



The 4th International Conference on Mathematics and Sciences
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
UNIVERSITAS MULAWARMAN
Campus: Jl. Barong Tongkok No 4 Gn Kelua Samarinda
Phone (0541) 749140, 749152, 749153, 749156

No: 118-LoA/Chem/ICMSc/FMIPA-Unmul/2022

10/5/2022

Subject: Letter of Acceptance

Dear Saskia Kurnia Rachmani, Subur P. Pasaribu, Erwin Erwin, Aman Sentosa Panggabean

Thank you for submitting your Abstract, and we would like to formally inform you that your abstract entitled:

“Antioxidant And Antibacterial Activities From Edible Film Durian Seeds Starch With Bay Leaves Ethanol Extract Incorporation”

has been approved by our Editors and is accepted for presentation at **The 4th International Conference on Mathematics and Sciences (ICMSc)** which be held at **Science Learning Center, Universitas Mulawarman, Samarinda, East, Kalimantan, Indonesia**. The conference will be conducted hybrid (offline and online using Zoom Application) on October 10-11, 2022.

Please submit your full paper to <http://conference.fmipa.unmul.ac.id/index.php/icmsc/2022> no later than **06 November 2022**.

For further information regarding the specifics of the Conference or please contact us with any questions at icmsc@fmipa.unmul.ac.id and Contact Person +62 852 5032 6564 (Meiliyani Siringoringo, S.Si, M.Si)

Hormat Kami,
Ketua Pelaksana ICMSc 2022,



Dr. Sifriyani, M.Si
NIP 19821123200812200



[ICMSc-2022] Editorial Decision on Abstract

Dari: admin (conference@fmipa.unmul.ac.id)

Kepada: saskia.kurnia.r@gmail.com

Cc: subur_pasaribu@yahoo.com; erwinakkas@fmipa.unmul.ac.id; amanspangabebean@yahoo.com

Tanggal: Rabu, 5 Oktober 2022 19.12 GMT+8

Saskia Saskia Kurnia Rachmani:

Congratulations, your abstract ANTIOXIDANT AND ANTIBACTERIAL ACTIVITIES FROM EDIBLE FILM DURIAN SEEDS STARCH WITH BAY LEAVES ETHANOL EXTRACT INCORPORATION has been accepted for presentation at International Conference on Mathematics and Sciences which is being held 2022-10-10 at Samarinda. You may now submit your paper for further review.

Thank you and looking forward to your participation in this event.

admin
conference.fmipa@gmail.com

Reviewer A:

Does the title of the article already reflect the specific and effective content? :

Yes

Suggested improvements to be made by the author on TITLE:

none

Has the abstract met the correct rules of writing? :

Yes

Suggested improvements to be made by the author on ABSTRACT:

some sentences need to be corrected

What is the final conclusion of this ABSTRACT SUBMISSION ?:

Abstract received and continued with full paper

International Conference on Mathematics and Sciences The 4th International Conference on Mathematics and Sciences 2022
<http://conference.fmipa.unmul.ac.id/index.php/icmsc/2022/index>



INTERNATIONAL CONFERENCE

ON MATHEMATICS AND SCIENCES

*"THE ROLES of TROPICAL SCIENCE in
NEW CAPITAL NATION PLANNING"*

10th-11th
OCTOBER
2022

BOOK of ABSTRACTS



Foreword from the Dean of Faculty of Mathematics and Natural Sciences, Mulawarman University

Assalamualaykum Wr. Wb

First of all, let us praise and thank the Almighty God because his blessings and helpings; we are able to gather here to attend this conference.

It is a great pleasure to welcome you all to the 4th The International Conference on Mathematics and Sciences (ICMSc 2022) with a theme "The Roles of Tropical Science in New Capital Nation Planning". I am delighted to see that the Faculty of Mathematics and Natural Sciences Mulawarman University has again organized The Fourth International Conference that capitalize on our strength and built on our commitment to promoting the research in Mathematics, Statistics, Physics, Geophysics, Chemistry, and Biology, as well as their applications.

ICMSc 2022 is conducted using a hybrid method by combining online and offline seminars. This is due to the COVID-19 pandemic, which has impacted our lives, including education and research. As researchers, lecturers and students, we do face many challenges in this pandemic condition and we find it difficult to carry out research in the laboratory due to limited access and the application of very strict health protocols.

I am very happy and proud of all the keynote speakers, invited speakers, and oral presenters who remain enthusiastic in carrying out research in the midst of this pandemic and presenting their research results in this seminar.

The conference proudly invites six keynote speakers coming from several countries. Therefore, on behalf of the committee, I would like to express my sincere thanks to them, specifically: Hafidz Prihtyadi, Ph.D from Institute for Basic Science, Korea; Prof. Agus Hasan, Ph.D from Norwegian University of Science and Technology, Norway; Assoc Prof. Shery Chang from University of New South Wales, Australia; Distinguished Prof. Kerrie Mengersen from Queensland University of Technology, Australia; Yanuar Alan Sulistio, Ph.D, Hanyang University, Korea; and Dr. Sc. Ide Yoshihiko, Coastal and Ocean Eng. From Kyushu University, Japan who have high reputation and commitment in their field.

I would also like to thank all invitee speakers from different universities in Indonesia, Prof. Darmawati D., M.Si., Ph.D., Dr. Eng. Sripto Dwi Y., S.Si., M.T., Dr. Achmad Choiruddin, S.Si., M.Sc., Dr. Junios M. Si., Ki Ageng S., M.Sc., M.IL., Ph.D., Jordi Mahardika P., S.Si., M.Sc., Prof. Dr. rer. nat. Abdul Haris, Dr. dr. Karina, Sp BP-RE, Dr. Edrianj, M.Si, Syaiful Anam, S.Si., M.T, Ph.D, Ahmad Hafizullah R., S.Si., M.Si., and Dr. Fatia Fatimah, S.Si., M.Pd

Furthermore, I would like to take this opportunity to thank the conference organizing committee who have shown great hard work and determination for this conference. They have all worked since the beginning of 2022 from the planning stage to the implementation stage in the middle of their busy lives as lecturers, laboratory assistants, and administrative staff.

I would also like to thank participants, especially those of you coming from abroad, for joining us and sharing your valuable experiences. I do hope that this conference would bring an excellent opportunity for all of us to share research experience and knowledge, and this conference will significantly contribute to our nation's advancement.

On this occasion, I would like to apologize to all of you when there are some inconveniences during the conference.

Finally, for all the speakers and participants listed in the 4th ICMSc in 2022, have a nice conference and I do hope we can all meet again in the next ICMSc.

Wassalamu'alaikum wr. wb.

Best Regards,

Dr. Eng. Idris Mandang, M.Si
Dean of Faculty of Mathematics and Natural Sciences Mulawarman University



Foreword from the Chairman of Organizing Committee The 4th International Conference on Mathematics and Sciences

Assalamualaykum Wr. Wb

First of all, let us praise and thank the Almighty God because his blessings and helpings; we are able to participate. The 4th International Conference on Mathematics and Sciences (ICMSc 2022) is an international hybrid conference organized by Faculty of Mathematics and Natural Sciences, Mulawarman University (UNMUL), Samarinda, East Kalimantan, Indonesia. ICMSc 2022 with a theme "The Roles of Tropical Science in New Capital Nation Planning" will cover all key areas in mathematics, statistics, physics, geophysics, chemistry, and biology and the applications.

Previously, two ICMSc series were conducted offline where we could meet face-to-face and exchange information and experiences. In third and fourth ICMSc, the conference is held with a hybrid method due to COVID-19 pandemic where most of us can only meet online. However, I believe that these limitations do not prevent us from sharing experiences, research results and information.

I am very pleased that we have renowned keynote speakers, Hafidz Prihtiadi, Ph.D from Institute for Basic Science, Korea; Prof. Agus Hasan, Ph.D from Norwegian University of Science and Technology, Norway; Assoc Prof. Shery Chan from University of New South Wales, Australia; Distinguished Prof. Kerrie Mengersen from Queensland University of Technology, Australia; Yanuar Alan Sulistio, Ph.D, Han Yang University, Korea; and Dr. Sc. Ide Yoshihiko, Coastal and Ocean Eng. from Kyushu University, Japan. In this year conference, we also invite Prof. Darmawati D., M.Si., Ph.D., Dr. Eng. Supto Dwi Y., S.Si., M.T., Dr. Achmad Choiruddin, S.Si., M.Sc., Dr. Junios, M.Si., Ki Ageng S., M.Sc, M.IL, Ph.D., Jordi Maharika P., S.Si., M.Sc., Prof. Dr. rer. nat. Abdul Haris, Dr. dr. Karina, Sp.BP-RE, Dr. Edriani, M.Si, Syaiful Anam, S.Si., M.T, Ph.D, Ahmad Hafizullah R., S.Si., M.Si., and Dr. Fatia Fatimah, S.Si., M.Pd from different universities in Indonesia. It is an honor and privilege to have them as speakers as I strongly believe that their contribution would be beneficial to the people working in this field. For ICMSc 2022, we received 152 accepted abstract for 147 oral presentations and 5 poster presentations. All accepted articles will be published in a proceeding published by The American Institute of Physics (AIP) Publishing. I would like to thank all the committee and students involved in this seminar. Thank you for the great teamwork and your time. I would also like to greatly thank Bank Syariah Indonesia for financial supports. On behalf of the organizing committee, I would like to welcome all of speakers and participants. Please enjoy the conference.

