledge and skills, as well as the ability to work in marketing, management, finance, accounting, and tourism.
Competencies of the study program:	• The ability to gather and interpret relevant facts in the scientific field of law and skill in applying theoretical knowledge to specific real-life situations; • Critical evaluation of data, arguments, concepts, and assumptions in decision-making and solving legal issues; • Exchanging information, ideas, problems, and solutions with experts and laypersons; • Participating in professional gatherings; • Applying acquired knowledge and skills in further professional and academic education; • Adapting to changes in the scientific field of law and to working methods within lifelong learning; • Moral and ethical stance in resolving legal issues.
Learning outcomes of the study program:	• Explains fundamental economic categories and utilizes tools of statistics, mathematics, and informatics in management while communicating in one of the business languages. • Analyzes and develops solutions for problems in the field of applied economics.

	• Analyzes basic functions and processes in management. • Analyzes the business environment and its impact on operations. • Applies knowledge in starting a business, organizing, and managing operations.
Opportunities after graduation:	• Graduates with a bachelor's degree in Economics are equipped to start their own business, work independently or as part of a team in their own company, or in the business and public sectors.

CURRICULUM AND PROGRAM

Semester I	FIRST YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
PE-5.2-01	Sociology	O	60+45	84	189	7
PE-5.2-02	Marketing	O	45+45	72	162	6
PE-5.2-03	Management	O	45+75	69	189	7
PE-5.2-04	Communication science	O	30+45	60	135	5
PE-5.2-05	English language	I	30+45	60	135	5
	Total number of hours and ECTS points		465	345	810	30

Semester II	FIRST YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
PE-5.2-06	Macroeconomics	O	60+45	84	189	7
PE-5.2-07	Business mathematics	O	30+45	114	189	7
PE-5.2-08	Knowledge management	O	30+30	48	108	4
PE-5.2-09	International economy	O	60+45	84	189	7
PE-5.2-10	Computer science	I	30+45	60	135	5
	Total number of hours and ECTS points					

Semester III	SECOND YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
PE-5.2-11	Business law	O	30+45	60	135	5
PE-5.2-12	Business statistics	O	45+75	69	189	7
PE-5.2-13	Consumer behavior	O	60+45	84	189	7
PE-5.2-14	Leadership	O	45+45	72	162	6
PE-5.2-15	English language II	I	30+45	60	135	5
	Total number of hours and ECTS points		465	345	810	30

Semester IV	SECOND YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
PE-5.2-16	Accounting	O	45+75	69	189	7
PE-5.2-17	Microeconomics	O	45+45	72	162	6
PE-5.2-18	Business finance	O	60+45	84	189	7
PE-5.2-19	Human resource management	O	45+30	60	135	5
PE-5.2-20	Decision theory	I	30+45	60	135	5
	Total number of hours and ECTS points		405	345	810	30

Semester V	THIRD YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
PE-5.2-21	Financial and actuarial mathematics	O	45+75	69	189	5
PE-5.2-22	Entrepreneurship	O	45+45	72	162	7
PE-5.2-23	Insurance	O	45+30	114	189	5
	Financial management	I	30+45	60	135	7
	Financial control and audit	I	30+45	60	135	6
	Total number of hours and ECTS points		435	375	810	30

Semestar VI	THIRD YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
PE-5.2-26	Electronic business	O	30+45	114	189	7
PE-5.2-27	Methodology of scientific research work	O	45+45	45	135	5
PE-5.2-29	Finance and financial law	O	75+45	69	189	7
PE-5.2-28	International Finance	O	75+45	69	189	7
PE-5.2-30	Final work	O	0	108	108	4
	Total number of hours and ECTS points		405	405	810	30

MANAGEMENT

CATALOG OF STUDY PROGRAMS

AMERICAN NORTHWEST UNIVERSITY

Name of the study program:	**Management**
Cycle:	I cycle:
Type	Undergraduate studies
Scientific area:	Social Sciences
Scientific field:	Economy
Academic title:	Bachelor of Management
EQF qualification level	6
Duration of the study program:	3 years (VI semester)
ECTS:	180
Language:	B/H/S
Method of study:	Regular, rotating classes in the 6th semester
Holder of the study program:	American Northwest University of Health Science and Technology
Executor of the study program:	American Northwest University of Health Science and Technology - Faculty of Social Sciences
Objectives of the study program:	• Train students for careers in various management sectors, such as human resources, marketing, finance, operations, etc. • To develop students' critical thinking and analytical skills so that they can successfully deal with the challenges of the modern business environment. • Prepare students for leadership and management, either as managers in the corporate world or as entrepreneurs. • Provide students with an understanding of business processes and strategies so that they can contribute to improving the performance of organizations.
Competencies of the study program:	• Leadership and team management: Developing the ability to lead and manage a team to achieve organizational goals. • Analytical skills: Ability to analyze data and information to make informed business decisions. • Communication skills: Ability to communicate clearly and effectively with different actors inside and outside the organization. • Strategic thinking: The ability to understand the organization's long-term goals and develop strategies to achieve those goals. • Problem Solving: Ability to identify, analyze and solve business problems.

	• Ethics and social responsibility: Understanding ethical issues in business and the ability to make morally responsible decisions
Learning outcomes of the study program:	• Understanding basic concepts and theories of management. • Developing analytical skills to solve business problems. • Enhancing teamwork and leadership skills. • Understanding the processes of planning, organizing, leading, and controlling in a business environment. • Developing communication skills, both written and verbal. • Understanding ethical and social aspects of business.
Opportunities after graduation:	• Employment in the corporate world: Many companies seek candidates with a management degree for roles such as managers, analysts, human resources specialists, marketing, or operations experts. • Starting your own business: Graduates in management often have the knowledge and skills needed to start their own business or entrepreneurial ventures. • Continuing education: Students who wish to pursue higher education can enroll in master's or doctoral programs in management or related fields. • Specialization in a specific area: After completing their undergraduate studies, students may choose to further specialize in a specific area of management, such as finance, marketing, entrepreneurship, or international management.

CURRICULUM AND PROGRAM

Semester I	FIRST YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
ME-5.2-01	Sociology	O	60+45	84	189	5
ME-5.2-02	Marketing management	O	45+45	72	162	5
ME-5.2-03	Management	O	45+75	69	189	6
ME-5.2-04	Mathematics		45+75	69	189	6
ME-5.2-08	English language I	O	30+45	60	135	4
ME-5.2-06	Informatics I	I	30+45	60	135	4
	Total number of hours and ECTS points		465	345	810	26

Semester II	FIRST YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
ME-5.2-07	Information technologies	O	60+45	84	189	5
ME-5.2-08	English language II	O	30+45	114	189	4
ME-5.2-09	Basics of economics	O	30+30	48	108	6
ME-5.2-10	Business economics	O	60+45	84	189	6
ME-5.2-11	Organizational culture and behavior	O	30+45	60	135	4
ME-5.2-12	Human resource management		60+45	84	189	5
	Total number of hours and ECTS points		420	390	810	29

Semester III	SECOND YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
ME-5.2-16	Business law	O	30+45	60	135	5
ME-5.2-13	Business statistics	O	45+75	69	189	7
ME-5.2-14	Consumer behavior	O	60+45	84	189	7
ME-5.2-15	Leadership	O	45+45	72	162	6
	English language III	I	30+45	60	135	5
	Total number of hours and ECTS points		465	345	810	30

