



BACHELOR OF NURSING CURRICULUM

AT THE FACULTY OF HEALTH STUDIES IN MOSTAR

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I. INTRODUCTION

The curriculum of the undergraduate university study programme of Nursing is the result of the regular review process, which began with the Decision of the Senate at the session held on February 26, 2022(No. 01-993-1 / 22). The regular revision procedure was carried out according to the Rulebook on the procedure of adopting new and regular revisions of existing study programmes (No. 01-993-1 / 22). It stipulates that the Committee coordinates a revised curriculum. The Committee also includes student representatives and external users, and the scientific-teaching/artistic-teaching council of the organizational unit submits their proposal to the University Senate for adoption.

In order to involve all stakeholders in the process of improving the study programme, a public hearing was held on July 14, 2022 (No. 01-1086/22).

The conclusions of the public debate were taken into account during the development of the curriculum.

In addition to the conclusions of the public debate, the recommendations of the Expert Committee from the last institutional accreditation in 2020 were taken into account. The recommendations include practical work outside the University (where applicable), application of legal and internal acts on the minimum share of pre-examination obligations in the final grade of all courses, and the application of modern teaching methods with the student at the center of the teaching process.

Also, during the development of the curriculum, all strategic tasks in the strategic area of education from the University Development Strategy 2017-2023, which relate to the curriculum and teaching process, were carried out (more in the chapter "3.1. Connection to the University Development Strategy").

In addition, when making decisions on the type of changes, all relevant statistical data and survey results collected and conducted in the period since the last revision/adoption of the study programme were analyzed on June 2, 2021 (No. 01-3666/21).

Taking into account all the above, the following changes have been made in this revised curriculum in comparison to the existing one. The changes can be classified into seven categories: amendments of course titles, amendments of course hours and ECTS points, elimination of outdated compulsory courses for the profession, and introduction of new compulsory courses that contribute to the acquisition of competences and learning outcomes defined by the EU occupational standard, and amendments of course status (elective/compulsory). The essential changes of this revision refer to the decrease in theoretical training, and the increase of the share of practical classes in accordance with the EU directive on regulated professions 2005/36/EC and 2013/55/EU.

In the last fifty years, there have been dramatic changes in all segments of biomedical sciences, especially in nursing. Because of the complexity of health care, the aging of the population, rise in the number of chronic diseases, the introduction of new technologies and expensive procedures, the importance of better training of all health professionals has increased. It is generally accepted that the minimum level required for nursing practice and other health related fields is a bachelor's degree. Namely, in the past nursing skills were very simple and few, such as: bed making, changing the patient's position, cleaning patient rooms and furniture, and administration of enemas. Today, the description of nursing competencies and skills includes numerous, complex skills such as clinical reasoning, application of evidence-based practice, interdisciplinary cooperation and teamwork, health promotion and participation in the care of chronic diseases, such as education of patients with diabetes, chronic obstructive pulmonary disease, care of terminal patients, alongside complex skills such as open heart massage during cardiac surgery.

The result of the Bologna Process is the standardization of higher education in the European Union, which enables increased mobility and employment of employees, including nurses. Acceptance of the Bologna Declaration resulted in the establishment of university health study programmes. University health studies enable the establishment of a system of continuous training, renewal of knowledge and acquisition of the latest knowledge, as well as constant monitoring and recognition of the priorities of healthcare needs in the country and the European environment.

2. GENERAL INFORMATION ON THE STUDY PROGRAM

Study program	Nursing
Cycle	First cycle (undergraduate study)
Type	University study
Scientific area	Biomedicine and healthcare
Scientific field	Clinical Medical Sciences/Health Sciences
Academic title	Bachelor of Nursing
EQF qualification level	6
Duration of study program	3 years, 180 ECTS
Total number of ECTS credits	3 years/180 ECTS
Language	Croatian language
Mode of study	Full time/Part time
Institution administering study programme	University of Mostar
Home Institution	University of Mostar, Faculty of Health Studies
Objectives of the study program	<p>Train a bachelor of nursing for independent, responsible and professional implementation of healthcare in clinical hospitals, healthcare centers and institutes.</p> <p>Provide an educational framework that will encourage the development of analytical and critical thinking skills and thus ensure a competent approach to the theory and practice of nursing.</p> <p>Develop awareness of the relevant and latest research evidence, and facilitate its application/implementation into the nursing practice.</p> <p>Develop the ability to make timely and prudent judgments, as well as provide internationally recognized professional higher education for work in the field of healthcare and enable the student to acquire the necessary competencies for work in the nursing profession and for continuing studies at graduate level.</p>
Competencies of the study program	<ol style="list-style-type: none"> 1. knowledge of science on which general healthcare is based, including a sufficient understanding of the structure, physiological functions and behavior of the healthy and ill, as well as the relationship between the state of health of a person and his physical and social environment 2. assessment, planning, implementation and evaluation of healthcare in collaboration with patient/client, caregiver, family, and other health professionals using theoretical and clinical knowledge 3. understanding and application of basic ethical principles and legal regulations in nursing practice 4. Application of effective communication skills with the patient/user and his family, and other members of the interdisciplinary team 5. participation in information, health promotion and education regarding patient care 6. application of life-saving measures in crisis and danger in accordance with professional competences 7. development, planning, implementation, evaluation, and supervision of nursing documentation 8. application of information technologies and databases, as well

