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*MASTER OF MIDWIFERY CURRICULUM AT THE FACULTY OF  
HEALTH STUDIES IN MOSTAR*

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May, 2022

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## 1. INTRODUCTION

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### 1.1. Assessment of reasonableness of course organization

The new Master of Midwifery Studies program is the continuation of the university undergraduate study of Midwifery and alongside scientific approach and clinical teaching it enables the development of new university educated professionals from the field of midwifery care, which represents a new breakthrough in university education within the scientific field of Midwifery. Therefore the proposed study program is of strategic importance for the Faculty of Health Studies in Mostar and for the scientific field of Midwifery.

In view of the great success of perinatal medicine, and according to the recommendations and standards of the World Health Organization and the European Community as well as the introduction of new diagnostic and therapeutic procedures, professional and educated midwives are a necessity on all levels of perinatal care. Healthcare in Bosnia and Herzegovina is in need of highly educated midwives who will master the specific knowledge and skills of midwifery care, as well as knowledge in the field of management and leadership, public health, and education and scientific research. From all of the foregoing it is clear that the initiation of the graduate study of Midwifery satisfies the labor market and enables continuity and a higher level of midwifery education.

So far, bachelors of midwifery in Bosnia and Herzegovina have not had the opportunity to continue their university education, with the exception of education in related professions. Through the Master of Midwifery Studies we create staff with higher levels of knowledge and skills needed for more complex forms of work.

The study program is aimed at creating experts, masters of midwifery who will be trained to coordinate the midwifery care team, especially when a multidisciplinary approach is needed as well as manage the work of gynecology and obstetrics departments, clinics and institutions. The study program is particularly focused on the development of communication, organization and teaching skills but also ethical and legal aspects of the profession. This creates qualified personnel that, and in addition to professional training, has greater work independence and enables better distribution of work responsibilities within a professional team. Professional training and lifelong learning should be available to all health professionals, which has a positive effect on their competencies and management of more complex forms of work. A better quality of healthcare is achieved in this way and this is in line with the processes of education and employment in developed countries.

Initiation of the graduate study of Midwifery at the Faculty of Health Studies in Mostar provides continuous education of midwives on all three levels of university education as well as lifelong learning and scientific research work which is currently not developed in this field. The Faculty creates conditions for the development of highly educated professionals, teaching staff who will teach vocational courses in midwifery care and educate midwifery students. This raises the quality of the educational system, where the profession educates the profession, which is the objective of the Faculty. The combination of knowledge from education, informatics, didactics, ethics, law, economics, management, medical terminology, will create a starting point for professionals who will be more successful in conducting midwifery care, medical research with emphasis on research in midwifery, planning, changes and innovations in the health system, and financial improvement of the organizational unit - institution.

The Master of Midwifery Studies also builds upon the existing midwifery education and opens other opportunities for the participation and profiling of new midwifery staff, which is extremely important for the midwifery profession. This makes possible the introduction of midwives into vertical education (doctoral studies).

It should be emphasized that in the three counties gravitating towards the University of Mostar, there is a small number of unemployed midwives that is, there is an increased need for midwifery staff. Therefore, healthcare in Bosnia and Herzegovina needs midwives who will have basic knowledge and skills, but also highly educated midwives in demand of management and leadership skills, public health, midwifery care in the community, and education of future young professionals in midwifery and related healthcare fields for the purpose of improving the profession's quality and efficacy. New study programs are one of the strategic goals of the University alongside development of lifelong learning, and are in line with the European Qualifications Framework (EQF).

In order to involve all stakeholders in the initiation process of the study program, a public hearing was held on April 20, 2022 (Reg. No. 01-714/22). The conclusions of the public hearing were taken into account during the elaboration of the curriculum.

## 1.2. Description of conditions for conducting a new study program

### 1.2.1. Physical resources

The building and premises of the Faculty of Health Studies are adequate for the implementation of the study program. Budget commitments are in line with the needs and opportunities related to the implementation of new teaching methodologies and innovations into the teaching process. The Faculty's facility provides a total space of 2146 square meters. The space is divided into classrooms, laboratories, offices, libraries, offices for teaching staff, rooms for the administration of the Faculty and administrative services, as well as sanitary facilities and other ancillary spaces. Each classroom is equipped with a projector and computer necessary for teaching classes and lectures, there is also the possibility of using a laptop with the projector.

