| Module title: | | Response to public health related disasters | ECTS | 2 | | | | | |
|---|--|---|--------------------------------|---|--------------------------------------|--|--|--|--|
| Polish translation: | | Ochrona zdrowia publicznego w stanach zagrożeń | | | | | | | |
| Course: | | Veterinary Medicine | | | | | | | |
| | | | | | | | | | |
| | anguage: | | age: JN | | | | | | |
| Form of ■ intramu studies: □ extram | | Type of ☐ basic ☐ mandatory ☐ semester: 6 module: ☐ directional ☐ elective | emester: 6 | | | | | | |
| | Academic year: Intake 2022 Catalogue number: | | | | | | | | |
| | | /2023 | | D53 | _22 | | | | |
| Module coordinator: | | Dr Michał Tracz | | | | | | | |
| Teachers responsible for the module: | ne | Academic teachers of the Institute of Veterinary Medicine; Department of Food hygiene and Public Health Protection; PhD students in accordance to the internal legal acts; visiting professors; other specialists in the field of study | | | | | | | |
| Objectives of the module: | | The veterinary profession is linked to public health protection. As part of public safety, public health is exposed to many risks. The consequence of these risks can be loss of health and life among humans and animals, as well as loss of property and damage to the environment. Multidisciplinary teams are required to prepare, prevent, respond and recover. During the course, students will gain knowledge about different types of threats to public health of a natural and intentional nature, about methods of responding in the presence of threats, preparing for the occurrence of threats, preventing threats and recovery after the occurrence of threats. In addition, the course participants will become familiar with the basic administrative structure involved in the implementation of public safety tasks. Lectures: Biological threats Chemical threats and hazard notification and communication systems Radiation threats 6h Exercise: | | | | | | | |
| | | Introduction to disasters and natural disasters, preparation, prevention, counteraction and reconstruction 5h | | | | | | | |
| | | Epidemiological investigation in a food-borne outbreak | | | 4h | | | | |
| | | Epidemiological investigation of the use of biological weapons, criteria for epidemiological analysis during a biological attack simulation. | | | 2h | | | | |
| | | Radiological protection - doses, rules for measuring doses, methods of protection against ionising radiation | | 4h | | | | | |
| Teaching forms, number o | f hours: | a) Lectures; hours 15. b) Laboratory classes; hours 15; | | | | | | | |
| Teaching methods: | | - The lectures are conducted using audio-visual means and remote communication (original multimedia presentations, video/audio, Moodle/Teams/eduportal.pl platforms). - Exercises include students' own work with source texts, electronic systems, individual work and in groups chosen and/or determined by the teacher, concerning the analysis and interpretation of source texts, problem solving, discussion, case study using audio-visual means and remote communication (Moodle/Teams/eduportal.pl platform) - Consultation for students 1h/week. Detailed schedule will be defined by the coordinator of the course at the beginning of semester. Detailed organization of consultations will be defined by the coordinator of the course at the beginning of semester. | | | | | | | |
| Formal prerequisites and in requirements: | nitial | Clinical and laboratory diagnostics, parasitology and invasiology, pathophysiology, Veterinar Pathomorphology 1 | y pharm | acology 1 | | | | | |
| Learning effects | | Course outcomes: | ou relat | earning tcomes ive to the course tcomes | Impact on the course outcomes* | | | | |
| Knowledge: | 1 | He/she knows the principles of protection of human and animal health from intentional and natural threats to public health | A.W. | 11, B.W.8 13, B.W.9, | 1 2 | | | | |
| | 2 | He/she is familiar with the effects of ABC type contamination of the feed, animal and food, environment. | A.W. A.W. | 13, | 3 2 | | | | |
| | | He/she knows the role and rules of conduct of veterinary administration in crisis situations. | B.W.S | 8, C.W.2 9, | 2 | | | | |
| | | | | | | | | | |
| Skills: | 1 | knows how to plan and prepare to respond to a public health emergency. | ., A.U.2, .0, A.U.13, .0 | 1 3 2 | | | | | |

