



**SUMMER COURSE  
ON SUSTAINABLE TROPICAL AGRICULTURE  
“Delicious Tale from Bean to Bar”  
15 July—23 August 2024  
Faculty of Agriculture, Universitas Gadjah Mada, Yogyakarta, Indonesia**



**CALL FOR PARTICIPATION**

**Course Description**

Embark on a transformative journey into the heart of sustainable tropical agriculture with our immersive Summer Course, enriched by captivating field trips to an Agricultural Farm, Cocoa Plantation, and Chocolate Factory. These excursions offer participants hands-on experience, bridging theoretical knowledge with practical insights into the entire value chain of tropical agriculture.

Throughout the course, participants will explore a diverse array of topics essential for thriving in tropical agricultural landscapes. From Sustainable Tropical Agriculture to Climate-Resilient Farming in the Tropics, Integrated Smallholder Plantations to Innovative Agricultural Technology, and Socio-economic and Cultural Dimensions, each module provides a comprehensive understanding of the multifaceted challenges and opportunities inherent in tropical agriculture.

Complementing classroom sessions, the field trips will immerse participants in the daily operations of agricultural farms and cocoa plantations, where they will engage with farmers and observe sustainable farming techniques firsthand. Guided by expert facilitators, participants will learn about agroforestry systems, soil conservation practices, and biodiversity conservation efforts tailored to tropical environments.

The highlight of the field trips will be the visit to a local chocolate factory, where participants will trace the journey of cocoa from plantation to finished product. Through interactive tours and demonstrations, participants will gain insights into post-harvest processing techniques, quality control measures, and value addition in the chocolate industry.

These immersive experiences will not only deepen participants' understanding of sustainable tropical agriculture but also foster meaningful connections with local communities and ecosystems. By bridging theory with real-world application, the field trips enhance participants' ability to critically analyze agricultural practices and inspire innovative solutions to address pressing environmental and social challenges.

Join **Summer Course on Sustainable Tropical Agriculture 2024: Delicious Tale from Bean to Bar** for an enriching educational experience that combines theoretical knowledge with immersive field trips, equipping participants with the skills and perspectives necessary to promote sustainability and resilience in tropical agriculture. Embark on a journey of discovery, exploration, and transformation as we explore the vibrant landscapes of sustainable tropical agriculture and the fascinating world of cocoa production together.



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**Learning Outcomes**

At the end of the course, student participants should be able to:

1. Develop a deep understanding of sustainable tropical agriculture principles and practices, aligning with United Nations Sustainable Development Goal (SDG) 2: Zero Hunger, through the application of agroecology, biodiversity conservation, and soil management tailored to tropical environments.
2. Apply innovative climate-resilient strategies such as crop diversification and water management to enhance agricultural adaptability and resilience in tropical settings, contributing to SDG 13: Climate Action.
3. Implement integrated smallholder plantation systems to optimize yields, enhance ecosystem resilience, and improve livelihoods for small-scale farmers in tropical regions, in support of SDG 1: No Poverty and SDG 15: Life on Land.
4. Explore and utilize emerging agricultural technologies like precision farming and sustainable mechanization to enhance productivity and sustainability in tropical agriculture, contributing to SDG 9: Industry, Innovation, and Infrastructure.
5. Understand the socio-economic and cultural dimensions of tropical agriculture, including gender dynamics and community engagement, to promote inclusive and equitable agricultural development, aligning with SDG 5: Gender Equality and SDG 10: Reduced Inequalities.

**Course Credit and Activities**

This course is equivalent to 3 credits, with fully online activities that include:

Sections	Activities	Date	Venue
Pre-course	<ul style="list-style-type: none"> <li>● Independent study (16 hours)</li> <li>● Poster assignment (12 hours)</li> </ul>	15 – 28 July 2024	Asynchronous in Learning Management System (LMS): 1x intro meeting, no lecture meetings, materials from lecturers and invited speakers available on the LMS
Course	<ul style="list-style-type: none"> <li>● Class meetings and discussion (30 hours, 5 days)</li> <li>● Quiz assignment (6 hours)</li> <li>● Offline Activities               <ul style="list-style-type: none"> <li>- Field Trip (55 hours, 5 days)</li> <li>- Presentation preparation (15 hours)</li> </ul> </li> </ul>	Online Course: 29 July – 2 August 2024  Field Trip: 19–23 August 2024	<ul style="list-style-type: none"> <li>– Synchronous in Zoom (for class meetings) and Field Trip (for offline participant)</li> <li>– Asynchronous in LMS (for assignments)</li> <li>– Other media (for independent research and group project)</li> </ul>



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Sections	Activities	Date	Venue
	<ul style="list-style-type: none"> <li>Independent research and group project (70 hours, online participants)</li> <li>Final presentation (2 hours)</li> </ul>	Final Presentation: 23 August 2024	

The credit hours are transferable. We will provide a credit transfer statement for students who complete all sections and evaluation of student performance. The credit transfer statement includes grade marks on individual student performance.