SPACE AND EQUIPMENT	
Total surface area of usable business premises [m2]	2146 m <sup>2</sup>
Total surface area of classroom premises [m2]	300m <sup>2</sup>
Total surface area of practical work premises [m <sup>2</sup> ]	250m <sup>2</sup>
Total surface area of library premises [m <sup>2</sup> ]	50m <sup>2</sup>
Total surface area of reading space [m <sup>2</sup> ]	20m <sup>2</sup>
Total surface area for students [m <sup>2</sup> ]	20 m <sup>2</sup>
Number of classrooms	8
Number of rooms for practical work	3
Student administration – premises	4
Number of computer classrooms	1
Number of computers in the computer classroom	25
Number of computers in the reading area	2
Total number of computers	50
Total number of library units	2634
Number of subscriptions to scientific and professional journals	0
Direct access to databases with scientific journals	NO
Continuous Internet connection	YES
Number of toilet cubicles	17
Special equipment, software, teaching aids	YES

### 1.2.2. Human resources

Participation of visiting teachers from foreign universities within the signed cooperation agreements, and recognized domestic and foreign experts in the field of midwifery and within the scientific branch of Midwifery, but also other scientific fields, since the study program includes significant elements of interdisciplinary studies. Teachers from the Faculty of Health Studies, School of Medicine, Economics, Law, Faculty of Humanities and Social Sciences of the University of Mostar, as well as teachers from the Faculty of Health Studies of the University of Rijeka and the Faculty of Economics of the University of Zagreb participate in the study program. Teachers of the Faculty of Health Studies are individuals who have a graduate and postgraduate level of university education, who are qualified to teach and base their teaching on research work and have at least 2 years of work experience in their teaching field. The number of competent academic and non-academic staff for the implementation of the Master of Midwifery Studies is in accordance with the relevant acts.

### 1.2.3. Financial viability analysis of the Master of Midwifery Studies

<b>1<sup>st</sup> year</b>							
<b>No</b>	<b>Course</b>	<b>L*</b>	<b>BAM*</b>	<b>S*</b>	<b>BAM**</b>	<b>P*</b>	<b>BAM***</b>
1.	<i>Medical informatics and advanced statistics</i>	25	1375,00	40	1400,00	50	4000,00
2.	<i>Management in healthcare</i>	25	1375,00	50	1750,00	20	1600,00
3.	<i>Scientific research work</i>	25	1375,00	30	1050,00	40	3200,00
4.	<i>Communication skills</i>	15	825,00	10	350,00	10	800,00
5.	<i>Elective course</i>	15	825,00	10	350,00	0	0,00
6.	<i>Elective course</i>	15	825,00	10	350,00	0	0,00
7.	<i>Elective course</i>	15	825,00	10	350,00	0	0,00
8.	<i>Didactics</i>	25	1375,00	40	1400,00	50	4000,00
9.	<i>Economics and legislation in health care</i>	25	1375,00	50	1750,00	30	2400,00
10.	<i>Health policy and legislation</i>	25	1375,00	50	1750,00	0	0,00
11.	<i>The art of medical education</i>	15	825,00	15	525,00	15	1200,00
12.	<i>Elective course</i>	15	825,00	10	350,00	0	0,00
<b>Total</b>		<b>240</b>	<b>13200,00</b>	<b>325</b>	<b>11375,00</b>	<b>215</b>	<b>17200,00</b>
<b>Total</b>							<b>41775,00</b>
<b>MT 30%</b>							<b>12532,00</b>
<b>PD 30%</b>							<b>12532,00</b>
<b>Total</b>							<b>66840,00</b>

