



COSMETOLOGY

UNDERGRADUATE UNIVERISTY

STUDY PROGRAMME CURRICULUM

Mostar, May 2022

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1. INTRODUCTION

Basic information about the organizational unit

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1.1. Proposal for starting a study program

At the 43rd session of the Scientific and Teaching Council of the Faculty of Pharmacy at the University of Mostar, held on March 17, 2022, by decision no. 09-01-142/22, the Committee for the Development of the Curriculum and Program of the Undergraduate University Study Program in Cosmetology was appointed with the following composition:

1. Prof. Ivica Brizić, Ph.D., President of the Committee
2. Prof. Dubravka Šimić, Ph.D., representative of the academic staff, member of the Commission
3. Ivona Tomić, Ph.D., Assistant Professor, representative of the academic staff, member of the the Committee
4. Martin Kondža, Ph.D., Assistant Professor, representative of the academic staff, member of the Committee
5. Lucija Šakota, student representative, member of the Committee
6. Marina Čović, MD, representative of external stakeholders, member of the Committee
7. Franjo Jurilj, quality coordinator

The same decision proposes the appointment of reviewers:

1. Prof. Nermina Hadžigrahić, Ph.D., Faculty of Medicine, University of Tuzla;
2. Ilija Brizić, Ph.D., Assistant Professor, Faculty of Medicine, University of Rijeka;
3. Prof. Ilijana Odak, Ph.D., University of Mostar, Faculty of Natural Sciences and Education.

Cosmetology is a professional and scientific discipline that focuses on studying and applying scientific knowledge to preserve primarily the health of the skin, as well as other aspects of human health and beauty. Cosmetic science involves researching the effects that raw materials and mixtures can have on various parts of the human body, such as hair, skin, lips, and nails. Additionally, cosmetology encompasses the study of the production and proper application of cosmetic products. Cosmetologists undergo training to work in both private and public institutions involved in cosmetology production processes, as well as in facilities related to human health and beauty, cosmetic industry establishments, and various regulatory positions within the field of cosmetology. Cosmetologists must undergo training to handle hazardous chemicals and be well-versed in their proper use, storage, and disposal procedures. Numerous chemicals used in cosmetic products carry potential health risks. Examples of hazardous chemicals commonly found in treatments such as hair dyeing, straightening, relaxers, keratin treatments, and nail treatments include dibutyl phthalate, formaldehyde, lye (sodium hydroxide), ammonia, and coal tar. Within the beauty and cosmetology industry, certain cosmetic products used in hair and nail colors contain chemicals that have demonstrated harmful effects on the health of both cosmetologists and end users. The chemical combination known as the toxic trio is frequently included in the ingredient lists of nail polishes, hair dyes, and nail polish removers. Therefore, it is crucial that individuals who come into contact with these hazardous chemicals receive education and professional training. Cosmetology is a rapidly growing industry with numerous opportunities for a rewarding and successful career. Since 2016, over 800,000 graduate cosmetologists have embarked on their careers in the beauty industry, and this number is expected to continue rising. Indeed, the United States Bureau of Labor Statistics forecasts a significantly higher growth rate of 13% above average in the beauty industry from now until 2026. A considerable number of beauty professionals operate independently, either as sole traders or independent contractors, with some also establishing their own salons or centers. Alongside a diverse array of job opportunities, there exists the potential to establish one's own independent and prosperous business within the industry. Owning and building your own business requires years of hard work and dedication, but the financial and personal rewards can be significant. Alternatively, working as a sole trader or freelancer provides the kind of flexibility that many

people crave. The beauty industry is a global billion-dollar business, characterized by constant innovation as companies and practitioners strive to expand their market share and cater to evolving customer demands through the development of new products and treatments. Moreover, different beauty standards, the rise of social media, and the rapid growth of the male grooming sector are sure signs that cosmetologists will never be short of places to work or clients to serve. It is also one of the few recession-resistant industries. In fact, during the last economic crisis in the UK, the beauty industry continued to grow. Millions of people consider cosmetic products and services vital not only in terms of beauty but also in terms of improving physical and mental health. All of this is good news for those studying or planning to study cosmetology; it means a wide range of job opportunities with decent salaries and long-term job security, as well as personal and social satisfaction.

