



SUMMER COURSE IN AGRI-FOOD SECTOR

Artificial Intelligence Applications for Advancing the Agri-Food Industry

OVERVIEW

Climate change poses significant challenges to the agri-food industry, especially in tropical regions. To ensure sustainability, integrating adaptive technologies like **artificial intelligence (AI)** is crucial. AI enhances productivity, optimizes food processing and strengthens supply chains while minimizing environmental impact.

The 7th Summer Course explores AI-driven solutions across the agri-food sector, from precision farming to smart food systems, equipping participants with the tools to drive sustainability and innovation in response to climate change.

LEARNING OUTCOME

1. Understand **the concept of AI and its implementation** in the process of food and agricultural production, food processing and agricultural products including food analysis and agricultural product supply chains;
2. Understand **the potential use of AI** in the agri-food industry including productivity, processing, and supply chains of food ingredients and products;
3. Understand the importance of increasing the efficiency of agricultural production and management of the agricultural & food industry through **the latest technological innovations** in order to support the fulfillment of sustainable food security;
4. Formulate **future challenges** to further explore the potential for AI development in the sustainable agri-food industry sector;
5. Understand the concept of AI development and its implementation in the food production process with a **sustainable agri-food system approach**;
6. Have the ability to learn and collaborate in a **cross-disciplinary and cross-cultural** environment.

Open for all Bachelor, Master, Doctoral, Post-doctoral students, researchers and faculty members



OPEN REGISTRATION

April 10 – May 23, 2025

<https://admission.ugm.ac.id/registration>

On-site participants

International*
USD 175

Indonesian
IDR 1,000,000

UGM students
IDR 600,000

Online participants

International
USD 30

Indonesian
IDR 250,000

**on-site international participants must apply for a VKSB visa USD 120 (IDR 2,000,000 based on the current currency)*

KEYDATES

July 21 – August 2, 2025

JULY 21 – 27, 2025

Pre-course (Fully Online)

Zoom Meetings and eLOK (UGM's Learning Management System)

JULY 28 – AUGUST 2, 2025

Course (On-site and online)

Faculty of Agricultural Technology, Universitas Gadjah Mada, Yogyakarta, Indonesia

BENEFITS

- Transferable credits for 3 SKS / 4.5 ECTS
- Free field trip
- Exposure of international learning and collaboration
- Accommodation for international students

JOIN US NOW to get early registration benefits!

- **Free accommodation** for onsite international participants
- **Free participation fee** for the **first 10** international participants (both online and onsite)
- Full **visa reimbursement** for the **first 5** international participants

CURRICULUM HIGHLIGHTS

The curriculum of this Summer Course has been carefully planned for the participants to obtain deep comprehension towards current AI applications in the agri-food industry. The AI discussed include its application in smart farming, yield production, maintaining food safety, post-harvest handling and food processing among others.

By the end of this Summer Course, participants will understand AI applications in the agri-food industry, including in optimizing productivity, food processing, and supply chains. They will be able to analyze industry challenges, explore AI-driven solutions for precision farming and smart food systems, and develop data-driven strategies to enhance sustainability and food security.



PREVIOUS SUMMER COURSE ACTIVITIES

CONTACT INFORMATION



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THIS SUMMER COURSE SUPPORTS THE FOLLOWING SDG