Wassalamu'alaikum wr. wb.

Best regards,

Dr. Sifriyani, S.Pd., M.Si
Chair of Organizing Committee

Committee

Honorary Board

Prof. Dr. H. Masjaya, M.Si
(Rector of Mulawarman University)
Dr. Eng. Idris Mandang, M.Si
(Dean of Faculty of Mathematics and Natural Sciences, Mulawarman University)
Dr. Sri Wahyuningih, M.Si
(Vice Dean I of Faculty of Mathematics and Natural Sciences, Mulawarman University)
Dr. Yanti Puspita Sari, M.Si
(Vice Dean II of Faculty of Mathematics and Natural Sciences, Mulawarman University)

Organizing Committee

Chairman
Dr. Sifriyani, S.Pd., M.Si

Co-Chairman

Qonita Qurrota A'yun, S.Si., M.Sc

Secretary and Secretariat

Devina Rayzy P.S.P, S.Si., M.Sc
Merinda Fauziyah, S.Si., M.Stat
Zetsaona Sihotang, S.Si, M.Si

Widha Prahasika, S.Si
Lin Yunarti, S.Pd
Mima, SE

Treasury

Rahmad Ramadhani Dey, S.IP

Siti Aminah, S.Kom

Division

Event

Ismar Roesdi, S.Si, M.Si
Dr. RR. Dirgani Juliana Nurlianti S, M.Sc
Dr. Noor Hindryawati, M.Si
Wasoq S.Si., M.Si

Andrea Tri Rian Dani, S.Stat, M.Stat
Erlinda Ratnasari Putri, S.Si, M.Si
Ervinda Yuliatin, S.Si, M.Si

Journal, Poster, and Proceeding

Meliana Sirinopriango, S.Si, M.Si
Prof. Rudy Agung Nugroho, M.Si, Ph.D
Veliana Londong Alo, S.Si, M.Si
Nanang Tri Widodo, M.Si

Wahidah, S.Si, M.T
Moh. Nurul Huda, S.Si., M.Si
Muhammad Fauzi Arif, M.Sc
Siti Mahmudah, S.Si, M.Si

Publication, Website, and Documentation

Surya Prangga, S.Si, M.Si
Dr. Nova Hariani, M.Si

Fajar Hadi Ramadan, AMd
Kusandar, M.Pd., M.Kom

Equipment

Fidia Deny Tisna Amijaya, S.Si, M.Si
Andi Alamsyah, S.Si, M.S., M.Sc
Jono, S.Sos., M.Si
Iriansyah, S.Kom
Arif Sopian
Wasdub

Muhammad Fakhurrozi, S.Kom
Rudanto, S.Si
Fedy Hartanto, S.Si
Ruli Yuniarto, S.Si
Ryan Rachmad Ramadhan, S.Si
M. Rasyid Rahman, S.Stat

Accommodation and Consumption

Dr. Hetty Manurung, M.Si
Dr. Retno Aryani, M.Si

Memi Nor Hayati, S.Si, M.Si

Transportation

Mukhlis, S.Pd., M.Sc
Lajahaja, SE

Ahmad Zarkasi, S.Si., M.Si

Public Relations and Cooperation

Moh. Syaiful Arif, S.Pd., M.Si
Dr. Rahmat Gunawan, M.Si

Muhammad Rizal, S.Si., M.Si

Venue



Science Learning Center (SLC)
Faculty of Mathematics and Natural Science, Mulawarman University

Jl. Barong Tongkok, No. 04 Mula warman University Campus, Mount Kelua
Samarinda, East Kalimantan, Indonesia, 75123



Conference Schedule
The 4th International Conference on Mathematics and Sciences 2022
10-11 October 2022

Day 1:
10 October 2022

Time – Central Indonesia Time (WITA)	Agenda	Room/Zoom details
08.00 – 09.00	Registration Conference regulation (MC)	Theater Room, SLC (Offline)
09.00– 09.45	Opening Ceremony: <ol style="list-style-type: none"> 1. Greeting by Master of Ceremony (Aria Dwi Budi Santoso & Qonita Qurrota A'yun, M.Sc) 2. Indonesian National Anthem: Indonesia Raya 3. Traditional dancing by Art Student Creativity Unit, Faculty of Mathematics and Natural Science, Mulawarman University 4. Opening remarks: <ol style="list-style-type: none"> a. Chairman (Dr. Sifriyani, M.Si) b. Dean of Faculty of Mathematics and Natural Sciences (Dr. Eng. Idris Mandang, M.Si) c. Rector of Mulawarman University (Prof. Dr. H Masjaya, M.Si) 5. Chanting prayers (Irfan Ashari Hiyahara, M.Si) 6. Photo session 	<p>UTV is inviting you to a scheduled Zoom meeting.</p> <p>Topic: The Fourth International Conference on Mathematics and Science</p> <p>Time: Oct 9-12, 2022 07:00 WITA</p> <p>Join Zoom Meeting https://unmul.zoom.us/j/93569571652?pwd=YmF5MXpyMGZOUkxWNSsQTVVWGpTQT09</p> <p>Meeting ID: 935 695 7 1652 Passcode: ICMSc</p>
09.45 – 10.00	Coffee Break	SLC
10.00 - 11.00	Plenary Session 1 Keynote Speaker 1:	Theater Room, SLC (Offline)



Time – Central Indonesia Time (WITA)	Agenda	Room/Zoom details
	<p>Dr. Sc. Ide Yoshihiko, Kyushu University (Offline)</p> <p>Moderator: Dr. Mustaid, M.Si</p> <p>Handover of certificates to keynote speakers</p>	<p>UTV is inviting you to a scheduled Zoom meeting.</p> <p>Topic: The Fourth International Conference on Mathematics and Science</p> <p>Time: Oct 9-11, 2022 07:00 WITA</p>
11.00-12.00	<p>Plenary Session 1</p> <p>Keynote Speaker 2 : Hafizh Prihtadi, Ph.D, Institute for Basic Science (Offline)</p> <p>Moderator: Kholis Nurhanafi, S.Si, M.Sc</p> <p>Handover of certificates to keynote speakers</p>	<p>Join Zoom Meeting</p> <p>https://unmul.zoom.us/j/93569571652?pwd=YmF5MXpyMGZlZUxWS9sQTVVWGpTQT09</p> <p>Meeting ID: 935 695 7 1652</p> <p>Passcode: ICMSc</p>
12.00 - 12.05	Plenary and parallel sessions sharing information by MC	
12.05 – 13.30	BREAK	SLC (Offline)
13.30 – 14.30 (15.30 – 16.30 AEST Sydney)	<p>Plenary Session 1</p> <p>Keynote Speaker 3 : Associate Professor Shery Chang, University of New South Wales</p> <p>Moderator: Dr. R.R. Dirgarini Julia N.S., M.Sc</p> <p>Handover of certificates to keynote speakers</p>	<p>Theater Room, SLC (Offline)</p> <p>UTV is inviting you to a scheduled Zoom meeting.</p> <p>Topic: The Fourth International Conference on Mathematics and Science</p> <p>Time: Oct 9-11, 2022 07:00 WITA</p>
14.30 – 15.30	<p>Plenary Session 1</p> <p>Keynote Speaker 4 : Yanuar Alan Sulistio, Ph.D, Hanyang University (Offline)</p>	<p>Join Zoom Meeting</p> <p>https://unmul.zoom.us/j/93569571652?pwd=YmF5MXpyMGZlZUxWS9sQTVVWGpTQT09</p>