	<p>as appropriate statistical methods using professional literature for the purpose of advancing knowledge and skills</p> <p>9. participation in the education of nursing students and related professions.</p>
<p>Learning outcomes of the study program</p>	<ol style="list-style-type: none"> 1. Explains basic terms and laws of biological functions, anatomy and physiology of the organism, and pharmacology, as well as the relationship between health and the physical and social environment of man and his behavior (FZSSB-IU-1) 2. Performs chemical, biochemical and microbiological analyzes to prove pathological or normally present components in biological fluids (FZSSB-IU-2) 3. recognizes problems and reacts according to professional and ethical principles and legislative regulations in everyday nursing practice (FZSSB-IU-3) 4. organizes and supervises nursing care for different users in different health and social institutions and their homes (FZSSB-IU-4) 5. manages a healthcare team and cooperates with the multidisciplinary healthcare team at all levels of healthcare (FZSSB-IU-5) 6. evaluates, educates, promotes and supports the preservation of health, leads and supervises health care aimed at meeting basic human needs in cooperation with the patient/client, caregiver, family, and other health professionals using theoretical and clinical knowledge (FZSSB-IU-6) 7. evaluates the patient condition using aids while taking into account physical, social, cultural, psychological, spiritual, and environmental factors (FZSSB-IU-7) 8. recognizes and interprets conditions that deviate from the normal and, based on data analysis and synthesis, makes decisions in the healthcare process (FZSSB-IU-8) 9. participates in the planning and implementation of diagnostic and therapeutic procedures that are prescribed and carried out under the supervision of a doctor specialist (FZSSB-IU-9) 10. recognizes and reacts in crisis and emergency situations, independently applies life-saving measures and intervenes in accordance with professional competences (FZSSB-IU-10) 11. adapts communication to the needs of the interlocutor and the situation (FZSSB-IU-11) 12. participates in the education and professional development of nurses/technicians, health and social workers, and students (FZSSB-IU-12) 13. supervises the implementation and application of disinfection and sterilization methods and measures, and maintains a healthy and safe working environment (FZSSB-IU-13) 14. uses technology and information technology, finds and evaluates information in nursing, applies principles of evidence-based medicine and critical thinking (FZSSB-IU-14) 15. recognizes and applies the elements of the health and social care financing system (FZSSB-IU-15) 16. keeps nursing documentation and evaluates achieved objectives in health care (FZSSB-IU-16)

	<p>17. explains and applies the methods of research work and statistical data processing, independently monitors and evaluates the results of one's own work and follows professional literature (FZSSB-IU-17)</p> <p>18. creates a structured text using basic medical and health terminology, elaborates professional health topics and presents professional papers in a foreign language (FZSSB-IU-18)</p>
Opportunity after graduation	After the successful completion of undergraduate studies, students have the opportunity to work in public and private health care institutions and continue their education at graduate studies.
Accreditation	The University of Mostar received a Decision on Institutional Reaccreditation on 14 January 2020 from the competent Ministry of Education, Science, Culture and Sports of the HNŽ on the recommendation of the Agency for Development of Higher Education and Quality Assurance of BiH, after which the University was registered in the State Register of Accredited Higher Education Institutions.

3. CHARACTERISTICS OF THE STUDY PROGRAM

3.1. Correlation with the University development strategy

In the *Development Strategy of the University of Mostar 2018 - 2023* in the strategic field of education, several strategic goals are related to the curriculum and its elements.

Objective 1 defines that the University, in cooperation with stakeholders, will develop, approve, implement and continuously monitor and improve study programmes at all levels. The following tasks arise from clearly defined learning outcomes related to labour market needs, following the European Qualifications Framework (EQF):

- Task 1: clearly define the objectives and anticipated learning outcomes of each study programme and harmonize the content of the study programme with them, following the appropriate level of the European Qualifications Framework and the qualification standard
- Task 2: Introduce a transparent and consistent process of revision and improvement of study programmes with the participation of students and other stakeholders
- Task 5: ensure realistic allocation of ECTS credits, through a defined system of ECTS coordination at all study levels
- Task 6: improve the interdisciplinarity of all study programmes by enabling elective courses at the university level.

Objective 3 refers to the development of a wide network of teaching bases, including organizations from different fields of activity, to establish cooperation that will enable the connection of practice, science, art, and higher education. The following tasks arise from it:

- Task 2: increase the number of hours and the share of teaching practice in the study programmes and the share of ECTS credits acquired by it
- Task 3: increase the number of bachelor/master papers related to the topic and content.

Key strategic postulates of the Faculty of Health Studies that lead to realization of the vision while respecting the mission and academic values of the University are modern study programmes that will be directed towards the development of a wide range of competencies, as well as education and activities that will be directed towards the development of the economy, society and culture.