In Bosnia and Herzegovina (BiH), cosmetology studies exist at three private colleges - "College of Cosmetology and Esthetics" in Banja Luka, University "VITEZ" - Faculty of Health Studies in Travnik, and University of Modern Sciences - CKM Mostar. Since the University of Mostar is the only one in BiH with a Croatian curriculum and teaching in the Croatian language, and considering the territorial and political structure as well as market demand, there is a need for a three-year undergraduate university study program in Cosmetology at the Faculty of Pharmacy of the University of Mostar, at the same time as the only study program in Cosmetology at the State Faculty. As this program delves deeply into the background of cosmetic preparations and cosmetology, it significantly differs from the aforementioned studies in terms of producing skilled and qualified personnel. These individuals do not fit the classical image of a beautician, but rather emerge as educated cosmetologists with knowledge in natural and biomedical sciences.

The concept of establishing a Cosmetology study program at the Faculty of Pharmacy of the University of Mostar has been under consideration for the past three years. This initiative arises from the absence of a comparable program at state faculties in Bosnia and Herzegovina (BiH). The introduction of this innovative study program has been identified as one of the strategic objectives for improving the University of Mostar.

1.2. The Public discussion

The information regarding the public discussion was posted on the website of the Faculty of Pharmacy on Monday, March 30, 2022. During this period, all faculty members, associates, student representatives, and interested members of the public had the opportunity to review the proposed study program at the Faculty Secretariat office and provide their feedback, suggestions, and amendments.

The final public discussion took place on Wednesday, April 6, 2022, at 12:00 in Hall 1-6 of the Faculty of Natural Sciences and Education at the University of Mostar. A total of 28 participants attended the discussion, including members of the Committee, faculty members, assistants, representatives from the University Clinical Hospital Mostar, student representatives, and the director of the Secondary Medical School "Sestre milosrdnice" in Mostar. This school offers a four-year education program for medical cosmetologists, whose scope of work closely aligns with the content of the proposed study program.

During the public discussion, Professor Ph.D. Ivica Brizić, the Dean of the Faculty of Pharmacy at the University of Mostar, presented the curriculum and program of the new Cosmetology study on behalf of the Committee for Curriculum Development.

At the beginning of the discussion, a brief introduction and basic information about the undergraduate university study program in Cosmetology were presented. The initiative to open such a study has existed for several years, and the cosmetology study is closely related to the Faculty of Pharmacy. It was emphasized that there is no public university study in BiH or Croatia, so students from all parts of BiH and Croatia are expected. The lectures will be conducted by domestic and guest lecturers who participate in teaching at the Faculty of Pharmacy. After presenting the curriculum, a discussion followed during which numerous topics of utmost importance for all future employers of undergraduate university students were addressed. Comments, remarks, and proposals that were considered justified and relevant for the proposed study program were included. It was agreed to organize a visit to the Secondary Medical School in Mostar, where a lecture will be organized to provide students with the necessary information about the Cosmetology study. Additionally, there was a suggestion to occasionally organize visits and lectures by representatives of leading cosmetic companies, during which students would be

familiarized with all the trends in this industry. Student representatives expressed a positive attitude towards the proposed study program and believe that launching such a study has the potential for success.

1.3. Assessment of the justification for conducting the study programme

Considering emerging trends, especially regarding the application of various cosmetic products of questionable quality, there is an obvious need for professional training of personnel in this region. The basic objective of the undergraduate university study program in Cosmetology is to train skilled personnel for jobs in the cosmetics industry, regulatory and inspection services, research institutions, representative offices, and for consulting and marketing of cosmetic preparations within various institutions, especially considering that cosmetology as a profession is not particularly developed in BiH, and modern trends indicate its potential future development. Another equally important fact is the preservation of the dignity of higher education in BiH. The development concept and mission of the University of Mostar are based on the tradition of European universities, which means that the curricula are coordinated with the appropriate universities according to the Bologna Declaration. Based on this, the future curriculum of the Cosmetology study will follow the basic idea that will isolate the study process at the Faculty of Pharmacy as of high quality compared to others.

An important impetus for opening such a study is the continuation of education, i.e., the continuity of the educational process. Potential future students will undoubtedly come from the profile of secondary medical education, especially the profile of a medical cosmetologist, which represents a logical sequence of further education. Based on the analysis, it is evident that in the Herzegovina-Neretva Canton, there are high schools that educate a profile suitable for Cosmetology studies. It is worth noting that the high school program is in the Croatian language and follows the Croatian curriculum, so it is expected that further education will be provided in Croatian language at the University of Mostar.

According to the data from the University of Mostar so far, the largest number of interested students can be expected from the Herzegovina-Neretva, West Herzegovina, Herzegovina-Bosnia, and Posavina Canton, as well as from parts of the Central Bosnia Canton. Additionally,

interest is expected from other regions of BiH, as well as from parts of the Split-Dalmatia and Dubrovnik-Neretva Canton where similar studies do not exist.