Time – Central Indonesia Time (WITA)	Agenda				Room/Zoom details	
	Moderator: Prof. Rudy Agung Nugroho, PhD Handover of certificates to keynote speakers				Meeting ID: 935 695 7 1652 Passcode: ICMSc	
15.30 – 15.45	Coffee Break					
15.45 - 17.00	Parallel Session					
	<p style="text-align: center;">Room 1 Mathematics</p> SLC (Offline), Zoom virtual room (Online) Moderator: Sri Wigantono, S.Si., M.Sc Invited Speaker: Syaiful Anam, S.Si, M.T, Ph.D (Offline) (15.45-16.00) Operator: Fedy Harlan to, S.Si (Discussion Room 3 rd floor)	<p style="text-align: center;">Room 2 Statistics</p> SLC (Offline), Zoom virtual room (Online) Moderator: Siti Mahmuda, S.Si, M.Si Invited Speaker: Dr. Fatia Fatimah, S.Si., M Pd (Offline) (15.45-16.00) Operator: Ruli Yuniarto, S.Si (Classroom 1, 3 rd floor)	<p style="text-align: center;">Room 3 Chemistry</p> SLC (Offline), Zoom virtual room (Online) Moderator: Irfan Ashari Hiyahara, SPd, M.Si Invited Speaker: Dr. Eng. Supto Dwi Yuwono, S.Si, M.T. (Offline) (15.45-16.00) Ahmad Hafidullah Ritonga, S.Si, M.Si (16.00 – 16.15) Operator: Muhammad Fakhru røy, S.Kom (Classroom 4, 4 th floor)	<p style="text-align: center;">Room 4 Physics + Geophysics</p> SLC (Offline), Zoom virtual room (Online) Moderator: Dr. Rahmawati, M.Si Invited Speaker: Prof. Darmawati Darwis, S.Si., M.Si., Ph.D (15.45-16.00) Prof. Dr. rer. nat. Abdul Haris (16.00-16.15) Operator: M. Rasyid Rahman, S.Si (Discussion Room, 4 th floor)	<p style="text-align: center;">Room 5 Biology</p> SLC (Offline), Zoom virtual room (Online) Moderator: Dr. Djan Sunar Rukmi, M.Si Invited Speaker: KI Ageng Sarwono, M.Sc., M.JL, Ph.D (15.45-16.00) Operator: Rudianto, S.Si (Classroom 2, 3 rd floor)	<p style="text-align: center;">Room 7 Student Chapters</p> Einstein (Offline) Moderator: Hardina Sandarria, S.Si, M.Sc Operator: (Einstein)



Time – Central Indonesia Time (WITA)	Agenda	Room/Zoom details
11.15 - 11.30	Break – Interactive Quiz (Dr. R.R. Dirgarini Julia Nurlanti, M.Sc)	
11.30 - 11.50	Information session Publication in AIP Publishing (Meiliani Siringoringo, M.Si)	
11.50 - 12.00	Parallel session sharing information by MC (Information on the best presenters)	
12.00 – 13.30	BREAK	SLC (Offline)
13.30 - 15.15	<p>Parallel Session</p> <p>Theater Room, SLC (Offline)</p> <p>UTV is inviting you to a scheduled Zoom meeting.</p> <p>Topic: The Fourth International Conference on Mathematics and Science Time: Oct 9-11, 2022 07:00 WITA</p> <p>Join Zoom Meeting https://unmul.zoom.us/j/93569571652?pwd=YmF5MkxpbjMGMGZlUoxWS9sQTVvWGpTQT09</p> <p>Meeting ID: 935 6957 1652 Passcode: ICMSc</p>	

Time – Central Indonesia Time (WITA)	Agenda				Room/Zoom details	
Parallel Session						
	<p>Room 1 Mathematics SLC (Offline), Zoom virtual room (Online)</p> <p>Moderator: Sri Wigantono, S.Si., M.Sc</p> <p>Invited Speaker: Dr. Eridani, MSi (13.30 - 13.45) Operator: Fedy Harlan to, S.Si (Discussion Room 3rd floor)</p>	<p>Room 2 Statistics SLC (Offline), Zoom virtual room (Online)</p> <p>Moderator: Sri Mahmuda, S.Si., MSi</p> <p>Invited Speaker: Dr. Achmad Choiruddin, S.Si, M.Sc (13.30 - 13.45) Operator: Ruli Yuni arto, S.Si (Classroom 1, 3rd floor)</p>	<p>Room 3 Physics+Geophysics SLC (Offline), Zoom virtual room (Online)</p> <p>Moderator: Qori Fajar Hermawan, S.Si., M.Sc</p> <p>Invited Speaker: Jordi Mahardika Puntu, S.Si., M.Sc (13.30 - 13.45)</p> <p>Invited Speaker: Dr. Junios, M.Si (13.45 – 14.00)</p> <p>Operator: Ryan Rachmad Ramadhan, S.Si (Classroom 3, 4th floor)</p>	<p>Room 4 Biology SLC (Offline), Zoom virtual room (Online)</p> <p>Moderator: Dr. Dian Sunar Rukmi, M.Si</p> <p>Invited Speaker: Dr.dr. Karina, Sp.BP(RE) (13.30 - 13.45) Oper ator: Rudianto, S.Si (Classroom 2, 3rd floor)</p>	<p>Room 7 Student Chapters Ei nstein (Offline)</p> <p>Moderator: Hardina Sandarria, S.Si, MSc</p> <p>Operator: Hardina Sandarria, S.Si, M.Sc (Einstein)</p>	<p>Room 8 Monitoring and Evaluation of Public Service Meeting Room 2 SLC (Offline)</p> <p>Moder ator: Dr. Retno Aryani, S.Si., M.Si</p> <p>Operator: Muhammad Fakhrurrozy, S. Kom</p>



Time – Central Indonesia Time (WITA)	Agenda	Room/Zoom details
15.15 – 15.30	Coffee Break	SLC (Offline)
15.30 – 16.30	Closing Ceremony <ol style="list-style-type: none"> 1. Greeting by Master of Ceremony (Aria Dwi Budi Santoso & Qonita Qurrota A'yun, M.Sc) 2. Announcement of the best speakers 3. Closing remarks: Dean of Faculty of Mathematics and Natural Sciences (Dr.Eng. Idris Mandang, M.SI) 4. Photo Session 	Theatre Room, SLC (Offline) UTV is inviting you to a scheduled Zoom meeting. Topic: The Fourth International Conference on Mathematics and Science Time: Oct 9-11, 2022 07:00 WITA Join Zoom Meeting https://unmul.zoom.us/j/93569571652?pwd=YmF5MkxpyMGZlUoxWS9zQTVvWGpTQT09 Meeting ID: 935 6957 1652 Passcode: ICMSc

PARALLEL SESSION SCHEDULE

Field: MATHEMATICS

Date : October 10, 2022 (Day 1)
 Room : Science Learning Center, Floor 3, Discussion Room + Zoom Virtual Meetings (Breakout Room Mathematics 1)
 Moderator : Sri Wigantono, S.Si., M.Sc
 Operator : Fedy Harlanto, S.Si

No	Code	Authors	Title	Session	Time
1	IVTS	Syaiful Anam, Zuraidah Fitriah, Noor Hidayat	Diagnosing Diabetes Mellitus using K - Means Clustering Method with Robust Centroids Initialization Based Swarm Intelligence Algorithm	Offline	15.45-16.05
2	502-MATH	Moh Nurul Huda, Qonita Qurrota A'yun, Indriasi Raming, Sri Wigantono, Asmaidi Asmaidi, Yuki Novia Nasution, Hardina Sandariria	Global Stability of Phytoplankton- Zooplankton Models with Ratio - Dependent Functional Response	Offline	16.05-16.15
3	631-MATH	Wasono Wasono, Syaripuddin Syaripuddin, Fidia Deny Tisna Amijaya, Sri Wigantono, Desi Febriani Putri	Analysis Of Laptop Marketing Strategies Using Game Theory Based On Fuzzy Logic In Determining Optimal Marketing Strategies For Vocational School Students In The City Of Samarinda	Offline	16.15-16.25
4	641-MATH	Lutfia Kartika Sari, Tri Atmojo Kusmayadi	The Local Metric Dimension of Cocktail Party Graph and Mushroom Graph	Online	16.25-16.35
5	697-MATH	Marjono Marjono, Saadatul Fitri, Abdul Rouf Alqofari, Corina Karim, Rahmalia Firdausi Tamara, Estelita Maria Fernandes Gaspar, Ni Made Ash	Coefficient Inequalities for Starlike And Bazilevic Functions	Online	16.35-16.45
6	566-MATH	Suhandi Wido Saputro	On Independent $[1,2]$ -Sets of Comb Product Graphs	Offline	16.45-16.55

No	Code	Authors	Title	Session	Time
7	634-MATH	Galuh Oktavia Siswono, Yeni April Lina, Verencia Pri cila	The Application of LSTM and Holt-Winter Methods to Predict the Factors Caused a Hurricane in Indonesia	Online	16.55-17.05
8	657-MATH	Primadina Hasanah	Determining Fire Insurance Premium using Extreme Value Theory-Peaks Over Threshold (Case Study: Balikpapan)	Online	17.05-17.15
9	565-MATH	Ahmadin, Janson Naiborhu	Control Design on a Non-Minimum Phase Bilinear System with Relative Degree Two by Redefinition of The Output	Online	17.15-17.25
10	550-MATH	Imam Nugraha Albania, Rizky Rosjuardi, Sumanang Muhtar Gozali	A Module Structure Constructed by Convolution on Cyclically Ordered Group	Online	17.25-17.35

Field: STATISTICS

Date : October 10, 2022 (Day 1)
 Room : Science Learning Center, Floor 3, Classroom 1 + Zoom Virtual Meetings (Breakout Room Statistics 1)
 Moderator : Siti Mahmuda, M.Si
 Operator : Ruli Yuniarto, S.Si