University studies at the Faculty of Health Studies of the University of Mostar enable the establishment of a system of continuous training, refresher training and acquisition of latest cognitions, as well as constant monitoring and recognition of the priorities of healthcare needs in the country and the European environment. Healthcare in Bosnia and Herzegovina needs highly educated nurses/medical technicians who will master the specific knowledge and skills of nursing care, but also nurses educated in the field of management and leadership, public health and education. At the first level (undergraduate studies), training is focused on basic nursing skills. According to the instructions of the World Health Organization, the academic level of education of all nurses and other health professionals must be at EQF Level 6. A special strategic goal is basic skills training necessary for independent work performance, and this includes a three-year education with a load of 180 ECTS-points, after which the student is awarded a title of bachelor.

3.2. Corelation with scientific/artistic achievements of certain scientific fields and labor market and correlation with occupational/qualification standards

Objectives, competencies, and learning outcomes at the level of the study programme are defined in a way that is in line with the achievements of a particular Biomedicine and healthcare area and labour market and related to the standards of the Directives on regulated or ruled professions, 2005/36/EC and 2013/55/EU. To harmonize with the achievements of the particular Biomedicine and healthcare, the representatives of teachers in the Committee for the development of the revised curriculum and other teachers who participated in the development of syllabi for each course took into account current achievements and trends in scientific area

Biomedicine and healthcare, field Clinical Medical Sciences/Health Sciences, branch Nursing relating to university undergraduate study programme of Nursing.

In addition to the above document, the following documents were also considered:

- EU Directives on regulated or ruled professions 2005/36/EC and 2013/55/EU,
- WHO guidelines on preservation and improvement of health (WHO guidelines for 21st century)
- Munich Declaration, 2000,
- The Decision of the Council of Ministers of Bosnia and Herzegovina on the Adoption of the Road Map for Implementation of the EU Directive 2005/36/EC and 2013/55/EU on Regulated Profession (Official Gazette of B&H, no. 10/16),
- Law on Healthcare (Official Gazette of the Federation of B&H No. 41/10 and 75/13),
- Rulebook on internships and professional exams for health professionals (Official Gazette of the FB&H, 51/17),
- Rulebook on Amendments to the Rulebook on internship and professional examination of healthcare workers.

Jobs/competencies/learning outcomes from all the above documents are implemented in the competencies and learning outcomes at the level of the study programme listed in chapter "2. General information about the study programme". They are realised in core courses, in order to ensure that all students achieve them with the acquired qualification. The coverage of these learning outcomes at the level of the study programme with the learning outcomes at the level of core courses is presented in the chapter "3.12. Matrix of learning outcomes".

Nursing as a profession is included in the regulated professions that must harmonize their education with the requirements of the EU Directive 2005/36/EC as well as with the Act on Regulated Professions and the Recognition of Foreign Professional Qualifications. The Faculty of Health Studies in Mostar is an institution to which the entire southern Bosnia and Herzegovina and a part of neighboring Croatia gravitate. Therefore, an undergraduate study of Nursing is absolutely justified for the education of medical staff needed in our healthcare institutions. The study programme of Nursing was established at the Faculty of Health Studies in 2000. Accordingly, its expediency with regard to the needs of the labor market in the public and private sector has been validated and confirmed on several occasions. In short, the current number of students who annually enroll to the undergraduate university studies of Nursing is in line with real social needs. Also, according to current data, the number of unemployed nurses/medical technicians who have passed the state exam is negligible.

3.3. Comparability with study program in the country and abroad

Study programme performed at the Nursing department and the development of nursing as a profession are in line with European standards, and the study programme is based on close cooperation with other institutions of a similar profile in the Republic of Croatia (Faculty of Health Studies in Rijeka). Comparability is reflected exclusively in the competencies and learning outcomes at the level of study programmes and in the duration of studies, while the study programme retains its specifics mainly through the structure, course names, and ECTS credits.

3.4. Student mobility

Student mobility is defined by the Rulebook on international mobility, which refers to administrative support for students, student mobility documents, insurance, method of application, the procedure for recognizing mobility and information package. The unique recognition methodology is defined at the university level by the Senate Decision on the adoption of a single form for the Decision on recognition of courses, ECTS credits, grades, and professional practice during student mobility, which is recorded in the diploma supplement. Students can find information on mobility programmes and accompanying forms on the University's website and through the Vice Dean for Quality and Inter-Institutional Cooperation who forwards information from the International Office to student representatives.

3.5. Conditions for enrolment in the study program and transfer from other study programs

The *Rulebook on Study of the University of Mostar* defines the right to enrol in undergraduate, graduate, and integrated study programmes, which is done through a public competition. The Senate, at the proposal of the scientific-teaching / artistic-teaching council of the organizational unit, and with the consent of the Governing Board of the University and the competent Ministry of Education, Science, Culture and Sports of the Herezegovina Neretva County, announces a public tender. It is published on the website and bulletin board of the Faculty of Health Studies, which contains information on the conditions for enrolment, entrance examination, tuition fees, criteria for selecting candidates, and other information. When transferring from other study programmes, a request is submitted to the dean Faculty of Health Studies, and the appropriate committee decides on the possibilities and conditions for enrolment.

