

HAS Training and Consultancy

Postbus 90108
5200 MA 's-Hertogenbosch
The Netherlands
T: + 31 88 - 890 36 37
haskennistransfer@has.nl
www.haskennistransfer.nl

HAS University of applied sciences, location Den Bosch

Onderwijsboulevard 221
5223 DE 's-Hertogenbosch
The Netherlands

HAS University of applied sciences, location Venlo

Spoorstraat 62
5911 KJ Venlo
The Netherlands



Course Smart Farming in the Dairy Sector

Online course

Smart Farming in the Dairy Sector



Scope

Smart farming is an important topic in the dairy sector. The use of sensors is becoming more and more common practice. Many sensors that measure and monitor physical or behavioral characteristics of the animal or characteristics of the products (e.g. milk) or of the environment of the animal are on the market or are being developed. Sensors are used to maximize animal and herd performance, to monitor health of individual animals and, on herd level, to timely detect problems and to help the farmer in making decisions. Sensors can monitor the animals 24/7, and this enables them to detect deviation in physical or behavioral characteristics with more accuracy than a person.

About this course

Examples of smart farming technologies

include milk yield recording systems, inline systems to measure milk components and characteristics, activity meters to monitor behavior and/or for heat detection, automated measuring systems for body condition scores and positioning systems. The insights obtained with these sensors help the farmer to make the right decisions and take action. With these technologies, the role of the farmer changes from using only his own observations to monitor the animals to combining data and using all that information to make the right decisions. By means of proper processing of these data in combination with decision support systems, the application of these sensors can improve animal monitoring and on-farm decision-making, thus improving cow performance, animal health and welfare and sustainability.

Research group Precision Livestock Farming of HAS University of Applied Sciences brings together considerable experience in applied research, education and practical business skills. In order to share this knowledge and experience with international professionals in livestock dairy farming and related industries with special interest in smart farming, we now offer an online course in Smart Farming in the Dairy Sector.

For who?

The course, Smart Farming in the Dairy Sector, is designed for anyone involved in dairy farming in the Netherlands or abroad, who wants to learn more about which sensors are on the market and how they are used. Prospective participants include international dairy farmers, veterinarians, farming consultants and suppliers, as well as students from other universities.

What you can expect

- Introduction
- Activity as a measure of health
- Activity as a measure of reproduction
- Livestock positioning
- Nutritional status
- Parameters measured in milk
- Temperature
- Weight
- Wrap up

The online (e-learning) course consists of 9 modules. Each module uses different teaching methods such as short lectures, articles and

videos. The course also includes assignments, and at fixed points during the course there is a virtual connection with the lecturers'

The course content is based mainly on practical applications of sensor technologies. More complex theoretical content is only added when absolutely necessary. Several smart technologies in dairy farming are covered, including activity meters, external and internal temperature sensors, automatic weight measurement tools and minilab systems to measure milk parameters.

Requirements

The course materials are at bachelor level

Price and data

For actual prices and start data, look at our website www.has.nl/en

Location

Online course

Certification

After the successful completion of all 9 modules, you will receive a certificate of participation from HAS University of Applied Sciences.

EXPECTED STUDYLOAD: 2 hours per module
DURATION: 9 modules
CONTACT PERSON: Kim de Bont
kdbont@has.nl / +31 88 890 3881