

UNIVERSITY "ECONOMICS ACADEMY" BRCKO DISTRICT OF BOSNIA AND HERZEGOVINA
 FACULTY OF HEALTH SCIENCES
 THIRD CYCLE – DOCTORAL ACADEMIC STUDIES
 PhD of Health Sciences, major in Laboratory Engineering – 180 ECTS

CURRICULUM

No.	Course Code	Course Title	Sem.	Type	Status	Hours of Active Teaching			ECTS
						L	P	C	
FIRST YEAR									
1.	DZD01	Methodology of scientific and research work	1		M	4	2		8
2.	DZD02	Knowledge management	1		M	4	2		8
3.	DZD03	<i>Elective subject 1</i>	1		E	2	2		7
		Preventive health care							
		Prevention and therapy of vertebral disorders							
		Research methods in cardiorespiratory rehabilitation							
		Histotechnology and cytotechnology							
		Safety at work in laboratories							
		Autonomy of midwifery proxy							
		Health importance of functional food							
		Marketing in Cosmetic Technology							
		Quality Management in Cosmetic Technology							
4.	DZD04	Research Work for Topic Selection and Literature Review for Doctoral Dissertation	1		M	0	4		7
Total:						10	10		30
5.	DZD05	<i>Elective 2</i>	2		E	3	1		7
		Information and communication systems in healthcare							
		Pharmakotherapy in physical medicine and rehabilitation							
		Epidemiology of hospital infections and control of blood-borne diseases							
		Standardization and control of work in laboratory medicine							
		Modern laboratory methods in molecular diagnosis of diseases							
		Evidence-based midwifery							
		Assessment of public health risks in nutrition							
		Colloidal Stability in Cosmetic Technology							
		Microbiological Stability of Cosmetological Products							

6.	DZD06	<i>Elective 3</i>	1		E	3	1		7
		Operational health care process							
		Physiotherapy assessment in clinical practice							
		Radiological technologies							
		HACCP and other risk assessment systems in production processes							
		Clinical laboratory diagnostics							
		Pharmacology in midwifery							
		Foodborne diseases							
		Quality Control in Cosmetological Technology							
		Surfactants in Cosmetic Production							
7.	DZD07	Creation and Publication of the First Scientific Work	2		M	0	6		7
8.	DZD08	Doctoral Dissertation-Topic Research 1	2		M	0	6		9
Total:						6	14		30
Total Hours of Active Teaching in the First Year of Doctoral Academic Studies:						240	210		60
SECOND YEAR									
1.	DZD09	Change Management	3		M	4	2		8
2.	DZD10	<i>Elective 4</i>	3		E	3	1		7
		Intensive therapy and patient care.							
		Prevention and therapy of vertebral disorders.							
		Laboratory technologies in immunology.							
		Sanitary hydrotechnics .							
		Instrumentation with Radiation Physics							
		Biomechanics of postural deviations in childhood							
		Antioxidants in nutrition							
		Carriers of Active Substances in Cosmetic Products							
		Cosmetically Active Substances of Natural Origin							
3.	DZD11	<i>Elective 5</i>	3		E	3	1		7
		Reanimation and emergency health care							
		Manual techniques in physiotherapy							
		Radiological biology and radiological protection							
		Laboratory data processing							
		Cell dynamics							

		Family health protection							
		Food additives							
		Raw Materials in Cosmetic Technology							
		Active Cosmetic Preparations – Cosmeceuticals							
4.	DZD12	Doctoral Dissertation-Topic Research 2	3		M	0	6		8
Total:						10	10		30
5.	DZD13	<i>Elective 6</i>	4		E	3	1		7
		Medical Rehabilitation with Care							
		Sports Physiotherapy							
		Intensive Therapy and Patient Care							
		Process of operative Nursing Care in Health Care							
		Fundamentals of Molecular Biology Technology							
		Introduction to Health Statistics and Informatics							
		Methods of Nutrition Data Collection							
		Drug Design							
		Legislation in Cosmetic Technology							
6.	DZD14	Creation and Publication of the Second Scientific Work	4		M	0	6		8
7.	DZD15	Doctoral Dissertation-Topic Research 3	4		M	0	10		15
Total:						3	17		30
Total Hours of Active Teaching in the Second Year of Doctoral Academic Studies:						195	405		60
THIRD YEAR									
1.	DZD16	Doctoral Dissertation-Topic Research 4	5		M	0	10		15
2.	DZD17	Writing a Doctoral Dissertation (Data Processing of a Doctoral Dissertation)	5		M	0	10		15
Total:						0	20		30
3.	DZD18	Creation and Publication of the Third Scientific Work	6		M	0	6		8
4.	DZD19	Doctoral Dissertation-Topic Research 5	6		M	0	6		8
5.	DZD20	Doctoral Dissertation Defense	6		M	0	8		14
Total:							20		30
Total Hours of Active Teaching in the Third Year of Doctoral Academic Studies:						0	600		60
Total ECTS									180

A student who defends his/her doctoral dissertation after passing all the subjects provided for in the curriculum for six semesters receives a certificate of completion of the study program with 180 ECTS points, namely PhD of Health Sciences, major in Laboratory Engineering – 180 ECTS