

Annotation of compulsory educational component

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| Academic discipline | TECHNOLOGY OF ANIMAL REPRODUCTION |
| Tutor | Name of the The teacher is Yuriy Mykolayovych Ordin Position: Associate professor of the department of obstetrics and biotechnology of animal reproduction Scientific degree: candidate of veterinary sciences |
| Courses and semesters, when the discipline is planning to study | 2 courses (bachelor's degree) 3 semesters |
| Faculties whose students are invited to study discipline | Biological-technological faculty |
| List of competencies and learning-related outcomes that discipline provides | <p>According to the requirements of the educational-professional program "Technology of production and processing of livestock products" applicants must acquire the ability to obtain the following competencies:</p> <p>GC 3. (general competence). Ability to apply knowledge in practical situations.</p> <p>GC 4. Knowledge and understanding of the subject area and understanding of professional activity.</p> <p>GC 7. Ability to evaluate and ensure the quality of work performed.</p> <p>PC 2 (professional competence). The ability to use of modern knowledge about methods of reproduction, patterns of individual development and breeding of animals for effective professional activity in the field of animal husbandry. FC</p> <p>13. The ability to use special knowledge to carry out sanitary and hygienic and preventive measures on farms and other facilities for the production and processing of livestock products.</p> <p>The result of studying the discipline is the students' acquisition of such knowledge and skills:</p> <ul style="list-style-type: none"> - to receive sperm from males of various types of agricultural animals; - assess the quality of semen, dilute, store and thaw it before introducing it to willing females; - to determine the fertility of the herd of animals in the farm; - artificially inseminate females of different species using different methods; - organize births, provide birth assistance and receive and evaluate newborns; - monitor the condition of the mammary gland in lactating animals. - determine the causes and dimensions of infertility and develop preventive measures to overcome it and prevent its manifestation in animals. |

| Description of the discipline | |
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| Preconditions necessary for the study of discipline | The mandatory educational component of the discipline "Animal Reproduction Technology" is based on knowledge of such disciplines as "Physiology of rural-urban animals", "Morphology of rural areas animals", "Biochemistry in animal husbandry", "Genetics with biometrics", "Feeding rural animals", "Hygiene and welfare of animals", "anatomy", studied in previous semesters. |
| Maximum number of students who can study simultaneously | 55 students |
| Lesson plans | <p>Lectures</p> <ol style="list-style-type: none"> 1. Evolution of reproduction and morphophysiological features of the reproductive system of rural and urban agricultural animals. 2. Physiology of sexual cyclist of rural and urban agricultural animals. 3. Physiology and organization of natural insemination. 4. Technology of obtaining and evaluation of sperm quality. 5. Organization and technology of artificial insemination of animals and embryo transplantation in Ukraine. 6. Transplantation of embryos. 7. Diagnosis of pregnancy in rural women agricultural animals. 8. Physiology of pregnancy in rural women agricultural animals. 9. Physiology of childbirth in rural women agricultural animals. 10. Physiology of the postpartum period. 11. Physiology and inflammation of the mammary gland in females of rural agricultural animals. 12. Infertility and barrenness of animals. <p>Topics of practical classes</p> <ol style="list-style-type: none"> 1. Technical and biosafety briefing. 2. Morphophysiological characteristics of the reproductive organs of female farm animals. 3. Morphophysiological characteristics of male reproductive organs of farm animals. 4. Methods and technique of obtaining and evaluating sperm quality. 5. Detection of sexual desire and optimal time for sperm injection. 6. Preparation of sperm for injection. Semen doses. 7. Methods of introducing sperm during artificial insemination. 8. Preparation of utensils, tools, solutions and materials for artificial insemination of farm animals. 9. Methods of obstetric research and diagnosis of pregnancy and its timing. 10. Indications and basic rules for providing maternity assistance. 11. Methods of mammary gland research and diagnosis of mastitis. 12. Determination of infertility and economic losses due to infertility of cows. |
| Teaching language | Ukrainian, English |