Semester IV	SECOND YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
ME-5.2-19	Accounting	O	45+75	69	189	7
ME-5.2-21	Microeconomics	O	45+45	72	162	6
ME-5.2-20	Business finance	O	60+45	84	189	7
ME-5.2-18	Knowledge management	O	45+30	60	135	5
ME-5.2-22	Informatics II	I	30+45	60	135	5
	Total number of hours and ECTS points		405	345	810	30

Semestar V	THIRD YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
ME-5.2-26	Financial management	O	45+75	69	189	7
ME-5.2-25	Financial control and audits	O	45+45	72	162	6
ME-5.2-23	Corporate finance	O	45+30	114	189	7
ME-5.2-24	Quality management	O	30+45	60	135	6
ME-5.2-27	English language IV	o	30+45	60	135	4
	Total number of hours and ECTS points		435	375	810	30

Semestar VI	THIRD YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
ME-5.2-29	Change Management	O	75+45	69	189	7
ME-5.-28	Electronic business	O	30+45	114	189	7
ME-5.2-31	Methodology of scientific research work	O	45+45	45	135	5
ME-5.2-30	Finance and financial law	O	75+45	69	189	7
ME-5.2-32	Final work	O	0	108	108	4
	Total number of hours and ECTS points		405	405	810	30

BANKING

CATALOG OF STUDY PROGRAMS

Name of the study program:	**Banking**
Cycle:	I cycle:
Type	Undergraduate studies
Scientific area:	Social Sciences
Scientific field:	Economy
Academic title:	Bachelor of Banking
EQF qualification level	6
Duration of the study program:	3 years (VI semester)
ECTS:	180
Language:	B/H/S
Method of study:	Regular, rotating classes in the 6th semester
Holder of the study program:	American Northwest University of Health Science and Technology
Executor of the study program:	American Northwest University of Health Science and Technology - Faculty of Social Sciences
Objectives of the study program:	• Prepare students for careers in banking and the financial sector. • Develop an understanding of key principles, processes, and functions of banking. • Provide students with practical and theoretical knowledge of banking operations, products, services, and markets. • Develop skills in analysis, evaluation, and risk management in banking. • Enable students to understand and apply relevant regulations and standards in the banking sector. • Foster critical thinking and the ability to make informed decisions in the context of banking operations.
Competencies of the study program:	• Prepare students for careers in banking and the financial sector. • Develop an understanding of key principles, processes, and functions of banking. • Provide students with practical and theoretical knowledge of banking operations, products, services, and markets. • Develop skills in analysis, evaluation, and risk management in banking. • Enable students to understand and apply relevant

	regulations and standards in the banking sector. • Foster critical thinking and the ability to make informed decisions in the context of banking operations.
Learning outcomes of the study program:	• Understanding basic concepts and principles of banking. • Developing skills in analyzing financial data and reports. • Understanding banking products, services, and processes. • Developing communication and collaboration skills with clients and colleagues. • Understanding the regulatory framework and rules related to the banking sector. • Developing risk management skills and proper assessment of financial risks.
Opportunities after graduation:	• Employment in the banking sector: Graduates of banking programs often find employment in banks, such as commercial banks, investment banks, central banks, credit institutions, or other financial institutions. Possible roles include bank officers, risk analysts, client relationship managers, investment bankers, financial advisors, and other positions. • Consulting and analytical roles: Banking graduates can also work as consultants or analysts in financial firms, consulting agencies, or research institutions. These roles typically involve market analysis, evaluation of investment opportunities, providing expert advice to clients, and other similar activities. • Business in the financial sector: In addition to traditional banking roles, banking graduates can work in other finance sectors, such as insurance, investments, real estate, or asset management. These industries offer various career opportunities in different roles. • Continuing education: Students who wish to further enhance their knowledge and skills can pursue further education by enrolling in a master's or doctoral program in banking, finance, economics, or related disciplines. Advanced education can open doors to more advanced positions in the industry and provide additional career advancement opportunities.

CURRICULUM AND PROGRAM

Semestar I	FIRST YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
BA-5.2-01	Sociology	O	60+45	84	189	7
BA-5.2-02	Marketing	O	45+45	72	162	6
BA-5.2-03	Management	O	45+75	69	189	7
BA-5.2-04	Communication science	O	30+45	60	135	5
	Elective subject	I	30+45	60	135	5
	Total number of hours and ECTS points		465	345	810	30

Elective subject:

a) English I –BA-5.2-05
b) French I –BA-5.2-31

Semester II	FIRST YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
BA-5.2-07	Macroeconomics	O	60+45	84	189	7
BA-5.2-08	Business mathematics	O	30+45	114	189	7
BA-5.2-06	Knowledge management	O	30+30	48	108	4
BA-5.2-10	International economy	O	60+45	84	189	7
BA-5.2-09	Informatics I	I	30+45	60	135	5
	Total number of hours and ECTS points		420	390	810	28

Semester III	SECOND YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
BA-5.2-11	Business law	O	30+45	60	135	5
BA-5.2-12	Business statistics	O	45+75	69	189	7
BA-5.2-13	Consumer behavior	O	60+45	84	189	7
BA-5.2-14	Leadership	O	45+45	72	162	6
BA-5.2-05	English II	O	30+45	60	135	5
	Total number of hours and ECTS points		465	345	810	30

Semester IV	SECOND YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
BA-5.2-16	Accounting	O	45+75	69	189	7
BA-5.2-17	Microeconomics	O	45+45	72	162	6
BA-5.2-18	Business finance	O	60+45	84	189	7
BA-5.2-19	Human resource management	O	45+30	60	135	5
BA-5.2-20	Decision theory	I	30+45	60	135	5
	Total number of hours and ECTS points		465	345	810	30

Semester V	THIRD YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
BA-5.2-21	Financial markets and securities	O	75+45	69	189	7
BA-5.2-23	Banking	O	45+45	72	162	6
BA-5.2-25	Financial management	O	45+30	114	189	7
BA-5.2-22	Financial and actuarial mathematics	O	30+54	60	135	5
	Elective subject	I	30+45	60	135	5
	Total number of hours and ECTS points		435	375	810	30

Elective subject:

a) Strategic management BA-5.2-24

Semestar VI	THIRD YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
BA-5.2-26	Change Management	O	75+45	69	189	7
BA-5.2-27	Electronic business	O	30+45	114	189	7
BA-5.2-28	Methodology of scientific research work	O	45+45	45	135	5
BA-5.2-29	Finance and financial law	O	75+45	69	189	7
BA-5.2-30	Final work	O	0	108	108	4
	Total number of hours and ECTS points		405	405	810	30

PSYCHOLOGY

CATALOG OF STUDY PROGRAMS

Name of the study program:	**Psychology**
Cycle:	First cycle study
Type:	University integrated undergraduate and graduate studies
Scientific area:	Social sciences
Scientific field:	Psychology
Academic title:	Bachelor of Psychology
EQF qualification level	6
Duration of the study program:	Four years (VIII semester)
ECTS:	240 ECTS
Language:	B/H/S
Method of study:	Regular, rotating classes in VIII semester
Holder of the study program:	American Northwest University of Health Science and Technology
Executor of the study program:	American Northwest University of Health Science and Technology/ Faculty of Educational Sciences
Objectives of the study program:	• Understanding human behavior • Development of analytical and research skills, • Application of theories and methods in practice • Development of empathy • Creating the basis for further training in the field of psychology

