





PROGRAM BOOK

5th International Seminar of Science and Technology (ISST) 2025

"Advancing Science and Technology for a Sustainable and Resilient Future"

Faculty of Science and Technology
Universitas Terbuka
2025



ISST CHAIRMAN REMARKS

The 5th International Seminar of Science and Technology (The 5th ISST): "Advancing Science and Technology for a Sustainable and Resilient Future"

Universitas Terbuka, October 30th, 2025



Bismillahirrahmanirahim Assalamu'alaikum wa rahmatullahi wa barakatuh,

Our Honorable Keynote Speaker:

Prof. Dr. Eng. Yudi Darma, S.Si., M.Si., Director of Science and Technology Dissemination and Utilization Ministry of Higher Education, Science, and Technology, Republic of Indonesia

Our Honorable Plenary Speakers:

- 1. Prof. Dr. Ahmad Sanusi Bin Hassan, Universiti Sains Malaysia, Malaysia
- 2. Prof. Dr. Fatia Fatimah, S.Si., M.Pd., Universitas Terbuka, Indonesia
- 3. Dr. Eng. Sindu Daniarta, Ph.D, Wroclaw University of Science and Technology (WUST), Polandia
- 4. Dr. Risti Permani, University of Queensland, Australia

Our Honorable:

- 1. Rector of Universitas Terbuka, Prof. Dr. Ali Muktiyanto. S.E., M.Si
- 2. All Vice-Rectors, Deans, Director of Post Graduate School, Head of Research and Community Services Institute, and all Heads of Units in Universitas Terbuka
- 3. Fellow Deans of partners Universities
- 4. Representatives from sponsors and collaborators
- 5. Professors and Lecturers
- 6. All participants of ISST 2025

It is my great pleasure to welcome you all to the 5th International Seminar on Science and Technology (ISST 2025), organized by the Faculty of Science and Technology, Universitas Terbuka. This event is co-hosted by Universiti Sains Malaysia (USM), the National Research and Innovation Agency (BRIN), the Statistics Higher Education Forum (FORSTAT), MIPA-net, and the Indonesia Data Scientist Society (AIDI). On behalf of the organizing committee, I extend a warm and heartfelt welcome to all distinguished guests,



keynote and plenary speakers, presenters, and participants who have joined us—both here at the Universitas Terbuka Convention Center and virtually via Zoom and YouTube.

This year marks the fifth time our faculty has proudly hosted ISST, carrying the theme "Advancing Science and Technology for a Sustainable and Resilient Future." This theme reflects our shared commitment to addressing global challenges through scientific innovation and interdisciplinary collaboration. The seminar highlights four key subthemes:

- Climate Resilience and Sustainable Resource Management
- 2. Smart Technologies for Sustainable and Healthy Living
- 3. Circular Economy and Sustainable Innovation
- 4. Water, Energy, and Food Nexus for Resilient Societies

We are honored to host keynote and plenary sessions featuring experts from Indonesia, Malaysia, Poland, and Australia. Their insights will enrich our understanding of how science and technology can drive sustainable transformation.

This afternoon, we will also hold parallel sessions featuring 112 presenters who will share their research findings both on-site and online. These presenters come from various countries, including Indonesia, Malaysia, Pakistan, the Netherlands, and Japan. Selected papers will be published in the IOP Conference Series: Earth and Environmental Science (Scopus-indexed). We also encourage authors to consider submitting their extended works to several journals published by the Faculty of Science and Technology, Universitas Terbuka.

In addition, we proudly present the Research Poster Competition, an international event held as part of ISST 2025. Sharing the same overarching theme, this competition provides a platform for undergraduate and postgraduate students to creatively and effectively communicate their research through scientific posters. It aims to inspire students' enthusiasm for research and broaden the dissemination of their work among academics, researchers, and the public. This year, we are honored to have participants from Indonesia and abroad, including New Zealand, Saudi Arabia, and Slovakia, with 29 posters advancing to the final round.

Allow me to express my deepest gratitude to everyone who made this event possible — our Rector and university leadership, our partner universities, and especially our dedicated organizing committee. My sincere appreciation also goes to our sponsors for their generous support and collaboration: PT Dwimitra Mandiri Sampurno, PT Boson Kalimasada Instrumindo, PT Karya Rayyan Bagaskara, PT Indosat Tbk, CV Kabul, CV Nurannisa, CV Farhana, PT Senada, PT Mustika Citra, Femeta Catering, PT Bank Tabungan Negara, PT Gramedia Printing, PT Bank Rakyat Indonesia, PT Bank Mandiri, PT Bank Syariah Indonesia, PT Pos Indonesia, PT Mora Telematika Indonesia, ION Network, and PT Gaia Science Indonesia.

Thank you for your teamwork and commitment in making ISST 2025 a success.

May this seminar inspire meaningful discussions, new collaborations, and innovative ideas that contribute to a sustainable and resilient future for all.

Thank you,

Wassalamu'alaikum warahmatullahi wabarakatuh.

Tangerang Selatan, October 30th, 2025

Chairman of ISST 2025,



Vita Elysia, S.T., M.Sc., Ph.D.

DEAN OF FACULTY OF SCIENCE AND TECHNOLOGY REMARKS

The 5th International Seminar of Science and Technology (The 5th ISST): "Advancing Science and Technology for a Sustainable and Resilient Future"

Universitas Terbuka, October 30th, 2025



Bismillahirrahmanirrahim

Assalamu'alaikum warahmatullahi wabarakatuh, Om Swastiastu, Namo Buddhaya, Salam Kebajikan

Honorable Keynote Speaker: Prof. Dr. Eng. Yudi Darma, S.Si., M.Si., Director of Science and Technology Dissemination and Utilization, Ministry of Higher Education, Science, and Technology, Republic of Indonesia

Honorable Plenary Speakers:

- 1. Prof. Dr. Ahmad Sanusi Bin Hassan, Universiti Sains Malaysia, Malaysia
- 2. Dr. Risti Permani, University of Queensland, Australia
- 3. Dr. Eng. Sindu Daniarta, Ph.D, Wroclaw University of Science and Technology (WUST), Poland
- 4. Prof. Dr. Fatia Fatimah, S.Si., M.Pd., Universitas Terbuka, Indonesia

Our Honorable:

- 1. Rector of Universitas Terbuka Prof. Dr. Ali Muktiyanto. S.E., M.Si,
- 2. Chairman of the Academic Senate Universitas Terbuka, Prof. Dr. Chanif Nurcholis, M.Si
- 3. Vice-Chairman of the Board of trustees Universitas Terbuka, Dr. Ake Wihadanto, M.Si
- 4. All Vice-Rectors, Deans, Director of Post Graduate School, Head of Institutions, and all Heads of Units in Universitas Terbuka
- 5. Fellow Deans of partners Universities
- 6. All sponspors representatif
- 7. All of my Dearest Colleagues in Universitas Terbuka: Professors and Lecturers
- 8. Presenters and participants of ISST 2025, and to all students of Universitas Terbuka



It is a great pleasure and honor for me, on behalf of the Faculty of Science and Technology, Universitas Terbuka, to warmly welcome all of you to The 5th International Seminar of Science and Technology (ISST 2025).