| | | | | | | | | 1 |
|---|------------|---|---------------------------|---------------------|---|---------------|----------------------------------|---------------|
| | | | | | | | A.U.12, A.U.19, | |
| | L | | | | | | A.U.23 | |
| | 2 | knows how to prope | rly responds ir | r crisis situations | | | A.U.1, A.U.13, A.U.12, C.U.4 | 1 2 |
| | | knows how to condu | cts an epidem | iological investiga | tion | | A.U.10, | 1 |
| | | | | | | | B.U.8, B.U.20 A.U.15, B.U.19, | 2 3 |
| | | knows how to assess | the exposure | to ionising radiati | on | | A.U.1, A.U.2, B.U.18 | 2 3 |
| | | knows how to disting | guishes betwe | en types of threat | s to public health | | A.U.1, B.U.22 B.U.23, B.U.25 | 3 2 |
| | | | | | | | A.U.10, B.U.8, | 1 |
| | 1 | He/she is prepared to | o cooperate w | ith other public h | ealth professionals | | KS.1, KS.3, KS.9 | 2 |
| | | | | | vledge and continuing educat | ion | KS.4 KS.8 | 3 2 |
| | | He/she is ready to cr | itically assess | your knowledge o | f public health threats | | KS.1 KS.4, KS.8 KS.9 | 2 3 1 |
| Competences: | 2 | He/she is prepared to | o work in a tea | am | | | KS.1, KS.3, KS.9 | 2 |
| | | He/she is ready to de and the environment | | sponsibility for de | cisions made towards people, | animals | KS.1 KS.4 KS.9 | 3 2 1 |
| | | He/she is ready to pr | resent an attitu | ude in accordance | with ethical principles and th | e rule of | KS.1 | 2 |
| | | law | ssion is linkad | to public hoalth n | rotection. As part of public sa | foty public h | naalth is avnasad | to many |
| Objectives of the module required to obtain learning effects: | | and damage to the environment. Multidisciplinary teams are required to prepare, prevent, respond and recover. During the course, students will gain knowledge about different types of threats to public health of a natural and intentional nature, about methods of responding in the presence of threats, preparing for the occurrence of threats, preventing threats and recovery after the occurrence of threats. In addition, the course participants will become familiar with the basic administrative structure involved in the implementation of public safety tasks. | | | | | | |
| | | | the following c | riteria: transparer | pased on the teacher's assessn acy of the form of the work car | | | |
| | | Examination - Prerequisites: • The examination is taken by persons who received 60% of the points available for the exercises Written/test form with possible use of Moodle platform and/or Teams/eduportal.pl - A set of questions of diverse nature will be used for the examination The examination includes the content presented in lectures and exercises The second term of the exam is in the same form | | | | | | |
| Assessment methods: | | Final and partial scale | e | | | | | |
| | | % e | valuation | grade | | | | |
| | | | very good | 5.0 4.5 | | | | |
| | | | ood + | 4.5 | | | | |
| | | | ufficient+ | 3.5 | | | | |
| | | | ufficient | 3.0 | | | | |
| | | | sufficient methods are | 2.0 anticinated | | | | |
| | | No extra assessment methods are anticipated. In case of unforeseen, unusual circumstances, mandatory remote teaching and remote assessment methods might be | | | | | | |
| | | adopted. | | | | | | |
| Detail description of assess methods; | ment | Fntry in the AHMS as | nd Moodle M | S Teams/edunort | al.nl: Records collected in the | course nort | folio i e individu | al records of |
| Formal documentation of loutcome: | earning | Entry in the eHMS and Moodle, MS Teams/eduportal.pl; Records collected in the course portfolio i.e. individual records of student results, presence lists, written assessments of the students. | | | | | | |
| Elements impelling final grade: | | Final evaluation The student is awarded points for each activity. There is a specific weighting factor (wf). | | | | | | |
| | | Exercises - wf = 0.4 Examination - wf = 0,6 The result is obtained after taking into account the determined weighting factor (wf): | | | | | | |
| Teaching base: | | The result is obtained after taking into account the determined weighting factor (wf); IVM, Department of Food Hygiene and Public Health Protection, Moodle and/or Teams/ | | | | | | |
| Mandatory and supportive | | | | | | | | |
| Obligatory and s | supportive | materials23): | | | | | | |