1.4. Description of conditions for implementing the new study program

Physical resources

By analyzing the existing space, staff, and laboratories of the Faculty of Pharmacy at the University of Mostar, equipment and necessary staff can be provided for the implementation of the Cosmetology study program at the Faculty of Pharmacy. Theoretical and practical classes are planned to be held in the facilities of the Faculty of Natural Sciences and Education and the Faculty of Medicine of the University of Mostar until the final construction of the Faculty of Pharmacy building. Considering that both regular and part-time students will be enrolled, classes are planned to be held in the afternoon, making spatial and other resources more accessible.

Human resources

The Cosmetology study program at the Faculty of Pharmacy will be fully supported by the staff of the Faculty of Pharmacy. The implementation of the study program will involve domestic and guest experts from the fields of biomedicine and healthcare. The staff will consist of professors from the University of Mostar, as well as from the University of Rijeka and the University of Zagreb under signed cooperation agreements. Administrative and technical tasks will be performed by the staff of the Faculty of Pharmacy at the University of Mostar.

Analysis of the financial sustainability of the study programme

Considering the planned number of teaching hours throughout the three years of study, an amount of 76,800.00 KM is needed for salaries and fees for teachers and 25,600.00 KM for other expenses. Based on these figures, the economic viability threshold is 14 students. However, some of the teaching will be conducted by staff from the Faculty of Pharmacy at the University of Mostar, and part of the teaching will be individual student work, so we expect lower costs than those stated.

2. GENERAL INFORMATION ABOUT THE STUDY PROGRAM

Study programme:	Cosmetology
Cycle:	1st cycle (undergraduate study)
Type:	University study programme
Scientific field:	Biomedicine and Health
Scientific area:	Pharmacy
Academic title:	Bachelor of Cosmetology
EQF qualification level:	6
Duration of the study programme:	3 years (6 semesters)
ECTS	180
Language:	Croatian language
Mode of study:	Full-time and part-time study
Awarding institution:	University of Mostar
Institution administering study programme:	University of Mostar, Faculty of Pharmacy
Study programme objectives:	<ul style="list-style-type: none"> - To train students to contribute to healthcare using the principles and methods of cosmetology and related natural sciences in all aspects of cosmetic activities. - To raise awareness among students about the importance of continuous professional, scientific, and ethical education and the development of cosmetology. - To raise students' understanding of the connection between the physiological functions of organic systems and the immune system with dermatological clinical examination and other diagnostic methods in dermatology. - To prepare students for active participation in health promotion and maintenance of normal skin conditions and for regulating the use of cosmetic preparations.
Study programme competencies:	<ul style="list-style-type: none"> - Understanding the theoretical foundations of natural sciences and developing natural science thinking skills related to cosmetology. - Application of modern techniques and methods in the field of cosmetology and the ability to search for and classify new information. - Application of basic processes in the production, analysis, preparation, storage, regulation, application, and presentation of cosmetic preparations. - Understanding the physiological function of organic systems, the immune system, the toxicological aspects of cosmetic products, the specifics of dermatological clinical examination and other diagnostic methods in dermatology - Developed responsibility for the care and maintenance of good body condition with regard to the principles of cosmetology