This year's seminar carries a theme that resonates deeply with our global reality — "Advancing Science and Technology for a Sustainable and Resilient Future." The theme reflects our shared recognition that the challenges facing humanity today — from climate change and resource depletion to rapid technological disruption — require innovative, science-based, and collaborative responses.

Science and technology continue to be powerful catalysts for progress. They shape economies, transform societies, and redefine the boundaries of what is possible. Yet, in our pursuit of advancement, we must ensure that innovation is guided by sustainability and resilience — so that technological growth not only enhances human welfare but also safeguards our planet for generations to come.

This seminar serves as an essential platform for us — academics, researchers, practitioners, and policymakers — to exchange insights, showcase research, and foster interdisciplinary collaboration. The sub-themes of ISST 2025 — ranging from climate resilience and sustainable resource management, smart technologies for healthy living, circular economy and sustainable innovation, to the water–energy–food nexus for resilient societies — reflect the multifaceted nature of sustainability challenges and the diverse expertise needed to address them.

Ladies and Gentlement,

Through this event, we hope to strengthen our collective efforts in bridging scientific discovery and real-world application. The Faculty of Science and Technology at Universitas Terbuka remains deeply committed to supporting open, inclusive, and transformative research — research that not only contributes to academic excellence but also to the betterment of communities and the environment.

I would like to take this opportunity to express my sincere appreciation to our Keynote Speaker, Prof. Dr. Eng. Yudi Darma, S.Si., M.Si., and to our Plenary Speakers from Malaysia, Poland, Australia, and Indonesia, for graciously sharing their expertise and experiences with us. My gratitude also goes to all presenters, participants, and sponsors whose support makes this seminar possible.

Finally, I hope this seminar inspires meaningful dialogue, sparks innovative ideas, and builds long-lasting collaborations that contribute to a sustainable and resilient future for all. May our discussions today lead to impactful actions that truly make a difference.

Thank you very much for your kind attention. Wassalamu'alaikum warahmatullahi wabarakatuh.

Tangerang Selatan, October 30th, 2025 Dr. Subekti Nurmawati, M.Si. Dean of the Faculty of Science and Technology Universitas Terbuka







RECTOR REMARKS

The 5th International Seminar of Science and Technology (The 5th ISST): "Advancing Science and Technology for a Sustainable and Resilient Future"

Universitas Terbuka, October 30th, 2025



Bismillahirrahmanirahim Assalamu'alaikum wa rahmatullahi wa barakatuh, Om Swastiastu, Namo Budhaya, Salam Kebajikan.

Honourable Keynote Speaker:

Prof. Dr. Eng. Yudi Darma, S.Si., M.Si., Director of Science and Technology Dissemination and Utilization Ministry of Higher Education, Science, and Technology, Republic of Indonesia.

Honorable Plenary Speakers:

- 1. Prof. Dr. Ahmad Sanusi bin Hassan, Universiti Sains Malaysia
- 2. Dr. Risti Permani, University of Queensland, Australia
- 3. Dr. Eng. Sindu Daniarta, Ph.D., Wrocław University of Science and Technology, Poland
- 4. Prof. Dr. Fatia Fatimah, M.Pd, Universitas Terbuka, Indonesia

Respected Colleagues,

- 1. Honorable Chairman of the Academic Senate, Universitas Terbuka;
- 2. Honorable Vice-Chairman of the Academic Senate, Universitas Terbuka;
- 3. Honorable Vice Rectors of Universitas Terbuka;
- 4. Honorable Deans of Science and Technology, Universitas Terbuka
- 5. Honorable, Director of Post Graduate School, Head of Research and Community Services Institute, and all Heads of Units in Universitas Terbuka
- 6. Honorable, All sponsors representativ
- 7. Honorable Chairman of the Board of Professor, Universitas Terbuka;
- 8. Honorable lecturers, and all presenters and participants of the 5th ISST...

It is a great honor and privilege for me to welcome you all to the 5th International Seminar on Science and Technology (ISST) 2025, organized by the Faculty of Science and Technology, Universitas Terbuka. This seminar also marks an important milestone as part of the celebration of the 41st Anniversary of Universitas Terbuka — a university that has been steadfast in its mission to expand access to quality higher education for all, through open and distance learning.



The theme of this year's seminar, "Advancing Science and Technology for a Sustainable and Resilient Future," reflects our collective awareness that the challenges we face today — from climate change and environmental degradation to food insecurity and global economic uncertainty — require not only innovation but also collaboration grounded in sustainability and resilience. Science and technology have always been the driving forces behind human progress. Yet, in this era of rapid transformation, their role becomes even more crucial, not only to develop advanced systems and intelligent technologies, but also to ensure that innovation leads to inclusive, equitable, and environmentally responsible development.

Universitas Terbuka, as Indonesia's pioneering open and distance learning institution, continues to strengthen its contribution to the nation and the global community by fostering innovation, digital transformation, and interdisciplinary collaboration. Through this seminar, we provide a platform for researchers, practitioners, and policymakers to share ideas, present findings, and explore transformative strategies that will shape a sustainable and resilient future.

I am deeply grateful to our distinguished keynote and plenary speakers from Indonesia and abroad, whose insights will undoubtedly enrich our discussions today. I also extend my appreciation to all participants who have joined us — whether here in person or virtually — representing academia, government, and industry from across Indonesia and around the world.

