



RĪGAS TEHNISKĀ UNIVERSITĀTE

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Study programme "Occupational Safety "

Main attributes

Title	Occupational Safety
Identification code	IGA0
Education classification code	47862
Level and type	Professional Master Study
Higher education study field	Internal Security and Civil Protection
Head of the study field	Aivars Vilnis Krastiņš
Department responsible	Faculty of Engineering Economics and Management
Head of the study programme	Jānis Ieviņš
Professional classification code	2263-01
The type of study programme	Extramural
Language	Latvian
Accreditation	05.06.2013 - 31.12.2023; Accreditation certificate No 24
Volume (credit points)	60.0
Duration of studies (years)	Full time studies - 2,0; Extramural - 2,0
Degree or/and qualification to be obtained	Professional Master Degree in Occupational Safety
Qualification level to be obtained	The 7th level of European Qualifications Framework (EQF) and Latvian Qualifications Framework (LQF)
Programme prerequisites	2nd Level Professional Higher Education in Occupational Safety or Environment Protection, or Professional Bachelor Degree and Qualification of Engineer or Qualification of Engineer received after at least 4 years long study program and at least 2 years of practical work in Occupational Safety, or Higher Education in Chemistry, Physics, Computer Sciences, Law, which was received after at least 4 years long study program and at least 3 years of practical work in Occupational Safety

Description

Abstract	The study programme was founded in 2004 as the first such level study programme in Latvia to ensure state, municipality and private companies and organizations with highly qualified specialists in labour protection. The programme contains such compulsory study courses as "Fundamentals of Labour Protection Law", "Labour Protection and Safety", "Occupational Health and Fundamentals of Work Medicine", "Business Economics" and compulsory elective study courses, e.g., "Hazardous Equipment and Its Monitoring", "Safe Usage of Hazardous Substances", "Labour Psychology and Ergonomics" and others. Furthermore, the programme also envisages such study courses as "Pedagogy" and "Psychology". The study programme is implemented by the Institute of Occupational Safety and Civil Defence at RTU (Riga) and is accredited as a full-time (1.5 years) and part-time (2 years) study programme.
Aim	The aims of the study programme are to provide students with relevant theoretical knowledge and practical skills in the areas of labour protection system management, organization and supervision, work environment risk analysis and forecasting, to enable students to set the project goal and take part in its development and implementation, to make calculations, to take decisions on improving labour protection system and implement them, as well as develop research skills necessary to continue their studies at the doctoral level.
Tasks	The tasks of the study programme are the following: <ul style="list-style-type: none"> • to provide knowledge in the area of labour protection legislation, risk management and expertise in working environment, special areas of safe labour, fire safety and civil protection, business management and economics, occupational health and work medicine, environmental protection, theory of industrial risks, and also in pedagogy and psychology. Fulfilment of the requirements set by the study programme is controlled by surveying students and by using the results of examinations and tests; • to develop practical skills for using different orders and regulations issued by the Cabinet of Ministers of the Republic of Latvia, as well as rules and instructions issued by the Ministry of Welfare and the Ministry of Economics and their departments and to enable the students to use skills, gained during studies and internship, for elaborating term papers and projects, and also Master Thesis. Fulfilment of the requirements set by the study programme is controlled by assessment of term papers and projects, internship report and Master thesis; • to enable the graduate to understand the goal of solving a problem, to professionally participate in managing and developing its implementation process by applying all the procedures needed. Fulfilment of the requirements set by the study programme is controlled by assessment of the graduates' job interviews and references; • to ensure amendments to the content, learning process, research development according to changes in international, scientific and didactic practice; • to encourage students' interest in the ongoing processes in society, including professional sphere, to enable students to become modern, responsible and highly qualified professionals.

