



**SARAJEVO UNIVERSITY  
FACULTY OF HEALTH STUDIES  
IN SARAJEVO**



**CURRICULUM FOR STUDY PROGRAMME 4:  
HEALTH AND ENVIRONMENT /SANITARY ENGINEERING**

**FOR TITLE OF:  
BACHELOR HEALTH AND ENVIRONMENT/SANITARY  
ENGINEERING**



**Study programme for health and environment/sanitary engineering** educates competent cadre for human health care, evaluation and modification of environmental factors which can have negative impact on health. This cadre is responsible for achievement and management of specific programmes of improvement of environmental health, as well as preventive programmes for preservation and improvement of health and quality of life.

Bachelor (BA) of health and environment is health worker who independently carries out control of factors in environment, sanitary-inspection monitoring and hygiene-sanitary control, prevention of hospital infections, examination and planning of diet.

#### **Competence of Bachelor of health and environment/sanitary engineering**

**Bachelor (BA) of health and environment/sanitary engineering** with university degree (VII level of qualification – 4-year study programme) is competent, that is, enabled to carry out following tasks independently and as a team member:

- Monitoring and coordination of monitoring of hygiene-epidemiological situation, and undertaking adequate preventive measures in narrow or wider area in regular states and disasters;
- Work in hygiene-epidemiology (HE) team on prevention and suppression of communicable diseases on all levels of health care;
- Work on and coordination of work on disinfection, disinfection and deratisation;
- Work on and participation in team for prevention and suppression of hospital infections;
- Measuring certain pollutants in atmosphere and proposing preventive measures;
- Measuring all microclimate factors, interpretation of results and proposing preventive measures;
- Hygiene-sanitary monitoring in facilities for production, trafficking and storing of foodstuffs;
- Sanitary-inspection monitoring in the field of communal hygiene;
- Hygiene-sanitary monitoring in water supply and recreational-spa facilities and proposing measures for removal of identified defects;
- Hygiene-sanitary monitoring and proposing measures for removal of identified defects in other public facilities;
- Developing menus for ill and healthy population groups;
- Preventive sanitary monitoring;
- Hygienic and microbiological laboratory control of foodstuffs, water and items of general usage;
- Monitoring of environmental factors and development of programmes for harmonisation with EU standards;
- Health-educational work in the domain of environmental health, on all levels and in all fields;
- Educational work in educational institutions.



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**Bachelor (BA) of health and environment/sanitary engineering** upon completions of studies, given the competencies, may have a wide range of employment opportunities in institutions on all levels of healthcare system, as well as in the non-health related sector.



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<b>FIRST YEAR, SEMESTER I</b>				
<b>CODE AND COURSES</b>	Class contact hours: H= L + P	Independent work hours	Total work hours	ECTS credits
RB. 0111 Healthcare systems	90 = 45 + 45	60	150	6
RB. 0112 Human anatomy	90 = 45 + 45	160	250	10
RB. 0113 Health ecology	90 = 30 + 60	60	150	6
RB. 0114 Sociology of health	60 = 30 + 30	90	150	6
RB. 0115 Physical education	45 = 15 + 30	5	50	2
<b>TOTAL FOR SEMESTER I</b>				
<b>5 compulsory courses</b>	<b>375 = 165 + 210</b>	<b>375</b>	<b>750</b>	<b>30</b>

<b>FIRST YEAR, SEMESTER II</b>				
<b>CODE AND COURSES</b>	Class contact hours: H= L + P	Independent work hours	Total work hours	ECTS credits
RB.0121 Introduction to health statistics and informatics	60 = 30 + 30	65	125	5
RB.0122 Improvement of health and health education	90 = 45 + 45	35	125	5
RB. 0123 Human physiology	90 = 45 + 45	160	250	10
RB. 0124 Protection and care in urgent states	75 = 45 + 30	50	125	5
RB. 0125 English language	30 = 15 + 15	95	125	5
<b>TOTAL FOR SEMESTER II</b>				
<b>5 compulsory courses</b>	<b>345 = 180 + 165</b>	<b>405</b>	<b>750</b>	<b>30</b>
<b>TOTAL FOR THE FIRST YEAR</b>				
<b>10 compulsory courses</b>	<b>720 = 345 + 375</b>	<b>780</b>	<b>1500</b>	<b>60</b>



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<b>SECOND YEAR, SEMESTER III</b>				
<b>CODE AND COURSES</b>	<b>Class contact hours: H= L + P</b>	<b>Independent work hours</b>	<b>Total work hours</b>	<b>ECTS credits</b>
RB. 0231 Dysfunction of human organism (21.3.)	75 = 45 + 30	125	200	8
RB. 0232 Applied epidemiology	75 = 45 + 30	50	125	5
RB. 0233 Microbiology fundamentals	75 = 45 + 30	75	150	6
RB. 0234 Health care quality management	60 = 30 + 30	40	100	4
RB. 0231 General, inorganic and organic chemistry	150 = 60 + 90	25	175	7
<b>TOTAL FOR SEMESTER III</b>				
<b>5 compulsory courses</b>	<b>435 = 225 + 210</b>	<b>315</b>	<b>750</b>	<b>30</b>