Allow me also to express my sincere gratitude to the Faculty of Science and Technology, the organizing committee, and all partners and sponsors who have dedicated their time, expertise, and support to make this event possible. Your hard work and collaboration exemplify the spirit of Universitas Terbuka: openness, inclusivity, and innovation for the greater good.

Ladies and gentlemen, as we embark on this academic journey today, let us reaffirm our shared commitment to harnessing science and technology not only for advancement but for the well-being of our planet and future generations. May this seminar serve as an inspiration for all of us — to think boldly, collaborate widely, and act responsibly.

I wish all participants a productive and inspiring seminar. Thank you very much.

Wassalamu'alaikum warahmatullahi wabarakatuh. Om Shanti Shanti Om. Namo Buddhaya.

Tangerang Selatan, October 30th, 2025

Rector of Universitas Terbuka Prof. Dr. Ali Muktiyanto, S.E., M.Si.



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SEMINAR RUNDOWN

The 5th ISST 2024 UNIVERSITAS TERBUKA

"Advancing Science and Technology for a Sustainable and Resilient Future"

Thursday, 30th October 2025 08.00 am to 05.00 pm (GMT+7) On-Site UTCC UT and Online Zoom

	_ ,	Time
No	Details	(UTC+7; WIB)
1	Registration for Online Presenters and Participants: Zoom: https://sl.ut.ac.id/ISST2025 Youtube: https://sl.ut.ac.id/ISST2025-UTTV Registration for On-Site Presenters and Participants: Universitas Terbuka Convention Centre (UTCC) Jl. Cabe Raya, Kecamatan Pamulang, Tangerang Selatan, Indonesia (https://sl.ut.ac.id/UTCC-maps)	08.00 - 08.30
Oper	ning Ceremony	
2	MC opens the event Indonesia Anthem	08.30 - 08.45
3	Opening prayer	08.45 - 08.50
4	Traditional Art Dance Performance	08.50 - 09.00
Welc	come Speech	
5	Welcome Speech by Conference Chair Vita Elysia, S.T., M.Sc., Ph.D	09.00 - 09.05
6	Welcome Speech by Dean of the Faculty of Science and Technology, Universitas Terbuka Dr. Subekti Nurmawati, M.Si.	09.05 – 09.10
7	Welcome Speech by Rector of Universitas Terbuka Prof. Dr. Ali Muktiyanto, S.E., M.Si.	09.10 - 09.17
8	Opening Ceremony using "Gong"	09.17 – 09.30
Keyr	note Speech	
9	Keynote Speaker: Prof. Dr. Eng. Yudi Darma, S.Si., M.Si. Director of Science and Technology Dissemination and Utilization Ministry of Higher Education, Science, and Technology Indonesia	09.30 – 09.50





No	Details	Time		
NO	Details	(UTC+7; WIB)		
10	Faculty of Science and Technology's Launching Sustainable Ideas Video: Science Speaks: Launching Ideas into the World	09.50 – 10.05		
Plen	ary Session 1			
11	Plenary Speaker-1: Prof. Dr. Ahmad Sanusi Bin Hassan Professor of Architecture Programme at the School of Housing, Building and Planning, Universiti Sains Malaysia, Malaysia	10.05 – 10.30		
12	Plenary Speaker-2: Dr. Risti Permani Senior Lecturer in Agribusiness at School of Agriculture and Food Sustainability, University of Queensland	10.30 – 10.50		
13	Plenary Discussion Session 1	10.50 – 11.10		
Plen	ary Session 2			
14	Plenary Speaker-3: Prof. Dr. Fatia Fatimah, S.Si., M.Pd. Lecturer of Mathematics Study Program, Faculty of Science and Technology, Universitas Terbuka, Indonesia	11.10 – 11.30		
15	Plenary Speaker-4: Dr. Eng. Sindu Daniarta, Ph.D. Assitant Professor at the Department of Thermodynamics and Renewable Energy Sources, Faculty of Mechanical and Power Engineering, WUST, Poland	11.30 – 11.50		
16	Plenary Discussion Session 2	11.50 – 12.10		
17	Closing of Plenary Session	12.10 – 12.15		
BRE	AK	12.15 – 13.30		
18	Parallel Session Participants of this session will present their submitted research paper. Each presenter will deliver his/her talk for 15 minutes.	13.30 – 15.30		
19	Closing ceremony Announcement of the Best Paper of 5th ISST 2025	15.30 – 16.30		



KEYNOTE SPEAKER



Prof. Dr. Eng. Yudi Darma, S.Si., M.Si
Director of Science and Technology Dissemination and
Utilization Ministry of Higher Education, Science, and
Technology Indonesia

Prof. Dr. Eng. Yudi Darma, S.Si., M.Si is a full professor at the Department of Physics, Institut Teknologi Bandung (ITB), Indonesia. He obtained his doctoral degree in Quantum Matter and Integrated Devices from Hiroshima University in 2004. Before returning to ITB, he joined several research groups, including as a postdoctoral researcher at the Research Center for Nanodevices and Systems, Hiroshima University, Japan; as a Research Fellow at the Photonic Laboratory, School of Physics, University of New South Wales, Sydney, Australia; and as a Research Fellow at the Singapore Synchrotron Light Source, National University of Singapore.

He has received several national and international awards. Currently, he serves as the Director of Dissemination and Utilization of Science and Technology at the Ministry of Higher Education, Science, and Technology of Indonesia, as well as the Head of the Quantum Semiconductor and Device Laboratory at the Department of Physics, ITB. His research focuses on advanced materials for multifunctional device applications. In addition, from 2016 to 2018, he served as Vice President of the Indonesian Young Academy of Sciences (ALMI) for the Frontier of Science.



PLENARY SPEAKERS



Prof. Dr. Ahmad Sanusi Bin Hassan University Sains Malaysia Expert in Architecture, Urban Design, and Computer-Aided Visualization

Prof. Dr. Ahmad Sanusi Bin Hassan is a Professor at the School of Housing, Building, and Planning, Universiti Sains Malaysia (USM). His academic and professional expertise spans architecture, urban design, and computer-aided visualization, with a strong focus on the integration of digital tools and sustainable concepts in architectural education and practice.

His research explores the intersection of urban morphology, Islamic architecture, and modern urban form, emphasizing how traditional design principles can inform contemporary urban development. He has contributed extensively to the study of spatial configuration, energy-efficient design, and digital modeling in architectural environments.