Study programme learning outcomes:	<ul style="list-style-type: none"> - to be able to explain the basic characteristics of cosmetology as a discipline and cosmetic preparations, in the context of legal regulations I in relation to drugs and other medical and cosmetic products (FARFKB-IU-1) - to be able to apply the basic laws of mathematical analysis, linear algebra, numerical mathematics, probability and statistics, as well as the laws of physics and chemical laws that are the basis for a better understanding of the basic processes and applications in cosmetology (FARFKB-IU-2) - to be able to explain the structure of the cell and the functions of its structures up to the molecular level and at the molecular level with the basics of genetics and the influence of hormones on the function of the main organ systems (FARFKB-IU-3) - to be able to explain the characteristics of the morphology, structure of human tissues and organs, as well as the physiological functions of organs and organ systems, and the connection between physiological disorders and the pathophysiological basis of disease (FARFKB-IU-4) - to be able to explain the structure and functions of the immune system of a healthy organism with special emphasis on the skin and mucous membranes, as well as fundamental disorders of the immune system and interventions in the immune system (FARFKB-IU-5) - to be able to argue the effects of poisons on the organism and the environment and the toxicological aspects of cosmetic products (FARFKB-IU-6) - to be able to explain the role, structure and function of the skin and visible mucous membranes, the specifics of the dermatological clinical examination as well as other diagnostic methods in dermatology (FARFKB-IU-7) - to be able to apply basic technological operations in the production of cosmetic preparations (mixing, grinding, drying, dissolving, solubilization, emulsification and suspending) for independent production of skin care creams and lotions, deodorants and antiperspirants, and lip care preparations (FARFKB-IU-8) - to be able to apply the basic types of packaging of cosmetic products, ensuring the stability and sterility of cosmetic products and the process of preserving the durability of cosmetic products (FARFKB-IU-9) - to be able to explain the characteristics of pathogenic properties and pathophysiological mechanisms of infection with an emphasis on skin infections and the mechanism of action of antimicrobial drugs and the acquisition of resistance of microorganisms to antimicrobial drugs (FARFKB-IU-10)
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	<ul style="list-style-type: none"> - to be able to apply a validated analytical procedure in the analysis of cosmetic products and independently performs and describes procedures for the analysis of cosmetic products (FARFKB-IU-11) - to be able to explain the technological and biotechnological approaches used in the design of nanosystems and the application of nanoparticles in cosmetic preparations and cell and tissue engineering of the skin in cosmetology (FARFKB-IU-12) - to be able to independently evaluate cosmetic products based on scientifically established facts, good practices and valid regulations in the EU and BiH (FARFKB-IU-13) - to be able to use English language to follow and understand written and spoken texts in the field of profession (FARFKB-IU-14)
Opportunities after graduation:	<p>After completing the undergraduate university study of Cosmetology with the title of Bachelor of Cosmetology, students will be trained to work in the following areas:</p> <ul style="list-style-type: none"> - regulation of cosmetic and similar preparations; - tasks of regulatory and inspection supervision in various institutions that carry out regulation and approval of cosmetic products; - jobs focused on the higher education process; - jobs focused on the process of high school education; -public and private institutions registered to perform activities in the field of cosmetology; -private practices and private companies that have cosmetic preparations in their production and sales ranges; -industrial facilities and companies involved in the cosmetics industry; -public institutes, institutions and centers dealing with processes of improvement and preservation of human health; -counseling centers on preserving and improving health and beauty; - as independent experts (freelancer) in the field of cosmetology; -other establishments where the process of using, making and preparing cosmetic and similar products is carried out. <p>According to the regulatory provisions in the European Union, cosmetology is not considered a regulated profession in the member countries, so for this purpose it is not necessary to take additional exams to obtain a license for independent work.</p>
Accreditation:	<p>The University of Mostar received institutional reaccreditation on January 14, 2020, from the competent Ministry of Education, Science, Culture, and Sports of the Herzegovina-Neretva Canton, in accordance with the</p>

	<p>recommendation of the Agency for the Development of Higher Education and Quality Assurance of Bosnia and Herzegovina. Subsequently, the University was enrolled in the State Register of Accredited Higher Education Institutions.</p>
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3. BASIC CHARACTERISTICS OF THE STUDY PROGRAMME

3.1. Connection with the University Development Strategy

In accordance with its mission and vision, the University of Mostar structures and implements undergraduate, graduate, postgraduate, and lifelong education based on research, contributing to social and economic development through scientific research, artistic creation, and professional work. The university ensures and promotes student and teacher mobility, rational use of human and material resources, with continuous quality control, competitiveness, and international competitiveness in scientific research, teaching, art, and professional work. The University of Mostar will be developed into a highly organized, integrated, and functional higher education institution involved in the European Higher Education Area and the European Research Area, which will provide quality and efficient education based on learning outcomes and the concept of lifelong learning through strong integration of scientific research and educational processes. Scientific research will be based on scientific excellence defined by international indicators and stronger integration with the educational process at all levels, especially at the postgraduate level. Through the creation of new ideas and technological solutions, critical thinking, and creativity, the university will become one of the key drivers of the economy and environmentally sustainable development, as well as a promoter of the cultural and historical heritage of the community in which it operates. In accordance with the University of Mostar's Development Strategy for the period from 2018 to 2023, the Faculty of Pharmacy actively participates in decision-making and fulfilling the goals of the University Development Strategy Action Plan. The introduction of the new study program in Cosmetology by the organizational unit of the Faculty of Pharmacy will directly contribute to the development of the University of Mostar's Strategy in the following areas:

STRATEGIC AREA OF EDUCATION, goal 1, task 1 - Clearly define the objectives and anticipated learning outcomes of each study program and align the program content with the appropriate level of the European Qualifications Framework and qualification standards. In the curriculum, the objectives and learning outcomes are aligned with level 6 of the EQF and the Qualifications Framework in Bosnia and Herzegovina.

