



UNIVERSITAS PAKUAN

PRODI BIOLOGI

FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM

Perjalanan Prestasi Selama Berkuliah

NAMA : Widia Rahayu

NPM : 061122004

PRODI : Biologi

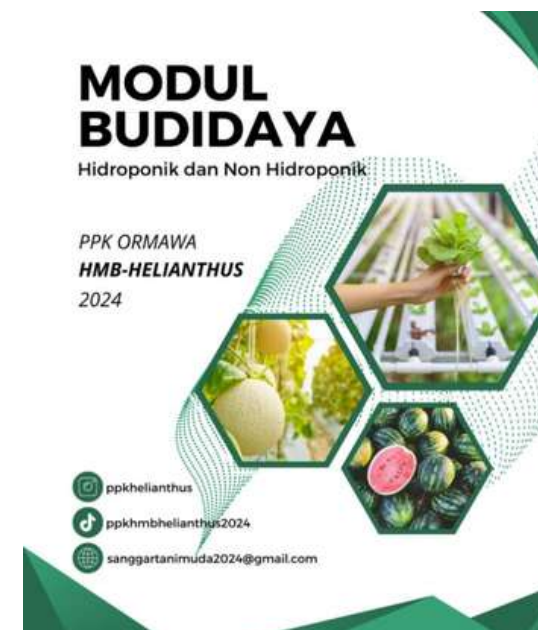


Pencapaian Utama:

- Juara 1 ICOTENS tingkat fakultas 2026
- Juara 2 Pilmapres tingkat fakultas 2025
- Juara 3 KDMI tingkat fakultas 2023
- 2x lolos pendanaan PPKORMAWA (2024 & 2025)



2023 — Juara 3 KDMI tingkat fakultas (debat isu pembangunan, lingkungan dan pangan)

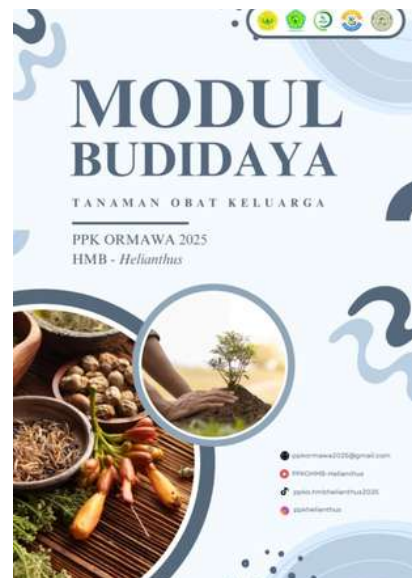


2024 — Lolos pendanaan PPKORMAWA (Kemdiktisaintek), Ketua Divisi Pemasaran, menghasilkan modul, buku refleksi, jurnal, dan pembentukan kelompok masyarakat binaan



2025 — Juara 2 Pilmapres tingkat fakultas, perwakilan Prodi Biologi (gagasan kreatif + poster + presentasi)

2026 — Juara 1 ICOTENS tingkat fakultas (pameran hasil penelitian & karya ilmiah)



2025 — Lolos pendanaan PPKORMAWA (kedua kalinya) sebagai anggota, turut menghasilkan modul, buku refleksi, jurnal, dan kelompok masyarakat binaan

modul

jurnal publikasi

sertifikat PPKORMAWA

**A Journey of Excellence,
Leadership, and Contribution**

Artanti Anggraini
Biology Student • Universitas Pakuan



1st Place FMIPA



3rd Place University Level

PRESTASI

TINGKAT FMIPA



juara 1 pilmapres dari 5 prodi

TINGKAT UNIVERSITAS



juara 3 pilmapres dari 6 fakultas



ARTANTI ANGGRAINI
PRODI BIOLOGI
Atas prestasinya sebagai
Juara 3
Pemilihan Mahasiswa Berprestasi
Tingkat Universitas Pakuan

KOMPETISI NASIONAL



PPK ORMAWA
HMB-Helianthus 2025
KETUA PELAKSANA



INNOVILLAGE 2025
LEAD AQUACULTURE
SPECIALIST



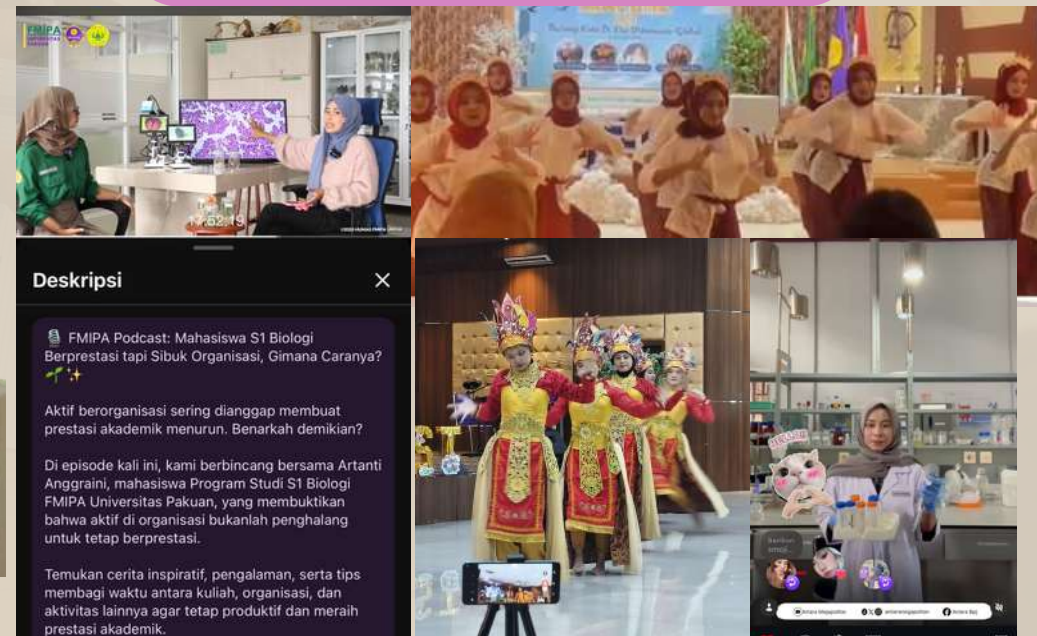
PPK ORMAWA
BEM FMIPA 2026
SEKRETARIS

LEADERSHIP & PUBLIC SPEAKING

- Narasumber — PPK Ormawa FMIPA 2026
- Moderator — Workshop Karya Tulis Semi Ilmiah
- Wakil Ketua — HMB Helianthus 2025
- SATGAS Tutor/Mentor PPK Ormawa 2026