Competencies of the study program:	• By mastering the program, students will be able to:
	  • respect and use the scientific approach, critical and creative thinking,
	  • understand and apply basic experimental and non-experimental research methods including research design, data analysis and interpretation,
	  • communicate at the academic level in the domestic and international environment,
	  • show sensitivity to ethical dilemmas and find solutions in accordance with the Law and the code of ethics of the profession.
	• Subject-specific competencies:
	• By mastering the program, students will be able to:
	  • demonstrate knowledge of the main concepts, theoretical perspectives, empirical findings and

	historical trends in psychology, • understand the laws of functioning and development of perception, memory, thinking, learning, emotions and impaired functioning, • understand and apply psychological principles to personal, social and organizational issues, • application of appropriate methods for solving specific problems in psychological research, • assign tests and other measuring instruments to a group of respondents, statistically process data, organize and present findings, • perform teaching activities related to the teaching of psychology in secondary schools and higher education institutions, • application of elementary skills in the areas of applied psychology, • follow newspapers in domestic and foreign professional psychological literature, • use computer technology to acquire knowledge in certain psychological areas.
Learning outcomes of the study program:	• After completing the undergraduate studies in psychology, students will be able to describe the characteristics of psychology as a scientific discipline, understand the main concepts, theoretical perspectives, empirical findings, and historical trends in psychology. They will use the concepts, language, and main theories of psychology to describe and explain psychological phenomena. They will be able to explain and distinguish the main approaches in psychology (behavioral, biological, cognitive, evolutionary, humanistic, psychodynamic, and socio-cultural). They will have basic knowledge in the field of applied psychology (industrial-organizational psychology, school psychology, clinical psychology). They will be able to formulate and test different research problems and hypotheses, which includes applying appropriate research methods and simple statistical data analysis procedures and interpreting the results appropriately. They will develop information literacy necessary to recognize and select relevant content from appropriate sources. They will know how to search for and critically interpret scientific and professional literature. They will be able to independently use appropriate computer programs for the purpose of interpreting and drawing conclusions after conducting quantitative and qualitative analyses. In communication, they will express themselves effectively both orally and in writing (in Croatian and English), they will be able to exchange ideas and collaborate with

	colleagues effectively and make responsible decisions regarding their career path. After completing the graduate studies in psychology, students will be able to describe fundamental and applied areas of psychology (primarily organizational, clinical, and school psychology) and more specialized areas of application derived from them (e.g. health psychology, forensic psychology), and act practically within them. They will appropriately use psychological theories and methods in solving individual and societal problems. They will have developed research skills and knowledge so they can independently devise and apply new ideas during research implementation. They will apply their knowledge of psychological principles, critical thinking, research skills, insight, and evaluation to solve personal, social, and organizational problems, using appropriate advanced quantitative and qualitative analyses (using computerized statistical programs). They will recognize and respect differences among people and effectively and sensitively manage interactions with individuals of different abilities, backgrounds, and worldviews within the sociocultural context. They will apply knowledge and skills of critical and creative thinking to effectively solve professional problems at an appropriate ethical and professional level. They will be trained for complex psychological assessments and the application of appropriate psychological measurement instruments in various areas of diagnosis and prognosis. They will have the ability to professionally communicate with clients, other members of professional or interdisciplinary teams, and will be qualified for further scientific and professional development
Opportunities after graduation:	• After completing the undergraduate studies, candidates could enroll in graduate programs in social work, sociology, pedagogy, educational rehabilitation, speech therapy, and teacher education. After completing the graduate studies, candidates could enroll in various levels of study for further professional and scientific advancement (various postgraduate and doctoral studies) both in the country and abroad

CURRICULUM AND PROGRAM

Semester I	FIRST YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
PS-5.1-01	Psychology I	**O**	**45+45**	**72**	**162**	**6**
PS-5.1-02	Basics of CNS anatomy and physiology	**O**	**45+30**	**60**	**135**	**5**
PS-5.1-03	Statistics in psychology I	**O**	**30+30**	**48**	**108**	**4**
PS-5.1-04	Sociology	**O**	**60+45**	**84**	**189**	**7**
PS-5-1-05	English language	**O**	**30+30**	**48**	**108**	**4**
PS-5.1-06	Computer science	**O**	**30+30**	**48**	**108**	**4**
	Total number of hours and ECTS points		**450**	**360**	**810**	**30**

Semester II	FIRST YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
PS-5.1-07	Psychology II	**O**	**45+45**	**72**	**162**	**6**
PS-5.1-08	Biological psychology	**O**	**30+45**	**60**	**135**	**5**
PS-5.1-14	Methodology of psychological research I	**O**	**60+45**	**84**	**189**	**6**
PS-5.1-10	Statistics in psychology II	**O**	**30+45**	**60**	**135**	**6**
PS-5.1-11	Basics of genetics	**O**	**45+47**	**69**	**189**	**5**
	Total number of hours and ECTS points		**465**	**345**	**810**	**28**

Semester III	SECOND YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
PS-5.1-13	Developmental psychology	**O**	**45+45**	**72**	**162**	**6**
PS-5.1-43	Methodology of psychological research II	**O**	**45+45**	**72**	**162**	**6**
PS-5.1-15	Cognitive psychology	**O**	**45+45**	**72**	**162**	**6**
PS-5.1-12	Psychology of learning	**O**	**45+45**	**72**	**162**	**5**
PS-5.1-17	Basics of neuropsychology	**O**	**45+45**	**72**	**162**	**6**
	Total number of hours and ECTS points		**450**	**360**	**810**	**29**

Semester IV	SECOND YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
PS-5.1-18	Psychology of childhood and adolescence	**O**	**45+75**	**69**	**189**	**7**
PS-5.1-19	Social psychology I	**O**	**45+30**	**60**	**135**	**5**
PS-5.1-20	Measurements in psychology	**O**	**75+45**	**69**	**189**	**7**
PS-5.1-21	Developmental psychopathology	**O**	**45+45**	**72**	**162**	**6**
PS-5.1-22	Introduction to psychotherapy and counseling	**O**	**45+30**	**60**	**135**	**5**
	Total number of hours and ECTS credits		**480**	**330**	**810**	**30**

Semester V	THIRD YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
PS-5.1-23	Clinical psychology	**O**	**45+45**	**72**	**162**	**6**
PS-5.1-24	Psychology of giftedness and creativity	**O**	**45+45**	**72**	**162**	**6**
PS-5.1-25	Social psychology II	**O**	**45+45**	**72**	**162**	**6**
PS-5.1-26	Psychopathology of childhood and youth	**O**	**45+45**	**72**	**162**	**6**
PS-5.1-27	Theory of tests	**O**	**45+45**	**72**	**162**	**6**
	Total number of hours and ECTS points		**450**	**360**	**810**	**30**

Semester VI	THIRD YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
PS-5.1-28	Psychology of adulthood and aging	**O**	**45+45**	**72**	**162**	**6**
PS-5.1-29	Psychology of mental health	**O**	**45+45**	**72**	**162**	**6**
PS-5.1-30	Emotional and social intelligence	**O**	**45+45**	**72**	**162**	**6**
PS-5.1-31	Psychology of memory	**O**	**45+45**	**72**	**162**	**6**
PS-5.1-32	Psychology of children with developmental disabilities	**O**	**45+45**	**72**	**162**	**6**
	Total number of hours and ECTS points		**450**	**360**	**810**	**30**