STRATEGIC AREA OF EDUCATION, goal 1, task 3 - Increase the number of interdisciplinary study programs. The opening of this study program will directly increase the number of study programs at the University of Mostar, providing students with a wider choice for their future careers, enhancing the university's visibility as a leading educational institution in Bosnia and Herzegovina, and increasing its recognition on international quality rankings.

STRATEGIC AREA OF EDUCATION, goal 1, task 5 - Ensure realistic allocation of ECTS credits through a defined ECTS coordination system at all study levels. In the curriculum, ECTS credits are realistically allocated in accordance with a unified methodology defined in the university's Guide for the Development of Curricula.

STRATEGIC AREA OF EDUCATION, goal 2, task 5 - Increase the percentage of educational content that students can access through e-learning. Some courses offered in this program align with the provisions of the Strategy and Action Plan, as the emphasis of this program is on independent student work, which will be facilitated and monitored through newly developed e-learning systems.

STRATEGIC AREA OF EDUCATION, goal 5, task 6 - Increase the number of teaching bases at the University of Mostar. The Faculty of Pharmacy has a well-recognized tradition of maintaining strong connections with alumni groups and teaching bases, which include public and private pharmacy healthcare institutions, primary healthcare institutions, and the University Clinical Hospital Mostar. Successfully implementing this program will require establishing new teaching bases and forging new connections between the University of Mostar and the real sector, leading to new business opportunities and possibilities for the university's teaching and non-teaching staff. By fulfilling these goals outlined in the University of Mostar's Strategy, the Cosmetology program directly contributes to the further strategic development of this higher education institution.

3.2 Compliance with achievements in a certain scientific/artistic field and the job market, as well as connection with occupation/qualification standards

The primary goal of establishing new study programmes and new higher education institutions is to provide access to the highest levels of education in a particular field for interested parties. In today's world, where jobs are directly linked to the type of education, and in most professions are legally regulated by a certain level of education, it is entirely logical to consider the alignment of a particular study program with the job market and occupation/qualification standards. Although cosmetology is an ancient discipline, its rapid development has been evident in recent decades. This industry offers a wide range of occupations and job opportunities, but professions in the field of cosmetology are not yet clearly defined within the regulatory framework of Bosnia and Herzegovina, or the European Union.

In the case of bachelor's degree holders in cosmetology, it is a profession that does not fall into the category of regulated professions, so there is no requirement for specific exams after formal higher education, or possession of a license for independent work to engage in independent activities. However, the Faculty of Pharmacy will conduct quality education of personnel with the aim of educating competent and successful individuals who will benefit the entire community and contribute to the promotion and protection of human health.

In order to align with the achievements of the scientific field, representatives of teachers in the Commission for the Development of the Curriculum, as well as other teachers involved in the development of individual syllabi, have taken into account all contemporary achievements and trends. In terms of alignment with the job market, representatives of students and external stakeholders were appointed to the Commission for the Development of the Curriculum, and a public discussion was organized with the participation of experts from practice and industry, whose suggestions were taken into account in the development of the curriculum.

3.3. Comparability with study programs in the country and abroad

Due to the contemporary approach to the curriculum, teaching methods, and research orientation, the Faculty of Pharmacy at the University of Mostar ensures the quality of studies and comparability with the Cosmetology study program at the Faculty of Pharmacy at the University of Ljubljana, as well as comparability with similar programs in Europe. Student exchange and engagement of teachers through collaboration between the Faculty of Pharmacy at the University of Mostar and the Faculty of Pharmacy at the University of Ljubljana are planned.

3.4. Openness to student mobility

Student mobility is defined by the Regulation on International Mobility, which covers administrative support for students, documents for student mobility, insurance, application procedures, mobility recognition process, and information package. A unified methodology for recognition is defined at the university level by the Senate's decision to adopt a unified form for the Recognition Decision regarding courses, ECTS credits, grades, and professional practice in student mobility, which is recorded in the diploma supplement. Students can find information on mobility programs and related forms on the University and Faculty of Pharmacy websites, as well as through the International Cooperation Office of the Faculty of Pharmacy, which forwards information from the university's International Cooperation Office to student representatives.

3.5. Admission requirements for the study program and transfer from other study programmes

The University Regulation on Studies defines the right to enroll in undergraduate, graduate, and integrated study programs through a public competition. The Senate, upon the proposal of the scientific-teaching/artistic-teaching council of the organizational unit and with the consent of the University's Administrative Council and the Ministry of Education, Science, Culture, and Sports of the HNŽ, announces a public competition, published in the daily press, on the University's website, and on the Faculty of Pharmacy's website and bulletin board, containing information on admission requirements, selection procedures, tuition fees, selection criteria, and other relevant details.

