

The curriculum of undergraduate Occupational Health and Safety and Fire Protection Studies, lasting three years (6 semesters) totalling 180 ECTS credits.

Study course: Occupational Health and Safety

1. year – I. semester

No.	Courses	Hours per week			ECTS Credits
		L	S	E	
1	Mathematics I	4	-	3	7
2	Technical Mechanics	2	-	3	5
3	Graphic Communications	2	-	2	5
4	Basic Informatics	2	-	3	5
5	Materials	2	-	2	5
6	Foreign Language I	2	-	1	3
	Total in semester	14	-	14	30

1. year – II. semester

No.	Courses	Hours per week			ECTS Credits
		L	S	E	
1	Environmental Protection (Health Protection)	4	-	3	8
2	Labor Law	2	-	1	4
3	Programming	2	-	3	5
4	Basic Electrotechnics I	2	-	2	5
5	Mechanical Engineering	2	-	2	5
6	Foreign Language II	2	-	1	3
	Total in semester	14	-	12	30

2. year – III. semester

No.	Courses	Hours per week			ECTS Credits
		L	S	E	
1	Fire and Explosion Hazards	2	-	2	7
2	Hazards in Electricity Use	2	-	2	4
3	Statistics	2	-	3	5
4	Hazardous Substances Risks	2	-	2	4
5	The Danger in Use of Machinery	2	-	2	4
6	Physics	2	-	2	3
7	Chemistry	2	-	2	3
	Total in semester	14	-	15	30

2. year – IV. semester

No.	Courses	Hours per week			ECTS Credits
		L	S	E	
1	Psychophysiology of Work	2	-	2	7
2	Transport Protection	2	-	2	4
3	Thermodynamics	2	-	3	5
4	The Theory of Organizing				
	Protection Education	2	-	2	5
	Protection and Security	2	-	2	5
5	Toxicology	2	-	2	4
6	Total in semester	12		13	30

3. year – V. semester

No.	Courses	Hours per week			ECTS Credits
		L	S	E	
1	Engineering Measurement	2	-	3	8
2	Engineer Projecting	2	-	3	5
3	Electromagnetic Radiation Protection	2	-	2	4
4	Ecology	2	-	2	5
5	Merchandising	2	-	2	5
6	Engineer Economics	2	-	1	3
	Total in semester	12		13	30

3. year – VI. semester

No.	Courses	Hours per week			ECTS Credits
		L	S	E	
1	Safety in Technological Projects	4	-	3	8
2	Noise and Vibrations	2	-	1	4
3	Electrical Installations and Safety Precautions	2	-	2	5
4	Reliability and Safety	2	-	1	3
5	Elective course:				
	Industrial Waste Management	2	-	3	5
	Special Electrical Installations				
	Final thesis				5
6	Total in semester	14	-	12	30

The curriculum of undergraduate Occupational Health and Safety and Fire Protection Studies, lasting four years (8 semesters), totalling 240 ECTS credits.

Study course: Occupational Health and Safety

1. year – I. semester

No.	Courses	Hours per week			ECTS Credits
		L	S	E	
1	Mathematics I	4	-	3	7
2	Technical Mechanics	2	-	3	5
3	Graphic Communications	2	-	2	5
4	Basic Informatics	2	-	3	5
5	Materials	2	-	2	5
6	Foreign Language I	2	-	1	3
	Total in semester	14	-	14	30

1. year – II. semester

No.	Courses	Hours per week			ECTS Credits
		L	S	E	
1	Environmental Protection (Health Protection)	4	-	3	8
2	Labor Law	2	-	1	4
3	Programming	2	-	3	5
4	Basic Electrotehnics I	2	-	2	5
5	Mechanical Engineering	2	-	2	5
6	Foreign Language II	2	-	1	3
	Total in semester	14	-	12	30

2. year – III. semester

No.	Courses	Hours per week			ECTS Credits
		L	S	E	
1	Fire and Explosion Hazards	2	-	2	7
2	Electricity Use Hazards	2	-	2	4
3	Statistics	2	-	3	5
4	Hazardous Substances Risks	2	-	2	4
5	The Danger in Use of Machinery	2	-	2	4
6	Physics	2	-	2	3
7	Chemistry	2	-	2	3
	Total in semester	14	-	15	30

