Yield sensors for Precision Agriculture

5 ECTS credits

Curricula description

The main aim of this course is to provide the students information about possibilities of yield measurement for the purposes of Precision Agriculture. Yield sensors for different cultivated crops are discussed. The problematics related with yield sensors precision, use and calibration is studied. Example of research and development of capacitive yield sensor is provided in order to bring yield measurement close to students.

Course syllabus

1. Yield sensors – basic overview

2. Yield sensors for grain – principles and function

3. Yield sensors for grain – calibration, errors

4. Yield sensors for forages

5. Yield sensors for potatoes and sugar beet

6. Capacitive yield sensors

7. Example of yield sensor research and development

8. Problems associated with yield sensors using

9. Other possibilities how to estimate the yield