ART & CULTURE



KARYA&LUARAN INTELEKTUAL

- 15 HAKI BERSERTIFIKAT
- 5 BUKU BER-ISBN
- 3 PUBLIKASI JURNAL
- 37 SERTIFIKAT PENGAKUAN dan PENGHARGAAN





PPK *Ormauwa* **HMB-Helianthus**



PROGRAM PPKO

Kegiatan



Pembuatan GH RW 1 & Pembuatan Vertical Garden di Posyandu dan Puskesmas Pembantu



Pelatihan TOGA, Eco Enzyme, Kompos, Pupuk kandang, Maggot, ROVELA & TAMARA, Website

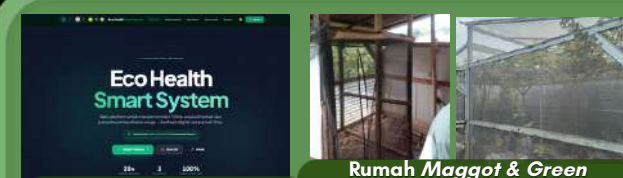


Sosialisasi, Focus Group Discussion, Pelantikan Apotesia, Lokakarya



Kegiatan Posyandu, Senam Bersama, Jumat Bersih

13 HKI



Publikasi Website Eco Health Smart System

Rumah Maggot & Green House



Peta

Vertical Garden Posyandu Pembantu

Luaran



7 Modul & 1 Panduan Website



18 Publikasi Media Massa



3 Publikasi Jurnal & 1 Artikel Ilmiah



5 Poster

Komposter

Rovela

Eco Enzyme, Lindi, Pupuk Kandang & TAMARA



UNIVERSITAS PAKUAN

PRODI KIMIA

FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM



HIMASKA

HIMPUNAN MAHASISWA KIMIA



KEILMUAN

PSDM

INFOKOM

PUK

SOSMAS



LIFE AT HIMASKA



CESIUM



KLUB KAJIAN KIMIA



**HIMASKA SEHAT
BADMIN**



**HIMASKA COMMON
GROUND**



**HIMASKA SEHAT
VOLLY**



DWIPURNA



CONGRADUATION



**STUDI BANDING WITH
HIMAKA UMMI**



**NOBAR FILM EDUKASI
LINGKUNGAN
HIMASKA X SADJIWA**



**HIMASKA
GOES TO SCHOOL**



**KIMADI X PPK
ORMAWA**



**HIMASKA WITH
MABA KIMIA 2026**

HIMASKA BANGGA



**Lulusan dengan
IPK Tertinggi 2026**



**Juara II Kasad Cup
Kategori Ju No Kata**



**Juara Harapan I
Menyanyi Dangdut
Solo (Peksimida)**



**Lolos Pendanaan Riset
PKM - Riset Eksakta
2026**



**Lolos PIMNAS
PKM - Riset Eksakta
2025**



**Lolos Olimpiade Nasional MIPA
2025 dan 2026**