<b>2<sup>nd</sup> year</b>							
<b>No</b>	<b>Course</b>	<b>L*</b>	<b>BAM*</b>	<b>S*</b>	<b>BAM**</b>	<b>P*</b>	<b>BAM***</b>
1	Safe motherhood and promotion of women's health	30	1650,00	20	700,00	0	0,00
2	Hospital infections and midwifery	30	1650,00	20	700,00	0	0,00
3	Developmental psychology	20	1100,00	20	700,00	0	0,00
4	Early Intervention	20	1100,00	10	350,00	10	800,00
5	Elective course	15	825,00	10	350,00	0	0,00
6	Elective course	15	825,00	10	350,00	0	0,00
7	Elective course	15	825,00	10	350,00	0	0,00
8	Elective course	15	825,00	10	350,00	0	0,00
9	Elective course	5	275,00	10	350,00	10	800,00
10	Master's thesis draft	5	275,00	10	350,00	10	800,00
11	Supervision in healthcare	20	1100,00	15	525,00	10	800,00
12	Perinatal pharmacology	15	825,00	10	350,00	0	0,00
13	Ultrasound monitoring	10	550,00	15	525,00	10	800,00
14	Psychological aspects of parenting	20	1100,00	15	525,00	0	0,00
15	Elective course	15	825,00	10	350,00	0	0,00
16	Elective course	15	825,00	10	350,00	0	0,00
17	Thesis	0	0,00	0	0	0	0,00
<b>Total</b>		<b>265</b>	<b>14575,00</b>	<b>205</b>	<b>7175,00</b>	<b>50</b>	<b>4000,00</b>
<b>Total</b>							<b>25750,00</b>
<b>MT 30%</b>							<b>7725,00</b>
<b>PD 30%</b>							<b>7725,00</b>
<b>Total</b>							<b>41200,00</b>

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

BAM\* 55

BAM\*\* 35

BAM\*\*\* 20

The overall cost estimate for the first and second year of study is **108040,00** BAM

This means that the threshold of economic feasibility at the current price of tuition is **15** students.

## 2. GENERAL INFORMATION ON THE STUDY PROGRAM

<b>Study program</b>	Midwifery
<b>Cycle</b>	Second cycle (master's degree)
<b>Type</b>	University study
<b>Scientific area</b>	Biomedicine and healthcare
<b>Scientific field</b>	Clinical Medical Sciences / Health Sciences
<b>Scientific discipline</b>	Midwifery
<b>Academic title</b>	Master of Midwifery
<b>QF-EHEA qualification level</b>	7
<b>Duration of study program</b>	2 years / 120 ECTS
<b>Total number of ECTS credits</b>	2 years / 120 ECTS
<b>Language</b>	Croatian
<b>Mode of study</b>	Full time/Part time
<b>Institution administering study programme</b>	University of Mostar
<b>Home Institution</b>	University of Mostar, Faculty of Health Studies
<b>Objectives of the study program</b>	<p>The objective of the study of Midwifery is :</p> <ul style="list-style-type: none"> <li>- train students for independent work in clinical hospitals and gynecology and obstetrics departments, which includes coordination of the midwifery care team, especially when a multidisciplinary approach is needed,</li> <li>- extend the knowledge and skills of students in the field of midwifery care,</li> <li>- train students to lead health teams and manage processes in healthcare, for collaboration in scientific and clinical research (projects, communication, presentation) at healthcare higher education institutions,</li> <li>- train students for health promotion within the health institution and the community,</li> <li>- train students to apply evidence based midwifery during every day work, as well as continuous learning and actions as mentors and teachers.</li> </ul>
<b>Competencies of the study program</b>	<ul style="list-style-type: none"> <li>- planning, organization and management of human and material resources, and support systems in the field of midwifery care, managing complex work processes</li> <li>- management of the quality system of midwifery care</li> <li>- coordination of the midwifery care team</li> <li>- management of midwifery documentation</li> <li>- education and conducting health education of pregnant women, preparation for parenting and breastfeeding, conducting courses for pregnant women, education can be broaden to women's health, and sexual and reproductive health</li> </ul>