Applicants who enroll at the Faculty, and during their previous education did not study Latin for at least 1 year, must enroll in the Latin language course in the first year of study with the load of 20 hours of lectures and pass the same course before enrolling in the first year of study.

3.6. Conditions for enrollment in the next semester and year of study and graduation

Conditions for enrollment in the next semester and year of study are defined by the *Rulebook on Study of the University of Mostar* and the general act of the Faculty of Health Studies.

The study program is completed by writing and defending the final theses worth 5 ECTS credits. The procedure of the defense and thesis's methodology are defined by the *Rulebook on Study of the University of Mostar* and the general act of the Faculty of Health Studies.

3.7. Organization of the study program

The study is organized as a three-year study programme for a total of six semesters. Classes are organized in a block system, and detailed schedules are disclosed per semester and study group. In accordance with the principles of the Bologna Declaration, the proposed study program is structured and evaluated with ECTS credits. Study programs are divided into study years and semesters. In accordance with ECTS credits, one academic year of the study program is worth 60 ECTS, or 30 ECTS credits for one semester.

Students can study as full-time or part-time students. Full-time students are those who study according to the full-time teaching schedule. Part-time students are students who enroll the study program alongside work or other activity. The syllabus of each course defines the amount and type of classes that part-time students are required to attend and alternatively, the workload for the part of classes that they are not required to attend. Part-time students should attend at least 50% of lectures and seminars (by own choice) and perform practicals to the extent specified for part-time students.

Summer clinical practice is a mandatory form of the teaching process that is carried out in accordance with the study curriculum and the annual study plan. As a rule, the student performs clinical practice at the University Clinical Hospital Mostar as a constituent unit of the University of Mostar, the Healthcare Center Mostar or some other teaching base with which the Faculty has a contractual agreement, according to the schedule established by the competent Committee. With the approval of the Committee, a student can also perform the clinical in an institution or company that has an organizational unit that deals with professional tasks that are in line with the professional profile of his studies. During clinical practice, the student performs the skills prescribed by the study plan listed in the clinical practice booklet. Successful fulfillment of the above-mentioned obligations is a condition for semester verification and enrollment in the next semester/year of study.

3.8. Structure of the study program

The structure of the study programme is reflected in the number of hours of each type of teaching and teaching in total, the number of hours of practice, and the number of hours of independent student work in the total student workload of 5400 hours. According to the *Rulebook on the procedure for adopting new and regular revisions of existing study programmes* (No. 01-993-1/22), only core courses are listed in the curriculum, while electives are

adopted in the annual curriculum for each academic year. Therefore, the table will show the number of hours of each type of teaching and teaching in total, the number of hours of practice, and the number of hours of independent work only in core courses.

The student is obliged to choose one of the offered foreign languages (English or German), which are offered in the second and fourth semesters, with 2 ECTS credits in the 2nd semester and 1.5 ECTS credits in the 4th semester. Regardless of the foreign language the student chooses, they acquire competencies and learning outcomes defined at the level of the study programme in accordance with the EU directive.

In relation to the total number of ECTS credits, a sum of ECTS credits acquired in elective courses is 4 ECTS, and the student can choose a total of 4 elective courses. Besides core and elective courses at the level of the study programme and at the level of organizational unit, i.e., in addition to 30 ECTS credits per semester, a student can choose university elective courses from the list adopted by the Senate each academic year, which are recorded in diploma supplement. The purpose of elective courses at the study programme level is a more detailed elaboration of learning outcomes already acquired in core courses but following student preferences. The purpose of university elective courses is to acquire competencies not provided by the study programme, but that can help students achieve competitiveness in the market and contribute to building one's personality through education.

Table 3.8.1 Representation of teaching load, hours of theory and practice, and the share of workload in the undergraduate university study programme of Nursing

Form of teaching	1 st year	2 nd year	3 rd year	Total	%
Lectures	380	380	280	1040	19%
Seminars	180	155	75	410	8%
Practicals	635	690	865	2190	40%
Summer clinical practice	300	360	300	960	18%
Independent work	305	215	280	800	15%
Total	1800	1800	1800	5400	100,00%

Table 3.8.2 The share of workload in the study programme in relation to the theoretical and clinical training of the undergraduate university study of Nursing

In accordance with the EU Directives, education of nurses comprises at least three years of study or 4,600 hours of theoretical and clinical training, whereby the duration of theoretical training represents at least one third, and the duration of clinical training at least one half of the minimum duration of training.

