

ANIMAL HUSBANDRY ENGINEERING GRADUTE DEGREE PROGRAM

1. Name of graduate degree program: MSc in Animal Husbandry Engineering

2. Qualification level that can be earned in the graduate degree program and designation of the qualification in the degree certificate:

Qualification level: master; (magister, MSc in short)

Qualification: certified animal husbandry engineer

Name of the qualification in English: MSc in Animal Husbandry Engineering

3. Academic discipline: agricultural

4. Accepted qualifications for entry into the master's degree program:

4.1 The whole amount of collected credits points can be taken into account for entering the master's program in case of a BSc in Animal Husbandry Engineering, Agricultural Engineering or Wildlife Management Engineering

4.2 *For students who have earned the amount of credit points determined by section 11, the following degrees can be considered for entering the master's program:*

Degrees in Plant Production Engineering, Environmental Protection Engineering, Economics and Rural Development Engineering, Information Technology and Agricultural Public Policy Administration Engineering, Environmental Management and Agricultural Engineering, Food Engineering, Mechanical Engineering in Agriculture and Food industry, Biology, BSc in Environmental Sciences and Veterinary Medicine 5-year-program and MSc degrees.

4.3 The following degrees can also be accepted for an entry into the master's degree program if applicants have collected the number of credit points determined by section 11: undergraduate degree programs that result in a Bachelor's or Master's level certificate and college level (4-year-program) and university level (5-year-program) degrees in compliance with the Act LXXX of 1993 about higher education that are accepted by the Credit Equivalence Committee of the institution after overviewing of students' knowledge based on which the number of credit points were earned.

5. Training duration in semesters: 4 semesters

6. Number of credit points to be earned to complete the master's degree program: 120 credit points

6.1. number of credit points for foundation courses: 10 – 20 credit points;

6.2. number of credit points for core professional training content: 30 – 54 credit points;

6.3. number of specialized credit points for differentiated professional training content: 30 - 35 credit points

6.4. minimal number of credit points for optional courses: 6 credit points;

6.5. credit points for degree thesis: 30 credit points.

6.6. ratio of applied skills: at least 30 % according to the institutional curriculum.

7. Goal of the master's degree program, professional competence to be acquired:

The goal of the program is to train animal husbandry engineers, who are able to manage the tasks of production, processing, marketing and other professional issues regarding animal commodities aided by their knowledge in natural sciences, agricultural-technology, and food trade, product processing and animal sciences. They can conduct planning, synthesizing, research and innovative activities as well and continue their studies in doctoral programs.

a) Graduate students of the program are familiar with :

- the theory and practice of producing, processing and marketing of animal products
- the quality, safety and environmental regulations and the legal and economic regulatory system of animal commodities production
- the scientific background of animal husbandry
- regulations of animal protection and livestock health management
- modern livestock farming technologies
- animal welfare regulations

b) Graduate students of the master's program are able to:

- plan, organize and control the production, processing and marketing processes of livestock products
- participate creatively in innovation processes
- develop and introduce new technologies and methods
- develop and independently execute solutions optimal to the agro-economic potential of the given production unit
- develop technological variations of the animal husbandry sector
- develop and adopt complex technological systems
- plan and control the work of breeding and special breeding of livestock
- coordinate livestock breeding, research, development and professional consultancy
- perform the tasks of rural development
- conduct individual research in agricultural and natural sciences

c) the essential personal qualities and skills to apply their qualification :

- ability to detect and solve problems
- approach to design and develop
- organizational skills
- creative and systematic way of thinking
- motivation to constantly expand their knowledge, apply new knowledge and ecology-oriented way of thinking
- ability to formulate professional opinion and communicate it effectively
- ability to utilize, analyze and make decisions
- environmentally-conscious conduct
- adherence to environmental regulations
- receptiveness to environmental and habitat protection
- sense of professional responsibility

- capability to cooperate, and take leading positions after completing the necessary practice

8. Significant study areas for the master's qualification level:

8.1. Compulsory study areas that are necessary to earn the master's degree program and expand the scope of students' knowledge acquired in the undergraduate degree program: 10-20 credit points

applied genetics, production physiology, biochemistry, and food chemistry

8.2. *Compulsory study areas of the core training content:* 30 – 54 credit points
fodder management, feed crops production, lawn utilization, animal husbandry biotechnology, special animal husbandry, organization of animal husbandry and breeding projects, pasture-based livestock farming, animal livestock farming technologies, reproduction biology, epidemic control, animal protection and health management, the design, construction and management of farming factories, milk and meat processing, food quality and safety, sectoral economics, food marketing, human resources management.

8.3 *Compulsorily optional areas of study in the core professional training content:* 30 - 35 credit points

ecological animal husbandry, special issues of breeding certain animal species, method of evaluating livestock products, pet and hobby animal breeding, fish production and aquaristics, race-horse breeding, organization of equestrian

9. Requirements of the internship connected to the degree program:

The duration of the internship is at least 4 weeks determined by the curriculum of the higher education institution.

10. Language requirements:

At least an intermediate level (B2), state-recognized, complex language certificate or the equivalent school leaving exam certificate is required in any modern foreign language which has got scientific literature in that particular profession to earn the master's degree.

11. Entry requirements of the graduate degree program:

Based on the equivalence of credits that represent students' knowledge, - as defined by higher education acts – Students must have at least 60-84 credit points from their previous studies in the following areas: natural sciences, technology, plant production, animal husbandry and economics.

Another entry requirement is that students must have 60 credit points in addition to the compulsory credit points. If these 60 credit points are recognized, the institution can request students to earn no more than 24 additional credit points within the listed study areas parallel with the masters' training program. (in compliance with the study and examination regulations of the higher educational institution).