3.6. Enrollment conditions for the next semester and year of study and method of completing studies

Conditions for enrollment in the next semester and higher years of study programme are defined by the university's Regulation on Studies and the regulations/decisions of the Faculty of Pharmacy. The study program is completed by writing and defending a Bachelor's thesis worth 20 ECTS credits. The method and procedure for defending the Bachelor's thesis and the methodology for its preparation are defined in the regulations/decisions of the Faculty of Pharmacy.

3.7. Organization of the study programme

The study programme will be organized as a three-year program over six semesters. Students will study Cosmetology as full-time and part-time students. Full-time students will attend classes in a shift system, meaning they will be involved in only one course during a certain period, after which they will have the opportunity to take exams for that course. After completing one cycle (shift), students move on to the next course, and so on. Part-time students are exempt from attending lectures. The amount and type of classes part-time students are required to attend, as well as alternative requirements for parts of the curriculum they are not obliged to attend, are defined in the syllabus of each course. Moreover, the maximum number of hours of online teaching for each type of class is defined in the teaching program of each course.

3.8. Structure of the study program

The structure of the study program is reflected in the number of hours for each type of instruction and the total number of hours, including the hours of practice and student's independent work, in the overall student workload, which amounts to 180 ECTS credits, or 5400 hours of work.

According to the Regulations for the Procedure of Adopting New and Revision of Existing Study Programs (ref. no. 01-993-1/22), only core courses are listed in the curriculum, while elective courses are adopted in the implementation study plan for each academic year. In the tabular presentation below, the number of hours for each type of instruction and the total number of hours, including practice and independent work, will be provided only for core courses.

In relation to the total number of ECTS credits, 13 ECTS credits are obtained through elective courses, and a student can choose a total of 3 elective courses.

In addition to core and elective courses at the program and departmental level, i.e., in addition to 30 ECTS credits per semester, a student can also choose university elective courses from the list adopted by the Senate every academic year, which are recorded in the diploma supplement for the student.

The purpose of elective courses at the program level is a detailed elaboration of learning outcomes already acquired in core courses, in accordance with the student's preferences, while the purpose of university elective courses is to acquire competencies not provided by the study programme, which the student considers can make them more competitive in the job market and contribute to the development of their own personality through education.

Table 1. Structure of the study programme with the shares of each type of instruction, practice, and independent work

(L– lectures; S – seminars; E – exercises)

Year of study. 1									
Winter semester: (I)									
Course code	Course title	Hours of teaching			I. Total Teaching Hours	II. Practice Hours	III. Independent Study	Total Workload (I.+II.+III.)	ECTS
		L	S	E					
FARFKB101	Introduction to Cosmetology	30	0	30	60	0	30	90	3
FARFKB102	Mathematics with Basics of Statistics	45	0	15	60	0	90	150	5
FARFKB103	Physics	60	30	15	105	0	105	210	7
FARFKB104	Biology with Basics of Genetics	60	30	15	105	0	105	210	7
FARFKB105	General and Organic Chemistry	75	15	60	150	0	90	240	8
In total		270	75	120	480	0	420	900	30
ECTS for core courses									30
ECTS for elective courses									0
ECTS IN TOTAL									30

Year of study. 1									
Summer semester: (II)									
Course code	Course title	Hours of teaching			I. Total Teaching Hours	II. Practice Hours	III. Independent Study	Total Workload (I.+II.+III.)	ECTS
		L	S	E					
FARFKB206	Biochemistry	30	15	15	60	0	120	180	6
FARFKB207	Anatomy and Histology	30	30	15	75	0	135	210	7
FARFKB208	Physiology and Pathophysiology	45	15	30	90	0	210	300	10
FARFKB209	Skin Immunology and Immunochemistry	30	15	30	75	0	135	210	7
In total		135	75	90	300	0	600	900	30
ECTS for core courses									30
ECTS for elective courses									0
ECTS IN TOTAL									30

Year of study. 2									
Winter semester: (III)									
Course code	Course title	Hours of teaching			I. Total Teaching Hours	II. Practice Hours	III. Independent Study	Total Workload (I.+II.+III.)	ECTS
		L	S	E					
FARFKB310	Toxicology	45	15	0	60	0	120	180	6
FARFKB311	Fundamentals of Dermatology and Venereology	60	30	30	120	0	90	210	7
FARFKB312	Cosmetic Preparations 1	90	90	45	225	0	285	510	17
In total		195	135	75	405	0	495	900	30
ECTS for core courses									30
ECTS for elective courses									0
ECTS IN TOTAL									30

