

# FAT-UNIVERSITAS BRAWIJAYA

## INTERNATIONAL AND NATIONAL SUMMER COURSES

### Resilient and sustainable agricultural technologies: theories and practices

26 August – 8 September 2024

Type	Date	Time	Activities	Instructor
online	Monday, 26 August 2024	Tentative	<p><b>Opening and welcoming remarks</b></p> <p><b>Orientation and Introduction</b></p> <ul style="list-style-type: none"> <li>• Introduction session (students and facilitators)</li> <li>• Faculty of Agricultural Technology (FAT) UB at a glance</li> <li>• Global perspectives</li> </ul> <p><b>Program schedule overview :</b></p> <ul style="list-style-type: none"> <li>• Course outlines</li> <li>• Student activities, assignments and assessments</li> <li>• Students' grouping</li> <li>• Student competitions</li> </ul>	<p>Prof. Yusuf Hendrawan, STP., M.App.Life.Sc., Ph.D</p> <p>Dr. Panji Deoranto, STP, MP</p> <p>Novia Lusiana, STP, M.Si, Ph.D</p>
online	Tuesday, 27 August 2024	Tentative	<p><b>Introduction to Resilient and sustainable Agricultural Technology</b></p> <p>Microbes in food systems:</p>	<p><b>Head of Dept.</b> Tunjung Mahatmanto, STP, M.Si, Ph.D</p>
online	Wednesday, 28 August 2024	Tentative	<p><b>Introduction to Resilient and Sustainable Agricultural Technology</b></p> <p>Agro-industrial Technology</p>	<p><b>Head of Dept.</b> Prof. Sri Suhartini, STP., M.Env.Mgt., Ph.D., PGCert.</p>
online	Thursday, 29 August 2024	Tentative	<p><b>Introduction to Resilient and Sustainable Agricultural Technology</b></p> <p>Biosystem Technology: Innovative Biosystems engineering for sustainable agricultural technology</p>	<p><b>Head of Dept.</b> Dr. Eng. Akhmad Adi Sulianto, S.TP., MT., M.Eng.</p>
online	Friday, 30 August 2024	Tentative	<p><b>Study tour on Agricultural Technology Practices : an Overview</b></p> <ul style="list-style-type: none"> <li>• Introduction to Agricultural Technology Practices in Malang : from Small and</li> </ul>	<p>Dr.nat.techn. Sudarma Dita Wijayanti, S.TP, M.Sc, MP</p>

Type	Date	Time	Activities	Instructor
			<p>Medium Enterprises to Industrial scale</p> <ul style="list-style-type: none"> <li>• Assignments (individual&amp;group)</li> </ul> <p><b>Pre-departure announcements</b></p> <ul style="list-style-type: none"> <li>• Airport transfer</li> <li>• Students' accommodation</li> <li>• Students' buddies</li> <li>• Technical guides</li> </ul>	<p>Beauty Suestining Diyah Dewanti ST, MT, Ph.D.</p> <p>Luhur Akbar Devianto, ST, MT, Ph.D</p>
	Sunday, 1 September 2024		<p><b>Arrival in Juanda International Airport, Surabaya</b></p> <p>Airport transfer will be provided by university</p>	Student buddies
On-site	Monday, 2 September 2024	08.00 – 08.30	<b>Registration</b>	
On-site		08.30– 08.45	<b>Opening and welcoming ceremony (international and national summer course)</b>	Deanery FAT-UB
On-site		08.45– 10.30	<b>Artificial Intelligence for Precision and Sustainable Agricultural Systems</b>	Prof. Yusuf Hendrawan, STP., M.App.Life.Sc., Ph.D
On-site		10.30 – 12.30	<p><b>Digital Agriculture: IoT and Connectivity in Agricultural Systems</b></p> <ul style="list-style-type: none"> <li>• Exploration of Internet of Things (IoT) applications in agriculture.</li> <li>• Collaborative group project assignment.</li> </ul>	Dr.Agr.Sc. Dimas Firmanda Al Riza, ST., M.Sc
On-site		12.30 – 13.00	<b>Lunch Break</b>	
On-site		13.00- 15.00	Emotional Face Mapping through Convolutional Neural Network for Conforming Relaxation Effect of Coffee Leaf Tea	Kiki Fibrianto, S.TP, M.Phil., Ph.D
On-site		15.00- 17.00	<p><b>Communication Skills</b></p> <ul style="list-style-type: none"> <li>• Building a strong classroom community activities</li> <li>• Group activities</li> </ul>	Endrika Widyastuti, S.Pt, MP, M.Sc, Ph.D
On-site	Tuesday, 3 September 2024	08.00- 17.00	<p><b>Visiting Small and Medium Enterprises in Malang</b></p> <ul style="list-style-type: none"> <li>• Tempeh Production in Malang</li> <li>• FPTC FAT UB</li> </ul>	Committee