No	Code	Authors	Title	Session	Time
1	IVTS	Fata Fatimah	<i>N</i> - Soft Sets: Theory and Applications in Statistics	Offline	15.45-16.05
2	557-STAT	Dedi Rosadi, Deasy Arisanty, Widyastuti Andriyani	Improving Machine Learning Prediction of Forest Fire Occurrence in Peatlands for Unbalanced Data using ANS-SMOTE Approach	Offline	16.05-16.15
3	575-STAT	Sifriyani Sifriyani, Andrea Tri Rian Dani, Meirinda Fauziah, Memi Nor Hayati, Sri Wahyu Ningsih Surya Prangga	Spline and Kernel Mixed Estimator sIn Multivariable Nonparametric Regression For Dengue Hemorrhagic Fever Models	Offline	16.15-16.25
4	597-STAT	Ani K Anekawati, Mohammad Rofik	A Spatial Structural Equation Modeling of the Family Resilience in the Spread of Covid-19	Offline	16.25-16.35
5	616-STAT	Suyitno Suyitno, Darnah Andi Nohe, Ika Purnamasari, Meiliyani Siringoringo, Rito. Goejantoro, Meita Nor Rahma	The Analysis of The Pollution Potensial of Mahakam River Water in Tropical Rain Forest Environment East Kalimantan Using Weibull Regression Model	Offline	16.35-16.45
6	618-STAT	Dedi Rosadi, Abdurakhman, D I Asih Maruddani, Agus Sihabuddin, Irfan Mohammad Ihsan, Ayu Ajeng Jayanti, Taufik Anwar, Cidlia Debbie Simangunsong, Dinda Awarda Ramadhani, Iqbal Hanif Anggita Adi, Danny Theodore Dunrui, Putu Indra Wibi sanna, Pingky Oktiawati, Tarisa Putri Cahyani, Ulfasari Rafflesia	"Analyzing Indonesian Government Yield Curve during Pandemic COVID-19 using Class of Nelson Siegel Models"	Offline	16.45-16.55

No	Code	Authors	Title	Session	Time
7	664-STAT	Umu Sa'adah, Endang Wahyu Handamari, Kwardi niya Andawaningtyas	Implementation of Fuzzy c-Means Algorithm for Provinces Clustering in Indonesia Based on Education Indicators	Offline	16.45-16.55
8	569-STAT	Anik Anekawati, Emdat Suprayitno, Naili Huza'imah	Family Quality Modeling of The Potential Spread of COVID-19 with A Structural Equation Modeling Approach	Offline	16.55-17.05
9	696-STAT	Mutijah, Ulfah Rulli Hastuti	Multinomial Logistic Regression Model On The Faith of Mathematics Education Students	Offline	17.05-17.15
10	696-STAT	Lilis Laome, I Nyoman Budiantara, Vita Ratnasari	Poverty Modelling with Spline Truncated, Fourier Series and Mixed Estimator Geographically Weighted Nonparametric Regression	Online	17.15-17.25
11	535-STAT	Mitha Rabiyyatul Nufus, I Nyoman Budiantara, Vita Ratnasari	Estimation of The Truncated Spline Regression Curve and The Fourier Series on The Open Unemployment Rate Data in Indonesia In Multivariable Nonparametric Regression	Online	17.25-17.35

Field: CHEMISTRY

Date : October 10, 2022 (Day 1)
 Room : Science Learning Center, Floor 4, Classroom 4 + Zoom Virtual Meetings
 (Breakout Room: Chemistry 1)
 Moderator : Irfan Ashari Hiyahara, S.Pd., M.Si
 Operator : Muhammad Fakhruzy, S.Kom

No	Code	Authors	Title	Session	Time
1	IVTS	Suripto Dwi Yuwono, Irza Sukmana, Anita Sukmawati, Nurhasanah, Putu Ristyaning Ayu	The Effect of Gelatin on Characteristic and Properties of Poly Lactic Acid/Cellulose Films	Offline	15.45-16.00
2	IVTS	Ahmad Hafizullah Ritonga, Novesar Jamarun, Syukri Arief, Hermansyah Aziz	The Influence of Precipitated Calcium Carbonate as Filler in LLDPE/CNR Blends with the Existence of LLDPE-g- OAI in the Solvent System	Online	16.00-16.15
2	534- CHEM	RR Dirgarini Julia Nurtianti Subagyo, Siti Sarah, Veliyana Londong Allo, Rahmat Gunawan	Synthesis and Characterization of Mesoporous Silica SBA-15 Prepared by The Ultrasonic Assisted-Sol Gel Method	Offline	16.15-16.25
3	622- CHEM	Moh Syaiful Arif, Alimuddin Alimuddin, Cindi Fatria Nisaul Khasanah	Colorimetric detection of chloramphenicol (CAP) based on aggregation of L- cysteine-stabilized silver nanoparticles	Offline	16.25-16.35
4	591- CHEM	Saskia Kurnia Rachmani, Subur P. Pasaribu, Erwin Erwin, Aman Sentosa Panggabean	Antioxidant And Antibacterial Activities from Edible Film Durian Seeds Starch with Bay Leaves Ethanol Extract Incorporation	Online	16.35-16.45
5	700- CHEM	Veliyana Londong Allo, Gabby Encha Farhanah, Rahmat Gunawan	In Silico Analysis of Auro n Compound from Gedi Leaves as an Inhibitor of Covid-19 MPro	Offline	16.45-16.55
6	658- CHEM	Nanang Tri Widodo, Soerja Koesnardi	Humic Acids-Tropical Peat Soil Supporting On Nanoparticles Fe ₃ O ₄ For Effectively Of Pb(II) Sorption	Offline	16.55-17.05
7	556- CHEM	Riryn Novianty	Molecular docking and ADMET screening of five areca nut compounds against monoamine oxidase-A	Online	17.05-17.15
8	542- CHEM	Rita Rusman, Eva Oktaviani, Rosamah Eni, Medi Hendra, Widia Fatria Sari, Irawan Wijaya Kusuma	Biological Activity and Phytochemicals of Selected Invasive Plants in East Kalimantan, Indonesia	Online	17.15-17.25

Field: PHYSICS + GEOPHYSICS

Date : October 10, 2022 (Day 1)
 Room : Science Learning Center, Floor 4, Discussion Room + Zoom Virtual Meetings (Breakout Room Physics 1)
 Moderator : Dr. Rahmawati, M.Si
 Operator : M. Rasyid Rahman, S. Stat

No	Code	Authors	Title	Session	Time
1	IVTS	Darmawati Darwis	Role of Morphology of Precipitated P3HT/PCBM Nanoparticles in Organic Solar Cells	Online	15.45-16.05
2	IVTS	Prof Haris UI	Optimization of TiO ₂ Purity Level of Lampung's Iron Sand using Leaching Method by Variation of Iron Sand - NaOH Ratio and H ₂ SO ₄ Concentration	Online	16.05-16.25
3	540-PHY	Roniyus Marjunus, Arin Sadita, Mesy Meilani Putri, Indriya Wati, Iqbal Firdaus	Analysis and Evaluation of Stability for the Reactivated Road Landslide Using Electrical Resistivity and Induced Polarization in Muara Badak District, East Kalimantan Province, Indonesia	Offline	16.25-16.35
4	555-GYPH	Wahidah Wahidah, Piter Lepong, Andi Alamsyah, Djayus Djayus, Supriyanto Supriyanto, Qori Fajar Herma wan	Hydrodynamics and Ecosystem Model to Estimate Mitigation of Climate Change in the Ecosystem and Physical Environment in Estuary Delta Mahakam Kalimantan Timur Indonesia	Offline	16.35-16.45
5	703-GYPH	Idris Mandang, Rahmiati Rahmiati, Muhammad Rizam Zetsaona Sitohang, Nanda Khairunisa	Improved PV/T System Performances with Air Collector: Thermodynamics and Photonic Analysis	Offline	16.45-17.00
6	510-PHY	Dadan Hamdani, Sahara Hamas Intifadhah, Ahmad Zarkasi, Kholis Nurhanafi, Rahmawati Munir	Photovoltaic Performance of ZnO Nanorod based Organic Dye with Different Light Intensity for Dye-sensitized Solar Cells	Offline	17.00-17.10
7	633-PHY	Nadiya Ayu Astari ni		Online	17.10-17.20

No	Code	Authors	Title	Session	Time
8	577-GYPH	Titi Anggono, Syuhada Syuhada, Lina Handayani	Estimation of Peak Ground Acceleration around Lake Toba North Sumatra Indonesia from the Observation of Horizontal- to-Vertical Spectral Ratio	Online	17.20-17.30

Field BIOLOGY

Date : October 10, 2022 (Day 1)
 Room : Science Learning Center, Floor 3, Classroom 2 + Zoom Virtual Meetings (Breakout Room Biology 1)
 Moderator : Dr. Dijan Sunar Rukmi
 Operator : Rudianto, S.Si