Semester VII	FOURTH YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
PS-5.1-33	Psychology of work	**O**	**45+45**	**72**	**162**	**6**
PS-5.1-34	Psychodiagnosis	**O**	**45+45**	**72**	**162**	**6**
PS-5.1-35	Psychology of communication	**O**	**45+45**	**72**	**162**	**6**
PS-5.1-36	Personality psychology	**O**	**45+45**	**72**	**162**	**6**
PS-5.1-37	Construction and interpretation of psychological tests	**O**	**45+45**	**72**	**162**	**6**
	Total number of hours and ECTS points		**450**	**360**	**810**	**30**

Semester VIII	FOURTH YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
PS-5.1-38	Psychotherapy directions	**O**	**45+45**	**72**	**162**	**6**
PS-5.1-39	Professional orientation and selection	**O**	**45+45**	**72**	**162**	**6**
PS-5.1-40	Evolutionary psychology	**O**	**45+45**	**72**	**162**	**6**
PS-5.1-41	Psychology teaching methodology	**O**	**45+45**	**72**	**162**	**6**
PS-5.1-42	Final test	**O**	**45+45**	**72**	**162**	**6**
	Total number of hours and ECTS credits		**450**	**360**	**810**	**30**

TURKISH

CATALOG OF STUDY PROGRAMS

AMERICAN NORTHWEST UNIVERSITY

Naziv studijskog programa:	**Turkish language and literature**
Name of the study program:	Integrated study of the first cycle
Cycle:	University undergraduate studies
Type	Social sciences
Scientific area:	Language and literature
Scientific field:	Professor of Turkish language and literature
Academic title:	6
EQF qualification level	Four years (VIII semesters)
Duration of the study program:	Undergraduate study 240 ECTS
ECTS:	B/H/S
Language:	Regular, rotating classes in the VIII semester
Method of study:	American Northwest University of Health Science and Technology
Holder of the study program:	American Northwest University of Health Science and Technology-Faculty of Educational Sciences
Executor of the study program:	• acquiring knowledge of the Turkish language equivalent to level C1, with elements of C2, according to the Common European Framework of Reference for Languages; • acquiring thorough and relatively extensive knowledge of Turkish literature; • gaining basic knowledge in the field of general and cultural history of the Turkish people; • mastering basic descriptive and methodological concepts for linguistic description of the Turkish language; • mastering skills and competencies for all forms of translation (except simultaneous and consecutive) from Turkish to Bosnian and vice versa; • mastering skills and competencies for teaching Turkish language and literature
Competencies of the study program:	• High level of oral and written proficiency in the Turkish language, specialized knowledge in Turkish linguistics, literature, and culture enable employment in the private sector as a foreign correspondent, carrying out complex communication tasks in Turkish in administrative roles

	in both the private and public sectors, acquiring basic literacy skills and knowledge necessary for work in media, publishing, tourism, communications, and all private and public companies and institutions requiring expertise in the Turkish language, literature, and culture.
Learning outcomes of the study program:	• application and integration of acquired knowledge from various linguistic disciplines to solve new and complex problems - applying knowledge from Turkish history, literature, and culture, and linking them with linguistic knowledge - interpreting various literary texts - independent development of teaching materials - analysis and appropriate application of procedures for scientific and educational interpretation of literary texts - ability to write scholarly work in the areas covered by the study (literary criticism, reviews, essays, etc.) - ability to write a short academic paper in the fields of linguistics and literature - accurate use of contemporary terms in all areas covered by the study.
Opportunities after graduation:	• Graduates of Turkish Language and Literature studies today work in primary and secondary schools where Turkish is offered as an elective subject, as well as in many international organizations, institutes, media companies, tourist agencies, trade representations, and commercial corporations.

CURRICULUM AND PROGRAM

Semester I	FIRST YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
TR-6.2-01	Turkish language: phonetics, phonology and morphonology I	O	45+45	72	162	6
TR-6.2-02	Introduction to studies of Turkology I	O	45+45	72	162	6
TR-6.2-03	Islamic civilization I	O	30+45	60	135	5
TR-6.2-04	Mother tongue (Bosnian, Croatian, Serbian) I	O	30+45	60	135	5
TR-6.2-05	Foreign language II	O	30+30	48	108	4
TR-6.2-06	Elective subject	O	30+30	48	108	4
	Total number of hours and ECTS points		450	360	810	30

Semester II	FIRST YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
TR-6.2-07	Turkish language: phonetics, phonology and morphonology II	O	45+45	72	162	6
TR-6.2-08	Introduction to studies of Turkology II	O	45+45	72	162	6
TR-6.2-09	Islamic civilization II	O	30+45	60	135	5
TR-6.2-10	Mother tongue (Bosnian, Croatian, Serbian) I	O	30+45	60	135	5
TR-6.2-11	Foreign language	O	30+30	48	108	4
TR-6.2-12	Elective subject	O	30+30	48	108	4
	Total number of hours and ECTS points		450	360	810	30

Semester III	SECOND YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
TR-6.2-13	Turkish language: morphology I	O	60+45	84	189	7
TR-6.2-14	Histology of the Ottoman Empire	O	60+45	84	189	7
TR-6.2-15	Cultural history of the Turks	O	45+45	72	162	6
TR-6.2-16	Foreign language III	O	45+45	72	162	6
TR-6.2-17	Elective subject	I	30+30	48	108	4
	Total number of hours and ECTS points		450	360	810	30

Semester IV	SECOND YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
TR-6.2-18	Turkish language: morphology II	O	60+45	84	189	7
TR-6.2-19	History of the Republic of Turkey	O	60+45	84	189	7
TR-6.2-20	Cultural history of the Turks II	O	45+45	72	162	6
TR-6.2-21	Basics of Arabic grammar	O	45+45	72	162	6

TR-6.2-22	Elective subject	I	30+30	48	108	4
	Total number of hours and ECTS points		450	360	810	30

Semester V	THIRD YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
TR-6.2-23	Old Turkic languages and peoples I	O	60+45	84	189	7
TR-6.2-24	Turkish language I	O	60+45	84	189	7
TR-6.2-25	Turkish literature I	O	45+45	72	162	6
TR-6.2-26	Ottoman language I	O	45+45	72	162	6
TR-6.2-27	Elective subject	I	30+30	48	108	4
	Total number of hours and ECTS points		450	360	810	30

Semester VI	THIRD YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
TR-6.2-28	Contemporary Turkic languages and peoples II	O	60+45	84	189	7
TR-6.2-29	Turkish language II	O	60+45	84	189	7
TR-6.2-30	Turkish literature II	O	45+45	72	162	6
TR-6.2-31	Ottoman language II	O	45+45	72	162	6
TR-6.2-32	Elective subject	O	30+30	48	108	4
	Total number of hours and ECTS points		450	360	810	30

Semestar VII	FOURTH YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
TR-6.2-33	Turkish language III	O	60+45	84	189	7
TR-6.2-34	Turkish literature III	O	60+45	84	189	7
TR-6.2-35	Ottoman language III	O	45+45	72	162	6
TR-6.2-36	Turkish folklore	O	45+45	72	162	6
TR-6.2-37	Elective subject	O	30+30	48	108	4
	Total number of hours and ECTS points		450	360	810	30

