

PhD course:

MODELLING CLIMATE EFFECTS IN THE SOIL-CROP SYSTEM - 28 AUGUST - 3 SEPTEMBER 2017

DEPT. OF AGROECOLOGY, AU-FOULUM, Blichers Allé 20, DK-8830 Tjele

Volume: 5 ECTS

Target group: PhD students within agronomy, environmental engineering or biology

Course fee: 500 Euro (includes course materials and meals)

Course description:

Modeling the effects of climate change on crop photosynthesis, growth and development is vital for evaluating the future yields of crops, the risk of weeds and diseases in different cropping systems, and the future environmental threats.

This course aims at giving the Ph.D. student a thorough background in the development, evaluation and use of models of crops and cropping systems in the context of climate change. The course will include a combination of lectures, hands-on model development, and hands-on evaluation and use of existing models. Lectures and exercises will cover all steps in the modeling process: qualitative and quantitative model formulation, parameter estimation, and model validation and analysis. Parts of the modeling process will be exemplified using a simple simulation tool (PowerSim) and parts by using the simulation model DAISY. The practical and theoretical exercises will be conducted in groups. Each practical exercise will result in a short exercise report from each student. These reports will make up the students personal course portfolio.

Pre-registration is open via this link: <https://auws.au.dk/Modelling2017>

Read more on the course homepage:

<http://agro.au.dk/phd-uddannelse/phd-courses/modelling-climate-effects-in-the-soil-crop-system/>