Load type	Number of hours	Share %
Theoretical teaching	1450	31,5%
Clinical teaching	3150	68,5%
Total	4600	100%

Table 3.8.3 Share of workload in the curriculum per module

Title of Module	ECTS	%
Nursing Module	105,5	58,6%
Clinical sciences Module	21,5	12%
Basic sciences Module	18	10%
Public health Module	6	3,3%
Medical humanities Module	13	7,2%
Science and health Module	12	6,7%
Elective courses	4	2,2%
TOTAL	180	100%

Student independent work of 800 hours includes the time a student needs for independent study of the subject, preparation of seminars, mid-terms, final tests, preparation and writing of final and diploma theses, not counting contact hours with the teacher (lectures, seminars, practicals, and professional practice). Load of independent work is defined in the syllabus of each individual course (and in this case is 14.8%).

The undergraduate university study programme of Nursing consists of six modules with 40 compulsory and 4 elective courses, nursing summer clinical practice at the end of each year of study in the duration of 900 hours, and the final thesis of 150 hours.

Four elective courses (2.2% of the total program points) are offered from the nursing, basic and clinical sciences, public health, medical humanities, and science and health modules. The decision on elective courses to be taken in the current academic year is ruled by the Scientific Teaching Council of the Faculty of Health Studies in accordance with the needs for the improvement of the teaching program.

Table 1 Structures of the undergraduate university study programme of Nursing with shares of forms of teaching, clinical practice and independent work

1 st year									
1st Winter semester									
Course code	Course title	Teaching hours			I. In total teaching	II. Clinical practice	III. Independent work	Load hours (I.+II.+III.)	ECTS
		L*	P*	S*					
FZSSB101	Philosophy and ethics in nursing	25	5	20	50	0	10	60	2
FZSSB102	Anatomy	30	35	0	65	0	55	120	4
FZSSB103	Physiology and pathophysiology	50	25	20	95	0	55	150	5
FZSSB104	Microbiology and parasitology	30	30	10	70	0	20	90	3
FZSSB105	Biochemistry	15	30	0	45	0	15	60	2
FZSSB106	Basics of nursing care	40	200	20	260	0	10	270	9
FZSSB107	Dietetics	15	20	15	50	0	10	60	2
FZSSB108	Legislation in health and social care	15	15	15	45	0	15	60	2
Total		220	360	100	680	0	190	870	29
ECTS compulsory courses									29
ECTS elective courses									1
ECTS TOTAL									30

1 st year									
2nd Summer semester									
Course code	Course title	Teaching hours			I. In total teaching	II. Clinical practice	III. Independent work	Load hours (I.+II.+III.)	ECTS
		L*	P*	S*					
FZSSB209	Pathology	20	10	10	40	0	20	60	2
FZSSB210	The proces of nursing care	30	195	10	235	0	20	255	8,5
FZSSB211	Informatics in nursing care	15	25	0	40	0	20	60	2
FZSSB212	Foreign language I	0	0	30	30	0	15	45	1,5
FZSSB213	Communication skills	15	20	0	35	0	10	45	1,5
FZSSB214	Sociology of health	20	0	15	35	0	10	45	1,5
FZSSB215	Health psychology	20	0	0	20	0	10	30	1
FZSSB216	Epidemiology and public health	30	15	10	55	0	5	60	2
FZSSB217	Summer clinical practice I	0	0	0	0	300	0	300	10
Total		150	265	75	490	300	110	900	30
ECTS compulsory courses									30
ECTS elective courses									0
ECTS TOTAL									30

2 nd year									
3rd Winter semester									
Course code	Course title	Teaching hours			I. In total teaching	II. Clinical practice	III. Independent work	Load hours (I.+II.+III.)	ECTS
		L*	P*	S*					
FZSSB318	Pharmacology	40	20	0	60	0	30	90	3
FZSSB319	Clinical propaedeutics	20	30	0	50	0	10	60	2
FZSSB320	Clinical medicine I	70	20	0	90	0	30	120	4
FZSSB321	Adult nursing care I	40	200	20	260	0	10	270	9
FZSSB322	Foreign language II	0	0	40	40	0	20	60	2
FZSSB323	Gynecology	25	0	15	40	0	20	60	2
FZSSB324	Maternal and newborn health care	30	180	20	230	0	10	240	8
Total		225	450	95	770	0	130	900	30
ECTS compulsory courses									30
ECTS elective courses									0
ECTS TOTAL									30

2 nd year									
4th Summer semester									
Course code	Course title	Teaching hours			I. In total teaching	II. Clinical practice	III. Independent work	Load hours (I.+II.+III.)	ECTS
		L*	P*	S*					
FZSSB425	Pediatrics	30	10	5	45	0	15	60	2
FZSSB426	Child health care	20	170	5	195	0	15	210	7
FZSSB427	Clinical medicine II	70	10	25	105	0	30	135	4,5
FZSSB428	Methods of health education and health promotion	10	25	15	50	0	10	60	2
FZSSB429	Learning and teaching methods	15	15	5	35	0	10	45	1,5
FZSSB430	Summer clinical practice II	0	0	0	0	360	0	360	12
Total		145	230	55	430	360	80	870	29
ECTS compulsory courses									29
ECTS elective courses									1
ECTS TOTAL									30