	<ul style="list-style-type: none"> <li>- participation in scientific research</li> <li>- participation in education of students of midwifery and related professions</li> <li>- application of effective communication skills</li> <li>- application of preventive measures against infection and other protective measures at work</li> <li>- communication skills</li> <li>- social skills</li> <li>- computer skills</li> <li>- personal and professional development</li> </ul>
<p><b>Learning outcomes of the study program</b></p>	<ul style="list-style-type: none"> <li>- manages the resources of departments, clinics or institutions and support systems in the field of midwifery care (FZSPM-IU-1)</li> <li>- manages the quality control system and implementation of midwifery care supervision (FZSPM-IU-2)</li> <li>- manages the work of midwifery care teams (FZSPM-IU-3)</li> <li>- manages midwifery documentation (FZSPM-IU-4)</li> <li>- organizes educations for preservation of reproductive health as well as courses for childbirth, breastfeeding and parenting (FZSPM-IU-5)</li> <li>- participates in scientific research work (FZSPM-IU-6)</li> <li>- educates students of midwifery and related professions (FZSPM-IU-7)</li> <li>- applies skills of effective communication with patients and members of their families as well as with staff and associates (FZSPM-IU-8)</li> <li>- supervises the implementation and application of methods and measures for disinfection and sterilization (FZSPM-IU-9)</li> <li>- tailors communication according to the needs of audience (FZSPM-IU-10)</li> <li>- recognizes the needs of patients and their family members and staff and associates (FZSPM-IU-11)</li> <li>- manages the work process according to the needs of the work organization (FZSPM-IU-12)</li> <li>- uses a computer for the purpose of performing work tasks and communicating with patients and associates (FZSPM-IU-13)</li> <li>- manages personal and professional development (FZSPM-IU-14)</li> </ul>
<p><b>Opportunity after graduation</b></p>	<p>Upon successful completion of their studies, students have the opportunity to work in public and private healthcare institutions and / or continue their education in doctoral studies.</p>



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### 3. CHARACTERISTICS OF THE STUDY PROGRAM

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#### 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 labor 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 study programmes and the share of ECTS credits acquired by it
- Task 3: increase the number of final/graduate theses related to the topic and content.

In accordance with the provisions of the Bologna Declaration, the graduate study of Midwifery is a continuation of education that is performed in two cycles of higher education: undergraduate study lasting 3 years or 6 semesters, and graduate study lasting 2 years or 4 semesters.

In accordance with the activities and competencies of Masters of Midwifery, the emphasis in their education should be placed on the development of management skills, scientific research and teaching skills. The logical solution to this problem is the development of a graduate university study of Midwifery, which relies mostly on the scientific content of the study program and allows the rise of a critical number of highly educated professionals in midwifery care who will certainly maintain and raise the quality of midwifery education.

A specific strategic objective is to enable scientific research education in Midwifery, train new teaching staff who will be competent to independently teach in the field of midwifery care, participate in research work and continue their university education at the postgraduate doctoral study of "Health Sciences" at the Faculty of Health Studies. Based on the structure of the proposed study program, it is evident that teaching is conducted through group courses according to scientific areas as well as elective courses by lectures, seminars and clinical and methodological practicals, independent student work alongside mentorship, and extracurricular and course activities.

### **3.2. Correlation 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 scientific/artistic field and labour market and related to the standards of occupations/qualifications.

Education for regulated professions in the field of healthcare is regulated by the European Union in Directive 2005/36/EC of the European Parliament and the Council on the recognition of professional qualifications for regulated professions.

From the global point of view, healthcare/midwifery care is still a privilege of a small number of people. The reasons for this are the lack and unequal distribution of educated medical staff at all levels of education. According to the WHO, there is currently a shortage of more than 4 million health professionals. What further aggravates this situation is the fact that there are not enough people in the process of education, and since the gap is large, these risks and deficits increase every day. In line with the changes taking place within the midwifery care system, both the number and diversity of midwifery roles within advanced midwifery are rising.

The Master of Midwifery Studies program must guarantee that masters of midwifery will be able to meet the needs of midwifery care throughout the community and gain advanced skills for the provision of midwifery care as well as for the organization of the process of midwifery care. The healthcare system is dependent on health opportunities, economic opportunities, social welfare, social sensitivity and communion, innovation, diversity, and health security. The Master of Midwifery Studies is fully in line with the mission and strategy of the Faculty of Health Studies of the University of Mostar, and lifelong learning is an integral part of the higher education system and needs to be systematically organized and include recognition of prior learning.

The Faculty of Health Studies actively cooperates with companies and public institutions through institutional partnership agreements. External associates also participate in the work of the Committee for Quality Assurance and Improvement of the Faculty and this way contribute in creating the higher education policy in the field of healthcare. Besides, it is necessary to enable an educational vertical in the education of midwives which has not yet been subject to implementation.