Prof. Ahmad Sanusi earned his Bachelor of Architecture from the University of Houston, Texas, USA, in 1992, followed by a Master of Architecture from the same university in 1994. He later completed his Doctor of Philosophy (Ph.D.) in Architecture at the University of Nottingham, United Kingdom, in 2003.

With over two decades of academic experience, Prof. Ahmad Sanusi has played a vital role in advancing digital architectural pedagogy at USM. He has mentored numerous postgraduate students and published extensively on topics such as urban design theory, computer-aided visualization, and Islamic architecture. His work continues to promote the fusion of tradition, innovation, and sustainability in the built environment.





Dr. Risti Permani University of Queensland Expert in Food Security and Agrifood Systems

Dr. Risti is a researcher and policy expert dedicated to advancing food security and sustainable agriculture. Her work spans Australia and Asia, focusing on agricultural and livestock policy, agrifood trade, innovation adoption among smallholder farmers, and digital transformation in agribusiness. She has led several international development projects and served as an Expert Reviewer on food security initiatives.

Previously, Dr. Risti was a Senior Lecturer in the Department of Economics at Deakin University, where she served as the key liaison for Deakin Business School's initiatives in agribusiness education, research, and community engagement. Between 2016 and 2018, she served as Assistant Director of the ASEAN Integration Monitoring Directorate at the ASEAN Secretariat. Earlier in her career, following a postdoctoral fellowship in Agricultural Economics at the University of Adelaide, she was a Research Fellow and Lecturer at the Centre for Global Food and Resources, University of Adelaide (2013–2016).

Dr. Risti holds a Ph.D. and Master's degree in Economics from the University of Adelaide, and a Bachelor of Science in Statistics with a minor in Agricultural Economics from IPB University, Indonesia.



Dr. Eng. Sindu Daniarta, Ph.D Expert in Thermodynamics, Energy Systems, and Artificial Intelligence Wroclaw University of Science and Technology

Dr. Eng. Sindu Daniarta, Ph.D is an Assistant Professor at the Department of Thermodynamics and Renewable Energy Sources, Wroclaw University of Science and Technology (WUST), Poland. He holds dual doctoral degrees (Cotutelle) from WUST, Poland, and the Budapest University of Technology and Economics, Hungary, specializing in energy and environmental engineering. His research focuses on renewable energy systems, energy conversion and storage, and artificial intelligence. Dr. Daniarta has published over 20 scientific papers with more than 300 citations and has received several awards, including the 2024 START Award young scientist from the Foundation for Polish Science. He is also an active member of the Knowledge Center Organic Rankine Cycle (KCORC),







reviewer in several high-impact factor journals in energy and supports international academic collaboration.

Prof. Dr. Fatia Fatimah, M.Pd. Expert in Mathematics Education and Soft Set Theory

Prof. Dr. Fatia Fatimah is a mathematician and educator whose research and academic leadership have significantly advanced the field of mathematics education and soft set theory in Indonesia. As a Professor at Universitas Terbuka (UT), Indonesia's leading institution for open and distance learning, her work integrates theoretical mathematics with practical approaches to distance education, helping improve the accessibility and quality of STEM learning nationwide.

Her scholarly interests include mathematical modeling, soft sets and their applications, and innovative strategies for teaching mathematics in open and online learning environments. Her notable works explore how mathematical reasoning can be applied to real-world problems—such as optimizing disaster evacuation routes and enhancing personalized learning through data-driven methods.

Prof. Fatia has also played a key role in academic leadership at Universitas Terbuka, serving as Manager for Partnership Development and Certification at the Center for Distance Learning Services. She has been instrumental in strengthening UT's research culture, mentoring young faculty members, and leading initiatives that promote digital transformation in higher education.

She earned her Bachelor's degree in Mathematics from Universitas Andalas in 2002, her Master's degree in Mathematics Education from Universitas Negeri Padang in 2009, and her Doctorate from Universitas Gadjah Mada. Her academic dedication and leadership reflect her vision of advancing mathematics education that is inclusive, adaptive, and globally relevant.



OFFLINE PRESENTATION SCHEDULE ROOM A

Subtheme : Circular Economy and Sustainable Innovation

Moderator : Nurul Nisa'a Amin, S.P., M.Sc. Room Manager : Emeylia Safitri, S.Stat., M.Si.

No	Schedule	ID	Presenter	Institution	Title
1	13.30 - 13.45	3006	Wahyu Hidayat	Kantor Pertanahan Kabupaten Siak	Study Of 3d Land Value Zone Modeling For Settlement Development In Braga Tourism Area, Bandung City
2	13.45 - 14.00	3008	Reynaldy Pakpahan	Universitas Terbuka	Financial Feasibility and Sensitivity Analysis of Bitter Melon (Momordica charantia) Cultivation in Situ Gede Village, Bogor City
3	14.00 - 14.15	3009	Tiara Murniasih Cahya	Pakuan University	Cost of Goods Sold Analysis of Maggot Cultivation Business at Unit Waste Bank Siliwangi Bogor City
4	14.15 - 14.30	3010	Ranti Audina Yuristianti	Universitas Pakuan	Financial Feasibility Analysis Of The Maggot (Hermetia Illuens) Cultivation Business At The Siliwangi Waste Bank Unit (Bsu) In Bogor City
5	14.30 - 14.45	3012	Susi Riswani Banjarnahor	Universitas Terbuka	Financial Feasibility and Sensitivity of Curly Red Chili (Capsicum annuum L.) Cultivation in Bogor City
6	14.45 - 15.00	3034	Yati Aryati	Universiti Sains Malaysia	Sustainability Certification, Perceived Value, and Product Differentiation in Recycled Aluminium: A Qualitative Systematic Literature Review
7	15.00 – 15.15	3035	Sri Yusriani	Universiti Sains Malaysia	Integrating AI in Higher Education: Insights from Multidisciplinary Educators Across Universities



ROOM B

Subtheme : Circular Economy and Sustainable Innovation

Moderator : Arsyelina Husni Johan, M.Si. Room Manager : Tri Wijayanti Septiarini, M.Sc.