2. year – IV. semester

No.	Courses	Hours per week			ECTS Credits
		L	S	E	
1	Psychophysiology of Work	2	-	2	7
2	Transport Protection	2	-	2	4
3	Thermodynamics	2	-	3	5
4	The Theory of Organizing Protection Education Protection and Security	2	-	2	5
5		2	-	2	5

6	Toxicology	2		2	4
	Total in semester	12		13	30

3. year – V. semester

No.	Courses	Hours per week			ECTS Credits
		L	S	E	
1	Engineering Measurement	2	-	3	8
2	Engineer Projecting	2	-	3	5
3	Electromagnetic Radiation Protection	2	-	2	4
4	Ecology	2	-	2	5
5	Merchandising	2	-	2	5
6	Engineer Economics	2	-	1	3
	Total in semester	12		13	30

3. year – VI. semester

No.	Courses	Hours per week			ECTS Credits
		L	S	E	
1	Safety in Technological Projects	4	-	3	8
2	Noise and Vibrations	2	-	1	4
3	Electrical Installations and Safety Precautions	2	-	2	5
4	Industrial Waste Management	2	-	3	5
5	Special Electrical Installations	2	-	2	5
6	Reliability and Safety	2	-	1	3
	Total in semester	14	-	12	30

4. year – VII. semester

No.	Courses	Hours per week			ECTS Credits
		L	S	E	
1	Fire Protection Due to Static Electricity and Lightning Discharges	4	-	3	8
2	Fire Protection Regulation and Control	2	-	2	4
3	Working Environment Comfort	2	-	2	5
4	The Risk of Mechanical Action	2	-	2	5
5	Biomechanics	2	-	2	5
6	Project	-	-	-	3
	Ukupno u semestru	12	-	11	30

4. year – VIII. semester

No.	Courses	Hours per week			ECTS Credits
		L	S	E	
1	Fire Protection in the Electric Power Sector	2	-	3	8
2	Maintenance	2	-	2	4
3	Pressure Vessels and Piping	2	-	2	4
4	Ergonomic Design	2	-	2	5
5	Practice	-	-	-	5
6	Final thesis	-	-	-	4
	Total in semester	8		9	30

The curriculum of undergraduate Occupational Health and Safety and Fire Protection Studies, lasting three years (6 semesters) totalling 180 ECTS credits.

Study course: Fire Protection

1. year – I. semester

No.	Courses	Hours per week			ECTS Credits
		L	S	E	
1	Mathematics I	4	-	3	7
2	Technical Mechanics	2	-	3	5
3	Graphic Communications	2	-	2	5
4	Basic Informatics	2	-	3	5
5	Materials	2	-	2	5
6	Foreign Language I	2	-	1	3
	Total in semester	14	-	14	30

1. year – II. semester

No.	Courses	Hours per week			ECTS Credits
		L	S	E	
1	Environmental Protection (Health Protection)	4	-	3	8
2	Labor Law	2	-	1	4
3	Programming	2	-	3	5
4	Basic Electrotehnics I	2	-	2	5
5	Mechanical Engineering	2	-	2	5
6	Foreign Language II	2	-	1	3
	Total in semester	14	-	12	30

2. year – III. semester

No.	Courses	Hours per week			ECTS Credits
		L	S	E	
1	Fire and Explosion Hazards	2	-	2	7
2	Electricity Use Hazards	2	-	2	4
3	Statistics	2	-	3	5
4	Hazardous Substances Risks	2	-	2	4
5	The Danger in Use of Machinery	2	-	2	4
6	Physics	2		2	3
7	Chemistry	2		2	3
	Total in semester	14		15	30

2. year – IV. semester

No.	Courses	Hours per week			ECTS Credits
		P	S	V	
1	Psychophysiology of Work	2	-	2	7
2	Transport Protection	2	-	2	4
3	Thermodynamics	2	-	3	5
4	The Theory of Organizing Protection Education	2	-	2	5
5	Protection and Security Toxicology	2	-	2	5
6	Total in semester	2		2	4
		12		13	30

