MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE SUMY NATIONAL AGRARIAN UNIVERSITY

Occupational Safety and Physics Department Engineering and Technology Faculty

MODULE SYLLABUS

Life Safety and Basics of Occupational Health and Safety
Implemented in the "Veterinary medicine" Academic Program
Area of specialization 211 Veterinary medicine
at the second (master's) level of higher education

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Module syllabus agreed at the Occupational Safety and Physics Department	Minutes No 10 dated June18 2023	
Meeting	Head of Department	(S.M. Khursenko)
Approved by:		
Guarantor of the Academic	program _	(Petrov R.)
Dean of the Faculty	Brunes	(Nechiporenko A.)
Syllabus review (attached) i		hursenko,S.
Representative of the Depar licensing and accreditation	tment of Education Quality assurance,	Baranl E)
Registered in electronic data	1 base 4. Od. 2	023
@SNATI 2023		

Syllabus review data:

The academic	The Academic	Changes revised and approved			
year in which changes are made	program attachment number with changes description	Minutes No and date of the department meeting	Head of Department	Guarantor of the Academic program	

1. MODULE OVERVIEW

1. CORRELATION BETWEEN MODULE LEARNING OUTCOMES (MLOs) AND

1.	Title	Life Safety and Basics of Occupational Health and Safety				
2.	Faculty/Department	Engineeri	Engineering and Technology Faculty/ Occupational Safety and			
			Department			
3.	Туре		compulsory			
4.	Program(s) to which	211 Veter	211 Veterinary medicine			
	module is attached (to be					
	filled in for compulsory					
	types) Level of the National	7	7			
6.	Qualifications Framework	/				
7.	Semester and duration of	9 / 15				
/.	module	7/13				
8.	ECTS credits number	1,5				
9.	Total workload and time		Directed st	udy	Self-directed study	
	allotment	Lectures	Practicals	Labs		
		2	4		39	
10.	Type of control	credit				
11.	Language of instruction	English				
12.	Module leader	Khvorost				
13.	Module leader contact	Occupational Safety and Physics Department, and the auditorium				
1.4	information			n, khvorost.t83@		
14.	Module description		-		Safety cover the theory and	
		*			dangerous and harmful and health during work.	
		*		•	of safety: identification	
					identified hazards by the	
					actions in emergencies.	
15.	Module aim				ompetencies to ensure	
					d improve working	
					evements of scientific and	
					erience, as well as	
			_	-	ccessful professional	
		_	_	compliance wit	h all labor safety	
16.	Modula Danandanaias	requireme		inlings: physics	chamistry life sofety	
17	Module Dependencies The policy of academic				chemistry, life safety.	
1 /	integrity					
	incegnity	university system of prevention and detection of academic plagiarism. The main requirements for the course include - links to sources of information in the case of the use of ideas, developments, statements, information; providing reliable information about the				
		results of their own educational (scientific, creative) activities, used research methods and sources of information. Verification of texts				
		-			e means for all applicants.	
			_	reducation has th	ne right to appeal the results	
4.0	T 1 1 2 7 11	of the ass		/ 17 /	1 011 4042	
18	Link in Moodle	https://cd	n.snau.edu.ua/	<u>/moodle/course/v</u>	<u>/iew.php?id=4012</u>	

PROGRAM LEARNING OUTCOMES (PLOs)

MLOs:		PLOs			How assessed
On successful completion of the module the	PLOs	PLOs	PLOs	PLOs	
learner will be able to:	9	11	17	19	
MLOs 1. Effectively use the provisions of					Discussion, group
regulatory and legal documents, and ratified					work Conducting a
international standards regulating working					survey (testing)
conditions in production. Use safety instructions					
in your activities, understand the level of	+				
responsibility for personal and collective safety,					
and the need for mandatory full implementation					
of all measures to guarantee occupational safety					
at workplaces					
MLOs 2. Implement safe technologies, choose					Discussion, group
optimal working conditions and modes, design					work
and organize workplaces based on modern	+		+		
technological and scientific achievements in the					
field of occupational health and safety.					
MLOs 3. Determine indicators of the					Testing, defense of
microclimate of industrial premises, parameters					practical work
of dustiness, and lighting of industrial premises					
and give an appropriate assessment of the impact					
of these parameters on the human condition,		+			
determine the general impact of sanitary and					
hygienic working conditions on the worker's body					
and prescribe possible measures to prevent their					
harmful effects.					~
MLOs 4. To take care of personal and collective					Conducting a survey
safety and to be aware of the necessity of				+	(testing)
mandatory implementation in full of all measures					
to guarantee labor safety at workplaces.					

3. MODULE INDICATIVE CONTENT

	Distribution of hours			Learning		
Topics	Directed study		Directed study		Self- directed study	resources
	Lectures	Practicals				
Topic 1. The importance of safety and health			8	[1, 2, 3]		
Technological change, the risks, society's response,						
occupational safety and health						
Topic 2 Fundamental concepts and terms	2		8	[1, 2, 3, 4, 5]		
Why safety, Accidents, Injuries, and Losses,						
Accidents Defined, Incidents and Accidents, Types						
of Losses, unsafe acts and unsafe conditions,						
incident-injury relationships, incident, cost						
relationships, incident and accident theories, domino						
theory, multiple factor theories, energy theory, errors						
in management systems, single-factor theories,						
preventive strategies, severity, cost, combinations,						
the three es of safety, how safe is safe enough						
Topic 3 General Principles Of Hazard Control		2	7	[1, 2, 5]		
Hazards and hazard control defined, Sources of						
hazards, Planning and Design, Communication,						