No	Code	Authors	Title	Session	Time
1	ITS	Ki Ageng Sarwono	Dietary Approach to Mitigate Methane from Rumen	Online	15.45-16.05
2	625-BIO	Mhammad Fandan Akhmadi, Ricky Febrinaldy Simanjuntak, Imra Imra, Ira Maya Abdiani, Rukisah Rukisah, Mala Nurilmala, Agus Oman Sudrajat	Genetic Identification Of Stone Crab (<i>Myomenippe</i> Spp.) With DNA Barcoding Approach Caught In Tarakan City Sea Waters	Online	16.05-16.15
3	645-BIO	Imam Rosadi, Muhammad Fauzi Arif, Hetty Manurung, Dwi Susanto, Retno Aryani, Rudy Agung Nugroho	Antibacterial Activity of Tanikkara Extract (<i>Dillenia excelsa</i> (Jack) Martell ex Gilg) against <i>Escherichia coli</i> and <i>Staphylococcus aureus</i>	Offline	16.15-16.25
4	676-BIO	Dhiya Lathifah, Priyanti, Ardian Khairiah	Diversity of Food Crops at Mobile Vegetable Traders in Kalideres District, West Jakarta	Offline	16.25-16.35
5	672-BIO	Ervinda Yuliatin, Alfia Nasyeka, Anggi Triwijayanti, Rabi'atul Adawiyah, Nova Hariani, Fatmawati Patang, Mukhlis, and Bodhi Dharma	A Preliminary Study on Indigenous <i>Bacillus</i> spp. Isolated from Acidic Soil as Agent of Bioinsecticide	Offline	16.35-16.45
6	547-BIO	Narti Fitriana, Endah Hari Utari, Fahma Wijayanti	Community Structure of Dragonfly in Sokoke mbang Forest, Central Java Province	Offline	16.45-16.55
7	509-BIO	Megga Ratnasari Pikoli, Dinda Ikhwanti, Taufiq, Wisnu Priambodo, Achmad Baihaqi Ulma, Suhendra	Combination of Volume and Frequency of Fungi Inoculation on Agarwood Formation in <i>Gyrinops versteegii</i> of Cijeruk, Bogor	Offline	16.55-17.05
8	501-BIO	Rudy Agung Nugroho, Retno Aryani, Esti Handayani Hardi, Hetty	Proximate Analysis of <i>Hermetia illucens</i> Larvae Fed Palm Oil Meal Waste	Offline	

No	Code	Authors	Title	Session	Time
		Manurung, Rudianto, Widha Prahasika, Nadhifa Aurelia Wirawan, Nadya Salsabila	and Fish Feed Enriched Various Levels of Fructose		17.05-17.15
9	517-BIO	RetnoAryani, Rudy Agung Nugroho, Hetty Manurung, Muhammad Hafidz Rulimada, Erin Maytari, Angeline Sihaan, Rudianto	Antiangiogenic Activity of Silver Nanoparticle of Ficus deltoidea using Chorioallantoic Membrane Assay	Offline	17.15-17.25
10	489-BIO	Eko Kusumawati, Catur Retnaningdyah, Irfan Mustafa, Suharjono Suharjono	Variations in water quality profiles and abundance of sulfur-oxidizing bacteria in post-coal mining ponds of different ages in Samarinda, East Kalimantan	Online	17.25-17.35
11	519-BIO	Syamsuardi Syamsuardi, Nurainas Nurainas, Erizal Erizal, Adi Bejo Suwardi	Collection and potential of wild Baccaurea species in Jambi, Indonesia	Online	17.35-17.45

Field BIOLOGY

Date : October 10, 2022 (Day 1)
 Room : Zoom Virtual Meetings (Breakout Room Biology 2)
 Moderator : M. Fauzi Arif, S.Si., M.Sc
 Operator : Ryan Rachmad Ramadan S.Si

No	Code	Authors	Title	Session	Time
1	572-BIO	Muhammad Rasvid Ridha, Nur Mahdi, Muhammad Riki Shindi Praristiya, Deni Setiawan	Bioactive and Inhibit Egg Hatching from <i>Spondias dulcis</i> Leaf Extract Against <i>Aedes aegypti</i> (Diptera: Culicidae)	Online	15.45-16.00
2	505-BIO	Jarulis, Geka Suci Puspita, Choirul Muslim	The Nucleotide Polymorphism of Blue- Crowned Hanging Parrot <i>Loriculus Galgulus</i> (Aves: Psittacidae) based on Cytochrome B Mitochondrial DNA Gene	Online	16.00-16.10
3	681-BIO	Rida Tiffarent, Fathia Ramadhani, Herjuno Ari Nugroho, Syaiful Rizal, Nina Herlina, Nova Dilla Yanthi, Sugiyono Saputra	The Basic Pharmacophore Virtual Screening of Alternative Ligands and NUDT15 Enzyme Interaction	Online	16.10-16.20
4	668-BIO	Frans Dany, Uly Alfi Nikmah, Fitriah Ernawati, Mutiara Prihatini, Aya Yuriesta Arifin	Genotype Distribution of TCF7L2 Rs7903146 Polymorphism And Its Implication On Triglyceride- Glucose Index Ability To Predict Type 2 Diabetes Mellitus Among Indonesians In Boqor	Online	16.20-16.30
5	627-BIO	Fasya Fadhila, Nova Hariani, Fatmawati Patang	Effectivity Of Phyto- Insecticides of Nutmeg Essential Oil (<i>Myristica Fragrans</i>) and Clove Essential Oil (<i>Syzygium Aromaticum</i>) Toward <i>Sitophilus Oryzae</i>	Online	16.30-16.40
6	701-BIO	Mujiyanto Mujiyanto, Made Agus Nurjana, Hayani Anastasia Eva Oktaviani, Yaya Rayadin,	Spatial Modeling of Dengue Cases in Palu City, Central Sulawesi, Indonesia	Online	16.40-16.45
7	694-BIO	Chandradewana Boer, Paulus Matius, Emi Purwanti, Rachmad Budiwijaya Suba	Study of The Potential Deer Breeding (<i>Rusa timorensis</i> and <i>Axis axis</i>) Tourism at West Java	Online	16.45-17.00

No	Code	Authors	Title	Session	Time
8	605-BIO	Mery Budiarti, Sari Haryanti, Anshary Maruzy, Rohmat Mujahid	Morphological Identification and Cytotoxicity Evaluation of Various Well-known Bajakah from Central Kalimantan, Indonesia	Online	17.00-17.10
9	580-BIO	Rohmat Mujahid, Slamet Wahyono, Wahyu Jokopriyambodo, Mery Budiarti and Harto Widodo	Sinensetin Content In Jawa Tea (<i>Orthosiphon Aristatus</i> (Blume) Miq.) Based On Age Level Of Leaf	Online	17.10-17.20
10	468-BIO	Dewi Restika Ayu Safitri, Mahfut, Ayu Octavia Tanjung Putri	Application of Plant Growth Promoting Fungi (PGPF) using <i>Trichoderma</i> sp. on the Growth of Sweet Corn Varieties of Baruna (<i>Zea mays</i> L. var. <i>saccharata</i>)	Online	17.20-17.30

Field: MATHEMATICS

Date : October 11, 2022 (Day 2)
 Room : Science Learning Center, Floor 3, Discussion Room + Zoom Virtual Meetings (Breakout Room Mathematics 1)
 Moderator : Sri Wigantono, S.Si., M.Sc
 Operator : Fedy Harlanto, S.Si

No	Code	Authors	Title	Session	Time
1	IVTS	Eridani	Diagnosing Diabetes Mellitus using K-Means Clustering Method with Robust Centroids Initialization Based Swarm Intelligence Algorithm	Online	13.30-13.50
2	503-MATH	Tuti Zubaidah, Dewi Annisa, Rahmah Johar, Khaluka Ahsana Fitri	Teacher's Pedagogical Content Knowledge (PCK) in Implementing Realistic Mathematics Education (RME)	Online	13.50-14.00
3	654-MATH	Muh. Fadlan, Hadrian Andradi	Characterization Theorems and Dcpo-completion of Posets in Domain Theory	Online	14.00-14.10
4	646-MATH	Dewi Suhika, Roberd Saragih, and Dewi Handayani	Application of Nonlinear Robust Adaptive Sliding Mode Control on Mathematical Model for Spreading of Covid-19	Online	14.10-14.20
5	478-MATH	Agustan Syamsuddin, Abdul Rahman Rahim, Wahyuddin, Jainuddin, Andi Syukriani	Media of Learning Program Using Blended Design: A Learning Development in Mathematical Economic with an Integrative Learning Design Framework Approach	Online	14.20-14.30
6	492-MATH	Anisah Romsiyatun, Lucia Ratnasari, Siti Khabibah	On Constructing Edge Irregular Total k-Labeling of Sierpinski Gasket Graph	Online	14.30-14.40
7	630-MATH	Zainal Arifin, Nur Hamid, Nurul Jannah	The Comparison of Some Historical Ciphers on A Linear Code over F_2	Online	14.40-14.50
8	686-MATH	Fidyatus Safitri, Purwanto, Santi Irawati	Laplacian Spectrum of the Complement of Identity Graph of Commutative Ring Z_{2^p}	Online	14.50-15.00
9	677-MATH	Rat Simandresy Yerial Fandriana, Purwanto, I Made Sulandra	Set of Flattened Partitions Avoiding Patterns	Online	15.00-15.10
10	702-MATH	Munirah Rosdy, Rashidah Omar, and Sha Haruddin Cik Soh	Applications of a New Generalised Operator in Bi-Univalent Functions	Online	15.10-15.20

