

Basic courses of the continuing bachelor's degree program in professional health engineering and occupational safety

Code	Name	Number of credits			Number of hours			Concurrent/ prerequisites
		Total	Theoretical	Practical	Theoretical	Practical	Total	
01	Solid Mechanics	2	2	-	34	-	34	
02	Dedicated physics 1	2	2	-	34	---	34	
03	Dedicated physics 2	2	2	-	34	--	34	
04	General Chemistry (Mineral-Organic)	2	2	-	34	--	34	
05	Biochemistry and nutrition principles	2	2	-	34	--	34	
06	Analytical Chemistry	3	2	1	34	34	68	04
07	General math 1	2	2	-	34	--	34	
08	General math 2	3	3	-	51	--	51	07
09	Physiology and Anatomy	3	3	-	51	-	51	-
10	First aid	2	1	1	17	34	51	09
11	Biostatistics	3	2	1	34	34	68	08
12	computer programming	2	1	1	17	34	51	-
13	Industrial Drawing	2	1	1	17	34	51	-
14	Industrial Management	2	2	-	34	-	34	-
15	Industrial Psychology	1	1	-	17	-	17	-
16	Health Education	1	1	-	17	-	17	-
17	Fluid Mechanics	3	3	-	51	-	51	07
18	Familiarity with industry and knowledge of industrial techniques	2	1	1	17	34	51	-

19	Workplace lighting	2	1	1	17	34	51	03
20	Sound in the workplace	2	1.5	0.5	26	17	43	03
21	Vibration in the workplace	1	0.75	0.25	13	9	22	03
22	Heat and cold stresses in the workplace	2	1.5	0.5	26	17	43	03
23	Radiation hygiene	3	2	1	34	34	68	03,02
24	Dynamics of gases and aerosols	2	2	-	34	-	34	-
25	Basics of sampling air pollutants	3	2	1	34	34	68	24
26	Analysis and evaluation of air samples	3	2	1	34	34	68	06
27	Basics of air pollution control	2	2	-	34	--	34	24
28	Industrial ventilation design	3	2	1	34	34	68	17
29	Safety in civil operations	2	1.5	0.5	26	17	43	18
30	Work-related accidents and emergencies	2	1.5	0.5	26	17	43	18
31	Fire safety and chemicals	3	2	1	34	34	68	18
32	Electrical safety and machinery	2	1.5	0.5	26	17	43	18
33	Risk assessment and management	2	1.5	0.5	26	17	43	32,31,30,29
34	Safety management systems	2	1.5	0.5	26	17	43	-
35	Job ergonomics 1	3	2	1	34	34	68	09
36	Job ergonomics 2	2	1.5	0.5	26	17	43	35
37	Principles of toxicology and biological monitoring	2	2	-	34	-	34	05,06

38	Job toxicology	2	1.5	0.5	26	17	43	37,09
39	Professional language	2	2	-	34	-	34	09
41	Environmental generalities	2	2	-	34	-	34	-
Total		51						

Internship in undergraduate courses in occupational health engineering and occupational safety

Code	Name	Number of credit	Hour	Prerequisite
42	Internship*	8	408	Passing 4 semesters
43	Internship in the field**	8	408	
Total		16		
*This internship is offered in the fifth semester. The student is not allowed to take another credit				
**The internship unit is offered in the last semester.				

workshops required for the course

	Workshop	Training method	Hour
1	Risk Assessment	Theoretical	14
2	Familiarity with personal protective equipment and its standards	Theoretical	14
3	Methods of formation and management of technical protection committee	Theoretical	14
4	Get ready to enter the industry and get professional health advice	Theoretical	14
5	Occupational health in specific occupations (hospital, small workshops, agriculture and mining)	Theoretical	14