3 rd year									
5th Winter semester									
Course code	Course title	Teaching hours			I. In total teaching	II. Clinical practice	III. Independent work	Load hours (I.+II.+III.)	ECTS
		L*	P*	S*					
FZSSB531	Adult nursing care II	30	250	5	285	0	15	300	10
FZSSB532	Community-based health care	30	60	15	105	0	15	120	4
FZSSB533	Organization, management and administration in health care	20	10	10	40	0	20	60	2
FZSSB534	Palliative care	10	65	0	75	0	15	90	3
FZSSB535	Psychiatry and mental health	30	5	10	45	0	15	60	2
FZSSB536	Health care of psychiatric patients	30	110	0	140	0	10	150	5
FZSSB537	Health care for people with disabilities	15	55	10	80	0	10	90	3
Total		165	555	50	770	0	100	870	29
ECTS compulsory courses									29
ECTS elective courses									1
ECTS TOTAL									30

3 rd year									
6th Summer semester									
Course code	Course title	Teaching hours			I. In total teaching	II. Clinical practice	III. Independent work	Load hours (I.+II.+III.)	ECTS
		L*	P*	S*					
FZSSB638	Basics of scientific research work	20	50	5	75	0	15	90	3
FZSSB639	Basics of biomedical statistics	15	35	0	50	0	10	60	2
FZSSB640	Home health care	20	55	0	75	0	15	90	3
FZSSB641	Biophysics and protection against ionizing radiation	10	25	10	45	0	15	60	2
FZSSB642	Health care of elderly	30	75	0	105	0	15	120	4
FZSSB643	Summer clinical practice III	0	0	0	0	300	0	300	10
FZSZAB653	Final thesis	0	50	0	50	0	100	150	5
Total		95	290	15	400	300	170	870	29
ECTS compulsory courses									29
ECTS elective courses									1
ECTS TOTAL									30

L – lectures, P - practicals, S*- seminars

Table 5 List of compulsory courses with ECTS point per module

Title of Module	Course	ECTS
Nursing Module	1. Basic of nursing care	9
	2. The proces of nursing care	8,5
	3. Adult nursing care I	9
	4. Maternal and newborn health care	8
	5. Child health care	7
	6. Adult nursing care II	10
	7. Community-based health care	4
	8. Palliative care	3
	9. Health care of psychiatric patients	5
	10. Health care for people with disabilities	3
	11. Home health care	3
	12. Health care of elderly	4
	13. Summer clinical practice I, II i III	32
Total	105,5	

Title of Module	Course	ECTS
Clinical sciences Module	1. Microbiology and parasitology	3
	2. Clinical propaedeutics	2
	3. Clinical medicine I	4
	4. Clinical medicine II	4,5
	5. Gynecology	2
	6. Pediatrics	2
	7. Psychiatry and mental health	2
	8. Biophysics and protection against ionizing radiation	2
Total	21,5	

Title of Module	Course	ECTS
Basic sciences Module	1. Anatomy	4
	2. Physiology and pathophysiology	5
	3. Pathology	2
	4. Pharmacology	3
	5. Biochemistry	2
	6. Dietetics	2
Total	18	

Title of Module	Course	ECTS
Public health Module	1. Methods of health education and health promotion	2
	2. Epidemiology and public health	2
	3. Organization, management and administration in health care	2
Total	6	

Title of Module	Predmet	ECTS
Medical humanities Module	1. Philosophy and ethics in nursing	2
	2. Communication skills	1,5
	3. Sociology of health	2
	4. Foreign language I i II	3,5
	5. Learning and teaching methods	1,5
	6. Health psychology	1
	7. Sociology of health	1,5
Total	13	

Title of Module	Course	ECTS
Science and health Module	1. Informatics in nursing care	2
	2. Basics of biomedical statistics	2
	3. Basics of scientific research work	3
	4. Final thesis	5
	Total	12

Title of Module	Course	ECTS
Elective courses	Elective courses 1, 2, 3 i 4	4
	Total	4

3.9. Optimal number of enrolled students with regard to space, equipment and number of teachers

Enrolment quotas before the beginning of each academic year are adopted by the Governing Board of the University, at the proposal of the Senate, and with the consent of the competent ministry.

Students can study as full-time or part-time students. Full-time students are those who study according to the programme with a full teaching schedule. Part-time students are students who attend the study programme in addition to work or other activities.

3.10. Resources needed for conducting the study program

Teachers from the University and teachers from reference higher education institutions in academic ranks from the relevant scientific area, field, and branch participate in the implementation of the study programme. Data on the structure of teaching staff by rank and education, gender and age structure, scientific research productivity, mobility, and project activities of teaching staff are regularly monitored through the bodies from the quality assurance system. These data are processed at the level of the study programme and organizational unit, and are published in annual reports.

In terms of physical resources for the implementation of study programmes, the Faculty of Health Studies has classrooms with classic and modern audio-visual equipment, a cabinet equipped with multimedia and video equipment, a TV system, IT equipment with a maximum of two students per computer, a library - an IT center, and a microbiological research laboratory. Healthcare cabinet with simulation models and clinical skills cabinet. Clinical hospital wards with equipment for performance of health care. The Faculty of Health Studies has a Clinical Skills Cabinet equipped with highly sophisticated models - simulators.