Year of study. 2									
Summer semester: (IV)									
Course code	Course title	Hours of teaching			I. Total Teaching Hours	II. Practice Hours	III. Independent Study	Total Workload (I.+II.+III.)	ECTS
		L	S	E					
FARFKB413	Cosmetic Preparations 2	75	45	60	180	0	270	450	15
FARFKB414	Packaging and Stability	30	30	15	75	0	135	210	7
FARFKB415	English Language	30	15	15	60	0	30	90	3
FARFKB416	Microbiology	30	15	15	60	0	90	150	5
In total		135	75	90	315	0	495	810	27
ECTS for core courses									27
ECTS for elective courses									3
ECTS IN TOTAL									30

Year of study. 3									
Winter semester: (V)									
Course code	Course title	Hours of teaching			I. Total Teaching Hours	II. Practice Hours	III. Independent Study	Total Workload (I.+II.+III.)	ECTS
		L	S	E					
FARFKB517	Instrumental Methods in Cosmetology	30	30	30	90	0	150	240	8
FARFKB518	Nanotechnology in Cosmetology	60	30	0	90	0	150	240	8
FARFKB519	Biotechnology in Cosmetology	30	15	15	60	0	120	180	6
FARFKB520	Evaluation of Cosmetic Preparations	45	15	30	90	0	150	240	8
In total		165	90	75	330	0	570	900	30
ECTS for core courses									30
ECTS for elective courses									0
ECTS IN TOTAL									30

Year of study. 3									
Summer semester: (VI)									
Course code	Course title	Hours of teaching			I. Total Teaching Hours	II. Practice Hours	III. Independent Study	Total Workload (I.+II.+III.)	ECTS
		L	S	E					
FARFKB621	Bachelor's Thesis	0	0	0	0	0	600	600	20
In total		0	0	0	0	0	600	600	20
ECTS for core courses									20
ECTS for elective courses									10
ECTS IN TOTAL									30

3.9. Optimal number of enrolled students considering space, equipment, and number of teachers

Enrollment quotas are adopted by the University Council before the start of each academic year, upon the proposal of the Senate, and with the approval of the competent ministry. Students can study as regular or part-time students. Regular students follow the program with a full teaching schedule. Regular students bear the cost of their studies themselves. Part-time students are those who attend the study program while working or engaging in other activities.

3.10. Resources required for implementation of the study programme

Spatial and human resources

By analyzing the existing space, staff, and laboratories of the Faculty of Pharmacy at the University of Mostar, equipment and necessary personnel can be provided for the implementation of the Cosmetology study program at the Faculty of Pharmacy at the University of Mostar.

Financial resources

The source of continuous funding for this program will consist of student tuition fees, donations, and contributions from the founder. The tuition fees for the Cosmetology program will be determined by the management of the Faculty of Pharmacy.

Funding from tuition fees

Students may enroll as:

- Regular students who bear the costs of their studies themselves;
- Regular students who are foreign nationals and bear the costs of their studies themselves;
- Part-time students who bear the costs of their studies themselves.

For each academic year, the Academic Council, with the approval of the Senate of the University of Mostar, decides on the enrollment quota for the first year of the Cosmetology program and on the amount of tuition fees. Based on this decision, the University of Mostar publishes a general call for enrollment of students in the first year, which determines the essential elements of the enrollment process - submission of applications by candidates, interview schedules, required documentation to be submitted with the application, application costs, and other details.

Funding from donations

In addition to financial support through tuition fees and contributions from the founder, it is anticipated that this program will also be funded by donations. Donations for this program are expected from companies, public and private institutions, and institutes that have a direct interest in graduates of cosmetology. This primarily concerns companies registered to operate in the field of the cosmetic industry and similar industries where cosmetology graduates find employment opportunities, in line with the previously mentioned possibilities for student employment.

3.11. Study program quality assurance system

The purpose, objectives, structure, operation, and evaluation areas of the quality assurance system of the University of Mostar are defined by the Regulation on the Structure and Operation of the Quality Assurance System of the University of Mostar (Reg. No.: 01–3039/20).

According to this Regulation, the quality assurance system at the University of Mostar consists of permanent bodies at the university level: the Quality Assurance and Improvement Committee and the Office for Quality Assurance and Improvement. At the Faculty of Pharmacy, there is a Commission for Quality Assurance and Improvement, composed of the Vice Dean for Teaching, Quality Coordinator, representative of the teaching staff, student representative, and representative of the administrative and technical staff. The Quality Coordinator of the Faculty of Pharmacy is also a member of the Quality Assurance and Improvement Committee.

