



Summer School

Intelligent Agriculture

With the growing global population and rapid urbanisation, traditional agriculture faces challenges such as resource shortages, environmental pollution, and climate change. Intelligent agriculture, leveraging modern technologies like the Internet of Things, big data, and artificial intelligence, offers an innovative solution to enhance productivity, ensure food security, and promote sustainability. As a result, there is an urgent need to cultivate talent skilled in intelligent agriculture.

Target group

This course is designed for a dynamic audience, including Bachelor and Master students in agriculture, environmental science, data science, and engineering who are interested in technology driven transforms in farming systems. We also welcome early-career researchers and professionals looking to explore the latest innovations in intelligent agriculture and connect with industry experts. Join us for an exciting journey where technology meets agriculture, and let's cultivate a sustainable future together!

Date July 14 - July 24, 2025

Location Wageningen Campus

Course leader Dr. Zhen Liu

Outline and topics

During the two weeks of this Summer School the following subjects will be addressed:

- Technology: Sensing, Control and Robotics
- Intelligent Agriculture Application:
 - Greenhouse Horticulture
 - Livestock and Aquaculture
 - Food



Results

By the end of the course, you will be equipped with the knowledge and skills to implement intelligent agricultural practices and contribute to the evolving landscape of the agricultural sector.

- Gain a solid foundation in the principles of intelligent agriculture technologies and their practical applications in modern farming.
- Get to know-how and (potentially) utilise data-driven tools such as artificial intelligence (AI), the Internet of Things (IoT), and machine learning in real agricultural settings.
- Explore sustainable methods to enhance crop yields, optimize resource utilization, and adapt to climate challenges, ensuring a resilient agricultural future.
- Collaborate with peers on a capstone project, tackling a real-world agricultural challenge by applying intelligent agriculture practices and innovative solutions.

Programme

The course will span two weeks, from offering participants a thorough understanding of intelligent agriculture concepts, technologies, and methodologies. Throughout this program, participants will engage in a variety of activities designed to enhance their learning experience:

- Lectures: Attend expert presentations covering the theory and practical applications of intelligent agriculture.
- Workshops: Participate in hands-on sessions focused on data analysis, Internet of Things (IoT), robotics, and artificial intelligence (AI) tools.
- Field Visits: Explore smart farms and research centers to witness the latest agricultural technologies in action.
- Group Project: Collaborate with peers to develop innovative solutions for real-world agricultural challenges, culminating in a final presentation to industry experts.

This program is designed to equip participants with the critical skills and knowledge necessary to thrive in the evolving field of intelligent agriculture.

Practical information



€ 1,950.00 per person
(€ 1,750.00 early bird) and covers tuition, course materials, lunches, refreshments, a welcome dinner, and a farewell dinner.



Between 20 and 40 participants



Based on your attendance you will receive a certificate after the programme is finished.

Registration

Enrollment is possible until 7 July 2025, or if the maximum number of participants is reached. Register via wur.eu/academy.

[Register](#)

Wageningen Academy

We develop and organise courses for professionals, based on Wageningen University & Research expertise.

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