Title of the subject	**:**	**Growth modeling**
Subject leader	**:**	Veronika Halas, PhD, assistant professor
Prerequisite	**:**	none
Credit	**:**	2
Short description of the subject	**:**	Modeling of animal performance is a rapidly developed, new field of animal nutrition that aims to predict the production and growth of livestock and body composition at slaughter based on the nutrient intake. Several feeding company in the US and in Europe use growth models, and these are also integrated to the farm management programs. The purpose of the course of Growth modeling is to introduce the history and the types (empirical, mechanistic, dynamic models) and the principle of nutritional growth models. At the end of the course the students are able to develop some simple models.
Compulsory reading	**:**	Mougham, P.J. , Verstegen, M.W.A. and Visser-Reyneveld, M.I. (Eds) 1995 Modeling growth in the pig. Wageningen Pers, Wageningen, NL Digital handouts issued by the department.
Further reading	**:**	Kyriazakis, I. (Ed) 1999 A quantitative biology of the pig. CABI Publishing, University Press, Cambridge, UK McNamara, P.J., France, J., Beever, D. (Eds) 2000 Modelling nutrient utilization in farm animals. CABI Publishing, Oxford University Press