Field: MATHEMATICS

Date : October 11, 2022 (Day 2)
 Room : Zoom Virtual Meetings (Breakout Room Mathematics 2)
 Moderator : Desi Febriani Putri, S.Si., M.Si
 Operator :

No	Code	Authors	Title	Session	Time
1	466	Asmiati, Wenty Okzarima, Kumia Muludi, Suhadi Wido Saputro	The Locating Number of Sun Graph and Barbell Operation	Online	15.20-15.30
2	467	Rofilde Hasudungan	Variable Precision Rough Set for Selecting Naive Bayes Attributes in Student Data Analysis	Online	15.30-15.40
3	488	Rofilde Hasudungan, Rudiman Rudiman, Wawan Joko Pranto	Rough Set Theory for Attribute Reduction for Student Satisfaction in Online Learning	Online	15.40-15.50
4	538	Solomon Uche Obiwulu	Variant Approach for Solving Difficult Indicial Problems	Online	15.50-16.00
5					
6					
7					
8					
9					
10					

Field: STATISTICS

Date : October 11, 2022 (Day 2)
 Room : Science Learning Center, Floor 3, Classroom 1 + Zoom Virtual Meetings (Breakout Room Statistics 1)
 Moderator : Siti Mahmuda, M.Si
 Operator : Ruli Yuniarto, S.Si

No	Code	Authors	Title	Session	Time
1	IVTS	Achmad Choiruddin, Nur Iriawan, Sutikno, Aisah, Finola Trisnisa, Siska Oktaviana Dwi Angraeni	Log-Gaussian Cox Point Process: Spatial Flexible Model for Earthquake Modeling and Poverty Analysis	Online	13.30-13.50
2	593- STAT	Ezra Putranda Setiawan, Dhoriva Urwatul Wutsqa, Agus Maman Abadi	Probability Models for Pricing Earthquake Catastrophe Bonds: A Literature Survey	Online	13.50-14.00
3	613- STAT	Apik Wulan Sari, Isnandar Slamet, Hasih Pratiwi	Implementation of Recurrent Neural Network (RNN) and Long Short Term Memory (LSTM) with Vector Representation of Time (Time2vec) for Remaining Useful Life Prediction of Lithium- ion Batteries.	Online	14.00-14.10
4	592- STAT	Nailatul Muna, Agnes Tuti Rumiati, Dedy Dwi Prastyo	Small Area Estimation of Poverty Severity Index for Kecamatan Using Empirical Best Linear Unbiased Prediction Method (Case study: Poverty Severity Index in the city of Surabaya in 2020)	Online	14.10-14.20
5	612- STAT	Zahra Cantia Bela	Speech Command Recognition System Using Neural Network	Online	14.20-14.30
6	651- STAT	Siwi Azizah Oktaviana, Isnandar Slamet, Winita Sulandari	Application of Convolutional Neural Network to Detect Driver Drowsiness	Online	14.30-14.40
7	663- STAT	Hani Dwi Retnani, Neva Satyahadewi, Hendra Perdana	Critical Illness Insurance With Terminal Illness Conditions	Online	14.40-14.50
8	692- STAT	Joji Ardian Pembargi, Dewi Santri Ramdani, Aulia Syifa, Rohyat ul Audil, Nurul Fitriyani	Analysis of Factors that Influence the Learning Interest of the University of Mataram Students in the Covid-19 Era	Online	14.50-15.00

No	Code	Authors	Title	Session	Time
9	590-STAT	Nur Achm ey Selgi Harwanti, Agnes Tuti Rumiati, Kart ika Fithriasari	The Effectiveness of Small Area Estimation with Best Linear Unbiased Prediction Method on Various Sample Sizes with Resampling Simulation on SUSENAS Data in the case of Mean Years School Of Kecamatan (Sub-District) in Surabaya	Online	15.00-15.10
10	583-STAT	RuthAndini	Implementation of Machine Learning Models to Reduce Ambiguity of Medical Abbreviations	Online	15.10-15.20

Field: STATISTICS

Date : October 11, 2022 (Day 2)
 Room : Zoom Virtual Meetings + Zoom Virtual Meetings (Breakout Room: Statistics 2)
 Moderator : Meirinda Fau ziyah, S.Si., M.Stat
 Operator :

No	Code	Authors	Title	Session	Time
1	539-STAT	Rehana Parvin	Does The Exchange Rate Have An Asymmetrical Effect on Economic Sustainability in Bangladesh?	Online	13.30-13.45
2	707-STAT	Dyah Setyo Rini, Sigit Nugroho, Herlin Fransiska, Winalia Agwil, Filo Supianti, Hilma R. Hasbiyah, Muhammad Gabdika Bayubana, Okta Saputra, Cinta Rizki Oktarina	Poverty Modeling in Bengkulu Province using Machine Learning and Spatial Regression	Online	13.45-14.00
3	508-STAT	Agus Suharsono, Sarah Putri Maharani, Rina Wahyuningsih	Time Replacement Optimization of Bucket Hydraulic Cylinder on Mining's Excavator Owned by PT "XYZ" Using the Power Law Process Method	Online	14.00-14.15
4	531-STAT	Isma Fitria Arta, Hasih Pratiwi, Etik Zukhronah	Classification of Human Development Index in Indonesia using Random Forest	Online	14.15-14.30
5	523-STAT	Grace Wulandari, Sri Wahyuningsih Meiliyani, Sirin goringo, Andrean Sergio	Inflation Forecasting for Samarinda City Using Hybrid Singular Spectrum Analysis-Neural Network Model	Online	14.30-14.45
6	525-STAT	Muhammad Zidni Subarkah, Winita Sulandari, Respati wulan	Implementation of Transfer Learning in Convolutional Neural Network Architecture for Android - Based Handwriting Quality Detection	Online	14.45-15.00
7	610-STAT	Edy Saputra Rusdi, Nur Hilal ASyahrir	The comparison of supervised learning method in predicting antibacterial and non-antibacterial activity of marine compounds in South Sulawesi, Indonesia	Online	15.00-15.15

No	Code	Authors	Title	Session	Time
8	708-STAT	Eka Ariyanti, Siti Qomariah ² , Nurhasanah ³	Cloud Computing Modelling Based On The Intersection of Circles and DBSCAN For Characterizing Density of The City	Online	15.15-15.25
9	471-STAT	Jovinto Ferdinand Kusniawan, William Wiguna Iskandar, Hans Christian Conrad, Daniel Daniel, Steven Daniel Yanto	Analyzing and Pradizing Public Interest in Metaverse using Sentiment Analysis with TextBlob	Online	15.25-15.35
10					
11					

Field: PHYSICS + GEOPHYSICS

Date : October 11, 2022 (Day 2)
 Room : Science Learning Center, Floor 4, Discussion Room + Zoom Virtual Meetings (Breakout Room Physics 1)
 Moderator : Qori Fajar Hermawan, S.Si, M.Sc
 Operator : M. Rasyid Rahman, S. Stat

No	Code	Authors	Title	Session	Time
1	IVTS	Jordi Mahardika Puntu	Geoelectrical and Ground Penetrating Radar Techniques: Past, Present, and Future	Online	13.30-13.45
2	IVTS	Junos, Fredy Haryanto, Zaki Suud, Novitrian	Exploring of Monte Carlo Simulation from Case Study of Particle Transport in Gamma Knife Perfexion™ Machine	Online	13.45-14.00
3	475-PHY	Yessi Gusnia, Widayani Sutrisno	Montmorillonite and Chitosan Composite as Adsorbent for Methylene Blue Dye Waste	Online	14.00-14.10
4	607-PHY	Fka Desy Ramadhani, Djayus Djayus	Study of Land Cover On CG (Cloud To Ground) Lightning Strikes in Balikpapan Area in 2015 - 2019	Online	14.10-14.20
5	504-GYPH	Nandi Haerudin, Rustadi, I Gede Yogi Suardana and Suharno	Investigation Prospecting of Saline Water Intrusion: A Case Study of Aquifer Coastal Bandar Lampung, Indonesia	Online	14.20-14.30
6	494-GYPH	Vikki, Firda Islamaya Farhan	Interpretation of Geoelectrical Data for Road Construction Effectiveness in Serindang Village, Sambas Regency	Online	14.30-14.40
7	607-PHY	Fka Desy Ramadhani, Djayus Djayus	Study of Land Cover On CG (Cloud To Ground) Lightning Strikes in Balikpapan Area in 2015 - 2019	Online	14.40-14.50
8	500-GYPH	Abdul Wahid, Sunaryo, Adi Susilo, Wiyono	Analysis of Aquifer Karst and Mitigation of Land Use Vulnerability at Sendang Biru Beach Karst using Geoelectric Resistivity Method	Online	14.50-15.00
9	604-GYPH	Hengky Himawan Sadewo, Djayus Djayus	Identification of The Presence of Groundwater Aquifers Using	Online	15.00-15.10