Sections	Activity	Day	Hours	Online only	Hybrid	Venue
Pre-course	Independent study	8	2	16	16	Asynchronous in Learning Management System (LMS): 1x intro meeting, no lecture meetings, materials from lecturers and invited speakers available on the LMS
	Poster assignment	4	3	12	12	Poster in LMS
Course	Class meetings and discussion	5	6	30	30	Synchronous in Zoom (for class meetings)
	Quiz assignment	3	2	6	6	Asynchronous in LMS (for assignments)
	Field Trip	5	11		55	Field trip
	Preparation presentation	5	3		15	Other media
	Independent research and group project	10	7	70		Other media
	Final Presentation	1	2	2	2	Offline class and Synchronous via Zoom (hybrid)
<b>Total Hours</b>				136 (4,54 ECTS*)	136 (4,54 ECTS*)	



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\*ECTS: European Credit Transfer and Accumulation System

**Learning Approach**

The Summer Course on Sustainable Tropical Agriculture 2024 uses a case-based learning approach. Course materials to cover in the summer course are:

1. Sustainable Tropical Agriculture
2. Climate-Resilient Farming in the Tropics
3. Integrated Smallholder Plantations
4. Innovative and Emerging Agricultural Technology and Management
5. Socio-Economic and Cultural Dimensions in Tropical Agriculture

The course program will be divided into two formats: online only, and hybrid (Figure 1). Learning resources are a combination of lecturers, independent research and group project (online only program), field trip (onsite-hybrid program), assignments, and presentation.

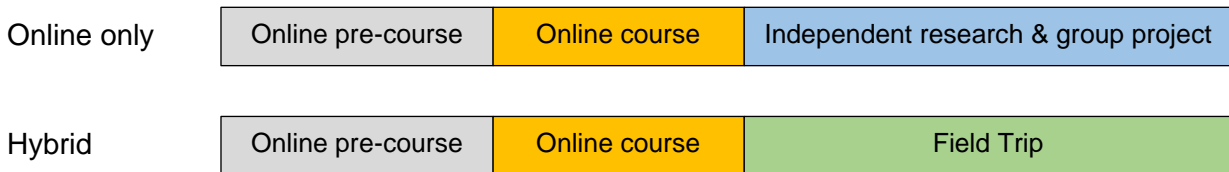


Figure 1. Summer Course 2024 course format.

**Evaluation of Student Performance**

No.	Criteria	Type	Percentage (%)
1	Poster assignment	Individual assignment	10
2	Attendance and active participation (lectures and group work)	Individual	30
3	Quizzes	Individual	15
4	Video presentation	Group assignment (in groups)	35
5	Course evaluation	Individual	10

**Course Schedule** *(subject to adjustment)*

**a) Pre-Course Section**

Date	Activities	Venue
15 July 2024	<ul style="list-style-type: none"> <li>● Online introduction of students and instructors</li> <li>● Course description</li> </ul>	Zoom



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Date	Activities	Venue
	<ul style="list-style-type: none"><li>• Q&amp;A</li></ul>	
15—28 July 2024	<ul style="list-style-type: none"><li>- Course materials and learning videos are available to watch by the students on the LMS.</li><li>- <b>Assignment 1</b>: Individual assignment, the student is to create a poster that describes a case study related to the issues of sustainable tropical agriculture, whether from the perspective of (may choose one or more) agronomy, soil/water science, microbiology, plant protection, socio-economy, and best practices on sustainable tropical agriculture. The poster may be digitally made or hand-drawn/written.</li></ul>	LMS
26 July 2024	<b>Deadline for poster submission</b>	LMS