Semestar VIII	FOURTH YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
TR-6.2-38	Turkish language IV	O	60+45	84	189	7
TR-6.2-39	Turkish literature IV	O	60+45	84	189	7
TR-6.2-40	Ottoman IV	O	60+45	84	189	7
TR-6.2-41	Elective subject	O	30+30	48	108	4
TR-6.2-42	Final work		0	135	135	5
	Total number of hours and ECTS points		375	435	810	30

ELECTRICAL ENGINEERING

CATALOG OF STUDY PROGRAMS

Name of the study program:	**Electrical engineering**
Cycle:	Integrated study of the first cycle
Type	University undergraduate studies
Scientific area:	Electrical engineering
Scientific field:	Electrical engineering
Academic title:	Bacalaureat/Bachelor - Electrical Engineer
EQF qualification level	7
Duration of the study program:	Four years (8 semesters)
ECTS:	240
Language:	B/H/S
Method of study:	Full-time, rotating classes in the VIII semester
Holder of the study program:	American Northwest University of Health Science and Technology
Executor of the study program:	American Northwest University of Health Science and Technology-Faculty of Technical Sciences
Objectives of the study program:	• He is equipped with all the necessary skills and competencies to have a successful and productive engineering career. He excels in teamwork and communication with colleagues from various backgrounds, can make technically sound assessments of complex problems in power engineering through detailed analysis, and is committed to lifelong learning and continuing education. • Furthermore, he has a solid understanding of mathematics, natural sciences, electrical engineering basics, and computer science fundamentals. He possesses knowledge of designing, modeling, and solving specific issues in power engineering and places a high priority on environmental protection, energy efficiency, and generating electricity from renewable sources.
Competencies of the study program:	• Ability to analyze and solve problems in the fields of electrical engineering and computer science using fundamental knowledge from natural sciences (mathematics and physics) and engineering. • Ability to identify, formulate, and solve complex engineering problems.

- Knowledge to apply modern skills, techniques, and engineering tools.
- Ability to communicate, collaborate, and work in engineering teams.
- Ability to adopt new technologies and techniques as part of lifelong learning.
- Attainment of professional maturity through independent selection of elective courses in the study program. By completing the Automation, Robotics, and Industrial Informatics specialization within the Electrical Engineering and Computer Science study program, students will also acquire specific knowledge and skills that include:
- Analyzing and understanding complex technical-technological systems.
- Developing and designing computer systems for measurement, control, monitoring, and supervision of complex technical-technological systems (industrial, energy, transportation, environmental, military systems, etc.).
- Researching and developing electronic and microprocessor-based systems for data acquisition, processing, and transmission.
- Researching and developing algorithms and software systems for measurement, control, monitoring, and supervision.
- By completing the Electric Power Grids and Systems specialization within the Electrical Engineering and Computer Science study program, students will gain specific knowledge and skills that include:
- Ability to define, understand, and creatively solve problems in the field of electric power grids and systems and beyond.
- Critical thinking based on analysis and synthesis. • Professional, environmental, and social responsibility. • Ability to engage in active professional communication in written and oral form.
- Optimal use of electric power equipment and technology.
- Developing the field of energy in its entirety.
- Independent tracking of the latest advancements and acquiring new knowledge.
- Teamwork with experts from various fields.
- Working in research laboratories, institutes, and other institutions with legally prescribed qualifications.
- By completing the Electrical Engineering and Energy Conversion Systems specialization within the Electrical

	Engineering and Computer Science study program, students will acquire specific knowledge and skills that include: • Understanding and comprehension of physical processes in the field of electrical engineering based on fundamental physical laws. • Understanding applied techniques and methods, as well as their limitations. • Applying acquired knowledge to develop and design electrical devices and installations. • Awareness of the societal and environmental context of engineering solutions.
Learning outcomes of the study program:	• Application of knowledge from physical sciences, mathematics, and fundamentals of engineering to solve medium-level problems in the field of electrical power engineering. • Designing and conducting experiments of medium complexity in electrical power engineering, as well as analyzing and interpreting the results obtained from these experiments. • Designing components, systems – particularly electrical installations in electrical power engineering and construction, and equipment that is characteristic of electrical power engineering. • Efficient work in multi-professional teams, including technical experts with different backgrounds and expertise. • Identifying and defining problems in the field of electrical power engineering and generating and solving problems of medium complexity. • Fundamentals of professional and ethical responsibility in the practical service of engineers in medium-complexity electrical power engineering. • Effective verbal and written technical communication. • Understanding the role and importance of electrical power engineering in society at all levels of its organization. • Using the techniques and skills necessary for modern engineering, including basics of computer science and programming, in solving medium-complexity problems in electrical power engineering.
Opportunities after graduation:	• Employment opportunities in public institutions and private companies. Opportunities for further education.

CURRICULUM AND PROGRAM

Semester I	FIRST YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
ET-2.3-02	Engineering mathematics I	**O**	**45+45**	**72**	**162**	**6**
ET-2.3-01	Engineering physics I	**O**	**45+75**	**69**	**189**	**7**
ET-2.3-03	Sociology	**O**	**60+45**	**84**	**189**	**7**
ET-2.3-04	Computer science	**O**	**30+45**	**60**	**135**	**5**
ET-2.3-05	Foreign language	**O**	**30+45**	**60**	**135**	**5**
	Total number of hours and ECTS points		**465**	**345**	**810**	**30**

Semester II	FIRST YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
ET-2.3-06	Electric circuits	**O**	**60+45**	**84**	**189**	**7**
ET-2.3-07	Electrical measurements	**O**	**30+45**	**60**	**135**	**5**
ET-2.3-08	Basics of electrical engineering	**O**	**30+30**	**48**	**108**	**4**
ET-2.3-09	Basics of programming	**O**	**45+75**	**69**	**189**	**7**
ET-2.3-10	Electronic elements and circuits	**O**	**60+45**	**84**	**189**	**7**
	Total number of hours and ECTS points		**465**	**345**	**810**	**30**

Semester III	SECOND YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
ET-2.3-11	Engineering mathematics II	**O**	**30+45**	**60**	**135**	**5**
ET-2.3-12	Electrical Engineering	**O**	**60+45**	**84**	**189**	**7**
ET-2.3-13	Engineering Physics II	**O**	**45+75**	**69**	**189**	**7**
ET-2.3-14	Reliability of electrical elements and systems	**O**	**45+75**	**69**	**189**	**7**
ET-2.3-15	Electrical installations and lighting	**O**	**30+30**	**48**	**108**	**7**
	Total number of hours and ECTS points		**480**	**330**	**810**	**30**

Semester IV	SECOND YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
ET-2.3-16	Basics of automatic control	**O**	**45+75**	**69**	**189**	**7**
ET-2.3-17	Basics of telecommunications	**O**	**30+30**	**102**	**162**	**6**
ET-2.3-18	Electrotechnical materials	**O**	**45+75**	**69**	**189**	**7**
ET-2.3-19	Engineering economics	**O**	**30+30**	**75**	**135**	**5**
ET-2.3-20	Quality management	**O**	**30+30**	**75**	**135**	**5**
	Total number of hours and ECTS points		**420**	**390**	**810**	**30**

