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| Subject | ENVIRONMENTAL PROTECTION |
| Unit running the classes | Department of Preclinical Veterinary Medicine, Sub-Department of Pharmacology, Toxicology and Environmental Protection |
| Location in the programme | I - 2 |
| Duration (number of semesters) | 1 |
| Teaching objectives | Learning environmental risks resulting from anthropogenic activity. Knowledge of toxic substances which have been identified as a source of soil, water and air pollution with special regard to the sources and hazards resulting from the exposure to their toxicity and the methods of preventing or reducing toxic emission. Awareness of the role of veterinary surgeon in environmental protection. |
| Course contents-lectures | Basic issues of environmental protection: terminology, significance of environmental monitoring (measurement methods), processes occurring in natural and artificial ecosystems, pollutants of ecosystems and their impact on animal feed and animals' health (set standards), presence of natural toxic compounds in animal feed, foreign substances in food of animal origin. Legal articles and institutions in charge of environmental protection in Poland and abroad. |
| Course contents-classes | Water cycle in biosphere, hydrological balance. Sources and types of air, water and soil contamination, environmental pollution prevention. Effects of air, water and soil pollution and their impact on the quality of animal feed and animals' health. Ways of reduction of industrial gases and dust. Natural environment and its protection. Global effects. Ionizing radiation and its impact on human and animal health. Types of waste and methods of waste management. Sewage treatment. The role of veterinary surgeon in environmental protection. Veterinary and environmental monitoring. |
| Teaching- teaching methods | Lectures and multimedia presentations, films and discussions about the issues raised in papers. |
| Language of instruction | English |
| ECTS | 2 |
| Prerequisites (a sequence of subjects) | Completion of the courses in biology, biophysics, chemistry, biochemistry and physiology with credits. |
| Expected learning outcomes and competences acquired | Mastering considerable knowledge of environmental toxicology, acquisition of skills in estimating and preventing environmental threats resulting from exposure to pollutants. |
| Assessment methods | Evaluation of papers, credit in practical classes. |
| Examination methods | Written exam |
| People taking part in subject teaching | Jose Luis Valverde Piedra, PhD, DVM, Professor |