The Regulation defines the responsibilities and activities of each body within the quality assurance system. The bodies within the quality assurance system carry out regular activities as defined by the University Quality Assurance Manual at the University of Mostar, which include conducting surveys and monitoring and processing data. Based on these activities, annual reports are prepared at the level of study programs, organizational units, and the university.

3.12. Matrix of learning outcomes

IU-SP IU-predmet	FARF KB- IU-1	FARF KB- IU-2	FARF KB- IU-3	FARF KB- IU-4	FARF KB- IU-5	FARF KB- IU-6	FARF KB- IU-7	FARF KB- IU-8	FARF KB- IU-9	FARF KB- IU-10	FARF KB- IU-11		FARF KB- IU-12	FARF KB- IU-13	FARF KB- IU-14
FARFK B101	x														
FARFK B102		x													
FARFK B103		x													
FARFK B104			x												
FARFK B105		x													
FARFK B206			x												
FARFK B207				x											
FARFK B208				x											
FARFK B209					x										
FARFK B310						x									
FARFK B311							x								
FARFK B312								x							
FARFK B413								x							
FARFK B414									x						
FARFK B415															x
FARFK B416										x					
FARFK B517											x				
FARFK B518												x			
FARFK B519													x		
FARFK B520														x	

4. STUDY PLAN

Year of study: 1 st							
Winter semester							
Course code	Course title	Course status	Teaching hours			Hours of practice	ECTS
			L	T	S		
FARFKB101	Introduction to Cosmetology	core	30	0	30	0	3
FARFKB102	Mathematics with Basics of Statistics	core	45	0	15	0	5
FARFKB103	Physics	core	60	30	15	0	7
FARFKB104	Biology with Basics of Genetics	core	60	30	15	0	7
FARFKB105	General and Organic Chemistry	core	75	15	60	0	8
ECTS for core courses							30
ECTS for elective courses							0
ECTS IN TOTAL							30

Year of study: 1 st							
Summer semester							
Course code	Course title	Course status	Teaching hours			Hours of practice	ECTS
			L	T	S		
FARFKB206	Biochemistry	core	30	15	15	0	6
FARFKB207	Anatomy and Histology	core	30	30	15	0	7
FARFKB208	Physiology and Pathophysiology	core	45	15	30	0	10
FARFKB209	Skin Immunology and Immunochemistry	core	30	15	30	0	7
ECTS for core courses							30
ECTS for elective courses							0
ECTS IN TOTAL							30

Year of study: 2 nd							
Winter semester							
Course code	Course title	Course status	Teaching hours			Hours of practice	ECTS
			L	T	S		
FARFKB310	Toxicology	core	45	15	0	0	6
FARFKB311	Fundamentals of Dermatology and Venereology	core	60	30	30	0	7
FARFKB312	Cosmetic Preparations 1	core	90	90	45	0	17
ECTS for core courses							30
ECTS for elective courses							0
ECTS IN TOTAL							30

Year of study: 2 nd							
Summer semester							
Course code	Course title	Course status	Teaching hours			Hours of practice	ECTS
			L	T	S		
FARFKB413	Cosmetic Preparations 2	core	75	45	60	0	15
FARFKB414	Packaging and Stability	core	30	30	15	0	7
FARFKB415	English Language	core	30	15	15	0	3
FARFKB416	Microbiology	core	30	15	15	0	5
ECTS for core courses							30
ECTS for elective courses							0
ECTS IN TOTAL							30

Year of study: 3 rd							
Winter semester							
Course code	Course title	Course status	Teaching hours			Hours of practice	ECTS
			L	T	S		
FARFKB517	Instrumental Methods in Cosmetology	core	30	30	30	0	8
FARFKB518	Nanotechnology in Cosmetology	core	60	30	0	0	8
FARFKB519	Biotechnology in Cosmetology	core	30	15	15	0	6
FARFKB520	Evaluation of Cosmetic Preparations	core	45	15	30	0	8
ECTS for core courses							26
ECTS for elective courses							4
ECTS IN TOTAL							30

Year of study: 3 rd							
Summer semester							
Course code	Course title	Course status	Teaching hours			Hours of practice	ECTS
			L	T	S		
FARFKB621	Bachelor's Thesis	core	0	0	0	0	20
ECTS for core courses							20
ECTS for elective courses							10
ECTS IN TOTAL							30