Semestar V	THIRD YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
ET-2.3-21	Engineering mathematics III	**O**	**45+75**	**69**	**189**	**7**
ET-2.3-22	Power electronics	**O**	**60+45**	**84**	**189**	**7**
ET-2.3-23	Electric power systems I	**O**	**45+75**	**69**	**189**	**7**
ET-2.3-24	High voltage insulation technology	**O**	**30+30**	**48**	**108**	**4**
ET-2.3-25	Maintenance of electrical systems	**O**	**45+30**	**60**	**135**	**5**
	Total number of hours and ECTS points		**480**	**330**	**810**	**30**

Semester VI	THIRD YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
ET-2.3-26	Electric motor drives	**O**	**30+45**	**87**	**162**	**6**
ET-2.3-27	Electrical installations	**O**	**30+30**	**102**	**162**	**6**
ET-2.3-28	Production of electrical energy	**O**	**30+30**	**102**	**162**	**6**
ET-2.3-30	Management of electricity consumption	**I**	**45+30**	**87**	**162**	**6**
ET-2.3-29	Renewable sources of	**O**	**30+30**	**102**	**162**	**6**

	energy					
	Total number of hours and ECTS credits		**330**	**480**	**810**	**30**

Semester VII	**FOURTH YEAR**		**Number of hours of student workload**			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
ET-2.3-31	Electric machines	**O**	**30+30**	**102**	**162**	**6**
ET-2.3-32	Electric motor drives and dynamics of electric machines	**O**	**45+45**	**99**	**189**	**7**
ET-2.3-33	Analysis of electromagnetic systems	**O**	**30+30**	**102**	**162**	**6**
ET-2.3-34	Analysis of electromagnetic systems	**O**	**45+75**	**69**	**189**	**7**
ET-2.3-35	Quality of electricity	**O**	**30+30**	**48**	**108**	**4**
	Total number of hours and ECTS credits		**390**	**420**	**810**	**30**

Semestar VIII	**FOURTH YEAR**		**Number of hours of student workload**			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
ET-2.3-36	Methodology of engineering design	**O**	**45+30**	**87**	**162**	**6**
ET-2.3-37	Electric power systems II	**O**	**30+45**	**87**	**162**	**6**
ET-2.3-38	Distributed electricity production II	**O**	**15+15**	**78**	**108**	**4**
ET-2.3-39	Professional practice	**O**	**45+75**	**69**	**189**	**7**
ET-5.2-40	Final work	**O**	**45+75**	**69**	**189**	**7**
	Total number of hours and ECTS credits		**420**	**390**	**810**	**30**

ARCHITECTURE

CATALOG OF STUDY PROGRAMS

Name of the study program:	**Architecture**
Cycle:	first cycle study
Type	University integrated undergraduate and graduate studies
Scientific area:	Technical sciences
Scientific field:	Architecture
Academic title:	Architectural engineer
EQF qualification level	6
Duration of the study program:	Four years (VIII semesters)
ECTS:	240
Language:	B/H/S
Method of study:	Full-time, rotation classes of the VIII semester
Holder of the study program:	American Northwest University of Health Science and Technology
Executor of the study program:	American Northwest University of Health Science and Technology-Faculty of Technical Sciences
Objectives of the study program:	The main goal of the Architecture and Urbanism study program is to educate high-level professionals to perform complex and creative tasks in the field of Architecture and Urbanism, which has an interdisciplinary and multidisciplinary nature. The aim of the study program is: • development of a comprehensive foundation for acquiring knowledge, competencies, and skills in the field of architecture and urbanism, • development of creative abilities and critical thinking skills, • development of a propensity for teamwork and mastering specific practical skills necessary for the profession, • education of experts who possess versatile knowledge in the field, • promotion of good architectural practice and monitoring advancements in the profession worldwide and locally, • acceptance of professional and moral responsibility for one's work and awareness of the aspects and effects of one's actions, • recognition of the necessity of continuous professional development and lifelong learning.

Competencies of the study program:	General (generic) competences: • ability to analyze and exchange information, ideas, problems, and solutions with both technical and lay persons • ability to adapt to changes in technology and work methods as part of lifelong learning • ability to effectively collaborate in professional groups and adapt to the demands of the work environment • ability to understand the impact of architecture and urbanism on society and the environment, and to have a clear moral and ethical stance in solving professional problems • ability to apply acquired knowledge and habits in further professional and academic education • ability to critically assess arguments, assumptions, and data when making decisions and to solve professional problems in a creative way. Academic (specific) competences: • ability to apply acquired knowledge from all subject areas of architecture and urbanism, and technology • ability to prepare and conduct experiments, and analyze and interpret results • ability to recognize, describe, and solve professional problems • ability to recognize the interaction between design, construction, and user requirements • ability to use common computer tools for document creation, presentations, budgeting, and simulations • ability to design buildings at a basic level • ability to manage small construction projects • ability to dimension small construction structures • ability to participate as a collaborator in planning, design, implementation, supervision, and maintenance of larger construction projects.
Learning outcomes of the study program:	• Recognize and define the technical and artistic role of architecture and urbanism in society and communities • Gather, analyze, and interpret information essential for the development of design solutions • Understand the relationship between people and buildings, between buildings and their surroundings, and comprehend the need for buildings and spaces to be adapted to human needs and measures • Acquire design knowledge and skills in exploring spatial aspects through the application of methods for studying, designing, and understanding architectural design tasks • Identify key components of architectural and urban development history that inspire contemporary design

	solutions and develop thought in architecture • Have knowledge of basic principles, typologies, theoretical concepts, and the language used to express ideas in the discipline of architecture and urbanism • Design and independently create parts of architectural and urban documentation for moderately complex buildings • Develop parts of project documentation that meet user requirements within the constraints of building regulations, cost factors, and construction organization for less complex buildings • Identify, draw, and apply knowledge of structural systems, materials, and technical solutions in various building structures • Understand physical issues, as well as building technology and function, to ensure that their interiors provide comfort and protection from climatic influences within the framework of sustainable development.
Opportunities after graduation:	Continuation of studies, graduate university study of Architecture. Employment.

CURRICULUM AND PROGRAM

Semester I	FIRST YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
AR-2.11-01	Engineering mathematics	O	45+45	72	162	6
AR-2.11-02	Engineering physics	O	60+45	84	189	7
AR-2.11-03	Sociology	O	60+45	84	189	7
AR-2.11-04	Computer science	O	30+45	60	135	5
AR-2.11-05	English language	I	30+45	60	135	5
	Total number of hours and ECTS points		450	360	810	30

Semester II	FIRST YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The**	**In total**	**ECTS**

				rest		
AR-2.11-06	Design elements	O	60+45	84	189	7
AR-2.11-07	Mechanics	O	30+45	60	135	5
AR-2.11-08	Draft geometry I	O	30+30	48	108	4
AR-2.11-09	Basics of programming		60+45	84	189	7
AR-2.11-10	Free drawing	I	60+45	84	189	7
	Total number of hours and ECTS points		450	360	810	30

Semester III	SECOND YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
AR-2.11-11	Architectural compositions I	O	30+45	60	135	5
AR-2.11-12	Material resistance	O	60+45	84	189	7
AR-2.11-13	Draft geometry II	O	60+45	84	189	7
AR-2.11-14	Architectural constructions	O	60+45	84	189	7
AR-2.11-15	Theory and history of architecture	I	30+30	48	108	4
	Total number of hours and ECTS points		450	360	810	30