No	Schedule	ID	Presenter	Institution	Title
1	13.30 - 13.45	3002	Dr. Lis M Yapanto. S.Pi.MM	Universitas Terbuka	Coastal Management Using Economic Instruments Approach: Theoretical Review and Its Opportunity
2	13.45 - 14.00	3016	Tri Wijayanti Septiarini	Universitas Terbuka	Computational Optimization of Forecasting Models for Indonesia's Agricultural Export Values Using Machine Learning Approaches
3	14.00 - 14.15	3023	Fatia Fatimah	Universitas Terbuka	Pythagorean Fuzzy N-Soft Set for Multi-Attribute Group Decision Making: Evaluation of Digital Learning Platforms for Resource Efficiency in Distance Education
4	14.15 - 14.30	3031	Bayu Eka Wicaksana, M.P	Universitas Terbuka	Competitiveness Analysis of Beef Cattle Farming in Dryland Areas: Evidence from Farmer Socioeconomic Capacity and Sustainability Practices in Indonesia
5	14.30 - 14.45	3015	Zakiyyah	Universitas Terbuka	Analyzing the Dimensions of Circular Economy Attainment Across Indonesian Provinces Using Principal Component Analysis
6	14.45 - 15.00	3033	Idha Faridha	Universitas Terbuka	Empowerment of Women Fishers in The Development of Household Industry



ROOM C

Subtheme : Climate Resilience and Sustainable Resource Management

Moderator : Hikmah Zikriyani, M.Si. Room Manager : Nurul Khotimah, M.Si

No	Schedule	ID	Presenter	Institution	Title
1	13.30 - 13.45	1003	Nawal Syafiq Farihan	Universitas Terbuka	Correlation Between Water Absorption Conditions And The Urbanization Impact By Normalized Difference Built-Up Index (NDBI) In The North Bandung Area (KBU)
2	13.45 - 14.00	1008	Rina Astarika	Universitas Terbuka	The Relationship Between Community Perception And Corn Consumption Level In Kabawo District
3	14.00 - 14.15	1009	Sultan Ahmad Dzakwan	Universitas Terbuka	Prodigiosin Pigment Prospects of Serratia Marcescens as a Sustainable Textile Dye
4	14.15 - 14.30	1011	Siti Arwiyah	Universitas Terbuka	Integrating Artificial Intelligence, IoT, and Digital Twin in Building Environmental Intelligence for Sustainable Management
5	14.30 - 14.45	1018	Filemon Manuel Sinyo	Universitas Terbuka	Impact Of Invasive Alien Species On Local Flora Communities Of Gomphandra Javanica And Ecological Restoration Efforts For The Recovery Of Native Biodiversity
6	14.45 - 15.00	1015	Nurul Khotimah	Universitas Terbuka	System Literature Review: Factors In Fruit Purchase And Consumption Decisions In Indonesia
7	15.00 - 15.15	1020	Is Eka Herawati	Universitas Terbuka	A Mapping Review and Stakeholder- Based Analysis of Rice Supply Chains and Sustainable Food Security Interlinkages
8	15.15 - 15.30	1019	Hikmah Zikriyani	Universitas Terbuka	Mapping the Distribution and Ecological Drivers of Phallus Species Across Indonesia: A review



ROOM D

Subtheme : Smart Technologies for Sustainable and Healthy Living

Moderator : Denisha Trihapningsari, S.Kom., MMSI

Room Manager : Fauzan Hamdani, S.P., M.Sc.

No	Schedule	ID	Presenter	Institution	Title
1	13.30 - 13.45	2002	Whika Febria Dewatisari	Universitas Terbuka	Exploring the Secondary Metabolites of Sengkubak (Pycnarrhena cauliflora) as Natural Flavor Enhancers
2	13.45 - 14.00	2003	Lina Asnamawati	Universitas Terbuka	Smart Farming and Sustainable Agriculture in Indonesia: A Systematic Review of Adoption Trends and Future
3	14.00 - 14.15	2011	Endang Indrawati	Universitas Terbuka	Gedi Leaf Meal (Abelmoschus Manihot L.) As An Alternative Feed Ingredient: Impact On Internal Organs And Digestive Tract Of Quail
4	14.15 - 14.30	2015	Alvin	Kernel Future Research	Al-Driven Intermediaries In Agriculture: Trust, Transparency, and The New Middleman Dilemma
5	14.30 – 14.45	2031	Rachmy Rosyida Ro'is, S.KM., M.KKK	Universitas Negeri Malang	The Influence Of Personal Factors And Safety Motivation On Safety Performance Within The Framework Of Construction Safety Management
6	14.45 – 15.00	2034	Adhi Susilo	Universitas Terbuka	The Social Return on Investment (SROI) of Online Learning Platforms: A Case Study of User Perceptions and Impact
7	15.00 - 15.15	2019	Tanveer Hussain	Virtual University of Pakistan	Evolutionary dynamics of PRKAG3 gene in Yak (Bos grunniens) at high-altitude rangelands of Gilgit-Baltistan, Pakistan
8	15.15 - 15.30				



ONLINE PRESENTATION SCHEDULE BREAKOUT ROOM 1 (Zoom Apps)

Subtheme : Circular Economy and Sustainable Innovation

Moderator : Rina Rismaya, M.Si.
Room Manager : Salwa Rubia Darussalam

No	Schedule	ID	Presenter	Institution	Title
1	13.30 - 13.45	3014	Alfin Ramadhan	Institut Teknologi Indonesia	Food Cost Control Analysis in the Catering Unit Business at PT Dapur Pandan Raya
2	13.45 - 14.00	3001	Andriyansah	Universitas Terbuka	Integrating Circular Economy and Sustainable Innovation to Drive Value in Ergo-Iconic Agricultural Products
3	14.00 - 14.15	3029	Ariani Dwi Astuti	Universitas Trisakti	Performance Evaluation And Kinetic Modeling of A Modified Moving Bed Biofilm Reactor (Mbbr) For Domestic Wastewater Treatment
4	14.15 - 14.30	3030	Ariani Dwi Astuti	Universitas Trisakti	Moving Bed Biofilm Reactor (Mbbr) System on Caldness Media in Removing Ammonia and Phosphate in Domestic Wastewater
5	14.30 - 14.45	3026	Deli Silvia	Politeknik Negeri Jakarta	Development of Functional Edible Paper from Moringa Leaves with the Addition of Variations in Glucomannan Concentrations of Konjac and Glycerol
6	14.45 - 15.00	3003	Dyah Fitriani	Universitas Ahmad Dahlan	Organizational and Leadership Challanges in Future
7	15.00 - 15.15				
8	15.15 - 15.30				



BREAKOUT ROOM 2 (Zoom Apps)

Subtheme : Circular Economy and Sustainable Innovation

Moderator : Na'ilah Insani Alifiyah, M.Si.