<b>SECOND YEAR, SEMESTER IV</b>				
<b>CODE AND COURSES</b>	<b>Class contact hours: H= L + P</b>	<b>Independent work hours</b>	<b>Total work hours</b>	<b>ECTS credits</b>
RB. 0241 Biochemistry	90 = 60 + 30	60	150	6
RB. 4242 Physical and chemical noxae in the environment	90 = 45 + 45	110	200	8
RB. 4243 Potable and recreational waters management	105 = 60 + 45	95	200	8
RB. 4244 Waste substances management	90 = 45 + 45	110	200	8
<b>TOTAL FOR SEMESTER IV</b>				
<b>4 compulsory courses</b>	<b>375 = 210 + 165</b>	<b>375</b>	<b>750</b>	<b>30</b>
<b>TOTAL FOR THE SECOND YEAR</b>				
<b>9 compulsory courses</b>	<b>810 = 435 + 375</b>	<b>690</b>	<b>1500</b>	<b>60</b>



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<b>THIRD YEAR, SEMESTER V</b>				
<b>CODE AND COURSES</b>	<b>Class contact hours: H= L + P</b>	<b>Independent work hours</b>	<b>Total work hours</b>	<b>ECTS credits</b>
RB. 4351 Sanitary microbiology	90 = 30 + 60	110	200	8
RB. 4352 Production and preservation of foodstuffs	90 = 45 + 45	60	150	6
RB. 4353 Food management and sanitary control	90 = 45 + 45	110	200	8
RB. 4354 Foodstuffs laboratory control	105 = 60 + 45	95	200	8
<b>TOTAL FOR SEMESTER V</b>				
<b>4 compulsory courses</b>	<b>375 = 180 + 195</b>	<b>375</b>	<b>750</b>	<b>30</b>

<b>THIRD YEAR, SEMESTER VI</b>				
<b>CODE AND COURSES</b>	<b>Class contact hours: H= L + P</b>	<b>Independent work hours</b>	<b>Total work hours</b>	<b>ECTS credits</b>
RB. 4361 Health-sanitary fundamentals of nutrition	90 = 45 + 45	110	200	8
RB. 4362 Planning and designing public and industrial facilities	75 = 30 + 45	25	100	4
RB. 4363 Sanitary inspection and administrative procedure	60 = 30 + 30	65	125	5
RB. 4364 Sanitary-medical significance of toxicology and solving emergencies	45 = 30 + 15	30	75	3
RB. 4365 Professional practice I	120 = 0 + 120	130	250	10



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<b>TOTAL FOR SEMESTER VI</b>				
<b>5 compulsory courses</b>	<b>390 = 135 + 255</b>	<b>360</b>	<b>750</b>	<b>30</b>
<b>TOTAL FOR THE THIRD YEAR</b>				
<b>9 compulsory courses</b>	<b>765 = 315 + 450</b>	<b>735</b>	<b>1500</b>	<b>60</b>

<b>FOURTH YEAR, SEMESTER VII</b>				
<b>CODE AND COURSES</b>	<b>Class contact hours: H= L + P</b>	<b>Independent work hours</b>	<b>Total work hours</b>	<b>ECTS credits</b>
RB. 4471 Modelling of environmental risks and environmental engineering	120 = 60 + 60	55	175	7
RB. 4472 Ecology of pesticides and DDDD methods	90 = 60 + 30	110	200	8
RB. 4473 Atmosphere hygiene	60 = 30 + 30	65	125	5
RB. 4474 Professional practice II	120 = 0 + 120	130	250	10
<b>TOTAL FOR SEMESTER VII</b>				
<b>4 compulsory courses</b>	<b>390 = 150 + 240</b>	<b>360</b>	<b>750</b>	<b>30</b>

<b>FOURTH YEAR, SEMESTER VIII</b>				
<b>CODE, STATUS AND COURSE NAME</b>	<b>Class contact hours: H= L + P</b>	<b>Independent work hours</b>	<b>Total work hours</b>	<b>ECTS credits</b>
RB. 4481 Health and environmental legislation	60 = 30 + 30	65	125	5
RB. 4482 Hospital infections epidemiology	75 = 30 + 45	100	175	7
RB. 4483 Hygiene of health, educational, catering and other facilities	75 = 30 + 45	50	125	5
RB. 4484 Mental hygiene in ecological environment	45 = 30 + 15	30	75	3
RB. 4485 Professional practice III	120 = 0 + 120	130	250	10





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<b>TOTAL FOR SEMESTER VIII</b>				
<b>5 compulsory courses</b>	<b>375 = 120 + 255</b>	<b>375</b>	<b>750</b>	<b>30</b>
<b>TOTAL FOR THE FOURTH YEAR</b>				
<b>9 compulsory courses</b>	<b>765 = 270 + 495</b>	<b>735</b>	<b>1500</b>	<b>60</b>
<b>TOTAL FOR THE FOUR-YEAR UNDERGRADUATE PROGRAMME, THE FIRST CYCLE, FOR THE BACHELOR'S (BA) DEGREE</b>				
<b>37 compulsory courses</b>	<b>3060 = 1365 + 1695</b>	<b>2940</b>	<b>6000</b>	<b>240</b>