

SLUkurs

Syllabus

**PAS0002 Principles of Analytical Methods in Nutrition and Biology,
7.5 credits**

Syllabus approved

2002-05-30

Subjects

Animal Husbandry

Education cycle

Third cycle

Grading scale

Pass / Failed

The requirements for attaining different grades are described in the course assessment criteria which are contained in a supplement to the course syllabus. Current information on assessment criteria shall be made available at the start of the course.

Language

English

Prior knowledge

Undergraduate course(s) in Chemistry, Biochemistry, Animal Nutrition or Biology.

Objective, including learning outcomes

To give an overview of the principles for analytical methods commonly used in nutrition, biochemistry and cell metabolism. The participant shall afterwards be

able to evaluate and choose the most appropriate method and laboratory for a certain analysis.

- Be aware of sampling errors and method variations in evaluation of analytical results.
- Know how to describe a method at publication in order to give the reader a good chance to evaluate the analytical results.

Content

Practical training will be given in some methods chosen in consultation with the participants. Method validation, approved methods, certified reference material, internal quality control procedures, proficiency testing and causes of variability in analytical results will be thoroughly treated. Statistical methods will be used and discussed for the evaluation of variation in methods, laboratories and their results. The importance of sampling, sample treatment and analytical order will be discussed in order to avoid systematic errors.

Requirements for examination

Participation in seminars, laboratory work and examination seminar. Fulfilment of study questions.

Additional information

The course is given together with the Dept. of Food Science.

Responsible department

Department of Animal Nutrition and Management