3. year – V. semester

No.	Courses	Sati tjedno			ECTS Credits
		L	S	E	
1	Engineering Measurement	2	-	3	8
2	Engineer Projecting	2	-	3	5
3	Electromagnetic Radiation Protection	2	-	2	4
4	Ecology	2	-	2	5
5	Merchandising	2	-	2	5
6	Engineer Economics	2	-	1	3
	Total in semester	2		1	3
		12		13	30

3. year – VI. semester

No.	Courses	Hours per week			ECTS Credits
		L	S	E	
1	Fire Protection in Technological Processes	4	-	3	8
2	Theory of Ignition and Combustion	2	-	1	4
3	Extinguishing Fire	2	-	2	5
4	The Importance of Prevention in the Fire Protection	2	-	1	3
5	Elective course: Alarm Systems	2	-	3	5
6	Reliability and Safety Final thesis				5
	Total in Semester	14	-	11	30

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Study course: Fire Protection

1. year – I. semester

No.	Courses	Hours per week			ECTS Credits
		L	S	E	
1	Mathematics I	4	-	3	7
2	Technical Mechanics	2	-	3	5
3	Graphic Communications	2	-	2	5
4	Basic Informatics	2	-	3	5
5	Materials	2	-	2	5
6	Foreign Language I	2	-	1	3
	Total in semester	14	-	14	30

1. year – II. semester

No.	Courses	Hours per week			ECTS Credits
		L	S	E	
1	Environmental Protection (Health Protection)	4	-	3	8
2	Labor Law	2	-	1	4
3	Programming	2	-	3	5
4	Basic Electrotehnics I	2	-	2	5
5	Mechanical Engineering	2	-	2	5
6	Foreign Language II	2	-	1	3
	Total in semester	14	-	12	30

2. year – III. semester

No.	Courses	Hours per week			ECTS Credits
		L	S	E	
1	Fire and Explosion Hazards	2	-	2	7
2	Electricity Use Hazards	2	-	2	4
3	Statistics	2	-	3	5
4	Hazardous Substances Risks	2	-	2	4
5	The Danger in Use of Machinery	2	-	2	4
6	Physics	2		2	3
7	Chemistry	2		2	3
	Total in semester	14		15	30

2. year – IV. semester

No.	Courses	Hours per week			ECTS Credits
		L	S	E	
1	Psychophysiology of Work	2	-	2	7
2	Transport Protection	2	-	2	4
3	Thermodynamics	2	-	3	5
4	The Theory of Organizing T Protection Education	2	-	2	5
5	Protection and Security	2	-	2	5
6	Toxicology	2	-	2	4
	Total in semester	12		13	30

3. year – V. semester

No.	Courses	Hours per week			ECTS Credits
		L	S	E	
1	Engineering Measurement	2	-	3	8
2	Engineer Projecting	2	-	3	5
3	Electromagnetic Radiation Protection	2	-	2	4
4	Ecology	2	-	2	5
5	Merchandising	2	-	2	5
6	Engineer Economics	2	-	1	3
	Total in semester	12		13	30

3. year – VI. semester

No.	Courses	Hours per week			ECTS Credits
		L	S	E	
1	Safety in Technological Projects	4	-	3	8
2	Ignition and Combustion Theory	2	-	1	4
3	Extinguishing Fire	2	-	2	5
4	Alarm Systems	2	-	3	5
5	Reliability and Safety	2	-	1	5
6	The Importance of Prevention in the Fire Protection	2	-	1	3
	Total in semester	14	-	11	30

4. year – VII. semester

No.	Courses	Hours per week			ECTS Credits
		L	S	E	
1	Fire Protection Due to Static Electricity and Lightning Discharges	4	-	3	8
2	Edit and Control of Fire Protection Protection Against Fire and	2	-	2	4
3	Explosion Equipment for Intervention and	2	-	2	5
4	Rescue Heat and Mass Transfer	2	-	2	5
5	Project	-	-	-	3
6	Total in semester	12	-	11	30

4. year – VIII. semester

No.	Courses	Hours per week			ECTS Credits
		L	S	E	
1	Fire Protection in the Electric Power Sector	2	-	3	7
2	Fire Intervention and Rescue Tactics	2	-	2	4
3	Fire Protecting of Buildings	2	-	2	5
4	Maintenance	2	-	2	5
5	Practice	-	-	-	5
6	Final thesis	-	-	-	4
	Total in semester	8		9	30