**Lolos Pendanaan Program Penguatan
Kapasitas Oganisasi Mahasiswa
HIMASKA 2026 (Desa Kota Batu)**



**Lolos Pendanaan Program Penguatan
Kapasitas Oganisasi Mahasiswa
HIMASKA 2025 (Desa Sipak)**



UNIVERSITAS PAKUAN

PRODI MATEMATIKA

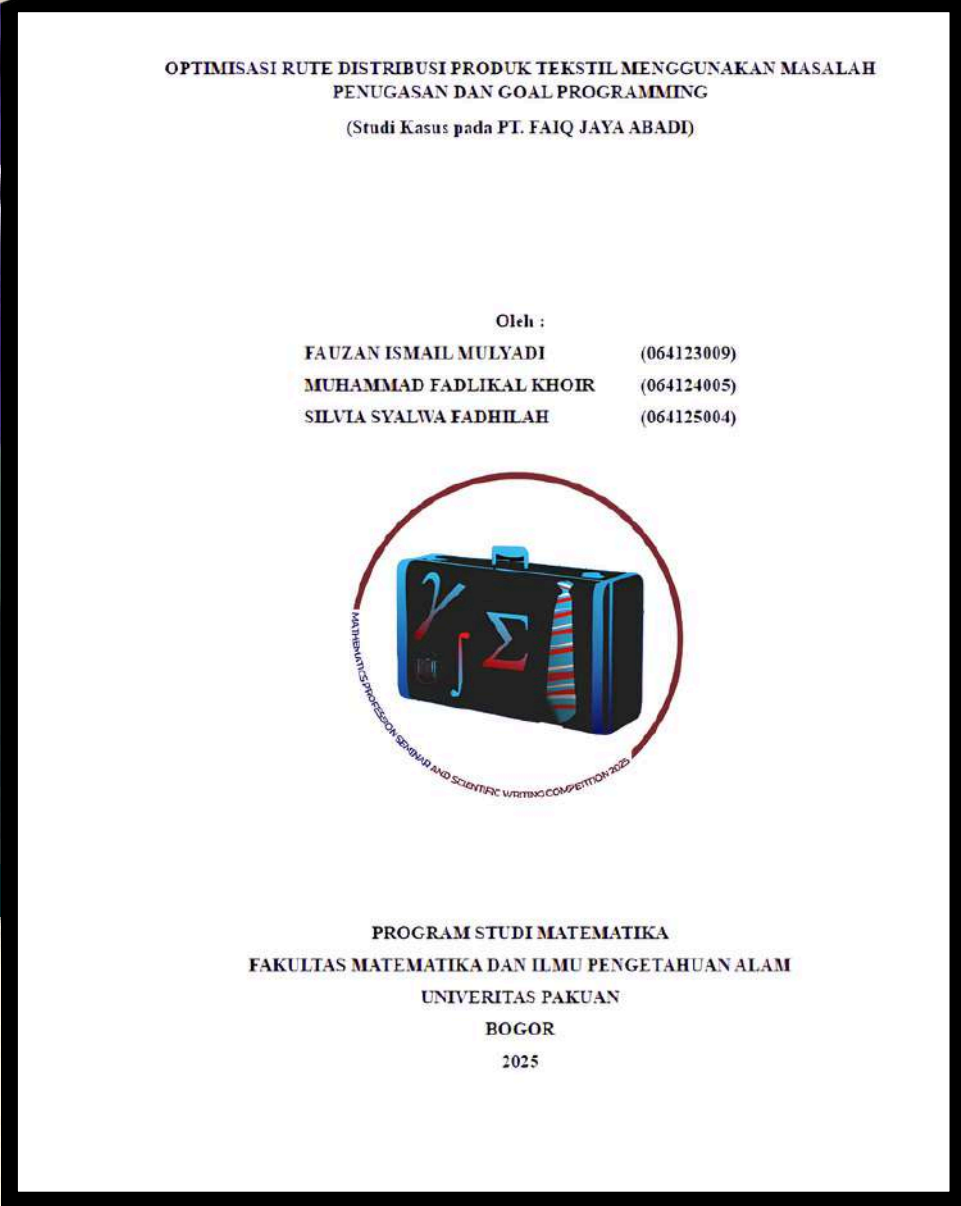
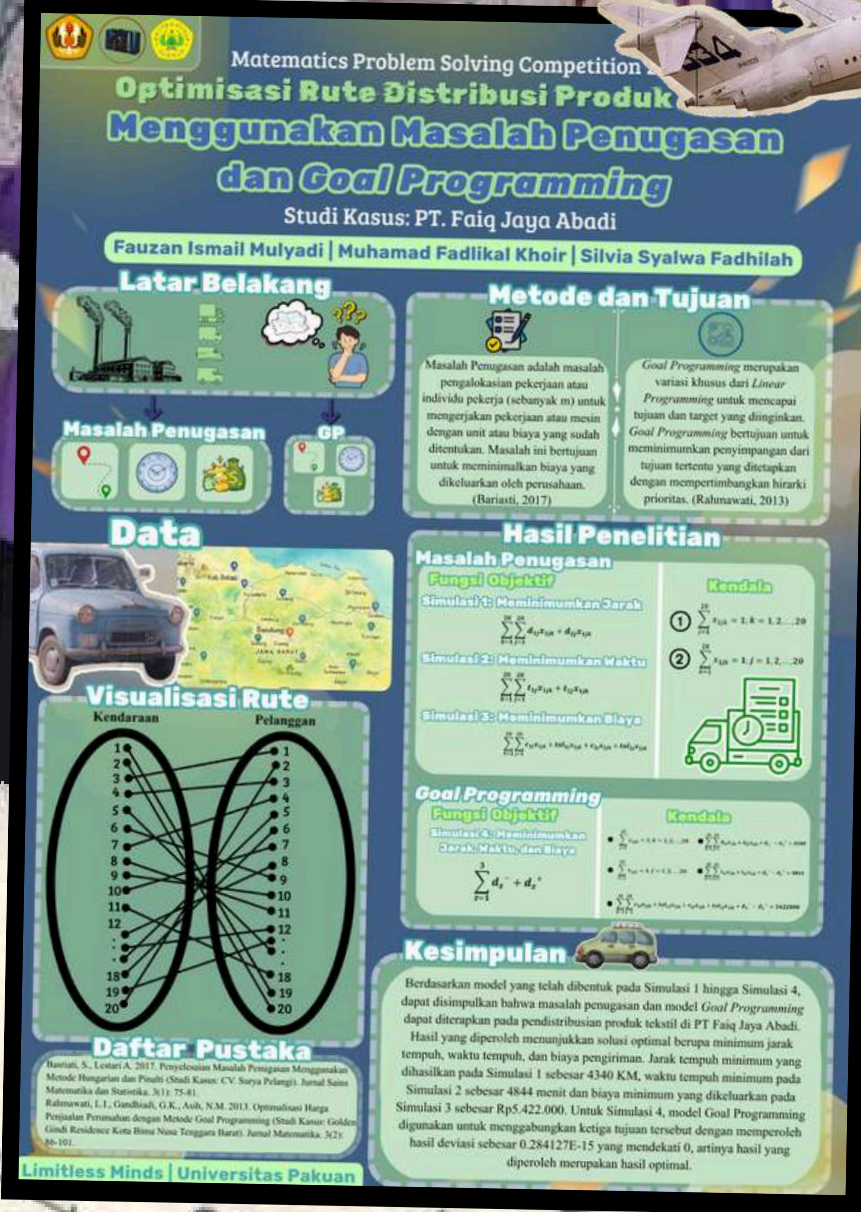
FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM

MATHEMATICS PROBLEM SOVLING COMPETITION UNIVERSITAS PADJADJARAN 2025

FAUZAN ISMAIL MULYADI
PRODI MATEMATIKA



Presentasi



INTERNATIONAL CONFERENCE ON IEOM BALI, INDONESIA

IEOM Society International

6th Asia Pacific International Conference on Industrial Engineering and Operations Management
Bali, Indonesia, August 5-7, 2025. Host & Venue: Warmadewa University (UNWAR)
Co-Hosts: Narotama University, Surabaya and Universitas Pakuan, Bogor

IEOM Undergraduate Student Paper Competition Awards

This is to certify that

Bandar Anzari, Student, Study Program of Mathematics, Faculty of Mathematics and Natural Sciences, Pakuan University, Bogor, Indonesia

Hagni Wijayanti, Lecturer, Study Program of Mathematics, Faculty of Mathematics and Natural Sciences, Pakuan University, Bogor, Indonesia

Pilar Kukuh Bintang Rachmadi, Student, Study Program of Computer Science, Faculty of Mathematics and Natural Sciences, Pakuan University, Bogor, Indonesia

In Recognition of Winning the THIRD Place of the IEOM Undergraduate Student Paper Competition Sponsored by Siemens Entitled "ID 180 Weather Forecasting Using Markov Chains in Bogor City: Software Implementation for Predicting Weather Patterns." Presented at the 6th Asia Pacific IEOM Bali, Indonesia Conference on August 7, 2025.