Semester IV	SECOND YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
AR-2.11-16	Design of residential buildings	O	60+45	84	189	7
AR-2.11-17	Statics of architectural structures	O	30+30	102	162	6
AR-2.11-18	Concrete structures	O	45+75	69	189	7
AR-2.11-19	Wooden structures		30+30	75	135	5
AR-2.11-20	Materials in architecture	I	30+30	75	135	5
	Total number of hours and ECTS points		405	405	810	30

Semester V	THIRD YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The**	**In total**	**ECTS**

				rest		
AR-2.11-21	Drawing 1	O	45+75	69	189	7
AR-2.11-21	Designing buildings for education and training	O	60+45	84	189	7
AR-2.11-23	Installations in buildings	O	45+75	69	189	7
AR-2.11-24	Architectural and computer graphics	O	45+30	60	135	5
AR-2.11-25	Chosen subject	I	30+30	48	108	4
	Total number of hours and ECTS points		480	330	810	30

Semester VI	THIRD YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
AR-2.11-26	Designing office buildings	O	30+45	87	162	6
AR-2.11-27	Interior	O	30+30	102	162	6
AR-2.11-28	Drawing 2	O	30+30	102	162	6
AR-2.11-29	Metal structures of buildings	O	45+30	87	162	6
AR-2.11-30	Spatial representations in architecture	I	30+30	102	162	6
	Total number of hours and ECTS points		330	480	810	30

Semester VII	FOURTH YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
AR-2.11-31	Pastic molding	O	30+30	102	162	6
AR-2.11-32	Residential buildings	O	45+45	99	189	7
AR-2.11-33	Basics of calculations and actions on structures	O	30+30	102	162	6
AR-2.11-34	Technical mechanics		45+75	69	189	7
AR-2.11-35	Construction design	I	30+30	48	108	4
	Total number of hours and ECTS points		390	420	810	30

Semestar VII	FOURTH YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
AR-2.11-36	Elective studio - Urban and architectural studio	O	45+30	87	162	6
AR-2.11-37	Technology and organization of citizens	O	30+45	87	462	6
AR-2.11-38	Field teaching	I	15+15	78	108	4
AR-2.11-39	Professional practice	O	45+75	69	189	7
AR-2.11-40	Final work	O	45+75	69	189	7
	Total number of hours and ECTS points		420	390	810	30

GEODESY

CATALOG OF STUDY PROGRAMS

Name of the study program:	**Geodesy**
Cycle:	Integrated study of the first cycle
Type	University integrated undergraduate and graduate studies
Scientific area:	Technical sciences
Scientific field:	Geodesy
Academic title:	Bachelor's degree in geodesy
EQF qualification level	6
Duration of the study program:	Three years (VI semesters)
ECTS:	240
Language:	B/H/S
Method of study:	Full-time, rotating classes in the 6th semester
Holder of the study program:	American Northwest University of Health Science and Technology
Executor of the study program:	American Northwest University of Health Science and Technology- Faculty of Technical Sciences
Objectives of the study program:	The study program is organized with the aim for students to acquire new knowledge in the scientific areas of geology related to the exploration of different energy, metallic, and non-metallic mineral deposits, research on underground waters, preparation of geological, metallogenetic, hydrogeological, and engineering-geological maps, organization and management of geological information systems, as well as environmental protection.
Competencies of the study program	The competencies that students acquire after passing the exam are as follows: • Preparation of detailed geological maps, geological profiles, stratigraphic columns, and interpreters. • Application of acquired knowledge in solving various geological processes and problems based on the evaluation, presentation, and interpretation of various petrological and geochemical data. • Participation in petrological and geochemical research on the content and distribution of macro and microelements, mineral stability, element fractionation and contamination, as well as research on mineral deposits.

	• Proposing appropriate sophisticated analytical methods for determining the composition of stable and radioactive isotopes used in geochronology and geochemistry. • Actively participating in solving various geological problems based on isotopic analysis results, such as determining the age of rocks and minerals and the origin of mineral deposits. • Determining the type of analytical method for identifying major and trace elements and using them to interpret the genesis, formation, and tectonic setting of different types of rocks. • Classification of igneous, metamorphic, and sedimentary rocks using various classification and discrimination diagrams based on chemical analysis results, as well as determining the tectonic environment in which the rocks formed. • Macroscopic and microscopic determination of igneous, metamorphic, and sedimentary rocks, understanding the formation of igneous and metamorphic rocks, and determining the degree of alteration of these rocks. • Basic competencies for comprehensive recognition, understanding, and analysis of general phenomena and problems in geomechanics, as well as finding acceptable solutions. • Planning, supervising, and conducting works in soil and rock mechanics, as well as preparing expert, developmental, and scientific reports, projects, studies; taking a leading role in enterprises and research institutions in developing solutions to geomechanical problems in work environments, considering load-bearing capacity, stability, safety, usability, cost-effectiveness, and environmental protection. • Utilizing acquired knowledge, gaining new knowledge and experiences, making scientifically and professionally sound conclusions, and further developing in terms of scientific and applied research in geomechanics in lifelong learning programs (doctoral studies, specializations, etc.)
Learning outcomes of the study program:	• Identify current modern measurement methods • Analyze geodetic instruments for modern measurement methods • Apply appropriate software support for the obtained measurement data • Demonstrate various modern measurement methods
Opportunities after graduation:	Opportunities for employment and further education at higher levels of education.

CURRICULUM AND PROGRAM

Semester I	FIRST YEAR		Number of hours of student workload			
Code	Subject name	Status	Classes	The rest	In total	ECTS
GE-2.3-03	Mathematics	O	30+45	60	135	5
GE-2.3-01	Physics I	O	45+45	72	162	5
GE-2.3-02	Fundamentals of geoscience	O	30+45	60	135	5
GE-2.3-05	Computer science	O	45+45	72	162	5
GE-2.3-04	Sociology	O	30+30	48	108	5
GE-2.3-06	Elective subject	O	30+30	48	108	5
	Total number of hours and ECTS points		450	360	810	30

Elective subject

English language	**GE-2.3-06**

Semester II	FIRST YEAR		Number of hours of student workload			
Code	Subject name	Status	Classes	The rest	In total	ECTS
GE-2.3-10	Physics II	O	45+60	111	216	8
GE-2.3-07	Photogrammetry and remote sensing	O	45+60	111	216	8
GE-2.3-08	Chosen subject	O	60+45	84	189	7
GE-2.3-09	Draft geometry	O	60+45	111	216	8
GE-2.3-11	Techniques of geodetic measurement	O	45+60	84	189	5
	Total number of hours and ECTS points		420	390	810	36

Elective subject

Programming	**GE-2.3-08-7**

Semester III	SECOND YEAR		Number of hours of student workload			
Code	Subject name	Status	Classes	The rest	In total	ECTS
GE-2.3-15	Theory of measurement errors	O	45+45	72	162	**5**
GE-2.3-13	Engineering geodesy - basic course	O	45+30	87	162	**5**
GE-2.3-16	Geodetic networks	O	45+40	77	162	**5**
GE-2.3-12	Chosen subject	O	45+45	72	162	**5**
GE-2.3-14	Flattening Account - Basic Course	O	45+45	72	162	**5**
	Total number of hours and ECTS points		430	380	810	**25**

Elective subject

Electronics in geodesy	**GE-2.3-12-5**

Semester IV	SECOND YEAR		Number of hours of student workload			
Code	Subject name	Status	Classes	The rest	In total	ECTS
GE-2.3-20	Elective subject	O	45+60	84	189	8
GE-2.3-19	Photogrammetry and DD II	O	60+45	84	189	8
GE-2.3-23	Geodetic survey	O	60+45	111	216	8
GE-2.3-17	Practical teaching in surveying and engineering geodesy - basic course	O	60+45	111	216	7
	Total number of hours and ECTS points		420	390	810	31