Type	Date	Time	Activities	Instructor
		18.00-21.00	<b>Malang walking tours (optional)</b> <ul style="list-style-type: none"> <li>• Kajoetangan Heritage</li> <li>• Malang City Tour</li> </ul>	
On-site	Wednesday, 4 September 2024	07.00-17.00	<b>Industrial Visit</b> <ul style="list-style-type: none"> <li>• PT Amerta Indah Otsuka (Pasuruan)</li> <li>• PT Heinz ABC Indonesia (Pasuruan)</li> <li>• PT. Nippon Indosari (Pasuruan)</li> </ul>	Committee
On-site	Thursday, 5 September 2024	00.00 – 14.00	<b>Cultural trip :</b> <ul style="list-style-type: none"> <li>• Bromo Tengger Semeru National Park</li> <li>• Candi Kidal</li> </ul>	Student Buddies Committee
	Friday, 6 September 2024	09.00-16.00	<b>Group Presentations (global perspective)</b>  <b>Farewell ceremony</b>	Committee
	Saturday, 7 September 2024	09.00-16.00	<b>Cultural performances &amp; competition</b>	Student association
	Sunday, 8 September 2024		<b>Departure to Juanda International Airport, Surabaya</b> Airport transfer will be provided by university	Student Buddies
<b>Total Hours : 159 hours</b>				

# FAT-UNIVERSITAS BRAWIJAYA

## INTERNATIONAL AND NATIONAL SUMMER COURSES (ONLINE)

### Resilient and sustainable agricultural technologies: theories and practices

16 September – 31 October 2024

Type	Date	Time	Activities	Instructor
Online	Monday, 16 September 2024	09.00–12.00	Practice in Community Skill	Suprayogi,S.TP, MP, Ph. D
		13.00–17.00	Practice in Community Skill	
Online	Tuesday, 17 September 2024	Tentative	Business in Agroindustry	Dr. Panji Deoranto, STP, MP
Online	Wednesday, 18 September 2024	Tentative	Project management in agroindustry	Wike Agustin Prima Dania, S.TP, M.Eng, Ph.D
Online	Thursday, 19 September 2024	Tentative	Resource recovery for agriculture waste	Wahyunanto Agung Nugroho, STP., M.Eng., Ph.D.
Online	Friday, 20 September 2024	Tentative	Sustainable membranes for integrated agricultural irrigation	Prof. Dr. Ir. Yusuf Wibisono, S.TP., M.Sc, IPM
Online	Monday, 7 October 2024	Tentative	Post-harvest technology for sustainable agriculture	Prof. La Choviya Hawa, STP, MP, Ph.D.
Online	Tuesday, 8 October 2024	Tentative	Sustainable Bioplastics Derived from Agricultural Resources	Prof. Dr. Ir. Mustofa Lutfi, MP
Online	Wednesday, 9 October 2024	Tentative	Sustainable coffee production in Indonesia	Wenny Bkti Sunarharum, STP, M.FoodSt., Ph.D.
Online	Thursday, 10 October 2024	Tentative	Food and agricultural biotechnology development in Indonesia	Mochamad Nurcholis, STP, MP, Ph.D
Online	Friday, 11 October 2024	Tentative	Processing technology for gluten free products	Dr.nat.techn. Elok Waziroh, S.TP, M.Si
Online	Monday, 14 October 2024	Tentative	The Role of Biochar for Resilient Agriculture	Hendrix Yulis Setyawan, S.TP, MSi. PhD

Type	Date	Time	Activities	Instructor
Online	Tuesday, 15 October 2024	Tentative	Biotechnology for Soil Health and Nutrient Management	Fajri Anugroho S.TP, M.Agr.,Ph.D
Online	Wednesday, 16 October 2024	Tentative	Agro-industrial solid waste valorisation: Case studies of sugarcane industries in East Java Indonesia	Nimas Mayang Sabrina Sunyoto, STP, MP, PhD
Online	Monday, 21 October 2024	Tentative	Seminar international participation	Committee
Online	22-24 October 2024	Tentative	Group discussion on each subject	Committee
Online	30-31 October	Tentative	Group Presentation Feedbacks Closing remarks	Committee
<b>Total hours = 101 hours</b>				
<b>Assessments = 190 hours</b>				
<b>TOTAL = 450 hours</b>				