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 on the study programme". They are realised in compulsory course, 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 compulsory course is presented in the chapter "3.12. Learning Outcomes Matrix".

### **3.3. Comparability with study programs in the country and abroad**

The Master of Midwifery Studies is the first of its kind in Bosnia and Herzegovina. Regarding the comparability of the graduate university study of midwifery with similar or equivalent programs of accredited higher education institutions in the EU, the proposed program is in line with the graduate study of midwifery in the Republic of Croatia, Faculty of Health Studies in Rijeka. (Available at: <http://www.fzsri.uniri.hr/hr/studenti/studijiski-programi/192-veucilisni-diplomski-studiji/primaljstvo.html>).

### **3.4. Student mobility**

Student mobility is defined by the *Rulebook on International Mobility* (Reg. No. 01-255-1 / 18), 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 course, ECTS credits, grades, and professional practice during student mobility* (reg. No. 01-4549 / 21), which is recorded in the diploma supplement. Students can find information on mobility programmes and accompanying forms on the University's website and through Faculty of Health Studies that forwards information from the International Relations 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* (Reg. No. 01-1033 / 15) 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 Hercegovina 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.

Anyone who has completed the relevant undergraduate study of midwifery and obtained a bachelor's degree with a minimum of 180 ECTS credits or completed undergraduate nursing studies with a minimum of 180 ECTS credits provided that they worked for a minimum of 2 years in the same or similar positions in midwifery is eligible for enrolment. When transferring from other study programmes, a request is submitted to the dean of the Faculty of Health Studies, and the appropriate committee decides on the possibilities and conditions of enrolment.

Applicants with professional study diploma have an opportunity to take supplementary exams.

### **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* (Reg. No. 01-1033 / 15 of 17 June 2015) and the general act of the Faculty of Health Studies.

The study program is completed by writing and defending a graduate thesis worth 13 ECTS credits. The procedure of the defense and thesis's methodology are defined by *Rulebook on Study of the University of Mostar* (Reg. No. 01-1033 / 15 of 17 June 2015) and the general act of the Faculty of Health Studies.

### **3.7. Organization of the study program**

The study is organized as a two-year study program for a total of four 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. Part-time students should attend at least 50% of lectures and seminars (optional) and perform practicals to the extent specified for part-time students.

### 3.8. Structure of the study program

The study program consists of 17 compulsory and 6 elective courses. In accordance with the principles of the Bologna Declaration, the proposed study program is structured and evaluated with ECTS credits. Forms of teaching and the number of hours by individual form of teaching are listed in the description of each course in the study program. Throughout the two years of the Master of Midwifery Studies, there are active classes of 1175 hours and independent student work of 2425 hours. Active teaching is manifested through: lectures, seminars and practicals, and through constant communication among students, teachers and associates. Independent student work is the time needed for students to independently study the subject, prepare seminars, exams, final tests, prepare and write final and graduate theses, excluding contact hours with the teacher (lectures, seminars and practicals). Amount (hours) of independent work is defined in the curriculum of each individual course.

At the beginning of each semester, the student selects elective courses in addition to mandatory course. The list of elective courses is adopted by the Scientific-Teaching Council of the Faculty of Health Studies at the beginning of each academic year.

According to the Rulebook on the Procedure for Adopting New and Regular Revisions of Existing Study Programmes (No. 01-993-1/22), only compulsory course are listed in the curriculum, while electives are adopted in the executive 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 compulsory course.

In relation to the total number of ECTS credits, a sum of ECTS credits acquired in elective courses is 12 ECTS, and the student can choose a total of 6 elective courses.

Besides compulsory courses and elective courses at the level of the study programme and at the level of Faculty of Health Studies, 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 compulsory 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.

Form of teaching	1 <sup>st</sup> year	2 <sup>nd</sup> year	Total	%
Lectures	210	220	430	11,9%
Seminars	305	175	480	13,3%
Practicals	215	50	265	7,4%
Independent work	1070	1355	2425	67,4%
<b>Total</b>	<b>1800</b>	<b>1800</b>	<b>3600</b>	<b>100,00%</b>

**Assessment of learning outcomes:** methods of assessment of learning outcomes and the proportion of percentage allocated for each assessment tool are listed in course curriculums (written, oral, practical).