Dr. Putu Ika Wahyuni
Conference Chair
Department of Infrastructure and Environmental Engineering, Warmadewa University (UNWAR), Bali, Indonesia

Dr. Ahmad Ali
Conference Co-Chair
Associate Professor & Director of IE, Lawrence Tech Univ., Michigan, USA
Chief Executive Officer, IEOM Society

Prof. Don Ratner
Program Co-Chair
Chief Operating Officer
IEOM Society International

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Bandar Anzari
Mathematics student

Proceedings of the 6th Asia Pacific Conference on Industrial Engineering and Operations Management
Bali, Indonesia, August 5-7, 2025

Proceedings of the International Conference on Industrial Engineering and Operations Management

Publisher: IEOM Society International, USA
Published: August 5, 2025

DOI: [10.46254/AP06.20250180](https://doi.org/10.46254/AP06.20250180)

Weather Forecasting Using Markov Chains in Bogor City: Software Implementation for Predicting Weather Patterns

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Faculty of Mathematics and Natural Sciences
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Abstract

This study presents the development and implementation of a Markov Chain-based model to analyze and forecast daily rainfall patterns in Bogor City, Indonesia, a region known for its high precipitation. Using daily rainfall data from July 22, 2024, to July 21, 2025, the rainfall intensities were classified into five categories according to BMKG standards. A transition probability matrix was constructed by calculating the relative frequencies of state changes, and multi-step forecasts were performed using the Chapman-Kolmogorov equation. The model reached a steady state after 16 iterations, with results showing an accuracy of 60%, a recall of 100%, and a precision of 55.56%. These findings indicate that the model performs well in identifying rainfall events, especially light rain, but also produces a notable number of false positives. To demonstrate practical application, a mobile weather prediction tool was developed using the Flutter framework, enabling users to input data and visualize forecast results interactively. The application offers a lightweight, cross-platform solution for localized weather prediction. While the current model is effective for early warning purposes, future improvements are necessary to enhance prediction precision. Overall, this research integrates mathematical modeling with mobile technology to support informed decision-making in high-rainfall regions like Bogor.

Keywords
Markov Chain, Rainfall Prediction, Steady State, Weather Forecasting, Flutter Application

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UNIVERSITAS PAKUAN

PRODI ILMU KOMPUTER

FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM

Himakom



Berprestasi

Kenalan Yuk! ✨

RAFI ACHMAD

(KADEP HUMASKESMA)

M. FADAWKAS ALFARABI

(KAHIM HIMAKOM)

M. SIRAAJUL

KAHFI MUNAJAT



N. Siraaiful Kahfi

KETUA HIMAKOM 2025

KETUA PPKO BEM FMIPA 2026

KETUA 6th INNOVILLAGE

Ketua Himakom 2025

Kemahasiswaan



Innovillage 2025

Danantara Indonesia

INN OVILLAGE
Drive Innovation, Create Impact,
Build a Lasting Future

Telkom University



AquaFeedX: Smart Feeding System sebagai Solusi Kerawanan Pangan melalui Peningkatan Produktivitas Perikanan Air Tawar Berbasis SDGs menuju Smart Aquaculture Village di Desa Pagelaran

AquaFeedX - Universitas Pakuan
"Feeding Smarter, Growing Stronger"

AquaFeedX AquaFeedX aquafeedx16@gmail.com

PROPOSAL
SOCIAL PROJECT PROGRAM INNOVILLAGE 2025

1. TEMA KERAWANAN 2. LUPA KELAPARAN 12. PENGUNCIAN PEREKONOMIAN DAN RESTORASI LINGKUNGAN

AquaFeedX: Smart Feeding System sebagai Solusi Kerawanan Pangan melalui Peningkatan Produktivitas Perikanan Air Tawar Berbasis SDGs menuju Smart Aquaculture Village di Desa Pagelaran

(PAGELARAN, CIOMAS, KABUPATEN BOGOR, JAWA BARAT)

Skema B
TAHUN 2025

Selamat & Sukses
Tim AquaFeedX
dari FMIPA UNPAK

Top 180 Nasional dan Mendapatkan Pendanaan Innovillage 2025

Dengan dosen Pembimbing
Dr. Usep Suhendar, M.Si.

Mahasiswa Prodi Ilkom
Terry Hardy Hartono

Mahasiswa Prodi Ilkom
Muhammad Siraajul Kahfi

Mahasiswa Prodi Biologi
Artanti Anggraini

fmipa.unpak.ac.id @fmipa_unpak FMIPA UNPAK humas.fmipa@unpak.ac.id

Selamat! Tim Anda **Lolos** ke tahap selanjutnya!

Dengan Anggaran Disetujui : Rp
20.610.000

e-SERTIFIKAT
Nomor: 145/CERT-06/INNOV/TLKM/2026
Panitia Pelaksana Program Social Project Innovillage,
Menyampaikan Apresiasi dan Penghargaan Setinggi-tingginya kepada:

Muhammad Siraajul Kahfi
sebagai:
PESERTA TOP 180 INNOVILLAGE 2025
dengan tema:
AquaFeed: Smart Feeding System Sebagai Solusi Kerawanan Pangan Melalui Peningkatan Produktivitas Perikanan Air Tawar Berbasis SDGs Menuju Smart Aquaculture Village di Desa Pagelaran
yang dilaksanakan pada September 2025 hingga April 2026