Elective subject

Digital terrain model	**GE-2.3-20-8**

Semester V	THIRD YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
GE-2.3-21	Theoretical geodesy	O	45+60	111	216	7
GE-2.3-22	Real estate cadastre	O	45+60	111	216	7
GE-2.3-23	Geodetic metrology	O	45+60	84	189	8
GE-2.3-24	Satellite geodesy	O	60+45	84	189	8
	Total number of hours of ECTS credits		420	390	810	30

Semestar VI	THIRD YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
GE-2.3-25	Arrangement of land territory	O	30+30	48	108	5
GE-2.3-26	Physical geodesy	O	45+45	72	162	5
GE-2.3-27	Final work		0	540	540	20
	Total number of hours and ECTS points		150	660	810	30

CONSTRUCTION

CATALOG OF STUDY PROGRAMS

Name of the study program:	**Construction**
Cycle:	I cycle:
Type	Undergraduate studies
Scientific area:	Technical sciences
Scientific field:	Building
Academic title:	Baccalaureate/ Bachelor of Engineering
EQF qualification level	6
Duration of the study program:	4 years (VIII semester)
ECTS:	240
Language:	B/H/S
Method of study:	Regular, rotating classes in the VIII semester
Holder of the study program:	American Northwest University of Health Science and Technology
Executor of the study program:	American Northwest University of Health Science and Technology - Faculty of Technical Sciences
Objectives of the study program:	• Acquisition of fundamental knowledge: Students are introduced to basic concepts, principles, and theories in the field of civil engineering. • Development of professional skills: Students are trained in the application of engineering tools, techniques, and methods to be able to design, build, and manage various construction projects. • Understanding of construction materials and technologies: Students are introduced to different materials and construction techniques and learn how to select and apply appropriate materials for various types of construction projects. • Development of critical thinking and analytical skills: The program encourages students to develop the ability of critical thinking and analysis to solve complex problems in civil engineering. • Preparation for professional practice: The goal is to equip students for a successful career in the construction industry by providing them with the opportunity to gain practical experience through internships, apprenticeships, or projects in collaboration with the industry

Competencies of the study program:	• ability to apply acquired knowledge from all subject groups of study and technology in civil engineering, • ability to prepare and conduct experiments, and analyze and interpret results, • ability to identify, recognize, describe, and solve professional construction problems, • ability to recognize the interaction between design, construction, and user requirements, • ability to use common computer tools for document preparation, presentations, budget implementation, and simulations, • ability to design buildings at a basic level, • ability to manage a smaller construction project, • ability to size smaller construction structures, • ability to participate as a collaborator in planning, design, implementation, supervision, and maintenance of larger construction projects
Learning outcomes of the study program:	• The student is able to demonstrate the knowledge and understanding acquired through advanced textbooks in the field of civil engineering, as well as some aspects of modern knowledge in civil engineering. • The student can apply knowledge and understanding in a manner characteristic of civil engineering and has competencies that enable them to solve specific problems in construction practice. • The student acquires skills necessary for collecting, analyzing, and interpreting relevant data and drawing conclusions that include moral and ethical principles. • The student can present information, ideas, problems, and their solutions to professional and general audiences. • The student has developed learning skills necessary for lifelong learning and for continuing studies in the 2nd cycle of the civil engineering study program.
Opportunities after graduation:	• Possibility of employment; • The possibility of continuing studies at a higher level of education

CURRICULUM AND PROGRAM

Semester I	FIRST YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
GR-2.3-01	Engineering mathematics I	O	30+45	60	135	5
GR-2.3-02	Construction physics	O	30+45	60	135	5
GR-2.3-03	Theory of constructions	O	30+45	60	135	5
GR-2.3-04	Computer science	O	30+30	48	108	4
GR-2.3-05	English language in construction I	O	30+30	48	108	4
GR-2.3-06	Sociology	O	60+45	84	189	7
	Total number of hours and ECTS points		450	360	810	30

Semester II	FIRST YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
GR-2.3-07	English in construction II	O	45+45	72	162	6
GR-2.3-08	Draft geometry	O	45+45	72	162	6
GR-2.3-09	Introduction to construction	I	45+45	72	162	6
GR-2.3-10	Geodesy	O	45+45	72	162	6
GR-2.3-11	Spatial planning and environment	O	45+45	72	162	6
	Total number of hours and ECTS points		450	360	810	30

Semestar III	SECOND YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
GR-2.3-12	Engineering mathematics	O	30+45	60	135	5
GR-2.3-13	Mechanics I	O	60+45	84	189	7
GR-2.3-14	Engineering Geodesy	O	45+75	69	189	7
GR-2.3-15	Spatial planning	O	45+75	69	189	7
GR-2.3-16	Structural statics I	I	30+30	48	108	4
	Total number of hours and ECTS points		480	330	810	30

Semester IV	SECOND YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
GR-2.3-17	Mechanics II	O	45+75	69	189	7
GR-2.3-18	Basics of programming	O	30+30	102	162	6
GR-2.3-19	Probability and statics	O	45+75	69	189	7
GR-2.3-20	Structural statics II	O	30+30	75	135	5
GR-2.3-21	Railways	I	30+30	75	135	5
	Total number of hours and ECTS points		420	390	810	30

Semester V	THIRD YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
GR-2.3-22	Material resistance I	O	45+75	69	189	7
GR-2.3-23	Hydromechanics	O	60+45	84	189	7
GR-2.3-24	Soil and rock mechanics	O	45+75	69	189	7
GR-2.3-25	Construction materials	O	30+30	48	108	4
GR-2.3-26	Elements of high-rise construction	I	45+30	60	135	5
	Total number of hours and ECTS points		480	330	810	30

Semester VI	THIRD YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
GR-2.3-27	Concrete structures	O	30+45	87	162	6
GR-2.3-28	Wooden structures	O	30+30	102	162	6
GR-2.3-29	Steel structures	O	30+30	102	162	6
GR-2.3-30	Bridges and tunnels	I	30+45	87	162	6
GR-2.3-31	Material resistance II	O	30+30	102	162	6
	Total number of hours and ECTS points		330	480	810	30

Semester VII	FOURTH YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
GR-2.3-32	Construction technology	O	45+45	72	162	6
GR-2.3-33	Geotechnical engineering	O	60+45	84	189	7
GR-2.3-34	Hydraulics	O	45+45	72	162	6
GR-2.3-35	Designing buildings and constructions	O	60+45	84	189	7
GR-2.3-36	Economy and construction regulations	I	30+30	48	108	4
	Total number of hours and ECTS points		450	360	810	30

Semestar VIII	FOURTH YEAR		Number of hours of student workload			
Code	**Subject name**	**Status**	**Classes**	**The rest**	**In total**	**ECTS**
GR-2.3-37	Roads	I	15+15	78	108	4
GR-2.3-38	Hydrotechnical buildings	O	30+45	87	162	6
GR-2.3-39	Construction organization	I	30+45	87	162	6
GR-2.3-40	Professional practice	O	45+75	69	189	7
GR-2.3-41	The final paper	O	45+75	69	189	7
	Total number of hours and ECTS points		420	390	810	30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