COURSE REGISTRATION FORM

Teacher	Dragan Stanojević
University	University of Belgrade, Faculty of Agriculture
Course	Modern biotechnological reproductive technologies aimed to increase genetic capacity of domestic animals
Target	Agricultural Middle Schools
Type	blended
Duration	2 days - 16 hours

Description	The course would last two days. A first part of the course will be held with computers and platform for electronic learning. In the first part of the course a material which will consist of textual part, photographs, video material and illustrations of all the phases of mentioned biotechnological procedure will be presented to the teachers via lectures on *Moodle*. There will be three lessons: estrous cycle in breeding females and possibility to control it, superovulation and embryo-transfer and cloning of domestic animals. The lessons will be presented in this chronological order. At the end of each lesson the participants will be asked some questions to which they have to give a correct answer in order to pass to a next lesson. In this way the participant will revise his/her pre-knowledge on reproduction and with the help of this knowledge and his/her critical opinion he/she will try to solve it on their own and to understand the importance and technique of mentioned methods. During the course the forum will be held where the participants will be able to communicate and exchange the impressions and ideas and try to solve misunderstandings. In addition, a creator of the course will also be involved in a discussion as a forum moderator. Second part of the course is conceived as a workshop. In the first part of the workshop the participants would be free to express their misunderstandings and unclear items which they could not solve during the first part of the course. They would try to solve these problems mutually explaining them to each other in active participation and assistance from the creator of the course. Each of the mentioned biotechnological methods would be presented to them in the form of video material but with the comments and explanations by the lecturers. After that the participants of the course would be randomly divided into groups and be given one task each where with the application of previously acquired knowledge they would try to solve an actual practical problem and at the end would present their possible solution and explain it. After presenting the solution to a problem a discussion would be organized (round table) where everyone would be able to express his/her opinion and views and make comments on a potential use of mentioned methods in our livestock breeding.

Contents	1. Estrous cycle of breeding females and estrous cycle control. 2. Superovulation and embryo-transfer. 3. Cloning of domestic animals.

Objectives	1. To revise their previously acquired knowledge in reproduction; 2. To learn about a new biotechnological procedures in reproduction of domestic animals; 3. To practice expressing argumentative standpoint regarding mentioned biotechnological measures; 4. To consider the problem of use of these new technologies in our context: to realize a potential possibilities for the application of new knowledge and technologies. 5. To get acquainted with the problems and potential consequences of using these procedures also regarding ethical principles, especially when we speak about cloning of domestic animals.

Activities	Presented in the description of the course.

Materials	Computer with internet connection, computer and projector, paper and pencils for participants + lessons for studying + questions/knowledge test +video snapshot of each of the mentioned biotechnological methods + task to apply knowledge in practice