Dr. Runik Machfiroh, S.Pd., M.Pd.
Ketua Tim Pelaksana Innovillage

UNIVERSITAS PAKUAN

INN OVILLAGE
Drive Innovation, Create Impact,
Build a Lasting Future

Putar K

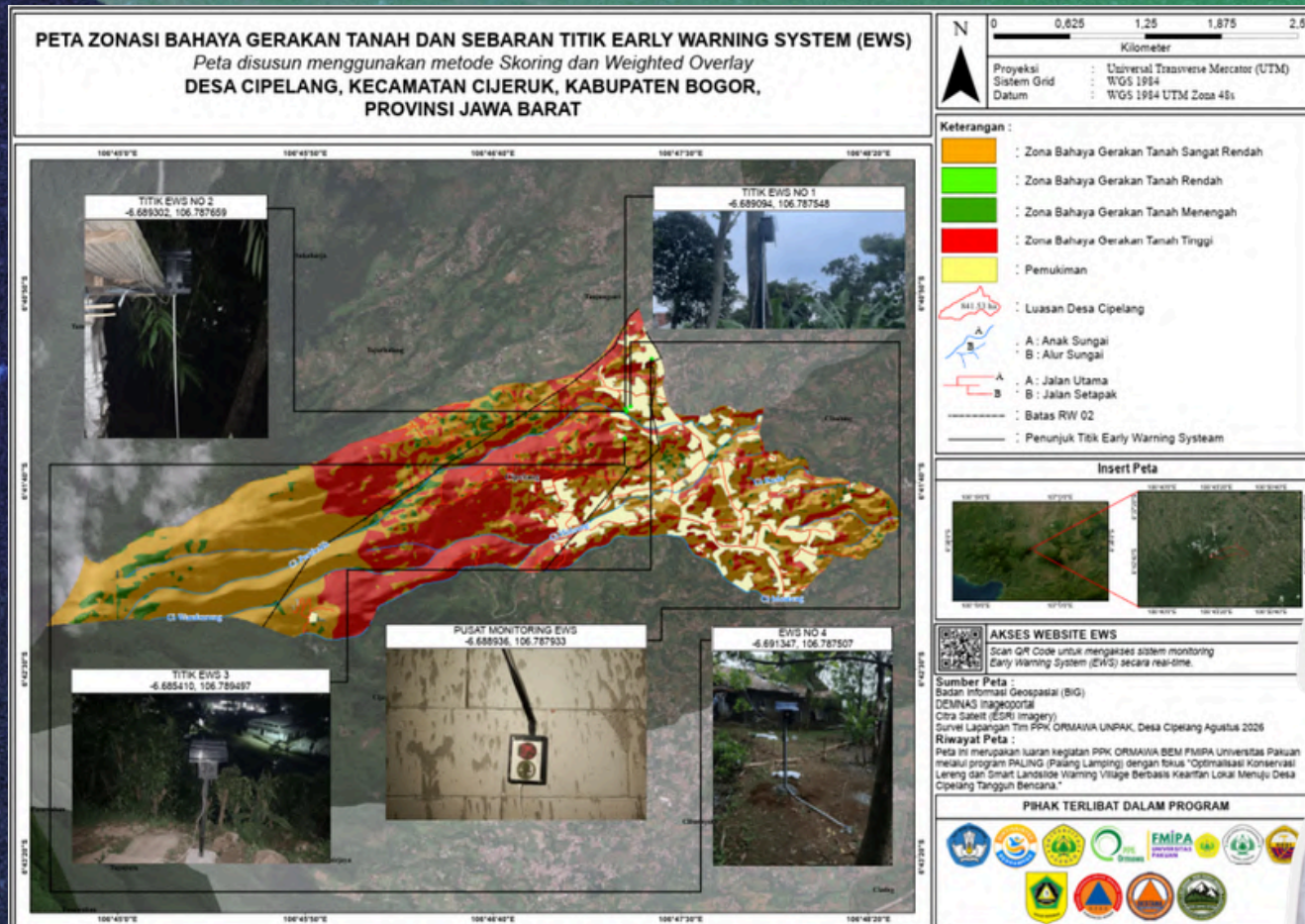
AquaFeeds - Pakan Otomatis

AquaFeedX 0

PROGRAM PENGUATAN KAPASITAS ORGANISASI MAHASISWA BEM FMIPA



PALANG LAMPING : OPTIMALISASI KONSERVASI LERENG DAN *SMART LANDSLIDE WARNING VILLAGE* BERBASIS KEARIFAN LOKAL MENUJU DESA CIPELANG TANGGUH BENCANA



