

UNDERGRADUATE STUDY PROGRAM OCCUPATIONAL SAFETY, HEALTH AND ENVIRONMENT



UNIVERSITY OF ZAGREB FACULTY OF METALLURGY

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I. YEAR

I. semester

Course	Hours per week			ECTS
	L	S	Е	ECIS
Mathematics 1	2	0	3	5
Physics	2	0	3	5
Chemistry	2	1	2	5
Introduction to safety	2	1	0	4
Introduction to ecology	2	0	0	4
Work psychology	2	0	2	4
English language 1	1	0	1	2
Physical training 1	0	0	2	1
	28			30

L – lectures, S – seminars, E -exercises

II. semester

Course	Hours per week			ECTS				
	L	S	Е	ECIS				
Mathematics 2	2	0	3	5				
Fundamentals of electrical engineering	2	1	1	5				
Engineering drawing and computer graphics	2	0	2	5				
The basics of law and occupational safety	2	1	0	4				
legislation		4	2	2	1	2 1	1	U
Toxicology	2	0	1	4				
Chemical and biological hazards	2	1	0	4				
English language 2	1	0	1	2				
Physical training 2	0	0	2	1				
	26			30				

II. YEAR

III. semester

Course	Но	БСТС		
	L	S	Е	ECIS
Computer assisted data processing	2	0	2	4

Environment and workplace protection techniques	2	2	0	4
Safety management systems	2	0	2	4
Hazards and risks in work environment	2	0	1	4
Health and safety at work principles	2	1	0	4
Testing and certification	2	2	0	4
Materials science	2	1	1	5
Physical training 3	0	0	2	1
	28			30

IV. semester

Course	Hours per week			БСТС
	L	S	Е	ECTS
Physical damages	2	0	1	4
Machines and devices with increased dangers	2	1	1	5
Ergonomics and safety	2	0	1	4
Energy systems	2	0	2	4
Fundamentals of combustion and extinction	2	0	2	4
processes				
Personal protective equipment and rescue	2	1	1	4
equipment				
Hazardous substances in the environment	2	1	1	4
Physical training 4	0	0	2	1
	28			30

III. YEAR

V. semester

Course	Hours per week			ECTS
	L	S	E	ECIS
Pollution and protection of soil	2	1	0	4
Air pollution and protection	2	1	0	4
Water pollution and protection	2	1	0	4
Introduction to entrepreneurship	2	1	0	3
Emergency planning and response	2	0	1	3
Fire safety of buildings	2	0	1	4
Professional diseases and human health	2	0	2	4
Sustainable waste management	2	1	1	4
_	26			30

VI. semester

Course	Но	Hours per week			
Course	L	S	Е	ECIS	
Technical and business safety	2	1	1	4	
Business communication and andragogy	2	1	0	3	

Risk assessment	3	1	1	5
Student practice*	-	-	-	4
Bachelor thesis	0	5	0	5
ELECTIVE COURSES (thi	ree to be c	hosen)		
The best available techniques in environment protection of industrial and other installations	2	1	0	3
Radiation protection	2	0	1	3
Public health	2	1	0	3
Health and safety in food production	2	1	0	3
Safety in construction	2	0	1	3
Active measures of fire protection	2	0	1	3
Sustainability of foundry processes	2	1	0	3
Low-emission combustion	2	0	1	3
		26		30

^{*} Student practice – 21 working days or 168 hours