- 2. Management of Terrorist Events Involving Radioactive Material: (Report No. 138) https://app.knovel.com/web/toc.v/cid:kpMTEIRMRA/viewerType:toc//root_slug:management-terrorist/url_slug:management-terrorist
- Handbook of Toxicology of Chemical Warfare Agents (2nd Edition)
 https://app.knovel.com/web/toc.v/cid:kpHTCWAE0C/viewerType:toc//root_slug:handbook-toxicology-chemical/url_slug:handbook-toxicology-chemical
- 4. Key Elements of Preparing Emergency Responders for Nuclear and Radiological Terrorism: (Commentary No. 19) https://app.knovel.com/web/toc.v/cid:kpKEPERNR3/viewerType:toc//root_slug:key-elements-preparing/url_slug:key-elements-preparing
- 5. Incident Safety and Health Management Handbook (ISHMH) https://app.knovel.com/web/toc.v/cid:kpISHMHIS2/viewerType:toc//root_slug:incident-safety-health/url_slug:incident-safety-health
- Management of Persons Contaminated with Radionuclides: Scientific and Technical Bases (Report No. 161), Volume 2 https://app.knovel.com/web/toc.v/cid:kpMPCRSTB2/viewerType:toc//root_slug:management-persons-contaminated/url_slug:management-persons-contaminated
- 7. Population Monitoring and Radionuclide Decorporation Following a Radiological or Nuclear Incident: (Report No. 166) https://app.knovel.com/web/toc.v/cid:kpPMRDFRN8/viewerType:toc//root_slug:population-monitoring/url_slug:population-monitoring
- 8. Biological Safety Principles and Practices (5th Edition) https://app.knovel.com/web/toc.v/cid:kpBSPPE011/viewerType:toc//root_slug:biological-safety-principles/url_slug:biological-safety-principles
- 9. Bioterrorism A Guide for Facility Managers https://app.knovel.com/web/toc.v/cid:kpBAGFM004/viewerType:toc//root_slug:bioterrorism-guide-facility/url_slug:bioterrorism-guide-facility
- 10. Food Safety Management A Practical Guide for the Food Industry https://app.knovel.com/web/toc.v/cid:kpFSMAPGF1/viewerType:toc//root_slug:food-safety-management/url_slug:food-safety-management
- 11. CDC: Radiation emergences. Casualty Management After Detonation of a Nuclear Weapon in an Urban Area, 2005
- 12. Database of Radiological Incidents and Related Events compiled by Wm. Robert Johnston, last modified 19 December 2009 http://www.johnstonsarchive.net/nuclear/radevents/index.html
- 13. Alexander, David. (2016). How to Write an Emergency Plan. Dunedin Academic Press. Retrieved from https://app.knovel.com/hotlink/toc/id:kpCFRTTV75/how-write-an-emergency/how-write-an-emergency

All materials mentioned above accessible from SGGW Ip on https://app.knovel.com/web/browse.v?jsp=browse&host=www.knovel.com

14. The Biological Effects of Ionizing Radiation: www.nukeworker.com/...Radiation.../RP-1_The_Biological_Effects_of_Ionizing_Radiation.pdf Relevant scientific publications, including those of the module coordinator.

ANNOTATIONS

Quantitative summary of the module:

| Estimated number of work hours per student (contact and self-study) essential to achieve presumed learning outcomes of the module - base for quantifying ECTS: | | | |
|--|--|--|--|
| Total ECTS points, accumulated by students during contact learning: | | | |

^{* 3 –} complete and detailed, 2 – moderate, 1 – basic.