**Table 1. Structures of the study program with shares of forms of teaching, clinical practice and independent work**

1 <sup>st</sup> year									
1 <sup>st</sup> 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					
FZSZAM101	Medical informatics and advanced statistics	25	50	40	115	0	155	270	9
FZSZAM102	Quality management in healthcare	25	20	50	95	0	145	240	8
FZSZAM103	Introduction to scientific research work	25	40	30	95	0	145	240	8
FZSZAM104	Communication skills	15	10	10	35	0	55	90	3
Total		90	120	130	340	0	500	840	28
ECTS compulsory courses									28
ECTS elective courses									2
ECTS TOTAL									30

1 <sup>st</sup> year									
2 <sup>nd</sup> 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					
FZSZAM207	Didactics	25	50	40	115	0	155	270	9
FZSZAM208	Management in healthcare	25	30	50	105	0	135	240	8
FZSZAM209	Economics and legislation in health care	25	0	50	75	0	165	240	8
FZSZAM210	The art of medical education	15	15	15	45	0	45	90	3
Total		90	95	155	340	0	500	840	28
ECTS compulsory courses									28
ECTS elective courses									2
ECTS TOTAL									30

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

2 <sup>nd</sup> year									
3 <sup>rd</sup> 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					
FZSPM313	Safe motherhood and the promotion of women's health	30	0	20	50	0	160	210	7
FZSPM314	Hospital infections and midwifery	30	0	20	50	0	160	210	7
FZSPM315	Developmental psychology	20	0	20	40	0	110	150	5
FZSPM316	Early intervention	20	10	10	40	0	110	150	5
Total		100	10	70	180	0	540	720	24
ECTS compulsory courses									24
ECTS elective courses									6
ECTS TOTAL									30

2 <sup>nd</sup> year									
4 <sup>th</sup> 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					
FZSZAM423	Supervision in healthcare	20	10	15	45	0	75	120	4
FZSPM424	Perinatal pharmacology	15	0	10	25	0	65	90	3
FZSPM425	Ultrasound monitoring	10	10	15	35	0	55	90	3
FZSPM426	Psychological aspects of parenting	20	0	15	35	0	55	90	3
FZSZAM430	Master's thesis draft	5	10	10	25	0	35	60	2
FZSZAM429	Thesis	0	0	0	0	0	390	390	13
Total		70	30	65	165	0	675	840	28
ECTS compulsory courses									28
ECTS elective courses									2
ECTS TOTAL									30

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

### **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. Full-time students pay their costs by themselves. Part-time students are students who attend the study programme in addition to work or other activities.

Following the analysis for the Master of Midwifery Studies, the optimal admission number would be 8 full-time and 7 part-time students.

### **3.10. Resources needed for conducting the study program**

The Faculty of Health Studies has classrooms with classical and modern audio-visual equipment, IT equipment with a maximum of two students per computer, a microbiological research laboratory, a healthcare stimulation room with training models, and clinical hospital wards with equipment for nursing/midwifery care.

The Faculty of Health Studies also has a stimulation room for Clinical Skills equipped with highly sophisticated models – simulators. The procurement of a simulation doll for childbirth SimMom is also in progress. SimMom is an advanced full body birth simulator with accurate anatomy and functionality to facilitate multiprofessional obstetric training to guide both normal and high-risk childbirth. A detailed description of the conditions for conducting the graduate university study of Midwifery is explained in paragraph 1.2.

### **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* (No. 01–3039/20).

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	FZSPM-IU-1	FZSPM-IU-2	FZSPM-IU-3	FZSPM-IU-4	FZSPM-IU-5	FZSPM-IU-6	FZSPM-IU-7	FZSPM-IU-8	FZSPM-IU-9	FZSPM-IU-10	FZSPM-IU-11	FZSPM-IU-12	FZSPM-IU-13	FZSPM-IU-14
IU-FZSZAM101						X							X	X
IU-FZSZAM102	X	X										X		x
IU-FZSZAM103		X				X							X	
IU-FZSZAM104								X		X			x	
IU-FZSZAM207							X	X		X				X
IU-FZSZAM208	X	X	X					X	X					X
IU-FZSZAM209	X		X				X					X		X
IU-FZSZAM210					X		X							
IU-FZSPM313		X			x	X	X						x	
IU-FZSPM314		X		x			X		x			x		X
IU-FZSPM315	X		X		X									
IU-FZSPM316					X	X	X	X		X	X	X		X
IU-FZSMZA423	X	X								X				X
IU-FZSPM424				X										
IU-FZSPM425								X						
IU-FZSPM426	X				X									
IU-FZSZAM430						X				X			X	



