Czech University of Life Sciences Prague

Faculty of Tropical AgriSciences

Master's Degree Study Programme

Wildlife and Livestock Production, Management and Conservation (WLPMC)

Specialization:
SUSTAINABLE ANIMAL PRODUCTION (SAP)

Students will be provided with a solid theoretical background in wild and domestic animal production, management and conservation in tropical and developing regions. Obtained knowledge will be practically used during several practical trainings and fieldworks. Students will participate in a multidisciplinary project focused on human-wildlife conflict mitigation, applying the principles of sustainable animal breeding and wildlife conservation in practice.

In SAP specialization, you will get the knowledge and practical skills in animal production, highlighting the use of local species and breeds, feeding animals with local crops and processing the dung/litter, respecting ecological, social and behavioural needs of animals. Animal breeding for production respects local cultural heritage and traditions, providing high quality animal protein for balanced human diet through thoroughly processed and safely stored products.

Examples of Master's theses:
- Response of cattle grazing on pasture on olfactory stimuli
- Reproductive behaviour of eland (*Taurotragus oryx*)
- Influence of key amino acids on the antler growth of *Dama dama*
- Evaluation of reproductive performance in camels
- Greater cane rat (*Thryonomys swinderianus*) market survey in Ghana

Indicative study plans

Obligatory courses

- Resource Ecology
- Processing and Interpretation of Biological Data
- Human-Wildlife Conflict – Production Perspective
- Animal Behaviour
- Molecular Ecology
- Practical Training – Animal Production
- General Epizootiology and Prevention of Animal Diseases
- Animal Nutrition and Feeding
- Reproductive Biology and Endocrinology
- Global Food Security
- Human Nutrition and Prevention of Food-borne Diseases

Courses are supplemented by obligatory Scientific Seminars and preparation of Master's theses.

The **Practical Training** is designed in order to allow the students to gain a practical work experience and it is located off-campus in either governmental or non-governmental sector whose scope covers research, development and/or pedagogical activities with special regard to tropical regions, developing countries and/or agricultural education worldwide.

Required optional courses – group A

- Breeding of Indigenous Animal Species
- Game Ranching
- Deer Biology and Production
- Tropical Bovids Husbandry Guidelines
- Aquaculture
- Animal Feed Additives
- Husbandry of Pigs, Poultry and Rabbits
- Husbandry of Camelids, Equids and Elephants
- Quality, Storage and Processing of Meat Products
- Game Utilization

Students select at least 4 courses from this group.

Required optional courses – group B

- Tropical Phytocoenoses
- Tropical Crop production
- Agroforestry
- Tropical Pastures and Fodder Crops
- Monitoring and Evaluation
- Project Cycle Management
- Cooperatives and Farmer Associations
- Economic Botany
- Marketing of Tropical Products
- Summer Sports
- GIS II.
- Personal Security and Risk Management
- Management of Sub-(Tropical) Land-Use Systems
- Applied Research Methods in Agriculture
- Economics of Farming Systems
- Winter Sports
- Fair Trade and Ethical Business in International Trade
- Practical Animal Handling, Sampling and Processing
- Organic Waste Management

Students select at least 2 courses from this group.

Optional courses

Students select other courses which are taught in English from the actual offer of the Czech University of Life Science Prague or courses can be passed at foreign universities as part of Erasmus+ exchange programs.

State exam

State exam consists of Master's thesis defence and examinations from 2 obligatory and 1 optional topics.

Obligatory topics:

- Animal Ecology and Behaviour
- Animal Nutrition and Safe Feeding Practices

Optional topics:

- Traditional Animal Husbandry
- Alternative animal husbandry
- Game management and production

Detailed study plans are available in the University Information System (UIS) – is.czu.cz