Module Name	Module Code		
Precision Livestock Farming	AEF-agr810e		
Module Coordinator			
Prof. Dr. Eberhard Hartung			
Organizer	·		
Faculty of Agricultural and Nutritional Sciences - Institute of Agricultural Engineering			
Faculty			
Faculty of Agricultural and Nutritional Sciences			
Examination Office			
Faculty of Agricultural and Nutritional Sciences - Examination Office			

ECTS Credits	6
Evaluation	Graded
Duration	one semester
Frequency	Only takes place during winter semesters
Workload per ECTS Credit	30 hours
Total Workload	180 hours
Contact Time	60 hours
Independent Study	120 hours
Teaching Language	English

Module Courses				
Course Type	Course Name	Compul- sory/Optional	sws	
Seminar	Precision Livestock Farming	Compulsory	2,7	
Lecture	Precision Livestock Farming	Compulsory	1,3	

Examination(s)				
Examination Name	Type of Examination	Evaluation	Compulsory / Optional	Weighting
Oral Examination: Precision Livestock Far- ming	Oral Examination	Graded	Compulsory	70
Seminar Paper with Assignment: Precision Livestock Farming	Seminar Course- work	Graded	Compulsory	30
Further Information on the Examination(5)	•		
 1.+2. period in winter semester 1. period in summer semester examiner: Oral examination: Prof. Dr. Hartur Paper and Presentation: Dr. Haeussermann QIS: 61902 mit PL 61910+91920 	•	ın		

Tools and methods to monitor, analyse, control, and manage processes in animal production, such as RFID, image analysis, infrared spectroscopy, modelling and data exchange formats. Application areas, such as animal identification, sensor networks, monitoring and control of, e.g., animal health and behaviour, production processes, product quality, indoor climate and emissions of husbandry systems.

Learning Outcome

Students learn about functional principles and applications of sensor-based monitoring and control systems in animal production. They achieve skills to better understand application, use, value and validity of sensors and data, find solutions to monitor and control production process, animal health and product quality, and prepare and present results published in peer-reviewed articles.

Reading List

Copies of files presented, scientific journal papers, conference papers, and textbooks. Relevant articles will be distributed during lectures.

Textbooks:

Precision Livestock Farming, C. Cox, 2003, eISBN: 978-90-8686-515-4 | ISBN: 978-90-76998-22-0, https:// doi.org/10.3920/978-90-8686-515-4

Precision livestock farming applications, Ilan Halachmi, 2015, eISBN: 978-90-8686-815-5 | ISBN: 978-90-8686-268-9, https://doi.org/10.3920/978-90-8686-815-5

Precision Livestock Farming Applications: Making Sense of Sensors to Support Farm Management, Ilan Halachmi, 2015, ISBN-10: 9086862683, ISBN-13: 978-9086862689

A Systematic Review of Precision Livestock Farming in the Poultry Sector: Is Technology Focussed on Improving Bird Welfare? Elizabeth Rowe 1, Marian Stamp Dawkins and Sabine G. Gebhardt-Henrich, 2019, Animals 2019, 9(9), 614; https://doi.org/10.3390/ani9090614

Additional Information

Maximum number of participants: 24 - Up to 10 places will be allocated preferably to students in the Dairy Science master's program

Enrollment by OLAT within workdays Monday through Friday in the 1st week of the 2. audit period of the preceding semester. The following information has to be provided for enrollment:

matriculation number

last name first name

striven degree

study program

stu-Émail

The allocation of the places takes place in the 2nd week of the 2. audit period of the preceding semester. Notification will be sent to the stu-email address.

Acceptance of the place by students only through participation at the first day of the course. Students without a place can get a place at the first day of the course by move-up procedure.

tural Economics, (Version 2017) Optional Master, 1-Subject, Agricultural Sciences, Specialisation Agricultural Optional Economics, (Version 2013) Optional Master, 1-Subject, Agricultural Sciences, Special, Agricultural Optional Economics and Agribusiness # Specific Field of Study: Agricultural Optional Master, 1-Subject, Agricultural Sciences, Specialisation Agribusiness, (Version 2008) Optional Master, 1-Subject, Agricultural Sciences, Specialisation Agribusiness, (Version 2017) Optional Master, 1-Subject, Agricultural Sciences, Specialisation Crop Optional Sciences, (Version 2017) Optional Master, 1-Subject, Agricultural Sciences, Specialisation Crop Optional Sciences, (Version 2017) Optional Master, 1-Subject, Agricultural Sciences, Specialisation Crop Optional Sciences, (Version 2013) Optional Master, 1-Subject, Agricultural Sciences, Specialisation Animal Optional Sciences, (Version 2013) Optional Master, 1-Subject, Agricultural Sciences, Specialisation Animal Optional Sciences, (Version 2017) Optional Master, 1-Subject, Agricultural Sciences, Specialisation Environ- Optional Master, 1-Subject, Agricultural Sci	Use	Compulsory / Optional	Semester
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