Learning outcomes	The study programme provides the following areas of expertise: 1. ability to analyze and practically use requirements of normative acts and standards in the area of labour protection; 2. ability to organize and plan work related to internal monitoring of working environment, risk analysis and preventive measures; 3. ability to plan labour protection operations and operations related to working environment protection in a company; 4. ability to practically use working environment risk assessment methods, including qualitative, semi-qualitative or quantitative assessment methods; 5. ability to justify priorities and effectiveness of labour protection operations and operations related to working environment protection; 6. ability to organize and implement labour protection training for personnel; 7. ability to assess and plan operations in case of emergency situations; 8. ability to investigate accidents, to analyse them and identify their causes; 9. ability to cooperate with an employer, employees, their representatives and trustees; 10. ability to understand economic activities of a company; 11. ability to write reports, reviews, meeting minutes and to inform the board and employees of a company about them; 12. ability to manage the work of departments of a company in the area of labour protection; 13. ability to create, use and analyse databases necessary for work; 14. ability to communicate in the official language and at least in two foreign languages; 15. ability to conduct research of scientific value in the area of labour protection.
Final/state examination procedure, assessment	Upon completion of the study programme, the final examination implies the elaboration and defence of Master Thesis, which is evaluated according to a 10-point grading scale. Assessment criteria for assessing the Master Thesis are as follows : - systematization, consolidation and extension of theoretical knowledge and experience; - independent acquisition of literature and other informative sources, including literature in foreign languages; - ability to formulate theoretical approaches to solve tasks and the problems under consideration, which includes complex summaries and elements of novelty; - ability to analyse current business problems; - ability to propose and implement practical solutions; - development and consolidation of skills necessary to conduct independent applied research and defend the acquired practical results. A student who fulfils the requirements set by the study programme and successfully passes the final examinations with an evaluation of not less than 4 (almost satisfactory) obtains the diploma of second-level professional higher education.
Description of the future employment	Upon receiving a diploma, the graduate acquires the status “Competent Labour Protection Specialist” (LR MW “Register of Competent Specialists”). The graduate is able to work as a Labour Protection Specialist at state and municipality institutions, as well as at commercial companies. According to the Legislation of the Republic of Latvia, the graduate is entitled to carry out pedagogical work in specialty.
Special enrollment requirements	Second-level professional higher education in labour protection or environment protection; Professional Bachelor’s Degree and Qualification of Engineer or Qualification of Engineer obtained after completion of 4-year study programme and 2-year practical experience in the area of labour protection, as well as 2nd level higher education in chemistry, physics, handicraft and juridical sciences obtained upon completing 4 year study programme and at least 3-year practical experience in the area.
Opportunity to continue studies	The graduates may continue their education at the doctoral study programme “Environmental Science” of RTU (study programme code EDX0).

Courses

No	Code	Name	Credit points
A		Compulsory study courses	20.0
1	IDA501	Labour Protection and Safety	5.0
2	IDA502	Occupational Health and Fundamentals of Occupational Medicine	3.0
3	IDA717	Scientific Seminars	3.0
4	IUV551	Business Management	2.0
5	IDA506	Labour Psychology and Ergonomics	2.0
6	IDA503	Environment Protection	2.0
7	IDA716	Topical Problems of Labour and Labour Safety Law	3.0
B		Compulsory elective study courses	14.0
B1		Field-specific study course	12.0
1	IDA504	Means of Personal and Collective Labour Protection	2.0
2	ICD719	Dangerous Equipment and Electrical Safety	3.0
3	IDA506	Labour Psychology and Ergonomics	2.0
4	IDA507	Principles of Computer Modelling and Data Processing	2.0
5	IDA508	Safe Working Practice with Dangerous Substances	2.0
6	IDA509	Principles of Designing Labour Protection Equipment	2.0
7	ICA501	Civil Defence and Fire Safety	3.0
B5		Pedagogical and psychological sciences study courses	2.0
1	HSP484	Psychology	2.0
2	HSP446	Pedagogy	2.0
D		Practical Placement	6.0
1	IDA010	Practical Placement	6.0
E		Final examination	20.0
1	IDA002	Master Thesis	20.0