Based on the signed cooperation agreements, the resources of other institutions are also used for the performance of the undergraduate university study programme of Nursing: University Clinical Hospital Mostar, the Institute of Public Health, the Health center Mostar, and School of Medicine of the University of Mostar.

3.11. Quality assurance of the study program

The purpose, goal, structure, operation and areas of evaluation of the quality assurance system of the University of Mostar are defined by the *Rulebook on the structure and operation of the quality assurance system of the University of Mostar*.

According to the *Rulebook*, the quality assurance system at the University of Mostar consists of permanent bodies of the quality assurance system at the university level: the Quality Assurance and Improvement Committee and the Office for Quality Assurance and Improvement. The Faculty of Health Studies is operated by the Quality Assurance and Improvement Committee, which consists of the Vice Dean for Teaching, the Quality Coordinator, the representative of the teaching staff, the student representative, and the representative of the

administrative and technical staff. The Quality Coordinator Faculty of Health Studies is also a member of the Quality Assurance and Improvement Committee.

The *Rulebook* defines the competencies and activities of each body from the quality assurance system. Bodies from the quality assurance system carry out regular activities defined by the *University Quality Assurance Manual at the University of Mostar*, which relate to conducting surveys and monitoring and data processing. Based on the implemented activities, annual reports are prepared at the level of the study programme, organizational unit, and the University.

3.12. Learning outcomes matrix

IU-study program IU-course	FZSSB-IU-1	FZSSB-IU-2	FZSSB-IU-3	FZSSB-IU-4	FZSSB-IU-5	FZSSB-IU-6	FZSSB-IU-7	FZSSB-IU-8	FZSSB-IU-9	FZSSB-IU-10	FZSSB-IU-11	FZSSB-IU-12	FZSSB-IU-13	FZSSB-IU-14	FZSSB-IU-15	FZSSB-IU-16	FZSSB-IU-17	FZSSB-IU-18
IU-FZSSB101			x					x		x	x	x					x	
IU-FZSSB102	x																	
IU-FZSSB103	x																	
IU-FZSSB104	x	x	x	x	x	x	x		x	x	x	x	x					
IU-FZSSB105	x	x																
IU-FZSSB106			x			x	x	x	x		x		x	x		x		
IU-FZSSB107	x					x	x	x			x	x	x	x		x		
IU-FZSSB108			x	x	x													
IU-FZSSB209	x				x								x					
IU-FZSSB210			x				x	x			x					x		
IU-FZSSB211														x		x	x	
IU-FZSSB212																		x
IU-FZSSB212-A																		x
IU-FZSSB213											x			x				
IU-FZSSB214	x		x			x	x											
IU-FZSSB215	x					x			x		x							
IU-FZSSB216		x	x	x	x	x					x		x	x			x	
IU-FZSSB217	x		x		x	x	x	x	x	x	x		x	x		x		
IU-FZSSB318			x															
IU-FZSSB319	x		x	x			x	x	x	x		x						
IU-FZSSB320	x				x	x	x		x	x								
IU-FZSSB321	x		x	x		x	x	x	x	x	x		x			x		
IU-FZSSB322																		x
IU-FZSSB322-A																		x
IU-FZSSB323	x		x		x	x	x		x		x	x				x		
IU-FZSSB324	x				x	x	x	x	x		x			x		x		
IU-FZSSB425		x	x					x	x	x	x		x					

IU-study program IU-course	FZSSB- IU-1	FZSSB- IU-2	FZSSB- IU-3	FZSSB- IU-4	FZSSB- IU-5	FZSSB- IU-6	FZSSB- IU-7	FZSSB- IU-8	FZSSB- IU-9	FZSSB- IU-10	FZSSB- IU-11	FZSSB- IU-12	FZSSB- IU-13	FZSSB- IU-14	FZSSB- IU-15	FZSSB- IU-16	FZSSB- IU-17	FZSSB- IU-18
IU-FZSSB426	x		x	x		x		x	x	x	x			x				
IU-FZSSB427	x		x	x		x	x	x	x	x			x					
IU-FZSSB428						x					x	x		x				
IU-FZSSB429											x	x						
IU-FZSSB430	x		x		x	x	x	x		x	x		x			x		
IU-FZSSB531	x	x	x		x	x	x	x	x	x	x		x		x	x		
IU-FZSSB532	x		x	x	x	x	x	x			x							
IU-FZSSB533	x				x		x		x				x	x	x			
IU-FZSSB534	x		x	x			x	x			x					x		
IU-FZSSB535	x			x	x	x			x	x	x							
IU-FZSSB536			x		x			x	x		x				x			
IU-FZSSB537	x		x	x		x	x	x	x		x				x	x		
IU-FZSSB638																	x	x
IU-FZSSB639														x			x	x
IU-FZSSB640			x		x	x	x		x	x	x		x			x		
IU-FZSSB641	x								x		x							
IU-FZSSB642	x		x	x	x	x	x	x	x		x							
IU-FZSSB643			x	x	x	x	x	x	x	x	x		x			x		