Principles of hazard control, Knowledge and Recognition of Hazards, Eliminate the Hazard,				
Reduce the Hazard, Eliminate the Hazard, Reduce				
the Hazard, Safety Devices, Warning Devices,				
Procedures ,Personal Protective Equipment,				
Environmental hazards, Effects, Information				
Requirements, Hazard Recognition, Instrumentation				
and Measurement, Hazard control models, First Aid				
and Emergency Action				
Topic 4 Visual Environment		2	8	[1, 2, 4]
Illumination, Illumination and Lighting, Hazards,				L 7 7 3
Color, Color and Safety, Color Standards, Signage,				
Signage and Safety, Signage Standards,				
\$ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				
Topic 5 Fire protection and prevention			8	[1, 2, 3,]
Methods for controlling combustion and				
extinguishing fires, Products of combustion and their				
hazards ,Behavior of fire, General movement of hot				
gases and smoke, Vertical movement, Smoke				
produced, Fire hazards of materials, Flammable and				
combustible liquids, Other materials, Identification				
of hazards of materials, Fire safety in buildings,				
Fundamentals site planning and accessibility,				
Separation of structures, Building construction,				
Structural integrity, Confinement, Fire load, Fire				
spread, Life safety, Human behavior in fires, General				
principles of life safety,				
Total	2	4	39	

4. TEACHING AND LEARNING METHODS

MLOs	Teaching methods (directed study)	Hours	Learning methods (self-directed study)	Hours
MLO 1	Teaching lecture material. Show examples of problem solving in lectures. Discussion, Brainstorming Work on practical classes. Conducting a survey (testing). Consultations	2	elaboration of lectures, performance of tasks which performance is begun at a practical lessons, study of material for independent work	
MLO 2	Teaching lecture material. Show examples of problem solving in lectures. Discussion, Brainstorming Work on practical classes. Conducting a survey (testing). Consultations	2	elaboration of lectures, performance of tasks which performance is begun at a practical lessons, study of material for independent work	
MLO 3	Teaching lecture material. Show examples of problem solving in lectures. Discussion, Brainstorming Work on practical classes. Conducting a survey (testing). Consultations	1	elaboration of lectures, performance of tasks which performance is begun at a practical lessons, study of material for independent work	
MLO 4	Teaching lecture material. Show examples of problem solving in lectures. Discussion, Brainstorming Work on practical classes. Conducting a survey (testing). Consultations	1	elaboration of lectures, performance of tasks which performance is begun at a practical lessons, study of material for independent work	

5. ASSESSMENT

5.1. Diagnostic assessment

5.2. Summative assessment

5.2.1. Intended learning outcomes methods:

No	Summative assessment methods	Grades	Deadline
	Autumn semeste	<u> </u>	
1.	Survey / Testing on processed topics (multiple choice test)	55	5, 9,14 week
2.	Midterm survey (multiple choice test)	15	according to the schedule of the educational process
3.	Defense of practicals work	30	15 week
	Total	100	

5.2.2. Grading criteria

Summative assessment method	Unsatisfactory	Satisfactory	Good	Excellent
Survey / Testing on	<21 Grades	22-25 Grades	26-30 Grades	31-35 Grades
processed topics (multiple choice test)	<60% correct answers	60-74 % correct answers	75-89 % correct answers	90-100 % correct answers
Midterm survey (multiple choice test)	<7 Grades	7-10 Grades	10-13 Grades	14-15 Grades
(multiple choice test)	<60% correct answers	60-74 % correct answers	75-89 % correct answers	90-100 % correct answers
Project writing	<10 Grades	11-15 Grades	16-18 Grades	19-20 Grades
(proposal)	Task not completed	Most requirements are met, but some components are missing or insufficiently disclosed, there is no analysis of other approaches to the issue	All requirements of the task are fulfilled	All requirements of the task are fulfilled, creativity, thoughtfulness is shown, own solution of a problem is offered
Exam	Task not completed	Most requirements are met, but some components are missing or insufficiently disclosed, there is no analysis of other approaches to the issue	All requirements of the task are fulfilled	All requirements of the task are fulfilled, creativity, thoughtfulness is shown, own solution of a problem is offered

5.3. Formative assessment

Formative exercises are designed to enable students to develop particular aspects of their learning, prior to summative assessments. Formative exercises are designed to help students use feedback and self-reflection to manage and develop their learning so that they can see how to improve their work.

No	Formative Assessment elements	Date		
1.	Passing tests on midterm survey and modules, with	according to the schedule of		
	feedback from the teacher	the educational process		
2.	Verbal feedback from the teacher during classes	during classes		
3.	Consultations, verbal feedback from the teacher during	during classes		
	working on Project proposal.			
4.	Survey / Testing on processed topics (multiple choice test)	5, 9,14 week		

Self-assessment can be used both an element of formative and summative assessment.

6. LEARNING RESOURCES

- 1. Roger L. Brauer, (2006), Safety and Health. 2nd ed.,733 p. Available at: http://iums.ac.ir/uploads/SafetyandHealthforEngineers_Second__95726.pdf
- 2. Jeremy Stranks (2006)Health and Safety Pocket Book 1st ed. 458 p. Available at: http://ua.booksee.org/book/1092965
- 3. John Ridley (2008) Health and Safety in brief. 4th ed. 329 p. Available at: http://ua.booksee.org/book/1079152
- 4. http://www.ilo.org/global/lang--en/index.htm Oфіційний сайт International Labour Organization
- 5. http://www.fssu.gov.ua/fse/control/main/uk/index Офіційний сайт Фонду соціального страхування України.
- 6. http://base.safework.ru/safework Бібліотека безпечної праці МОТ.
- 7. http://www.nau.ua Інформаційно-пошукова правова система «Нормативні акти України (НАУ)».