PROGRAM PENGUATAN KAPASITAS ORGANISASI MAHASISWA BEM FMIPA



EARLY WARNING SYSTEM



KONSERVASI LAHAN DENGAN METODE AGROFORESTI



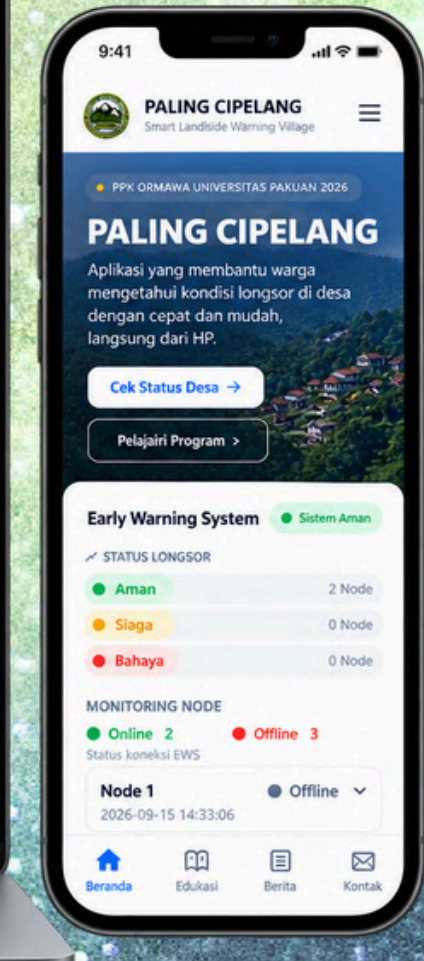
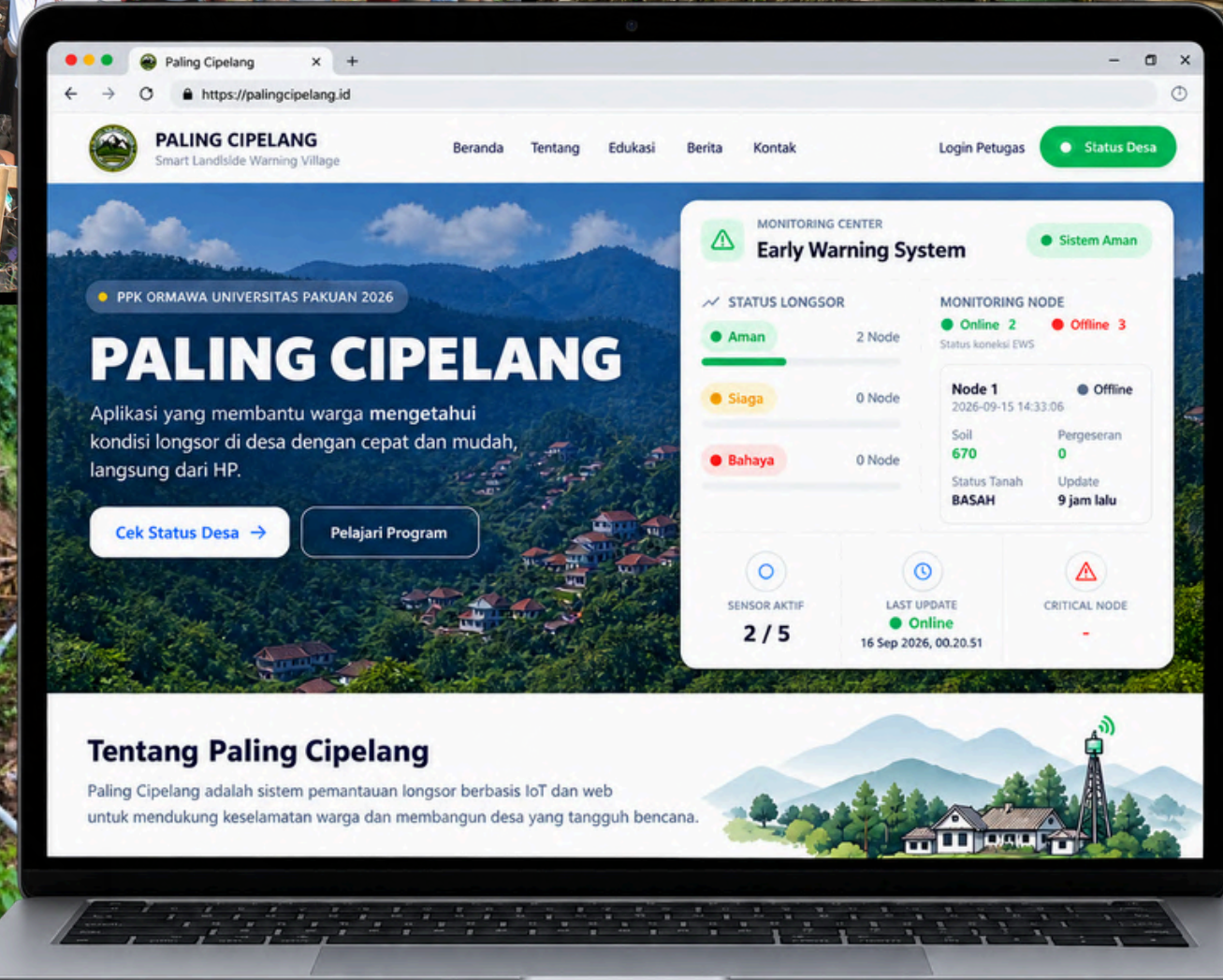
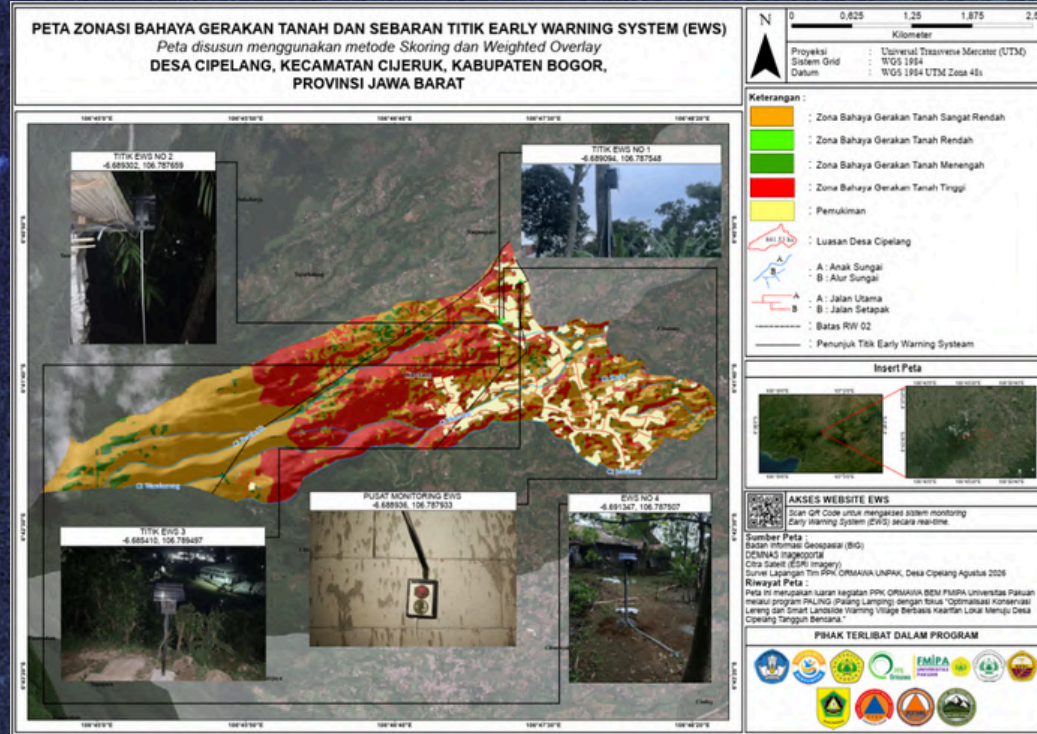
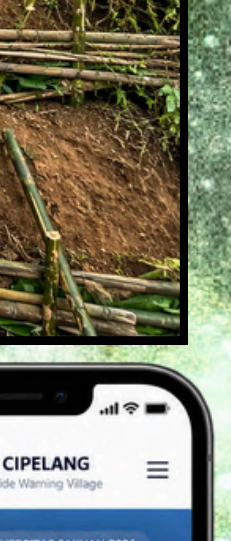
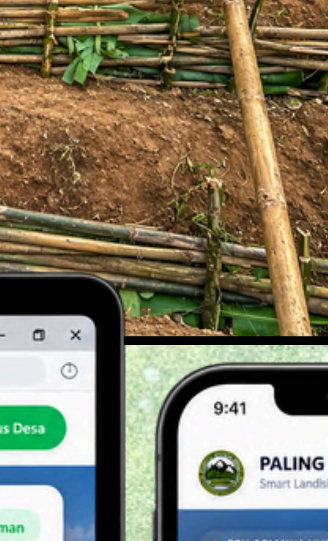
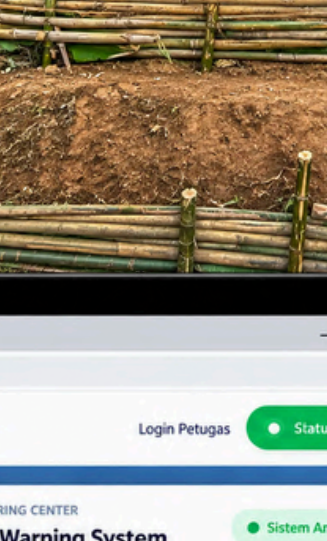
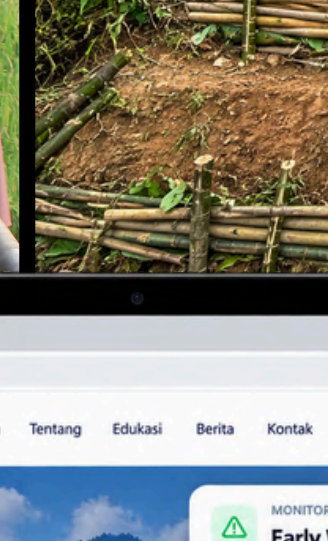
PELATIHAN ANTISIPASI DAN MITIGASI BENCANA