No	Code	Authors	Title	Session	Time
			Geoelectric Mapping And Sounding Methods In Tanah Merah Village, North Samarinda District		
10	699-GYPH	Fajar Raihan, Lenny Eka Nurhawaillah, Rahmat Asy'Ari, Oghi Risky Pratama, Winda Beatrice Alamako, Nihawa Hajar Pudjawati, Rian Saputra, Salsa Fauziyah Adni, Neviaty Putri Zamani, Rahmat Pramulya, Yudi Setiawan	Spatial Distribution of Urban Tree Canopy in Private Residential Property in Jakarta Bay Reclamation using Google Earth Engine Cloud Computing	Online	15.10-15.20
11	628-GYPH	Salwa Nurisanti Maulidina	The Potential of AgroSilvopastoral Systems (SPS) in Boqor Regency: Best Agroecological Practice at the Plantation Area	Online	15.20-15.30
12	576-PHY	Erly Rosita, Irawan Wijaya Kusuma, Edy Budiarmo, Isna Yuniar Wardhani, Wiwin Suwinarti	Physical and Mechanical Properties of Cement-Bonded Particleboard Produced from Stem and Branch of Sengon Wood (<i>Falcataria moluccana</i> (Miq.) Barneby & J.W. Grimes)	Online	15.30-15.40
13	574-PHY	Jufriah Jufriah, Rudianto Amirta, Wiwin Suwinarti, Irawan Wijaya Kusuma, Isna Yuniar Wardhani	The Effect of Alkali Treatment and Mixture of HDPE - PP as Matrix on Wood-Plastic Composites made by Red Meranti Sawdust	Online	15.40-15.50
14	554	Muhammad Fikruddin Aslam, Hasna Sri Aprilianti, Muhammad Resta Destyana, Rahmat Asy'ari, Winda Beatrice Alamako	Mapping of Land Use Change Sentinel-2 Time Series Imagery And Based On Cloud Computing: A Case Study In Makassar City	Online	15.50-16.00
15	673	Mudrik Haikal, Adila Hasanah, Naufal Amir Jouhary	The Impact of The Mount Anak Krakatau Eruption and Tsunami on Sebesi Island's Environments	Online	16.00-16.10
16	687	Mislan Mislan, Nanda Khoirunisa, Rahmiati Rahmiati, Djayus Djayus, Supriyanto Supriyanto	Utilization of Hydrometry Data to Support Flood Disaster Risk Reduction in The Karang Mumus River Sub-Watershed	Online	16.10-16.20

Field BIOLOGY

Date : October 11, 2022 (Day 2)
 Room : Science Learning Center, Floor 3, Classroom 2 + Zoom Virtual Meetings (Breakout Room Biology 1)
 Moderator : Dr. Dijan Sunar Rukmi
 Operator : Rudianto, S.Si

No	Code	Authors	Title	Session	Time
1	MTS	Karina	Our 11 Years of Clinical Experiences in using Autologous Activated Platelet-Rich Plasma	Online	13.30-13.50
2	484-BIO	Donan Satria Yudha	Diversity and abundance of lizards and snakes (Reptilia: Squamata) in Winongo River, Province of DIY	Online	13.50-14.00
3	669-BIO	Rahmat Agung Munggaran, Ida Kinasih, Ramadhani Eka Putra	Observation of Feed Sources and Visitation Activity of Stingless Bee (<i>Trigona</i> sp.) to Support Beekeeping in Beji Organic Village, Wonogiri	Online	14.00-14.10
4	623-BIO	Zidni Ilman Nawa	The Diversity of Wild Raspberry (<i>Rubus</i> , Rosaceae) and Their Potential for Local People in Aceh Tamiang, Aceh Province, Indonesia	Online	14.10-14.20
5	648-BIO	Sari Haryanti	Apoptosis Induction and Cell Cycle Arrest of <i>Hippeastrum puniceum</i> Bulbous Extract on Breast Cancer 4T1 Cells	Online	14.20-14.30
6	650-BIO	Slamet Wahyono, Sari Haryanti, Rohmat Mujahid, Wahyu Jokopriyambodo, Mery Budiarti	Cytotoxic Potential and Phytochemical Profiling of <i>Scurrula atropurpurea</i> (Bl.) Dans Extracts against T47D Cell Line	Online	14.30-14.40
7	705-BIO	Isna Yuniar Wardhani, Harish Jundana, Irvin Dayadi, and Agus Sulisty Budi	Application of Natural Rubber As Adhesive On Three Wood Species	Online	14.40-14.50
8	514-BIO	Ariyani Noviantari and Putri Reno Intan	Review. Mesenchymal Stem Cells from Human Breast Milk	Online	14.50-15.00
9	499-BIO	Anis Nur Widayati, Arief Mulyono, Gunawan Gunawan, Made Agus Nurjana, Murni	Ecological Index of Rats in Southeast Sulawesi Province, Indonesia	Online	15.00-15.10

No	Code	Authors	Title	Session	Time
		Amirudin, Ristiyanto Ristiyanto			
10	527-B10	Adi Bejo Suwardi, Syamsuardi Syamsuard, Erizal Mukhtar, Nurainas Nurainas	Wild edible fruit plants used as food by the Talang Mamak Tribe in Bukit Tiga Puluh National Park, Indonesia	Online	15.10-15.20

Field BIOLOGY

Date : October 11, 2022 (Day 2)
 Room : Zoom Virtual Meetings (Breakout Room Biology 2)
 Moderator : M. Fauzi Arif, S.Si., M.Sc
 Operator : Ryan Rachmadan S.Si

No	Code	Authors	Title	Session	Time
1	594-BIO	Wien Kusharyoto	Secretory Expression of Bovine Trypsinogen by <i>Pichia pastoris</i> Employing a Truncated Alpha-Factor Leader Sequence and a Modified Propeptide Sequence	Online	13.50-14.00
2	559-BIO	Tri Yuni Kusumah, Mukhlisi, Ulfah Sari, Ardiyanto Nugroho, Ishak Yassir	Environmental Management Effort of Ex-Coal Mining Pit (Void) within IKN Nusantara Area	Online	14.00-14.10
3	545-BIO	Pujiati Pujiati, Nurul Kusuma Dewi, Nur Fadillah	Evaluate the Quality of Compost Fertilizer with Additional Bio-Slurry on Mustard Plants (<i>Brassica rapa</i> L.)	Online	14.10-14.20
4	665-BIO	Gunawan Wibisana, Ida Kirasih, Ramadhani Eka Putra	Diversity and Flower-visiting Insect Activities of Yellow Passion Fruit (<i>Passiflora edulis</i> forma <i>flavicaarpa</i>)	Online	14.20-14.30
5	520-BIO	Dwi Kameluh Agustina, Amin Setyo Leksono, Bagyo Yanuwadi, Akhmad Rizali	Parasitoid Survey of Fruit Flies (<i>Bactrocera</i> spp.) in Chili (<i>Capsicum annum</i>) through the Citizen Science Project	Online	14.30-14.40
6	473-BIO	Mima Widiyanti, Setyo Adiningsih	Human Immunodeficiency Virus-1 (HIV-1) Subtype Based on <i>pol</i> gene among Heterosexual Patient in Jayapura City Papua	Online	14.40-14.50
7	670	Sugiyono Saputra, Herjuno A. Nugroho, Amir Hamidy	Identification of Potential Zoonotic Bacteria Isolated from <i>Cydemys dentata</i> and <i>Siebenrockiella crassicollis</i>	Online	14.50-15.00
8	660	Ratih Rinendyaputri, Aryani Noviantri, Uly Alfi Nikmah, Lisa Andriani L Negoro, Sunamo, Hasta, Rachmawati Noverina, Ahmad Faried, Frans Dany,	An Easy Method for Isolation and 2D Culture of Human Wharthon's Jelly Derived Mesenchymal Stem Cells/Hwjmsc	Online	15.00-15.10