#### 4. SYLLABUS

1 <sup>st</sup> year									
I. Winter semester									
No	Course code	Course	Course title	Teaching hours			LH	Total	ECTS
				L	P	S			
1.	FZSZAM101	Compulsory	Medical informatics and advanced statistics	25	40	40	155	270	9
2.	FZSZAM102	Compulsory	Quality management in healthcare	25	20	50	145	240	8
3.	FZSZAM103	Compulsory	Introduction to scientific research work	25	40	30	145	240	8
4.	FZSZAM104	Compulsory	Communication skills	15	10	10	55	90	3
<b>ECTS compulsory courses</b>									<b>28</b>
<b>ECTS elective courses</b>									<b>2</b>
<b>ECTS TOTAL</b>				<b>90</b>	<b>110</b>	<b>130</b>	<b>500</b>	<b>840</b>	<b>30</b>

1 <sup>st</sup> year									
II. Summer semester									
No	Course code	Course	Course title	Teaching hours			LH	Total	ECTS
				L	P	S			
1.	FZSZAM207	Compulsory	Didactics	25	50	40	155	270	9
2.	FZSZAM208	Compulsory	Management in healthcare	25	30	50	135	240	8
3.	FZSZAM209	Compulsory	Economics and legislation in health care	25	0	50	165	240	8
4.	FZSZAM210	Compulsory	The art of medical education	15	15	15	45	90	3
<b>ECTS compulsory courses</b>									<b>28</b>
<b>ECTS elective courses</b>									<b>2</b>
<b>ECTS TOTAL</b>				<b>90</b>	<b>95</b>	<b>155</b>	<b>500</b>	<b>840</b>	<b>30</b>

\*L – lectures, P\* - practicals, S\* - seminars, LH\* - Load hours

2 <sup>nd</sup> year									
III. Winter semester									
No	Course code	Course	Course title	Teaching hours			LH	Total	ECTS
				L	P	S			
1.	FZSPM313	Compulsory	Safe motherhood and the promotion of women's health	30	0	20	160	210	7
2.	FZSPM314	Compulsory	Hospital infections and midwifery	30	0	20	160	210	7
3.	FZSPM315	Compulsory	Developmental psychology	20	0	20	110	150	5
4.	FZSPM316	Compulsory	Early intervention	20	10	10	110	150	5
<b>ECTS compulsory courses</b>									<b>24</b>
<b>ECTS elective courses</b>									<b>6</b>
<b>ECTS TOTAL</b>				<b>130</b>	<b>20</b>	<b>70</b>	<b>540</b>	<b>720</b>	<b>30</b>

2 <sup>nd</sup> year									
IV. Summer semester									
No	Course code	Course	Course title	Teaching hours			LH	Total	ECTS
				L	P	S			
1.	FZSZAM423	Compulsory	Supervision in healthcare	20	10	15	75	120	4
2.	FZSPM424	Compulsory	Perinatal pharmacology	15	0	10	65	90	3
3.	FZSPM425	Compulsory	Ultrasound monitoring	10	10	15	55	90	3
4.	FZSPM426	Compulsory	Psychological aspects of parenting	20	0	15	55	90	3
5.	FZSZAM430	Compulsory	Master's thesis draft	5	10	10	35	60	2
6.	FZSZAM429	Compulsory	Thesis	0	0	0	390	390	13
<b>ECTS compulsory courses</b>									<b>28</b>
<b>ECTS elective courses</b>									<b>2</b>
<b>ECTS TOTAL</b>				<b>70</b>	<b>30</b>	<b>65</b>	<b>675</b>	<b>840</b>	<b>30</b>

\*L – lectures, P\* - practicals, S\*- seminars; LH\*- Load hours