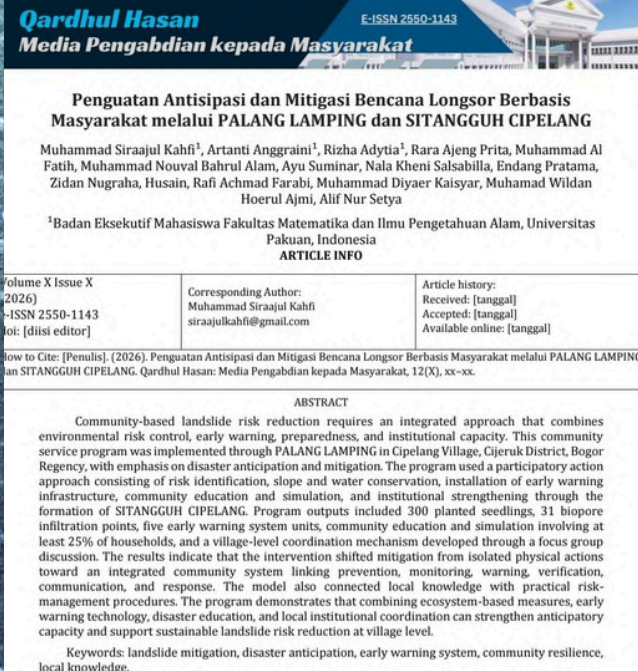
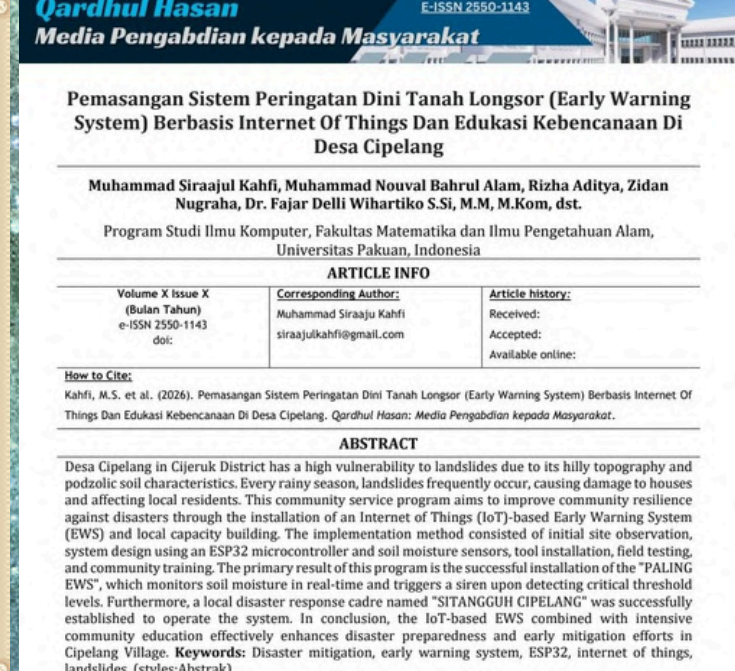
PEMETAAN DAERAH RAWAN LONGSOR MENGGUNAKAN SIG