Room Manager : Alma Tiara Cantika

No	Schedule	ID	Presenter	Institution	Title
1	13.30 - 13.45	3028	Esa Ghanim Fadhallah	Universitas Lampung	Valorization of cocoa pod husk waste's cellulose into sustainable bioplastic formulated with kappaand iota-carrageenan
2	13.45 - 14.00	3024	Gumelar Aditya Heryadi	Universitas Kebangsaan Republik Indonesia	Cost benefit analysis of organic waste processing planning using aggots in sukabumi regency
3	14.00 - 14.15	3027	Hasan Basri	Politeknik STIA LAN Jakarta	Turning Transfers into Transformation: Advancing Circular Economy and Innovation through Fiscal Policy
4	14.15 - 14.30	3011	Ilham Budhi Prasetya	Institut Teknologi Indonesia	Analysis of Blade Gap in a Cassava Slicer Machine with a 62° Blade Angle on Slicing Output Capacity
5	14.30 - 14.45	3005	Ima Kusumawati Hidayat	Universitas Negeri Malang	Color Psychology and Gamified Design for Standardizing Urban Waste Bin Colors: Community- Based Solutions for Sustainable Waste Sorting in Malang
6	14.45 - 15.00	3013	Krendy La Abdillah	Universitas Terbuka	Space Revitalization Based on Foodification as a Local Culture- Based Culinary Planning Strategy: Case Study of Vastenburg Fort Area, Surakarta City
7	15.00 – 15.15				
8	15.15 - 15.30				



BREAKOUT ROOM 3 (Zoom Apps)

Subtheme : Circular Economy and Sustainable Innovation

Moderator : Lintang Rahmayana, S.T,. M.P.W.K.

Room Manager : Dinata Ayu Suriana

No	Schedule	ID	Presenter	Institution	Title
1	13.30 - 13.45	3025	M. Fariz Afif Hasibuan	Universitas Sumatera Utara	Trends, Dynamics, and Mapping of Global Research on Sustainable Certified Coffee Marketing Using the Bibliometric Method.
2	13.45 - 14.00	3017	M. Fariq Al Qasri	UIN Raden Intan Lampung	User Interface And User Experience (Ui/Ux) Design For A Mobile Point Of Sale Application Using The User- Centered Design Method
3	14.00 - 14.15	3004	Nur Yusaerah	IAIN Parepare	Science in Tradition: Exploring the Green Chemistry of Ecoprint Steaming Kampung Sabbeta and Kawali Bugis Bone for Sustainable Futures
4	14.15 - 14.30	3022	Precillia Regitha	Universitas Lampung	Application of carbon nanodots from cocoa husk waste to improve the mechanical properties of cellulose-carrageenan-based biodegradable films
5	14.30 - 14.45	3032	Timbul Rasoki	Universitas Terbuka Bengkulu	Analysis Fresh Fruit Bunch Prices Of Oil Palm: Case Study In Mukomuko Regency
6	14.45 - 15.00	3020	Suharsono	Politeknik Negeri Pontianak	Sustainable Public Service Innovation through Digital Guest Book Application to Support Smart Governance
7	15.00 – 15.15				
8	15.15 - 15.30				



BREAKOUT ROOM 4 (Zoom Apps)

Subtheme : Climate Resilience and Sustainable Resource Management

Moderator : Mirza Permana, S.T., M.Si.

Room Manager : Arie Aryanto, M.Si.

No	Schedule	ID	Presenter	Institution	Title
1	13.30 - 13.45	1017	Amrih Halil	Universitas Gadjah Mada	Remote Sensing and GIS-Based Environmental Monitoring of Small- Scale Gold Mining: Land Use Dynamics in Anggai Village, Indonesia
2	13.45 - 14.00	1004	Avriel Gilang Nurizqi	Universitas Terbuka	Identification of the Impact of Urbanization on the Availability of Green Open Space in Semarang City
3	14.00 - 14.15	1005	Bab Makkiy	Universitas Terbuka	Settlement Suitability Evaluation in a Peri-Urban Coastal District Using GIS- Based Multi-Criteria Evaluation: The Case of Babelan, Indonesia
4	14.15 - 14.30	1001	Kristiyanto	Universitas Indraprasta PGRI	Climate Change (El Nino) Impact and Its Water Management Development in Rural Areas of Upland Type
5	14.30 - 14.45	1014	Nurul Inayah	Universitas Islam Negeri Alauddin Makassar	Community Resilience Toward Physical Aspects of Residential Areas Affected by the 2019 Flood in Somba Opu District Using CDRI Index
6	14.45 - 15.00	1002	Raddina Nur Fatima	Universitas Terbuka	Functional Identification of Urban Green Space: A Case Study of Serang City Square
7	15.00 – 15.15	1013	Hartini Realista Lydia Solle	Gadjah Mada University	Lontar based liquid organic fertilizer (PocLon): Integrating Sustainable Agriculture and Local Entrepreneurship in dryland ecosystems
8	15.15 - 15.30				



BREAKOUT ROOM 5 (Zoom Apps)

Subtheme : Climate Resilience and Sustainable Resource Management

Moderator : Iffana Dani Maulida, M.Sc.

Room Manager : Rizky Lutfi Suprabowo, S.E., M.Si.