**b) Online Course Meeting**

Date	Activities	Resource persons
Monday, 29 July 2024  Time: 09:00 AM GMT+7	<ul style="list-style-type: none"><li>- Formal opening ceremony</li><li>- Class meeting 1: Climate-Resilient Farming in the Tropics</li></ul>	<ul style="list-style-type: none"><li>• Instructors &amp; Teaching Assistants (TAs)</li><li>• Experts</li></ul>
Tuesday, 30 July 2024  Time: 09:00 AM GMT+7	<ul style="list-style-type: none"><li>- Class meeting 2: Climate-Resilient Farming in the Tropics</li><li>- <b>Assignment</b>: Individual Quiz 1</li></ul>	<ul style="list-style-type: none"><li>• Instructors &amp; TAs</li><li>• Experts</li></ul>
Wednesday, 31 July 2024  Time: 09:00 AM GMT+7	<ul style="list-style-type: none"><li>- Class meeting 3: Integrated Smallholder Plantations</li></ul>	<ul style="list-style-type: none"><li>• Instructors &amp; TAs</li><li>• Experts</li></ul>
Thursday, 1 August 2024  Time: 09:00 AM GMT+7	<ul style="list-style-type: none"><li>- Class meeting 4: Innovative and Emerging Agricultural Technology and Management</li><li>- <b>Assignment</b>: Individual Quiz 2</li></ul>	<ul style="list-style-type: none"><li>• Instructors &amp; TAs</li><li>• Experts</li></ul>



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<b>Date</b>	<b>Activities</b>	<b>Resource persons</b>
Friday, 2 August 2024  Time: 09:00 AM GMT+7	- Class meeting 5: Socio-Economic and Cultural Dimensions in Tropical Agriculture  - Announcement of the student's working groups for Final Presentation (students may start to get to know each other of their group mates)	<ul style="list-style-type: none"><li>• Instructors &amp; TAs</li><li>• Experts</li></ul>

**c) Field Trip (Onsite Program)**

<b>Date</b>	<b>Activities</b>	<b>Venue</b>
Monday, 19 August 2024	Explore Tropical Environment	Gunung Kidul, Yogyakarta
Tuesday, 20 August 2024	Visit Field Research Center	Kulon Progo, Yogyakarta
Wednesday, 21 August 2024	Departure and Introduction to Plantation at PT Pagilaran	Pagilaran, Central Java
Thursday, 22 August 2024	Visit Tea Plantation, Cacao Plantation and Fermentation, Cacao Factory Back to Yogyakarta	Pagilaran, Central Java
Friday, 23 August 2024	Final Presentation	Faculty of Agriculture UGM

**d) Final Presentation**

<b>Date</b>	<b>Activities</b>	<b>Venue</b>
Friday, 23 August 2024	Final Presentation	Hybrid (Zoom and Faculty of Agriculture UGM)



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### **Targeted Participants**

Participants may include 3<sup>rd</sup> or 4<sup>th</sup> year undergraduate, master, doctorate students, and academic researcher, both international and domestic students from Indonesia.

### **Application Form**

- Registration: 5 February 2024 until 10 June 2024
- Link to register (including guidelines on how to apply):  
<https://admission.ugm.ac.id/application/how-to-apply/>
- Select the following program on the UGM's admission system:

**Summer Course on Sustainable Tropical Agriculture 2024**  
Website : <https://www.instagram.com/summercoursefapertaugm/>  
Registration Period : Monday, 5 February 2024 - Monday, 10 June 2024  
Faculty : Agriculture  
Length of Study : 1 Month 22 Day (Monday, 1 July 2024 - Friday, 23 August 2024 )  
Contact Person : Nur Akbar Arofathullah, Ph.D.  
Email : [summercourse.faperta@ugm.ac.id](mailto:summercourse.faperta@ugm.ac.id)  
Phone : +6281229204225

Several notes:

1. For the hybrid program, the Committee will provide hotel accommodation, meals, and local transportation during the field trip from 18 August until 24 August 2024.
2. International applicants who have no passport may register with her/his country's identification. The identification should clearly state her/his nationality.
3. When applicants are asked to upload documents, the required documents include:
  - a) Photo/scan of the identification page on Passport (or own country's identification if Passport is not applicable).
  - b) Curriculum Vitae (please use the following template:  
<http://ugm.id/CVTemplateSCFaperta>).
  - c) Official passport size photo.
  - d) Transcript as proof of academic records (this must be the most recent but doesn't have to be official. The PDF print of transcript from the applicant's home university system is accepted).

### **More information**

Website : [summercourse.faperta.ugm.ac.id](https://summercourse.faperta.ugm.ac.id)  
Email : [summercourse.faperta@ugm.ac.id](mailto:summercourse.faperta@ugm.ac.id)  
Link to register : <https://admission.ugm.ac.id/application/how-to-apply/>