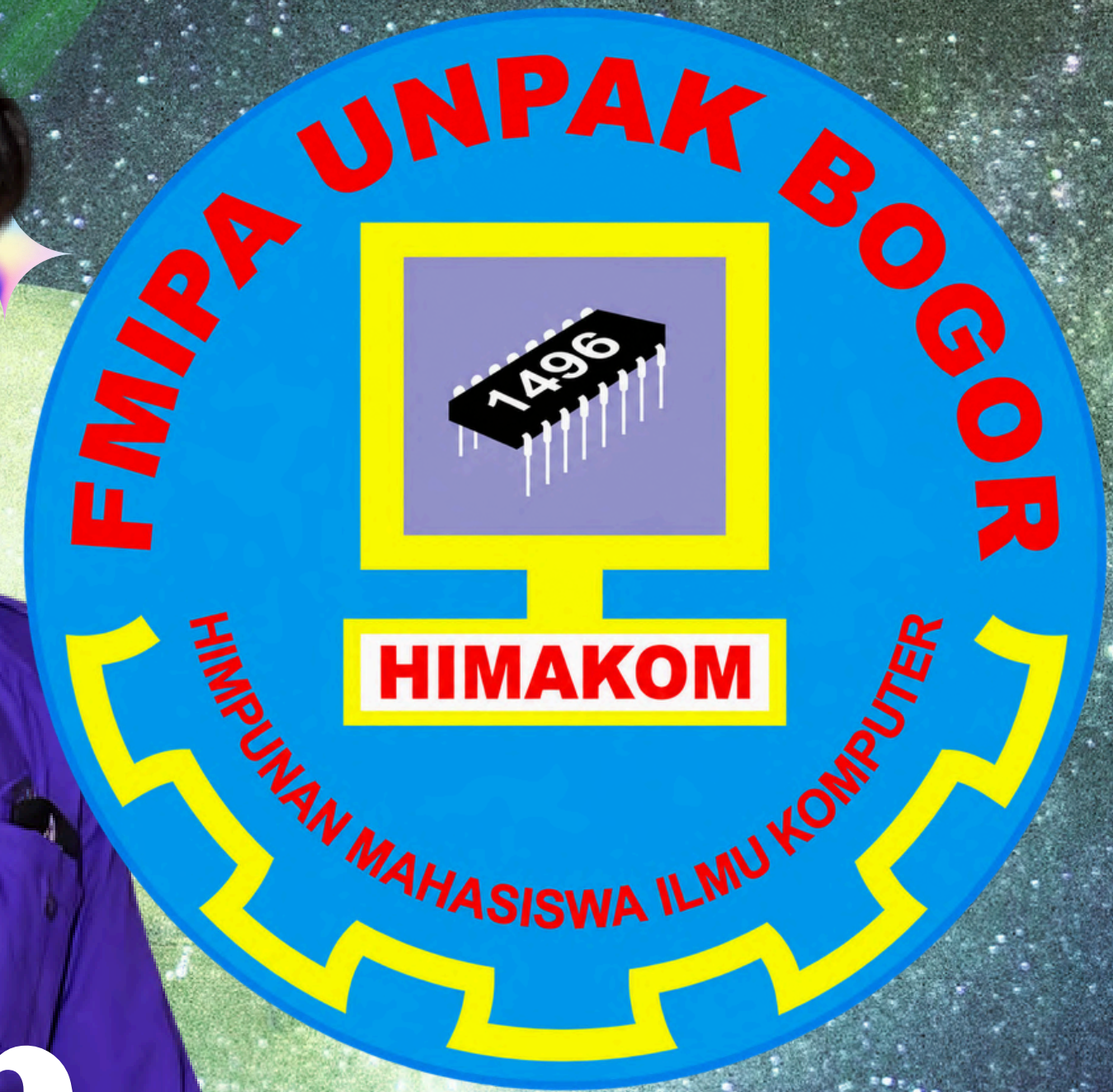
INFRASTRUKTUR FISIK; BIOPORI, SUMUR RESAPAN, & TANDON AIR



Sertifikat & Lainnya



Terimakasih
Semua





UNIVERSITAS PAKUAN

PRODI FARMASI

FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM

My Journey

Presented by **Fathia Dinda**



Best Delegate TCYSPH UNHAS (2024)



Juara 1 Lomba Essay HUT Medium Pers (2024)



Finalis Lomba Essay Tingkat Nasional (LETIN) 5 (2025)



Juara 5 Mahasiswa Berprestasi FMIPA (2025)



Juara 3 Duta Muda Sehat Kota Bogor (2025)



Highest Achieving Pharmacy Student by ISMAFARSI Award (2026)



Lolos Pendanaan PKM-RE (2026)



PKM Hibah LPPM (2026)



PKM Hibah Kemdiktisaintek (2026)



Juara Harapan 2 INVENTA Alpha-C (2026)

"Small progress, is still progress"

"Do it tired, do it scared, do it anyway"

My Journey

Presented by **Vira Haura .F**



Top 180 Innovillage 2025 – SIMORA (2025)



Juara 3 Genovate (2026)



Moderator PLOT & Latihan Kepemimpinan 1 Farmasi (2026)



PKM Global Community Outreach Program (Mudball) UTM x UNPAK 2026



Juara 3 Genovate Business Innovation Competition (2026)



Moderator PLOT & Latihan Kepemimpinan 1 Farmasi (2026)



P2MW B-MAGG EcoFloat: Pakan Ikan Lele Berbasis Maggot BSF dan Daun Pepaya untuk Mendukung Kemandirian Pangan yang Ramah Lingkungan pada Sektor Budidaya Ikan Lele (2026)



PKM Global Community Outreach Program – Kelestarian Air (Mudball), Universiti Teknologi Malaysia (UTM) dengan Universitas Pakuan (UNPAK) 2026



“Every step brings me closer”

“Keep going, keep growing”

My Journey

Presented by **Lasma Umayah**



Juara Harapan II Lomba Inovasi (2026)



10 Besar Lomba Essay Islami (2025)



Finalis Lomba Essay Nasional (2025)



Most Active Participant on EXSIS (Ex Share It Sumatera II) ISMAFARSI (2025)



Pemenang Lomba Inovasi STE-p IPB (2026)



Best Staff IDEAL Bogor Raya (2025)



Lomba Inovasi dan Research ALPHA-C UIN Allaudin Makassar (2026)



MAFARI TERBAIK PLOT 2025

“ Integrity is Priority ”

“ Just Straight with ur Nim ”

Himafar



Juara 2 FUTSAL IT FEST

PIALA YANG DI RAIH HIMAFAR 5 TAHUN TERAKHIR



Integrity is Priority

Just Straight with ur Aim