No	Code	Authors	Title	Session	Time
9	519- BIO	Arie Polim, Arief Boediono Syamsu ardi Syamsuardi, Nurainas Nurainas, Erizal Erizal, Adi Bejo Suwardi	Collection and potential of wild <i>Baccaurea</i> species in Jambi, Indonesia	Online	15.10-15.20
10	627	Fasya Fadhila, Nova Hariani, Fatmawati Patang	The Effectiveness of Nutmeg Essential Oil (<i>Myristica fragrans</i>) and Clove Essential Oil (<i>Syzygium aromaticum</i>) in Controlling Rice Weevil (<i>Sitophilus oryzae</i>) Pests	Online	15.20-15.30
11	666	Rustam Rustam	Wildlife Corridor of Connected Isolated Habitat In The New Capital Of Indonesia: Will It Work?	Online	15.30-15.40
12	469	Trinil Susilawati, Aulia Puspita Anugra Yekti, Achadiah Rahmawati, Sri Wahjuning sih	The Success Rate and Causes of Artificial Insemination Failure in Friesian Holstein Cow	Online	15.40-15.50
13	512	Hetty Manurung, Retno Aryani, Rudy Agung Nugroho, Ratna Kusuma, Berliana Simanjuntak	Allelopathic Potential of Tabat Barito (<i>Ficus deltoidea</i> Jack.) Leaves Against the Spiny Pigweed (<i>Amaranthus spinosus</i> L.) and Minnieroot (<i>Ruellia tuberosa</i> L.)	Online	15.50-16.00

The List of Keynote Speakers
The 4th International Conference on Mathematics and Sciences
(ICMSc)



The List of Invited Speakers The 4th International Conference on Mathematics and Sciences (ICMSc)



Prof. Darmawati D., M.Si., Ph.D
Tadulako University
(Physics)



Prof. Dr. rer. nat. Abdul Haris
University of Indonesia
(Geophysics)



Dr. Eng. Supto Dwi Y., S.Si., M.T.
Lampung University
(Chemistry)



Dr. dr. Karina, Sp.BP-RE
- Faculty of Medicine, University of
Pembangunan Nasional Veteran.
- HayandraLab, Hayandra Peduli Foundation
(Biology)



Dr. Achmad Choiruddin, S.Si., M.Sc
Institut Teknologi Sepuluh Nopember
(Statistics)



Dr. Eridani, M.Si.
Airlangga University
(Mathematics)



Dr. Junias, M.Si.
Nusantara Prima Health Institute,
Bukittinggi
(Physics)



Syaiful Anam, S.Si, M.T, Ph.D.
Brawijaya University
(Mathematics)



Ki Ageng S., M.Sc., M.I.L., Ph.D
Research Center for Applied
Zoology-OR HL BRIN
(Biology)



Ahmad Hafizuliah R., S.Si., M.Si.
Sari Muljana University of Indonesia,
Medan (Chemistry)



Jordi Mahardika P., S.Si., M.Sc.
(Ph.D candidate)
National Central University, Taiwan
(Geophysics)



Dr. Fatia Fatimah, S.Si., M.Pd.
Padang Tarbuka University
(Statistics)

Chem - 591

Antioxidant And Antibacterial Activities From Edible Film Durian Seeds Starch With Bay Leaves Ethanol Extract Incorporation

Saskia Kurnia Rachmani, Subur P. Pasaribu^{a)}, Erwin Erwin, Aman Sentosa Panggabean

¹Department of Chemistry, Faculty of Mathematics and Natural Sciences, Mulawarman University

^{a)}Corresponding Author: subur_pasaribu@yahoo.com

Abstract

The research on fabrication of edible film based on durian seeds starch (*Durio zibethinus* Murray) with the incorporation of ethanolic extract of bay leaves (*Syzygium polyanthum* (Wight) Walp.) has been done. The purpose of this research are to knowing the highest antioxidant activity and the best antibacterial activity against *Escherichia coli* and *Staphylococcus aureus* of edible film with incorporation of ethanol extract of bay leaves as well as knowing the characteristic of edible film produced. The fabrications of edible film with the formulation of starch 6%, glycerol 25%, and bay leaf extract 1%, 2%, 3%, 4% (w/v) showed the highest antioxidant activity in the incorporation of 4% extract with a IC_{50} value of 188,78 ppm and the best antibacterial activity in the incorporation of 2% extract against *Escherichia coli* was 11,33 mm and *Staphylococcus aureus* was 8,83 mm. The characteristics of each edible film in the form of water content were 10.98%; 7.15%; 6.03%; 5.86%; and 5.40%, the thickness were 0.22 mm; 0.23 mm; 0.28 mm; 0.29 mm, and 0.32 mm, then the water vapor transmission rate were 34.06 g/m²/hour; 31.04 g/m²/hour; 28.76 g/m²/hour; 27.15 g/m²/hour, and 20.57 g/m²/hour.

General Information

The 4th International Conference on Mathematics and Sciences 2022 10-11 October 2022

How to join the online conference

1. View the Conference Schedule and find the Zoom Link to join the meeting.
2. The registration form will be shared when the conference is running on day 1 and day 2
3. If you are joining the Session before the host has started the meeting, please wait until the host starts the Session.

We are happy to welcome you as a participant at the 4th International Conference on Mathematics and Natural Sciences (ICMSc 2022)!

Here are some rules for the conference:

1. Presenters and participants must attend all sessions in an orderly manner.
2. Our recommendation is to turn on your webcam by default to engage more with other participants and to contribute to a more lively conference experience. When presenting or asking questions, we definitely ask you to turn on your webcam.
3. During the conference, we will mute your microphone.
4. During the presentations, all participants can submit questions through the chat.
5. In the discussion after the presentation, Hosts will have the ability to unmute participants to elaborate on their questions. Please note that due to the limited time for discussion, participants may want to continue the discussion outside the session.
6. Besides the questions posed during the presentation in the chat, participants can also use the 'raise hand' option provided in zoom and be unmuted by the Hosts to start the discussion.
7. When asking a question, please turn on your webcam. After that, you can disable it.
8. For oral presenters, you need to join the breakout room 5 minutes before the scheduled start
9. Presenters and participants must attend all sessions to get certificates.
10. Also, at the end of the conference, presenters and participants must fill out an evaluation form to get certificates.

Information for Keynote Speaker

Plenary Session

The Moderator will introduce the Keynote Speaker, lead the discussions, give turns, keep an eye on the chat and be responsible for timekeeping.

Here are some rules for the plenary session:

1. A keynote speaker will have 40 minutes for presentations and 15 minutes for Q&A. The moderator will notify the speaker if you have 5 minutes remaining and reserve the right to stop the presentation if it is more than the designated time.
2. During the presentations, all participants will be muted but can submit questions through the chat.
3. Besides the questions posed during the presentation in the chat, participants can also use the 'raise hand' option provided in zoom and be unmuted by the Host to start the discussion.
4. The Host will have the ability to unmute participants to elaborate on their questions. Please note that due to the limited time for discussion, participants may want to continue the discussion outside the session.

Information for Oral Presenters

Parallel Session

We are happy to welcome you as a presenter at the 4th International Conference on Mathematics and Natural Sciences (ICMSc 2022)! Next to the presenters, every session has a Moderator and a technical operator (Host). The Moderator will introduce you briefly, lead the discussions, give turns, keep an eye on the chat and be responsible for timekeeping.

ONLINE PRESENTATION GUIDELINES

1. The zoom link will be given by the committee to presenter via whatapps. Please use the newest version of zoom
2. For presenter, please join by using your presentation code name:
Example: 458 BIO -Adam Kurniawan
3. The presenters must be in a breakout room during their presentation session
4. The presenters should be used a virtual background and camera is on from beginning until the end of parallel session
5. The presenters must ensure that they are online at least 10 minutes before the session start
6. The presentation time is no more than 7 minutes, and 3 minutes for Q&A question
7. Presenter must be available online in their room to fulfil conference participation and respond to the questions led by moderator
8. If you have difficulty, please contact the committee as soon as possible

OFFLINE PRESENTATION GUIDELINE

1. Presenter should be ready 10 minutes before the beginning of parallel session in their room
2. Each presenter has 10 minutes, including 7 minutes presentation and 3 minutes for Q&A session

Here are some rules for the parallel session:

1. Please make sure you enabled your camera upon entry, during your presentation, and when you are answering questions; during the presentations of others, you can disable it.
2. An invited speaker will have 10 minutes for presentations and 3 minutes for Q&A. While for oral presenters will have 7 minutes for presentation and 3 minutes for Q&A. The moderator will notify you if you have 1 minute remaining and reserve the right to stop the presentation if it is more than the designated time.
3. Presenters are allowed to share the slides from your own laptop or PC. Presenters can also send the slides to the committee if you find it difficult to

share the slides from your laptop/PC due to internet connection or other reasons.

4. During the presentations, all participants will be muted but can submit questions through the chat.
5. Besides the questions posed during the presentation in the chat, participants can also use the 'raise hand' option provided in zoom and be unmuted by the Host to start the discussion.
6. The Host will have the ability to unmute participants to elaborate on their questions. Please note that due to the limited time for discussion, participants may want to continue the discussion outside the session.

Sponsor

We would like to thank Bank Tabungan Negara (BTN) for financial support for ICMSc 2022





INTERNATIONAL CONFERENCE

ON MATHEMATICS AND SCIENCES

*"THE ROLES of TROPICAL SCIENCE in
NEW CAPITAL NATION PLANNING"*

10th-11th
OCTOBER
2022