4. CURRICULUM

1 st year							
1th winter semester							
Course code	Course title	Course status	Teaching hours			Hours of practice	ECTS
			L	P	S		
FZSSB101	Philosophy and ethics in nursing	Compulsory	25	5	20	0	2
FZSSB102	Anatomy	Compulsory	30	35	0	0	4
FZSSB103	Physiology and pathophysiology	Compulsory	50	25	20	0	5
FZSSB104	Microbiology and parasitology	Compulsory	30	30	10	0	3
FZSSB105	Biochemistry	Compulsory	15	30	0	0	2
FZSSB106	Basics of nursing care	Compulsory	40	200	20	0	9
FZSSB107	Dietetics	Compulsory	15	20	15	0	2
FZSSB108	Legislation in health and social care	Compulsory	15	15	15	0	2
ECTS for core courses							29
ECTS for elective courses							1
ECTS IN TOTAL							30

1 st year							
2th Summer semester							
Course code	Course title	Course status	Teaching hours			Hours of practice	ECTS
			L	P	S		
FZSSB209	Pathology	Compulsory	20	10	10	0	2
FZSSB210	The proces of nursing care	Compulsory	30	195	10	0	8,5
FZSSB211	Informatics in nursing care	Compulsory	15	25	0	0	2
FZSSB212	Foreign language I	Compulsory	0	0	30	0	1,5
FZSSB213	Communication skills	Compulsory	15	20	0	0	1,5
FZSSB214	Sociology of health	Compulsory	20	0	15	0	1,5
FZSSB215	Health psychology	Compulsory	20	0	0	0	1
FZSSB216	Epidemiology and public health	Compulsory	30	15	10	0	2
FZSSB217	Summer clinical practice I	Compulsory	0	0	0	300	10
ECTS for core courses							30
ECTS for elective courses							0
ECTS IN TOTAL							30

2 st year							
3th winter semester							
Course code	Course title	Course status	Teaching hours			Hours of practice	ECTS
			L	P	S		
FZSSB318	Pharmacology	Compulsory	40	20	0	0	3
FZSSB319	Clinical propaedeutics	Compulsory	20	30	0	0	2
FZSSB320	Clinical medicine I	Compulsory	70	20	0	0	4
FZSSB321	Adult nursing care I	Compulsory	40	200	20	0	9
FZSSB322	Foreign language II	Compulsory	0	0	40	0	2
FZSSB323	Gynecology	Compulsory	25	0	15	0	2
FZSSB324	Maternal and newborn health care	Compulsory	30	180	20	0	8
ECTS for core courses							30
ECTS for elective courses							0
ECTS IN TOTAL							30

2 st year							
IV. ljetni semestar							
Course code	Course title	Course status	Teaching hours			Hours of practice	ECTS
			L	P	S		
FZSSB425	Pediatrics	Compulsory	30	10	5	0	2
FZSSB426	Child health care	Compulsory	20	170	5	0	7
FZSSB427	Clinical medicine II	Compulsory	70	10	25	0	4,5
FZSSB428	Methods of health education and health promotion	Compulsory	10	25	15	0	2
FZSSB429	Learning and teaching methods	Compulsory	15	15	5	0	1,5
FZSSB430	Summer clinical practice II	Compulsory	0	0	0	360	12
ECTS for core courses							29
ECTS for elective courses							1
ECTS IN TOTAL							30

3 st year							
5th winter semester							
Course code	Course title	Course status	Teaching hours			Hours of practice	ECTS
			L	P	S		
FZSSB531	Adult nursing care II	Compulsory	30	250	5	0	10
FZSSB532	Community-based health care	Compulsory	30	60	15	0	4
FZSSB533	Organization, management and administration in health care	Compulsory	20	10	10	0	2
FZSSB534	Palliative care	Compulsory	10	65	0	0	3
FZSSB535	Psychiatry and mental health	Compulsory	30	5	10	0	2
FZSSB536	Health care of psychiatric patients	Compulsory	30	110	0	0	5
FZSSB537	Health care for people with disabilities	Compulsory	15	55	10	0	3
ECTS for core courses							29
ECTS for elective courses							1
ECTS IN TOTAL							30

3 st year							
6th Summer semester							
Course code	Course title	Course status	Teaching hours			Hours of practice	ECTS
			L	P	S		
FZSSB638	Basics of scientific research work	Compulsory	20	50	5	0	3
FZSSB639	Basics of biomedical statistics	Compulsory	15	35	0	0	2
FZSSB640	Home health care	Compulsory	20	55	0	0	3
FZSSB641	Biophysics and protection against ionizing radiation	Compulsory	10	25	10	0	2
FZSSB642	Health care of elderly	Compulsory	30	75	0	0	4
FZSSB643	Summer clinical practice III	Compulsory	0	0	0	300	10
FZSZAB653	Final thesis	Compulsory	0	50	0	0	5
ECTS for core courses							29
ECTS for elective courses							1
ECTS IN TOTAL							30

L – lectures, P - practicals, S*- seminars