No	Schedule	ID	Presenter	Institution	Title
1	13.30 - 13.45	1012	Listra Frigia Missianes Horhoruw	Universitas Gunadarma	Design and Integration of a Multimodal Generative Model for Sustainable Ecotourism Storytelling
2	13.45 - 14.00	1021	Pipit Saputri Utami	Semarang State University	The land mafia chain breaking: The roles of digital twin technology and the future of electronic land certificates in Indonesia
3	14.00 - 14.15	1006	Rahmad Ramdani Sambari	Universitas Terbuka	Isotopic Characterization of Different Rice (Oryza sativa L.) Types Using EA- IRMS
4	14.15 - 14.30	1010	Rahman Taufik	Universitas Lampung	Advancing Sustainable Development Goals in Universities through XGBoost- Based Classification of Academic Documents
5	14.30 - 14.45	1016	Ratna Susanti	Politeknik Indonusa Surakarta	Digital Resilience in the Generative-Al Era: An Indonesian SDGs Perspective
6	14.45 - 15.00	1007	Darmawan Listya Cahya	Universitas Esa Unggul	Implementation of Nature-Based Solutions for Flood Risk Reduction in Urban Areas: Case Study of Bekasi City
7	15.00 – 15.15	1022	Alina Akhdiya	National Research and Innovation Agency	Antagonism of Hydrolytic Bacteria Against P. Capsicii and Their Ability to Decrease Organophosphates Residue of Chili Fruits
8	15.15 - 15.30	1023	Dian Nursantika	Leiden University	Preservation of Culture in the Ancient Sundanese Lontar Manuscript through Digital Annotation Technique



BREAKOUT ROOM 6 (Zoom Apps)

Subtheme : Smart Technologies for Sustainable and Healthy Living

Moderator : Krishna Prafidya Romantica, S.Si., M.Si.

Room Manager : Mochamad Bagoes Satria Junianto, S.Kom., M.Kom.

No	Schedule	ID	Presenter	Institution	Title
1	13.30 - 13.45	2035	Abul Fazal Mahmudun Nobi	Universiti Sains Malaysia (USM)	Al-assisted studio pedagogy with local material datasets for early spatial literacy
2	13.45 - 14.00	2018	Algifari Yusuf	Universitas Islam Negeri Raden Intan Lampung	Application of IoT-Based Smart Technology for Soil Monitoring to Support Sustainable Agriculture
3	14.00 - 14.15	2026	Anna Sulistyaningrum	BRIN	Quality Changes of Lumbu Kuning and Lumbu Hijau Garlic across Different Size Grades During Storage
4	14.15 - 14.30	2006	Azzahra Narifa Putri	Polytechnic Institute of Nuclear Technology Indonesia	Design And Construction Of Non- Contact Transformer Temperature Monitoring Based On Lora
5	14.30 - 14.45	2037	Deli Silvia	Politeknik Negeri Jakarta	Smart Food Packaging Films Based on Dragon Fruit Peel Extract for Chicken Meat freshness Monitoring
6	14.45 - 15.00	2038	Diaz Ekaputra	Institut Teknologi Bandung	Assessing Post-Disaster Recovery using Big Data (Case Study: Cianjur Earthquake)
7	15.00 – 15.15	2005	Djoko Slamet Pudjorahardjo	Gadjah Mada University	Study on The Technology of RF- Driven Multicusp Ion Source as Main Part of 30 MeV Cyclotron
8	15.15 - 15.30	2028	Elvan Yuniarti	IPB University	Computational Insights into Isoprene Adsorption on Graphene Quantum Dots: Towards Next- Generation Breath-Based Healthcare Sensors



BREAKOUT ROOM 7 (Zoom Apps)

Subtheme : Smart Technologies for Sustainable and Healthy Living

Moderator : Shinta Permana Putri, S.T., M.P.W.K

Room Manager : Risman Ramadwika, M.P.

No	Schedule	ID	Presenter	Institution	Title
1	13.30 - 13.45	2033	Fitri Komala Sari, S.TP., M.Sc.	Universitas Negeri Surabaya	Comparative Nutritional Analysis of Various Palm Sugar as Quick Energy and Electrolyte Sources for Enhancing Athletic Performance
2	13.45 - 14.00	2012	Igit Sabda Ilman	Universitas Lampung	Implementation Of Scrum Framework In The Development Of Kkn Universitas Lampung Website
3	14.00 - 14.15	2022	Intan Muning Harjanti	Universitas Diponegoro	Development of Sendang Pinilih Tourism Village in Wonogiri Regency
4	14.15 - 14.30	2027	Jihan Kristal Yasmin	Universitas Terbuka	The Role of Computational Mathematics and Machine Learning in Medical Image Processing for Sustainable Healthcare Systems: A Comprehensive Literature Review.
5	14.30 - 14.45	2016	Julan Hernadi	Universitas Ahmad Dahlan	Exploring the Convergence Dynamics of Iteration Sequences in Artificial Neural Network (ANN) Training under a Growth-Batch Strategy
6	14.45 - 15.00	2020	Lia Yulia Budiarti	Universitas Lambung Mangkurat	Activity of Cyperus rotundus and Mimosa Pudica Infusion as Bacterial Antibiofilm In Vitro
7	15.00 – 15.15	2008	Mochamad Anggareza Abdul Aziz	Universitas terbuka	Feasibility Analysis of Barge Navigation Channel and Jetty Site in Bulungan Regency Mining Area
8	15.15 – 15.30	2010	Muhaqiqin	Universitas Lampung	Designing for the User: A Study on User-Centered Approach for JPKM ITS-NU Lampung Website



BREAKOUT ROOM 8 (Zoom Apps)

Subtheme : Smart Technologies for Sustainable and Healthy Living

Moderator : Rahmania Ratih Maharsi, S.P., M.P. Room Manager : Hasan Basri, S.Kom., M.Kom.

No	Schedule	ID	Presenter	Institution	Title
1	13.30 - 13.45	2001	Mustofa Abdul Basir	Padjadjaran University	Securing and Protecting Medical Data in the Digital Age: An Integrative Framework of Data Anonymization Techniques and Blockchain Technology
2	13.45 - 14.00	2024	Muwafaq Yousif	Universiti Sains Malaysia	Industrialized Building Systems (IBS) in Iraqi Housing: An Exploratory Assessment of Readiness, Barriers, and Near- Term Priorities
3	14.00 - 14.15	2032	Nuraini Purwandari	Gunadarma University	Design of a Human-Centered Multi- Modal Al Virtual Teacher for Real- Time Gesture and Expression Recognition
4	14.15 - 14.30	2021	Nurnaningsih Herya Ulfah, S.KM., M.Kes, Ph.D	Universitas Negeri Malang	Hemolugame and Adolescent Anemia : Cognitive and Attudinal Effects
5	14.30 - 14.45	2029	Pepi Zulvia	Politeknik STIA LAN Bandung	Mapping What Matters: Using TRAM and IPMA to Drive SAPAWARGA Adoption for Sustainable Smart Governance
6	14.45 - 15.00	2009	Ridho Sholehurrohman	Universitas Lampung	Enhancing User-Centered Web Development: Applying Design Thinking to the JPKM LUNIK Website
7	15.00 – 15.15	2036	Rizky Prabowo	Universitas Lampung	Development of a Geographic Information System for Mapping of Lampung Medicinal Plant
8	15.15 – 15.30	2013	Tri Siswati	Politeknik Keseahatan Kementerian Kesehatan Yogyakarta (Poltekkes Yogyakarta)	Developing Fenton Baby Scale: A Novel Digital Anthropometry Device for Small Babies



BREAKOUT ROOM 9 (Zoom Apps)

Subtheme : Smart Technologies for Sustainable and Healthy Living

Moderator : Ulul Hidayah, S.T., M.Si.

