VTE110 Biostatistics, Principles of Research and Publication Ethics

Faculty of Veterinary Medicine– Compulsory course

Credit: 3   ECTS: 3

Course Description: This course aims to equip students with the essential statistical skills required for conducting meaningful research in sustainability. The theoretical content encompasses a comprehensive introduction to statistical methods, data analysis techniques, and ethical considerations in the study. The practical application content focuses on applying statistical tools to analyse and present experimental data, ensuring students gain a solid foundation in research design and execution.

Course Outcomes:

- Apply a range of statistical methods to analyze and interpret experimental data in sustainability research.
- Design robust experiments with ethical considerations to address sustainability research questions.
- Adhere to research ethics, including protecting human subjects and ethical considerations in animal research for sustainability studies.
- Proficiently present data using measures of central tendency, data variation, and distribution analysis in the context of sustainability.
- Apply Pearson's r correlation, linear, and curve linear regressions to explore relationships in sustainability research.
- Master principles and strategies of experimental design to ensure validity and reliability in sustainability research.
- Develop effective communication skills in academic writing and publicizing research for diverse audiences in the field of sustainability.