

Department of Biology and Ecology

Doc. Ing. Jaroslav Demko, CSc.

- Bioenergy
- Biomass
- Energy services
- Environment
- Ecology
- Water systems
- Waste management

Ing. Dana Blahútová, PhD.

- Environmental literacy
- Monitoring and analysis of selected environmental components in Liptov region.
- Environmental health in the educational process.
- Latest knowledge of applied chemistry in biology.

RNDr. Mária Balážová, PhD.

- Invasive organisms, their biological characteristics, life history traits, distribution and expansion, predictable and possible effects on native communities.

Prof. Ing. Eduard Bublinec, CSc

- Soil science, properties of soils, contaminations, clasification.
- Acid precipitation, composition, influence into soils.
- Ecology, autecology, synecology, geobiochemical cycles in natural ecosystems.

RNDr. Michal Baláž, PhD.

- Breeding ecology of passerine birds under changing environmental conditions.
- The influence of the habitat structure on the composition of the breeding bird communities in the montane forests.
- The influence of the changing temperature on the structure of the wintering water birds assemblages.
- The structure of the small ground mammals communities in wetland habitats.

MVDr. Gabriela Hrkľová, PhD

- The monitoring macrobiotic and microbiotic factors, which involves changing distribution of vectors – the *Ixodes ricinus* tick in in localities of Liptovská valey and Great Fatra Mountains.
- The presence of bacterial pathogens (*Borrelia burgdorferi sensu lato*, *A. phagocytophilum*, *A. ovis*) and viral pathogens (tick-borne encephalitis) diagnosed by molecular methods.

- The implementation of the knowledges of the biological life of the *Ixodes ricinus* ticks and their pathogen in to pedagogical process, creation of didactic materials from the field of parasitology as part of environmental health.

Doc. Ing. Miroslav Saniga, CSc.

- Avian ecology and ethology.
- Biodiversity and nature conservation.
- Relationship between birds and plants in forest communities.
- Relationship between birds and changing ecosystems.
- Ecology and ethology of the Capercaillie (*Tetrao urogallus*) and Wallcreeper (*Tichodroma muraria*)

Ing. Jozef Macko, PhD

- Environmental literacy
- Meaning and function of dead wood in forest ecosystems
- Forest ecology
- Epigeic fauna