Room Manager : Mochammad Yunus Gerry F, S.KPm, M.Si

No	Schedule	ID	Presenter	Institution	Title
1	13.30 - 13.45	2030	Septariawulan Kusumasari	Universitas Sultan Ageng Tirtayasa	Enhancing Nutritional Quality of Traditional Indonesian Snacks Using Food Waste Derived Calcium Sources
2	13.45 - 14.00	2007	Siti Maria Hiptiyah	Universitas Terbuka	Mathematical Modeling and Dynamic Analysis of Tuberculosis Disease Spread Prediction
3	14.00 - 14.15	2014	Suharsono	Politeknik Negeri Pontianak	Sustainable Public Service Innovation through Digital Guest Book Application to Support Smart Governance
4	14.15 - 14.30	2004	Suprapto	Universitas Gajah Mada	Preliminary Design of the Vacuum System of the Furnace for Brazing and Bake-Out of Accelerator Components
5	14.30 - 14.45	2023	Windi Chusniah Rachmawati, S.KM., M.Kes.	Universitas Negeri Malang	Fostering Holistic Behavior from an Early Age: The Role of the Nutrition Action Kit Innovation in Preventing the Triple Burden of Malnutrition in Sukoharjo
6	14.45 - 15.00	2025	Yasir Riady	Universitas Terbuka	Integrating Artificial Intelligence Applications into Primary Science Learning for Sustainable Education
7	15.00 – 15.15	2017	Yessy Asri, ST., MMSI	Universitas Gunadarma	Domain-Specific Named Entity Recognition in The Indonesian Electricity Sector: A Comparative Study of Transformer and Sequential Models
8	15.15 - 15.30				



BREAKOUT ROOM 10 (Zoom Apps)

Subtheme : Water, Energy, and Food Nexus for Resilient Societies

Moderator : Fonda Leviany, S.Stat., M.Stat. Room Manager : Febrian Bagus Pratama, S.Psi.

No	Schedule	ID	Presenter	Institution	Title
1	13.30 - 13.45	4013	Ai Nurlaela	Universitas Indonesia	Theoretical Investigation of the Full- Heusler Fe2 ZnSi Thermoelectric Properties
2	13.45 - 14.00	4007	Darmawan Listya Cahya	Universitas Esa Unggul	Spatial Policy Evaluation for Renewable Energy Integration: A Case Study of Jakarta's Urban Planning
3	14.00 - 14.15	4009	Devi Safrina	Gadjah Mada University	Physical quality parameter changes during boiling and frying of pegagan (Centella asiatica (L.) Urb.)
4	14.15 - 14.30	4003	Dewi Asiah Shofiana	Universitas Lampung	Optimizing Protection Settings at PT PLN (PERSERO) UP2D Lampung through User- Centered Design and Model-View-Controller Architecture
5	14.30 - 14.45	4012	Erika Herliana	Universitas Sebelas Maret	A Decade Review of Pharmaceutical and Personal Care Products in Indonesian Aquatic Systems
6	14.45 - 15.00	4010	Imranah	Institut Agama Islam Negeri Parepare	Exploring Local Knowledge of the Soppeng Community in Processing Dodol Pangi: A WEF Nexus Perspective
7	15.00 – 15.15	4013	Ai Nurlaela	Universitas Indonesia	Theoretical Investigation of the Full- Heusler Fe2 ZnSi Thermoelectric Properties
8	15.15 - 15.30				



BREAKOUT ROOM 11 (Zoom Apps)

Subtheme : Water, Energy, and Food Nexus for Resilient Societies

Moderator : Ria Faulina, M.Si. Room Manager : Nuramaliyah, M.Si.

No	Schedule	ID	Presenter	Institution	Title
1	13.30 - 13.45	4006	Irma Lusi Nugraheni	Universitas Lampung	Green Investment Development Strategy for Flood Mitigation and Food Security Based on the InVEST Model in Bandar Lampung City Sumatera Indonesia
2	13.45 - 14.00	4005	Irna Puspita Sari	Universitas Lampung	Study Of Socio Economic Conditions After The Flood Disaster In Rajabasa Sub District Bandar Lampung City
3	14.00 - 14.15	4011	Laode Abdul Kadir	Halu Oleo University	Effect Of Chitosan Addition On The Mechanical Properties Of Hydroxyapatite (Hap)–Tio ₂ Composites
4	14.15 - 14.30	4008	Luqmanul Hakim Effendi	Darma Persada University (UNSADA)	Role and Contribution of Integrated Renewable Energy for Sustainable Commercial Infrastructure: A Literature Review and Future Research Directions
5	14.30 - 14.45	4001	Moh. Shohwan Najih	Pangan dan energy	Building Food Resilience Based On Agritourism In "P4S Sangan Agro Lestari"
6	14.45 - 15.00	4004	Tika Wahyuni	Universitas Lampung	Food Security Of Poor Families In Flood-Prone Areas In South Teluk Betung District
7	15.00 – 15.15	4014	Dini Nur Hakiki	Universitas Terbuka	Small Scale Postharvest Handling Practice by Crisping Technique In Leafy Vegetables
8	15.15 - 15.30	4002	Selly Anastassia Amellia Kharis	Universitas Terbuka	Multiclass Classification of Digital Literacy in Open and Distance Learning Students Using Categorical Boosting



KEMENTERIAN PENDIDIKAN, KEBUDAYAAN, RISET DAN TEKNOLOGI

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